Pace Analytical Services

Laboratory Code: 11148

SDG Number: L2512607

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Subcontracted Data Deliverable Package 3403

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2512607
Report Date: 03/28/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2512607-01	MW-4S	WATER	416 MILLER PLACE-YAPHANK ROAD	03/06/25 10:30	03/06/25
L2512607-02	MW-4D2	WATER	416 MILLER PLACE-YAPHANK ROAD	03/06/25 10:24	03/06/25
L2512607-03	MW-12S	WATER	416 MILLER PLACE-YAPHANK ROAD	03/06/25 09:13	03/06/25
L2512607-04	MW-12D	WATER	416 MILLER PLACE-YAPHANK ROAD	03/06/25 08:46	03/06/25
L2512607-05	SCDOH_DR	WATER	416 MILLER PLACE-YAPHANK ROAD	03/06/25 11:51	03/06/25
L2512607-06	EQUIPMENT BLANK	EQUIPMENT BLANK	416 MILLER PLACE-YAPHANK ROAD	03/06/25 12:00	03/06/25
L2512607-07	TRIP BLANK	TRIP BLANK (AQUEOUS)	416 MILLER PLACE-YAPHANK ROAD	03/06/25 00:00	03/06/25
L2512607-08	MW-4S_R	WATER	416 MILLER PLACE-YAPHANK ROAD	03/06/25 10:30	03/06/25

Case Narrative

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

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

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

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

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

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

Case Narrative (continued)

Report Submission

March 28, 2025: This final report includes the results of all requested analyses.

March 21, 2025: This is a preliminary report.

March 14, 2025: This is a preliminary report.

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

The following analyses were subcontracted: Ammonium, Iodide, Sulfide, Radium 226, Radium 228, Thorium, and Uranium. Copies of the laboratory reports are included as an addendum. Please note: This data is only available in PDF format and is not available on Data Merger.

Anions by Ion Chromatography

The WG2038793-3 MS recovery performed on L2512607-02 is outside the acceptance criteria for bromide (82%); however, the associated LCS recovery is within criteria. No further action was taken.

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

Authorized Signature: Kelly Stenstrom Report Date: 03/31/25

Title: Technical Director/Representative

DATA PACKAGE GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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

Data Qualifiers

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

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

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

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

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

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

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

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

Data Qualifiers

the identification is based on a mass spectral library search.

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

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

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

TYPICAL INSTRUMENT PARAMETERS

Volatile Organics Instruments

Volatile Organics:

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

Volatile Organics: VPH

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

Volatile Organics: PIANO

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

Volatile Organics: Dissolved Gas

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

Volatile Organics in Air Instruments

Volatile Organics in Air:

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

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

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

Semivolatile Organics Instruments - Westborough

Semivolatile Organics (Acid/Base/Neutral Extractables):

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

Polynuclear Aromatic Hydrocarbons by 8270 SIM:

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

Pesticides/PCB/Herbicides:

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

Petroleum/EPH:

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

Semivolatile Organic Instruments - Mansfield

Semivolatile Organics (ALK-PAH Extractables):

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

Semivolatile Organics (8270):

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

Semivolatile Organics (8270 SIM):

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

Semivolatile Organics (1,4-Dioxane):

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

Semivolatile Organics (209 Congener):

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

Semivolatile Organics (8081):

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

Semivolatile Organics (8082):

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

Semivolatile Organics (SHC Extractables):

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

Sample Delivery Group Summary

Pace Job Number : L2512607

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

Received : 06-MAR-2025
Reviewer : Owen Jefferson

Delivery Information

Samples Delivered By : Pace Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	3.0	
B	Absent/	Ice	2.5	
C	Absent/	Ice	2.0	
D	Absent/	Ice	2.3	

Condition Information

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

Volatile Organics/VPH

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

PACE ANALYTICAL SERVICES
LOGIN CHAIN OF CUSTODY REPORT
Mar 31 2025, 04:42 pm

Login Number: L2512607
Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005
Received: 06MAR25 Due Date: 31MAR25

Sample #	Client ID	Mat	PR	Collected

L2512607-01 MW-4S 1 S0 06MAR25 10:30

772601027270 54.26 PACE, IN NYTCL-8270 SIM Report list built SUB-Sulfide is direct sub to Pace Melville NYTCL-8260:Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate; Methyl cyclohexane Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound NYTCL-8270-RVT Report list built including: Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde;Caprolactam 772600631684 $39.83 USD Galbraith, TN ASP-B Package Due Date: 03/31/25

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

L2512607-02 MW-4D2 1 S0 06MAR25 10:24

NYTCL-8270 SIM Report list built SUB-Sulfide is direct sub to Pace Melville Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound NYTCL-8260:Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT Report list built including: Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde;Caprolactam Package Due Date: 03/31/25

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

PACE ANALYTICAL SERVICES
LOGIN CHAIN OF CUSTODY REPORT
Mar 31 2025, 04:42 pm

Login Number: L2512607
Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005
Received: 06MAR25 Due Date: 31MAR25

Sample #	Client ID	Mat	PR	Collected
L2512607-03	MW-12S		1	S0 06MAR25 09:13

NYTCL-8270 SIM Report list built SUB-Sulfide is direct sub to Pace Melville Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound NYTCL-8260:Report list built including, Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT Report list built including: Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde;Caprolactam Package Due Date: 03/31/25

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

L2512607-04	MW-12D		1	S0 06MAR25 08:46

NYTCL-8270 SIM Report list built SUB-Sulfide is direct sub to Pace Melville Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound NYTCL-8260:Report list built including, Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT Report list built including: Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde;Caprolactam Package Due Date: 03/31/25

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

PACE ANALYTICAL SERVICES
LOGIN CHAIN OF CUSTODY REPORT
Mar 31 2025, 04:42 pm

Login Number: L2512607
Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005
Received: 06MAR25 Due Date: 31MAR25

Sample #	Client ID	Mat	PR	Collected
L2512607-05	SCDOH_DR		1	S0 06MAR25 11:51

NYTCL-8270 SIM Report list built SUB-Sulfide is direct sub to Pace Melville Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound NYTCL-8260:Report list built including, Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT Report list built including: Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde;Caprolactam Package Due Date: 03/31/25

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

Sample #	Client ID	Mat	PR	Collected
L2512607-06	EQUIPMENT BLANK		1	S0 06MAR25 12:00

NYTCL-8270 SIM Report list built SUB-Sulfide is direct sub to Pace Melville Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound NYTCL-8260:Report list built including, Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT Report list built including: Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde;Caprolactam Package Due Date: 03/31/25

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

PACE ANALYTICAL SERVICES
LOGIN CHAIN OF CUSTODY REPORT
Mar 31 2025, 04:42 pm

Login Number: L2512607

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005

Received: 06MAR25 Due Date: 31MAR25

Sample #	Client ID	Mat	PR	Collected
L2512607-07	TRIP BLANK		1	S0 06MAR25 00:00

NYTCL-8270 SIM Report list built SUB-Sulfide is direct sub to Pace Melville Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound NYTCL-8260:Report list built including, Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT Report list built including: Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde;Caprolactam Package Due Date: 03/31/25

NYTCL-8260

L2512607-08	MW-4S_R		1	S0 06MAR25 10:30

Sub rads directly sent to Pace Greensburg Package Due Date: 03/31/25

SUB-ISOTOPIC-URANIUM,SUB-RA226,SUB-RA228,SUB-THORIUM

Logged By: Jennifer Byrnes

NEW YORK CHAIN OF CUSTODY

L2512607
ROUX – NY

ALPHA ANALYTICAL

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

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

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

Page 1 of 3

Date Rec'd in Lab 3/7/25

Client Information

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

Project Information

Project Name: CORAM MATERIALS
Project Location: 416 Miller Place-Yaphank Road
Project #: 2232.0006Y005
(Use Project name as Project #) ☐
Project Manager: Ashley Iervolino
ALPHAQuote #: 30343

Turn-Around Time

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

Deliverables

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

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirement

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

Disposal Site Information

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

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	NYTCL-8260	NYTCL-8270/SIM-RVT	TAL600/TAL-2007S	TDS-2540/TSS-2540	Cl-4500/ Br-300	NO3-4500	NO2-4500	TOTALNITROGEN(tkn 35	Sample Specific Comments	Total Bottles
12607-01	MW-4S	3/6/25	1030	AQ	AI	X	X	X	X	X	X	X	X		15
-02	MW-4D2	3/6/25	1024	AQ	AI	X	X	X	X	X	X	X	X		15
-03	MW-12S	3/6/25	9:13	AQ	AI	X	X	X	X	X	X	X	X		15
-04	MW-12D	3/6/25	8:46	AQ	AI	X	X	X	X	X	X	X	X		15
-05	SCDOH-DR	3/5/25	1151	AQ	AI	X	X	X	X	X	X	X	X		15
-06	Equipment blank	3/6/25	1200	AQ	AI	X	X	X	X	X	X	X	X		15
-07	Trip blank	3/6/25	-	AQ	AI	X									2

Container Type: V A P A P A A A
Preservative: B A C A A D D D

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

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

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

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	3/6/25 1730	[signature]	3/6/25 1730
[signature]	3/6/25 1810	[signature]	3/6/25 1810
		Anthony Green	MAR 06 2025 2100
Anthony Green		[signature]	3/7/25 0435
[signature] 3/7/25 0435			

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

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

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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

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

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

Page 2 of 3

Date Rec'd in Lab: 3/7/25

ALPHA Job #: L25 12607

Client Information

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

Project Information

Project Name: CORAM MATERIALS
Project Location:
Project #: 2232.00006
(Use Project name as Project #)
Project Manager: Ashley Iervolino
ALPHAQuote #: 30343

Turn-Around Time

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

Deliverables

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

Regulatory Requirement

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

Billing Information

☐ Same as Client Info
PO #

Disposal Site Information

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

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
SUB IODIDE send from WB to PACE INDY/ SUB AMMONIUM send from WB to Galbraith Laboratories

Please specify Metals or TAL.

ANALYSIS

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	SO4-4500	Alk-HCO3-2320	Alk-CO3-2320	F-4500	TPO4-4500	SUB-IODIDE	SUB-AMMONIUM	Sample Specific Comments	Total Bottles
12607-01	MW-4S	3/6/25	1030	AQ	AI	X	X	X	X	X	X	X		15
-02	MW-4D2	3/6/25	1024			X	X	X	X	X	X	X		15
-03	MW-12S	3/6/25	913			X	X	X	X	X	X	X		15
-04	MW-12D	3/6/25	846			X	X	X	X	X	X	X		15
-05	SCDOH-DR	3/6/25	1150			X	X	X	X	X	X	X		15
-06	Equipment blank	3/6/25	1205			X	X	X	X	X	X	X		15
-07	Trip blank	-	-		-									2

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

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

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

Container Type	P	P	P	P	A	P	P	
Preservative	A	A	A	A	D	A	D	

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	3/6/25 1330	[signature]	3/6/25 13:50
[signature]	3/6/25 18:10	WSSC	3/6/25 18:10
		Anthony Green	MAR 06 2025 21:00
Anthony Green		[signature]	3/7/25 0200
[signature] PACE	3/7/25 0435	[signature]	3/7/25 0435

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

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

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL LABORATORIES

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

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

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

Page 3 of 3

Date Rec'd in Lab

ALPHA Job #

Client Information

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

Project Information

Project Name: CORAM MATERIALS
Project Location:
Project #: 2232 0006Y005
(Use Project name as Project #) ☐
Project Manager: Ashley Iervolino
ALPHAQuote #: 30343

Turn-Around Time

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

Deliverables

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

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirement

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

Disposal Site Information

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

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
Sub SULFIDE courier to PACE MELVILLE

Please specify Metals or TAL.

ANALYSIS: SUB-SULFIDE

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	SUB-SULFIDE	Sample Specific Comments	Total Bottles
	MW-4S	3/5/25	1030	AQ	AI	X		1S
	MW-4D2	"	1024	"	AI	X		1S
	MW-12S	"	913	"	"	X		1S
	MW-12D	"	846	"	"	X		1S
	SCDOH DR	"	1151	"	"	X		1S
	Equipment blank	"	1200	"	"	X		1S
	Trip blank	—	—	—	—			2

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

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

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

Container Type: P
Preservative: C

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	3/6/25 9:50	[signature]	3/6/25 13:50

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

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

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
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Service Centers
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Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab

ALPHA Job #

Client Information

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

Project Information

Project Name: CORAM MATERIALS
Project Location:
Project #: 2232.0006Y005
(Use Project name as Project #) ☐
Project Manager: Ashley Iervolino
ALPHAQuote #: 30343

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

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
SUB Uranium/Thorium/RA226/RA228 Send to PACE Greensburg

Please specify Metals or TAL.

Deliverables

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

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirement

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

Disposal Site Information

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

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Sub-Uranium: HASL 300	Sub-Thorium: HASL 300	Sub-Ra228: 904.0	Sub-RA226: 903.1	Total Bottles
	MW-45-R	3/6/25	1030	AQ	AI	X	X	X	X	4

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

Sample Specific Comments

Container Type	P	P	P	P
Preservative	C	C	C	C

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

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

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

Relinquished By:	Date/Time	Received By:	Date/Time
	3/6/25 1350	MW Dewitt	3/6/25 17:50
MW Dewitt	3/6/25 18:10	NJSC	3/6/25 18:10
	3/7		3/7 12:30
	3/7 16:40		3/7 1400

Fine Cooke 3/7 3.10.25 9:18 Fine Cooke 3.10.25 7:00

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

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

Organics

GC/MS 8260
Analysis

Volatiles QC Summary

Surrogate Recovery Summary
Form 2
Volatiles

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

Lab Number: L2512607
Project Number: 2232.0006Y005
Matrix:

CLIENT ID (LAB SAMPLE NO.)	SMC1 DCA	SMC2 TOL	SMC3 BFB	SMC4 DBFM	TOT OUT
MW-4S (L2512607-01)	106	100	110	106	0
MW-4D2 (L2512607-02)	107	98	106	108	0
MW-12S (L2512607-03)	107	101	111	105	0
MW-12D (L2512607-04)	107	100	107	106	0
SCDOH_DR (L2512607-05)	106	99	110	104	0
EQUIPMENT BLANK (L2512607-06)	106	103	97	103	0
TRIP BLANK (L2512607-07)	106	103	98	105	0
WG2039699-3LCS	101	100	108	101	0
WG2039699-4LCSD	107	100	107	104	0
WG2039699-5BLANK	105	99	109	107	0
WG2040184-3LCS	100	103	98	102	0
WG2040184-4LCSD	101	103	97	101	0
WG2040184-5BLANK	107	102	97	102	0

QC LIMITS

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

*** Values outside of QC limits**

FORM II NYTCL-8260

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG2039699-3 **Analysis Date** : 03/12/25 09:27	**File ID**	: VE250312A01
LCSD Sample ID	: WG2039699-4 **Analysis Date** : 03/12/25 09:51	**File ID**	: VE250312A02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Methylene chloride	10	9.9	99	10	10	100	1	70-130	20
1,1-Dichloroethane	10	10	100	10	10	100	0	70-130	20
Chloroform	10	10	100	10	10	100	0	70-130	20
Carbon tetrachloride	10	11	110	10	10	100	10	63-132	20
1,2-Dichloropropane	10	10	100	10	10	100	0	70-130	20
Dibromochloromethane	10	9.4	94	10	9.6	96	2	63-130	20
1,1,2-Trichloroethane	10	9.3	93	10	9.2	92	1	70-130	20
Tetrachloroethene	10	10	100	10	10	100	0	70-130	20
Chlorobenzene	10	9.5	95	10	9.3	93	2	75-130	20
Trichlorofluoromethane	10	7.4	74	10	7.3	73	1	62-150	20
1,2-Dichloroethane	10	9.8	98	10	10	100	2	70-130	20
1,1,1-Trichloroethane	10	9.8	98	10	10	100	2	67-130	20
Bromodichloromethane	10	9.5	95	10	9.8	98	3	67-130	20
trans-1,3-Dichloropropene	10	9.2	92	10	9.1	91	1	70-130	20
cis-1,3-Dichloropropene	10	9.6	96	10	9.6	96	0	70-130	20
Bromoform	10	8.8	88	10	9.0	90	2	54-136	20
1,1,2,2-Tetrachloroethane	10	9.2	92	10	9.3	93	1	67-130	20
Benzene	10	9.6	96	10	9.4	94	2	70-130	20
Toluene	10	9.2	92	10	9.1	91	1	70-130	20
Ethylbenzene	10	9.2	92	10	9.2	92	0	70-130	20
Chloromethane	10	8.9	89	10	8.5	85	5	64-130	20
Bromomethane	10	5.9	59	10	5.7	57	3	39-139	20
Vinyl chloride	10	8.4	84	10	8.1	81	4	55-140	20
Chloroethane	10	8.2	82	10	8.5	85	4	55-138	20
1,1-Dichloroethene	10	7.9	79	10	8.1	81	3	61-145	20
trans-1,2-Dichloroethene	10	10	100	10	10	100	0	70-130	20

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG2039699-3 **Analysis Date** : 03/12/25 09:27	**File ID**	: VE250312A01
LCSD Sample ID	: WG2039699-4 **Analysis Date** : 03/12/25 09:51	**File ID**	: VE250312A02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Trichloroethene	10	9.9	99	10	9.7	97	2	70-130	20
1,2-Dichlorobenzene	10	9.7	97	10	9.6	96	1	70-130	20
1,3-Dichlorobenzene	10	9.7	97	10	9.6	96	1	70-130	20
1,4-Dichlorobenzene	10	9.3	93	10	9.4	94	1	70-130	20
Methyl tert butyl ether	10	9.0	90	10	9.4	94	4	63-130	20
p/m-Xylene	20	18	90	20	18	90	0	70-130	20
o-Xylene	20	18	90	20	18	90	0	70-130	20
cis-1,2-Dichloroethene	10	9.9	99	10	10	100	1	70-130	20
Styrene	20	17	85	20	17	85	0	70-130	20
Dichlorodifluoromethane	10	8.4	84	10	8.0	80	5	36-147	20
Acetone	10	11	110	10	10	100	10	58-148	20
Carbon disulfide	10	8.7	87	10	8.6	86	1	51-130	20
2-Butanone	10	11	110	10	12	120	9	63-138	20
4-Methyl-2-pentanone	10	8.0	80	10	8.2	82	2	59-130	20
2-Hexanone	10	8.1	81	10	8.9	89	9	57-130	20
Bromochloromethane	10	9.9	99	10	10	100	1	70-130	20
1,2-Dibromoethane	10	9.5	95	10	9.8	98	3	70-130	20
1,2-Dibromo-3-chloropropane	10	8.3	83	10	9.5	95	13	41-144	20
Isopropylbenzene	10	9.4	94	10	9.4	94	0	70-130	20
1,2,3-Trichlorobenzene	10	9.4	94	10	9.7	97	3	70-130	20
1,2,4-Trichlorobenzene	10	9.9	99	10	9.9	99	0	70-130	20
Methyl Acetate	10	9.3	93	10	11	110	17	70-130	20
Cyclohexane	10	10	100	10	9.9	99	1	70-130	20
Freon-113	10	8.3	83	10	8.6	86	4	70-130	20
Methyl cyclohexane	10	8.7	87	10	8.7	87	0	70-130	20

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG2040184-3 **Analysis Date** : 03/13/25 08:22	**File ID**	: V01250313A04
LCSD Sample ID	: WG2040184-4 **Analysis Date** : 03/13/25 08:49	**File ID**	: V01250313A05

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

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG2040184-3 **Analysis Date** : 03/13/25 08:22	**File ID**	: V01250313A04
LCSD Sample ID	: WG2040184-4 **Analysis Date** : 03/13/25 08:49	**File ID**	: V01250313A05

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Trichloroethene	10	10	100	10	9.9	99	1	70-130	20
1,2-Dichlorobenzene	10	10	100	10	10	100	0	70-130	20
1,3-Dichlorobenzene	10	11	110	10	10	100	10	70-130	20
1,4-Dichlorobenzene	10	10	100	10	10	100	0	70-130	20
Methyl tert butyl ether	10	9.7	97	10	9.5	95	2	63-130	20
p/m-Xylene	20	22	110	20	21	105	5	70-130	20
o-Xylene	20	22	110	20	21	105	5	70-130	20
cis-1,2-Dichloroethene	10	10	100	10	9.8	98	2	70-130	20
Styrene	20	22	110	20	22	110	0	70-130	20
Dichlorodifluoromethane	10	9.3	93	10	8.9	89	4	36-147	20
Acetone	10	8.9	89	10	8.6	86	3	58-148	20
Carbon disulfide	10	10	100	10	9.9	99	1	51-130	20
2-Butanone	10	11	110	10	11	110	0	63-138	20
4-Methyl-2-pentanone	10	9.2	92	10	9.4	94	2	59-130	20
2-Hexanone	10	9.2	92	10	8.5	85	8	57-130	20
Bromochloromethane	10	11	110	10	10	100	10	70-130	20
1,2-Dibromoethane	10	10	100	10	10	100	0	70-130	20
1,2-Dibromo-3-chloropropane	10	8.1	81	10	8.7	87	7	41-144	20
Isopropylbenzene	10	11	110	10	10	100	10	70-130	20
1,2,3-Trichlorobenzene	10	8.7	87	10	9.8	98	12	70-130	20
1,2,4-Trichlorobenzene	10	9.5	95	10	9.9	99	4	70-130	20
Methyl Acetate	10	10	100	10	10	100	0	70-130	20
Cyclohexane	10	10	100	10	9.7	97	3	70-130	20
Freon-113	10	10	100	10	9.4	94	6	70-130	20
Methyl cyclohexane	10	10	100	10	9.8	98	2	70-130	20

Method Blank Summary
Form 4
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG2039699-5	**Lab File ID**	: VE250312A05
Instrument ID	: ELAINE		
Matrix	: WATER	**Analysis Date**	: 03/12/25 11:04

Client Sample No.	Lab Sample ID	Analysis Date
WG2039699-3LCS	WG2039699-3	03/12/25 09:27
WG2039699-4LCSD	WG2039699-4	03/12/25 09:51
MW-4S	L2512607-01	03/12/25 14:44
MW-4D2	L2512607-02	03/12/25 15:08
MW-12S	L2512607-03	03/12/25 15:33
MW-12D	L2512607-04	03/12/25 15:57
SCDOH_DR	L2512607-05	03/12/25 16:22

Method Blank Summary
Form 4
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG2040184-5	**Lab File ID**	: V01250313A08
Instrument ID	: VOA101		
Matrix	: WATER	**Analysis Date**	: 03/13/25 10:08

Client Sample No.	Lab Sample ID	Analysis Date
WG2040184-3LCS	WG2040184-3	03/13/25 08:22
WG2040184-4LCSD	WG2040184-4	03/13/25 08:49
EQUIPMENT BLANK	L2512607-06	03/13/25 11:54
TRIP BLANK	L2512607-07	03/13/25 12:21

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: VOA101	**Analysis Date**	: 02/08/25 00:11
Tune Standard	: WG2028963-1	**Tune File ID**	: V01250208ABF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	24.3
75	30.0 - 80.0% of mass 95	50.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.5 (.8)1
174	Greater than 50.0% of mass 95	71.7
175	5.0 - 9.0% of mass 174	5.5 (7.7)1
176	Greater than 95.0% but less than 101% of mass	69.7 (97.3)1
177	5.0 - 9.0% of mass 176	4.7 (6.8)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.19PPB	R1929699-1	V01250208A03	02/08/25 01:30
STD0.5PPB	R1929699-2	V01250208A05	02/08/25 02:22
STD2PPB	R1929699-3	V01250208A07	02/08/25 03:14
STD10PPB	R1929699-4	V01250208A09	02/08/25 04:07
STD30PPB	R1929699-5	V01250208A10	02/08/25 04:33
STD80PPB	R1929699-6	V01250208A11	02/08/25 04:59
STD120PPB	R1929699-7	V01250208A12	02/08/25 05:25
STD200PPB	R1929699-8	V01250208A13	02/08/25 05:51
CORRELATION DATA SUMMARY	R1929699-9	V01250208A18	02/08/25 08:02
ICV QUANT REPORT	R1929699-9	V01250208A18	02/08/25 08:02

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: VOA101	**Analysis Date**	: 03/13/25 06:49
Tune Standard	: WG2040184-1	**Tune File ID**	: V01250313ABF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	24
75	30.0 - 80.0% of mass 95	48.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.9 (1.2)1
174	Greater than 50.0% of mass 95	75
175	5.0 - 9.0% of mass 174	5.7 (7.6)1
176	Greater than 95.0% but less than 101% of mass	72.6 (96.9)1
177	5.0 - 9.0% of mass 176	4.8 (6.7)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG2040184-2CCAL	WG2040184-2	V01250313A04	03/13/25 08:22
WG2040184-3LCS	WG2040184-3	V01250313A04	03/13/25 08:22
WG2040184-4LCSD	WG2040184-4	V01250313A05	03/13/25 08:49
WG2040184-5BLANK	WG2040184-5	V01250313A08	03/13/25 10:08
EQUIPMENT BLANK	L2512607-06	V01250313A12	03/13/25 11:54
TRIP BLANK	L2512607-07	V01250313A13	03/13/25 12:21

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: ELAINE	**Analysis Date**	: 02/20/25 22:12
Tune Standard	: WG2033412-1	**Tune File ID**	: VE250220NBF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	22.2
75	30.0 - 80.0% of mass 95	54.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.1
173	Less than 2.0% of mass 174	0.8 (1)1
174	Greater than 50.0% of mass 95	83.3
175	5.0 - 9.0% of mass 174	5.9 (7.1)1
176	Greater than 95.0% but less than 101% of mass	81.3 (97.6)1
177	5.0 - 9.0% of mass 176	5.4 (6.6)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.19PPB	R1933810-1	VE250220N04	02/20/25 23:45
STD0.5PPB	R1933810-2	VE250220N06	02/21/25 00:33
STD2PPB	R1933810-3	VE250220N08	02/21/25 01:22
STD10PPB	R1933810-4	VE250220N10	02/21/25 02:10
STD30PPB	R1933810-5	VE250220N11	02/21/25 02:34
STD80PPB	R1933810-6	VE250220N12	02/21/25 02:58
STD120PPB	R1933810-7	VE250220N13	02/21/25 03:22
STD200PPB	R1933810-8	VE250220N14	02/21/25 03:46
Correlation Data Summary	R1933810-9	VE250220N19	02/21/25 05:47
ICV Quant Report	R1933810-9	VE250220N19	02/21/25 05:47

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: ELAINE	**Analysis Date**	: 03/12/25 09:13
Tune Standard	: WG2039699-1	**Tune File ID**	: VE250312ABF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	20.2
75	30.0 - 80.0% of mass 95	51.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.8 (1)1
174	Greater than 50.0% of mass 95	81
175	5.0 - 9.0% of mass 174	5.4 (6.7)1
176	Greater than 95.0% but less than 101% of mass	78.1 (96.4)1
177	5.0 - 9.0% of mass 176	5.9 (7.5)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG2039699-2CCAL	WG2039699-2	VE250312A01	03/12/25 09:27
WG2039699-3LCS	WG2039699-3	VE250312A01	03/12/25 09:27
WG2039699-4LCSD	WG2039699-4	VE250312A02	03/12/25 09:51
WG2039699-5BLANK	WG2039699-5	VE250312A05	03/12/25 11:04
MW-4S	L2512607-01	VE250312A14	03/12/25 14:44
MW-4D2	L2512607-02	VE250312A15	03/12/25 15:08
MW-12S	L2512607-03	VE250312A16	03/12/25 15:33
MW-12D	L2512607-04	VE250312A17	03/12/25 15:57
SCDOH_DR	L2512607-05	VE250312A18	03/12/25 16:22

Internal Standard Area and RT Summary
Form 8a
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: ELAINE	**Analysis Date**	: 03/12/25 09:27:00
Sample No	: WG2039699-2	**Lab File ID**	: VE250312A01

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG2039699-2	297682	5.77	223126	9.28	121415	12.03
Upper Limit	595364	6.27	446252	9.78	242830	12.53
Lower Limit	148841	5.27	111563	8.78	60708	11.53
Sample ID						
WG2039699-3 LCS	297682	5.77	223126	9.28	121415	12.03
WG2039699-4 LCSD	293639	5.77	220579	9.28	122323	12.03
WG2039699-5 BLANK	274730	5.77	205795	9.28	112538	12.03
MW-4S	263056	5.77	195120	9.28	106091	12.03
MW-4D2	256416	5.77	195651	9.28	107177	12.03
MW-12S	263477	5.77	192879	9.28	105883	12.03
MW-12D	260615	5.76	191599	9.28	107187	12.03
SCDOH_DR	260860	5.77	194365	9.28	107181	12.03

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: VOA101	**Analysis Date**	: 03/13/25 08:22:00
Sample No	: WG2040184-2	**Lab File ID**	: V01250313A04

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG2040184-2	602809	5.90	429416	9.41	232552	12.14
Upper Limit	1205618	6.40	858832	9.91	465104	12.64
Lower Limit	301405	5.40	214708	8.91	116276	11.64
Sample ID						
WG2040184-3 LCS	602809	5.90	429416	9.41	232552	12.14
WG2040184-4 LCSD	621831	5.90	446910	9.41	242309	12.14
WG2040184-5 BLANK	595767	5.90	418996	9.41	204577	12.14
EQUIPMENT BLANK	536651	5.90	379841	9.41	183002	12.14
TRIP BLANK	504674	5.90	352554	9.42	170893	12.15

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

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

* Values outside of QC limits

Date Created: 03/15/23
Created By: Jason Hebert
File: PM14094-1
Page: 1

Volatile Organics - EPA 8260D (WATER)

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

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

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Volatile Organics - EPA 8260D (WATER)

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

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

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

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

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

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

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

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

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Volatiles Sample Data

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-01	**Date Collected**	: 03/06/25 10:30
Client ID	: MW-4S	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/12/25 14:44
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VE250312A14	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-01	**Date Collected**	: 03/06/25 10:30
Client ID	: MW-4S	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/12/25 14:44
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VE250312A14	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-01	**Date Collected**	: 03/06/25 10:30
Client ID	: MW-4S	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/12/25 14:44
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VE250312A14	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-02	**Date Collected**	: 03/06/25 10:24
Client ID	: MW-4D2	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/12/25 15:08
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VE250312A15	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-02	**Date Collected**	: 03/06/25 10:24
Client ID	: MW-4D2	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/12/25 15:08
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VE250312A15	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	8.0	5.0	1.5	
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-02	**Date Collected**	: 03/06/25 10:24
Client ID	: MW-4D2	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/12/25 15:08
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VE250312A15	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-03	**Date Collected**	: 03/06/25 09:13
Client ID	: MW-12S	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/12/25 15:33
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VE250312A16	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-03	**Date Collected**	: 03/06/25 09:13
Client ID	: MW-12S	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/12/25 15:33
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VE250312A16	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	1.7	5.0	1.5	J
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-03	**Date Collected**	: 03/06/25 09:13
Client ID	: MW-12S	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/12/25 15:33
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VE250312A16	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-04	**Date Collected**	: 03/06/25 08:46
Client ID	: MW-12D	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/12/25 15:57
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VE250312A17	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	3.3	2.5	0.70	
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	0.40	0.50	0.18	J
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	4.6	2.5	0.70	
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	3.2	0.50	0.17	

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-04	**Date Collected**	: 03/06/25 08:46
Client ID	: MW-12D	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/12/25 15:57
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VE250312A17	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	2.2	5.0	1.5	J
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-04	**Date Collected**	: 03/06/25 08:46
Client ID	: MW-12D	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/12/25 15:57
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VE250312A17	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-05	**Date Collected**	: 03/06/25 11:51
Client ID	: SCDOH_DR	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/12/25 16:22
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VE250312A18	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-05	**Date Collected**	: 03/06/25 11:51
Client ID	: SCDOH_DR	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/12/25 16:22
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VE250312A18	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-05	**Date Collected**	: 03/06/25 11:51
Client ID	: SCDOH_DR	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/12/25 16:22
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VE250312A18	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-06	**Date Collected**	: 03/06/25 12:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/13/25 11:54
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V01250313A12	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-06	**Date Collected**	: 03/06/25 12:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/13/25 11:54
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V01250313A12	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-06	**Date Collected**	: 03/06/25 12:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/13/25 11:54
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V01250313A12	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-07	**Date Collected**	: 03/06/25 00:00
Client ID	: TRIP BLANK	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/13/25 12:21
Sample Matrix	: Trip Blank (aqueous)	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V01250313A13	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-07	**Date Collected**	: 03/06/25 00:00
Client ID	: TRIP BLANK	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/13/25 12:21
Sample Matrix	: Trip Blank (aqueous)	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V01250313A13	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-07	**Date Collected**	: 03/06/25 00:00
Client ID	: TRIP BLANK	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/13/25 12:21
Sample Matrix	: Trip Blank (aqueous)	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V01250313A13	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2039699-5	**Date Collected**	: NA
Client ID	: WG2039699-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/12/25 11:04
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VE250312A05	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2039699-5	**Date Collected**	: NA
Client ID	: WG2039699-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/12/25 11:04
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VE250312A05	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2039699-5	**Date Collected**	: NA
Client ID	: WG2039699-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/12/25 11:04
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VE250312A05	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2040184-5	**Date Collected**	: NA
Client ID	: WG2040184-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/13/25 10:08
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V01250313A08	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2040184-5	**Date Collected**	: NA
Client ID	: WG2040184-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/13/25 10:08
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V01250313A08	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2040184-5	**Date Collected**	: NA
Client ID	: WG2040184-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/13/25 10:08
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: V01250313A08	**Instrument ID**	: VOA101
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A14.D
Acq On : 12 Mar 2025 2:44 pm
Operator : ELAINE:MJV
Sample : L2512607-01,31,10,10,,A
Misc : WG2039699,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 13 06:13:07 2025
Quant Method : K:\Elaine\2025\250312A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250312A\VE250312A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.773	96	263056	10.000	ug/L	0.00
Standard Area 1 = 297682			Recovery = 88.37%			
63) Chlorobenzene-d5	9.280	117	195120	10.000	ug/L	0.00
Standard Area 1 = 223126			Recovery = 87.45%			
84) 1,4-Dichlorobenzene-d4	12.032	152	106091	10.000	ug/L	0.00
Standard Area 1 = 121415			Recovery = 87.38%			
System Monitoring Compounds						
39) Dibromofluoromethane	4.973	113	76333	10.633	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.33%			
47) 1,2-Dichloroethane-d4	5.487	65	80757	10.627	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.27%			
64) Toluene-d8	7.447	98	259147	10.038	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.38%			
88) 4-Bromofluorobenzene	10.799	95	93804	11.048	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.48%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.390	85	274	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.168	94	40	N.D.		
6) Chloroethane	2.115	64	178	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	2.839	96	47	N.D.		
11) Carbon disulfide	2.787	76	88	N.D.		
12) Freon-113	2.984	101	50	N.D.		
15) Methylene chloride	3.226	84	46	N.D.		
17) Acetone	3.349	43	2673M3	2.540	ug/L	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.458	43	85	N.D.		
21) Methyl tert-butyl ether	3.520	73	41	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	0.000		0	N.D.		
33) Bromochloromethane	4.587	128	44	N.D.		
34) Cyclohexane	0.000		0	N.D.		
35) Chloroform	4.798	83	3077	0.290	ug/L #	91
37) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A14.D
Acq On : 12 Mar 2025 2:44 pm
Operator : ELAINE:MJV
Sample : L2512607-01,31,10,10,,A
Misc : WG2039699,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 13 06:13:07 2025
Quant Method : K:\Elaine\2025\250312A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250312A\VE250312A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
40) 1,1,1-Trichloroethane	0.000		0	N.D.	
42) 2-Butanone	5.092	43	1816M2	1.238 ug/L	
45) Benzene	5.338	78	41	N.D.	
48) 1,2-Dichloroethane	5.663	62	47	N.D.	
51) Methyl cyclohexane	5.990	83	60	N.D.	
52) Trichloroethene	0.000		0	N.D.	
55) 1,2-Dichloropropane	0.000		0	N.D.	
58) Bromodichloromethane	6.682	83	52	N.D.	
62) cis-1,3-Dichloropropene	0.000		0	N.D.	
65) Toluene	7.502	92	215	N.D.	
66) 4-Methyl-2-pentanone	0.000		0	N.D.	
67) Tetrachloroethene	7.990	166	47	N.D.	
69) trans-1,3-Dichloropropene	8.117	75	48	N.D.	
72) 1,1,2-Trichloroethane	8.085	83	41	N.D.	
73) Chlorodibromomethane	8.538	129	42	N.D.	
75) 1,2-Dibromoethane	0.000		0	N.D.	
77) 2-Hexanone	8.918	43	43	N.D.	
78) Chlorobenzene	9.289	112	53	N.D.	
79) Ethylbenzene	9.334	91	61	N.D.	
81) p/m Xylene	9.511	106	45	N.D.	
82) o Xylene	10.045	106	43	N.D.	
83) Styrene	0.000		0	N.D.	
85) Bromoform	0.000		0	N.D.	d
87) Isopropylbenzene	10.473	105	86	N.D.	
92) 1,1,2,2-Tetrachloroethane	11.015	83	84	N.D.	
105) 1,3-Dichlorobenzene	11.949	146	43	N.D.	
106) 1,4-Dichlorobenzene	12.068	146	48	N.D.	
109) 1,2-Dichlorobenzene	12.469	146	40	N.D.	
111) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	d
114) 1,2,4-Trichlorobenzene	13.892	180	40	N.D.	
116) 1,2,3-Trichlorobenzene	0.000		0	N.D.	

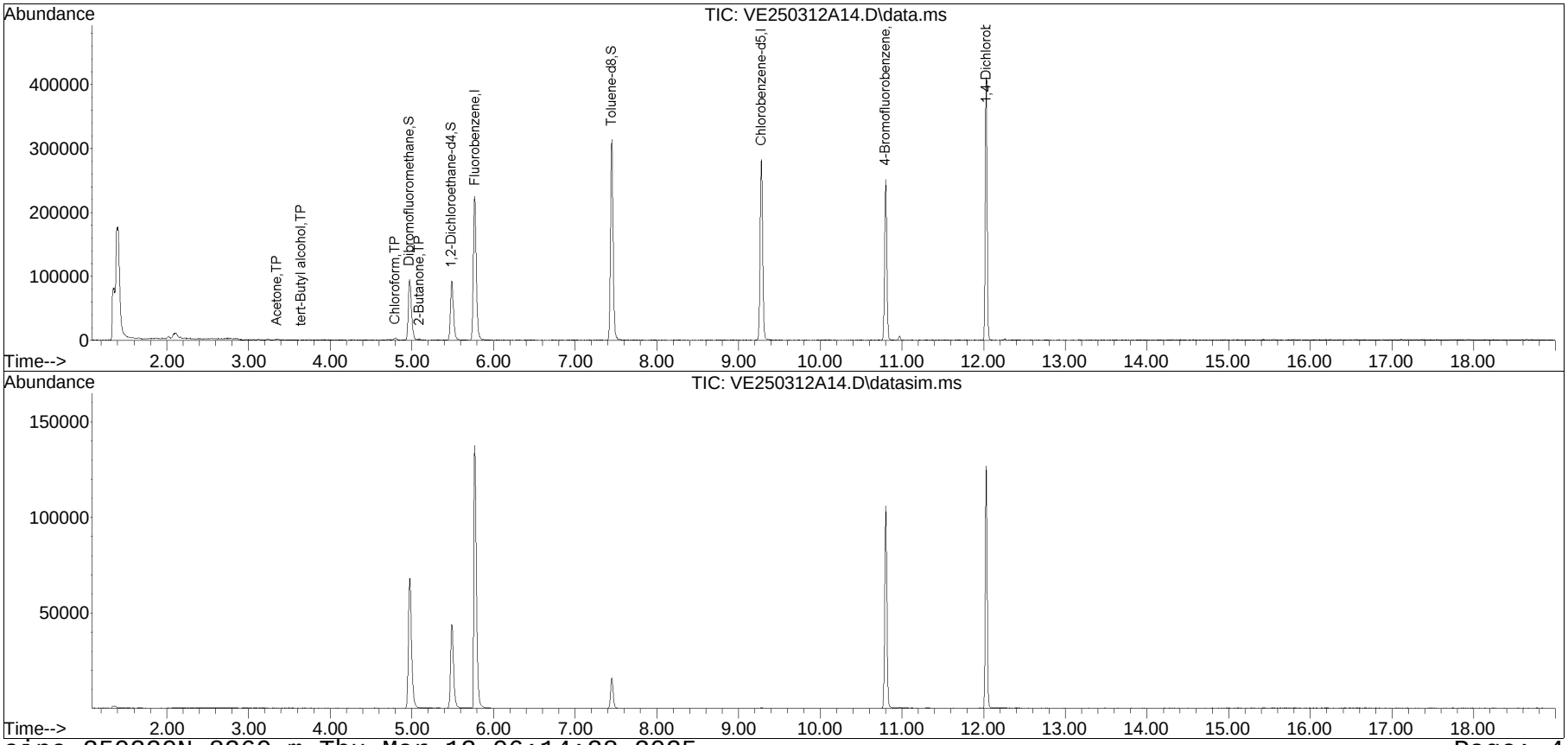
(#) = qualifier out of range (m) = manual integration (+) = signals summed

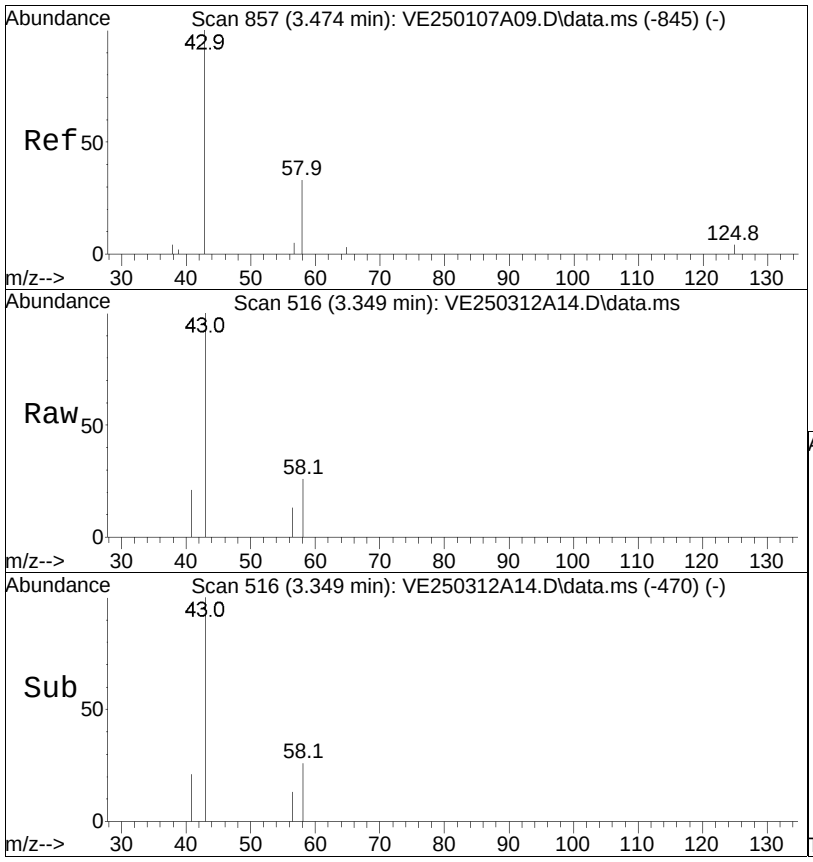
Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A14.D
Acq On : 12 Mar 2025 2:44 pm
Operator : ELAINE:MJV
Sample : L2512607-01,31,10,10,,A
Misc : WG2039699,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 13 06:13:07 2025
Quant Method : K:\Elaine\2025\250312A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

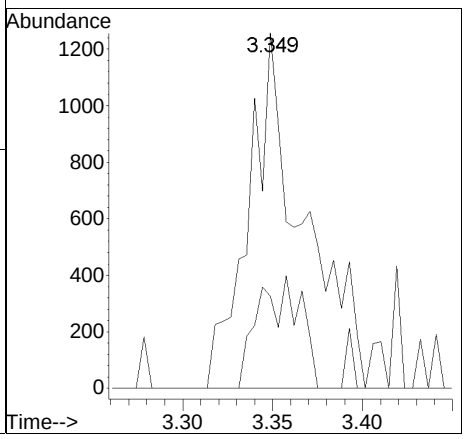


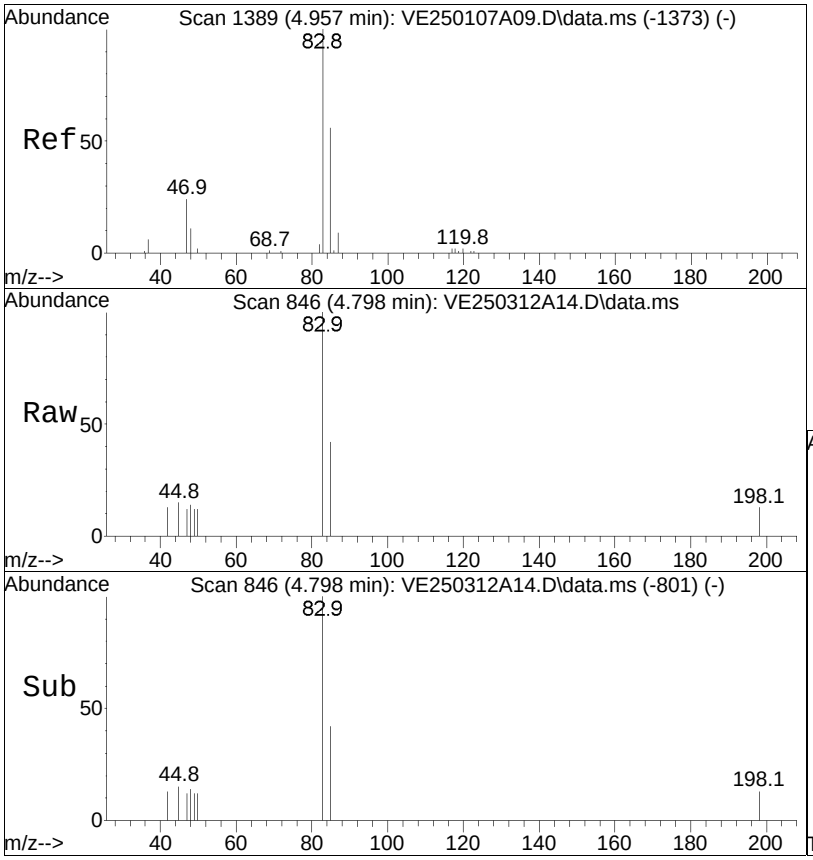


#17
Acetone
Concen: 2.54 ug/L M3
RT: 3.349 min Scan# 516
Delta R.T. 0.000 min
Lab File: VE250312A14.D
Acq: 12 Mar 2025 2:44 pm

Tgt Ion: 43 Resp: 2673

Ion	Ratio	Lower	Upper
43	100		
58	2.1	26.6	40.0#

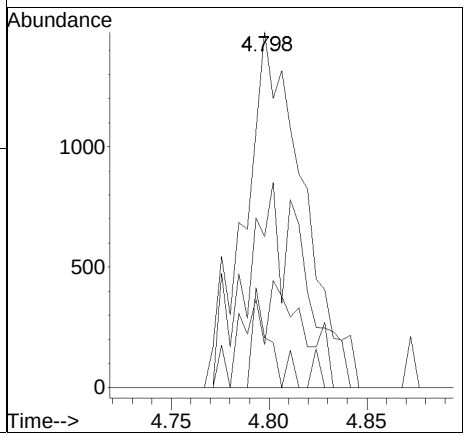


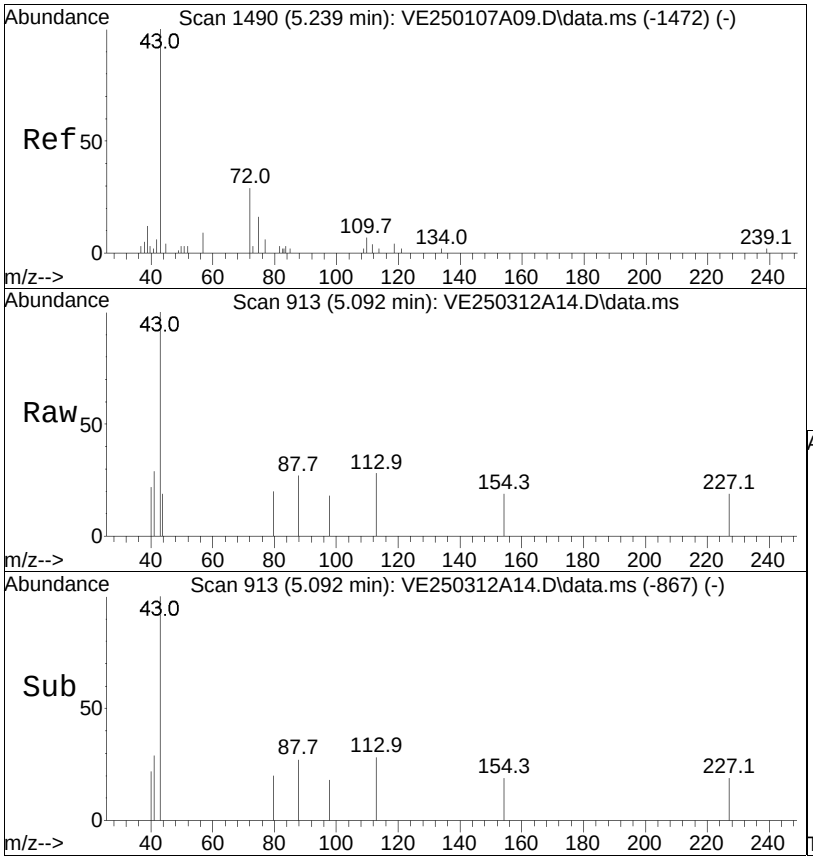


#35
Chloroform
Concen: 0.29 ug/L
RT: 4.798 min Scan# 846
Delta R.T. -0.004 min
Lab File: VE250312A14.D
Acq: 12 Mar 2025 2:44 pm

Tgt Ion: 83 Resp: 3077

Ion	Ratio	Lower	Upper
83	100		
85	57.5	42.5	88.3
47	26.8	16.8	35.0
48	8.3	9.2	19.2#

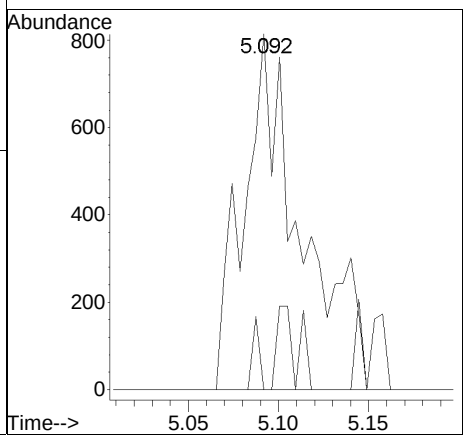




#42
2-Butanone
Concen: 1.24 ug/L M2
RT: 5.092 min Scan# 913
Delta R.T. 0.003 min
Lab File: VE250312A14.D
Acq: 12 Mar 2025 2:44 pm

Tgt Ion: 43 Resp: 1816

Ion	Ratio	Lower	Upper
43	100		
72	0.0	44.9	67.3#

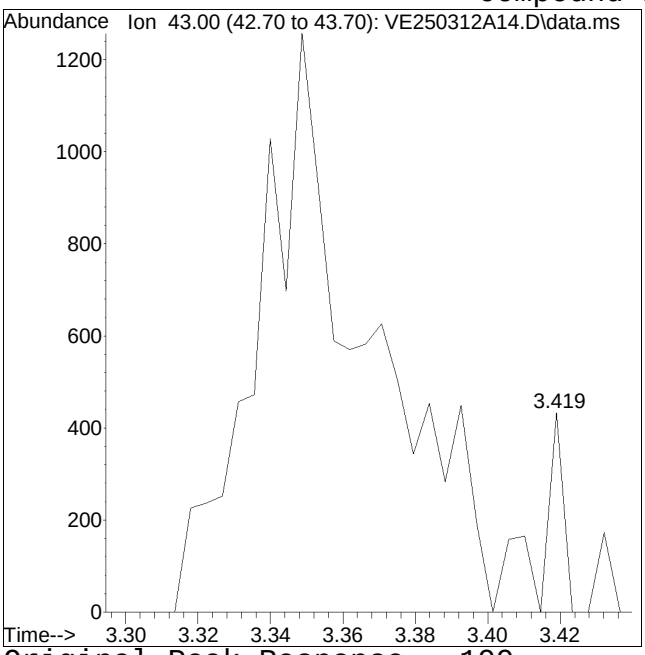


Manual Integration Report

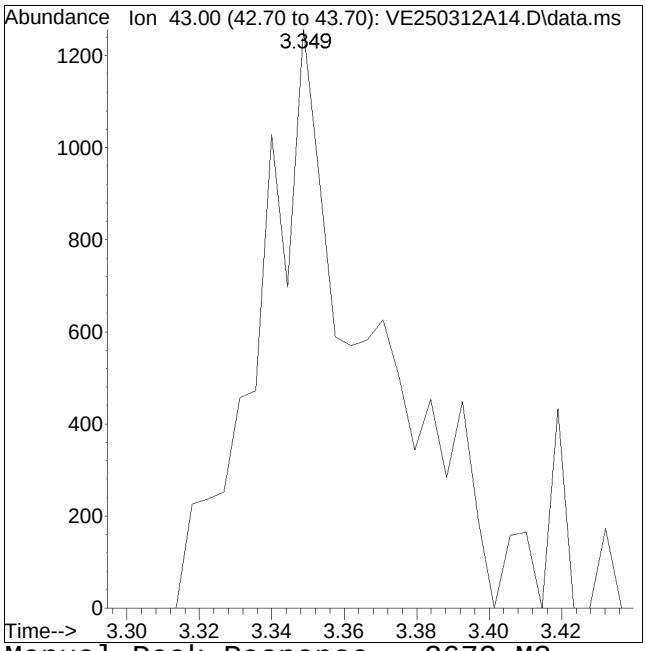
Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A14.D
Date Inj'd : 3/12/2025 2:44 pm
Sample : L2512607-01,31,10,10,,A

QMethod : Elaine_250220N_8260.m
Operator : ELAINE:MJV
Instrument : Elaine
Quant Date : 3/13/2025 5:12 am

Compound #17: Acetone



Original Peak Response = 199



Manual Peak Response = 2673 M3

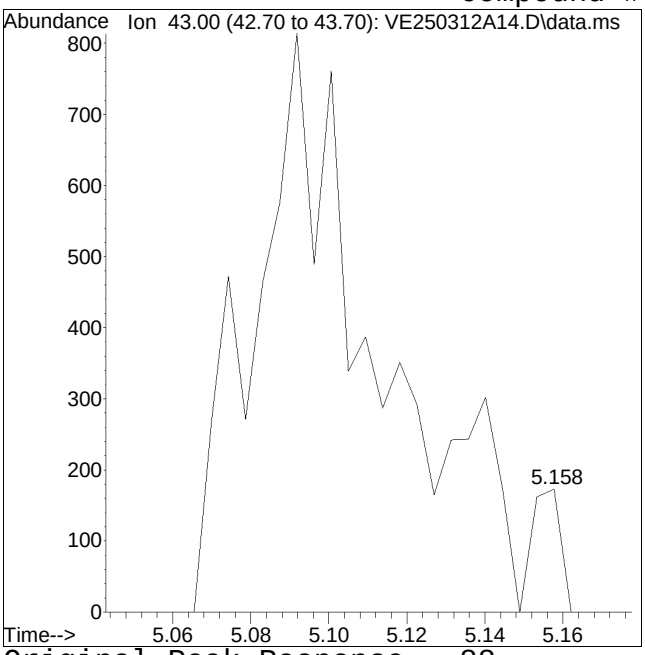
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

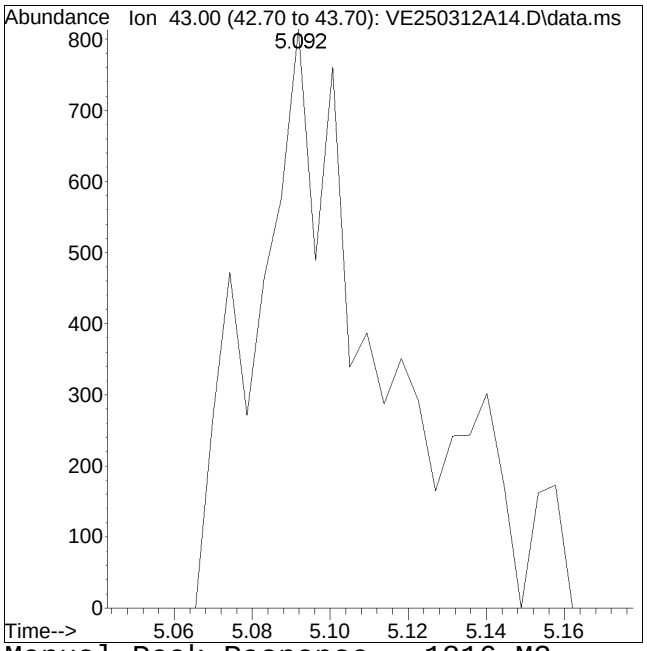
Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A14.D
Date Inj'd : 3/12/2025 2:44 pm
Sample : L2512607-01,31,10,10,,A

QMethod : Elaine_250220N_8260.m
Operator : ELAINE:MJV
Instrument : Elaine
Quant Date : 3/13/2025 5:12 am

Compound #42: 2-Butanone



Original Peak Response = 88



Manual Peak Response = 1816 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A15.D
Acq On : 12 Mar 2025 3:08 pm
Operator : ELAINE:MJV
Sample : L2512607-02,31,10,10,,A
Misc : WG2039699,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 13 06:13:27 2025
Quant Method : K:\Elaine\2025\250312A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250312A\VE250312A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.768	96	256416	10.000 ug/L	0.00
Standard Area 1 = 297682			Recovery =	86.14%	
63) Chlorobenzene-d5	9.280	117	195651	10.000 ug/L	0.00
Standard Area 1 = 223126			Recovery =	87.69%	
84) 1,4-Dichlorobenzene-d4	12.032	152	107177	10.000 ug/L	0.00
Standard Area 1 = 121415			Recovery =	88.27%	
System Monitoring Compounds					
39) Dibromofluoromethane	4.978	113	75295	10.760 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	107.60%	
47) 1,2-Dichloroethane-d4	5.487	65	79291	10.704 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	107.04%	
64) Toluene-d8	7.447	98	253443	9.791 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.91%	
88) 4-Bromofluorobenzene	10.799	95	91228	10.636 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	106.36%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D. d	
3) Chloromethane	1.781	50	40	N.D.	
4) Vinyl chloride	1.878	62	43	N.D.	
5) Bromomethane	2.067	94	198	N.D.	
6) Chloroethane	2.119	64	45	N.D.	
7) Trichlorofluoromethane	0.000		0	N.D.	
10) 1,1-Dichloroethene	2.677	96	59	N.D.	
11) Carbon disulfide	2.804	76	342	N.D.	
12) Freon-113	0.000		0	N.D.	
15) Methylene chloride	3.120	84	40	N.D.	
17) Acetone	3.349	43	8194	7.988 ug/L #	88
18) trans-1,2-Dichloroethene	3.463	96	49	N.D.	
19) Methyl acetate	0.000		0	N.D. d	
21) Methyl tert-butyl ether	3.546	73	252	N.D.	
25) 1,1-Dichloroethane	3.981	63	51	N.D.	
30) cis-1,2-Dichloroethene	4.403	96	42	N.D.	
33) Bromochloromethane	0.000		0	N.D.	
34) Cyclohexane	4.785	56	42	N.D.	
35) Chloroform	4.793	83	5947	0.575 ug/L #	97
37) Carbon tetrachloride	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A15.D
Acq On : 12 Mar 2025 3:08 pm
Operator : ELAINE:MJV
Sample : L2512607-02,31,10,10,,A
Misc : WG2039699,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 13 06:13:27 2025
Quant Method : K:\Elaine\2025\250312A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250312A\VE250312A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,1,1-Trichloroethane	4.929	97	40	N.D.		
42) 2-Butanone	5.088	43	2060	1.441	ug/L #	26
45) Benzene	5.417	78	46	N.D.		
48) 1,2-Dichloroethane	0.000		0	N.D.		
51) Methyl cyclohexane	5.818	83	42	N.D.		
52) Trichloroethene	0.000		0	N.D.		
55) 1,2-Dichloropropane	6.479	63	42	N.D.		
58) Bromodichloromethane	6.456	83	42	N.D.		
62) cis-1,3-Dichloropropene	7.253	75	55	N.D.		
65) Toluene	7.497	92	285	N.D.		
66) 4-Methyl-2-pentanone	7.941	58	48	N.D.		
67) Tetrachloroethene	7.950	166	354	N.D.		
69) trans-1,3-Dichloropropene	7.832	75	64	N.D.		
72) 1,1,2-Trichloroethane	8.126	83	52	N.D.		
73) Chlorodibromomethane	8.434	129	43	N.D.		
75) 1,2-Dibromoethane	8.606	107	93	N.D.		
77) 2-Hexanone	8.941	43	43	N.D.		
78) Chlorobenzene	0.000		0	N.D.		
79) Ethylbenzene	9.285	91	235	N.D.		
81) p/m Xylene	9.574	106	51	N.D.		
82) o Xylene	0.000		0	N.D.		
83) Styrene	10.235	104	41	N.D.		
85) Bromoform	0.000		0	N.D.		
87) Isopropylbenzene	10.460	105	53	N.D.		
92) 1,1,2,2-Tetrachloroethane	11.160	83	41	N.D.		
105) 1,3-Dichlorobenzene	11.962	146	74	N.D.		
106) 1,4-Dichlorobenzene	11.962	146	74	N.D.		
109) 1,2-Dichlorobenzene	12.477	146	42	N.D.		
111) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
114) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
116) 1,2,3-Trichlorobenzene	0.000		0	N.D.		

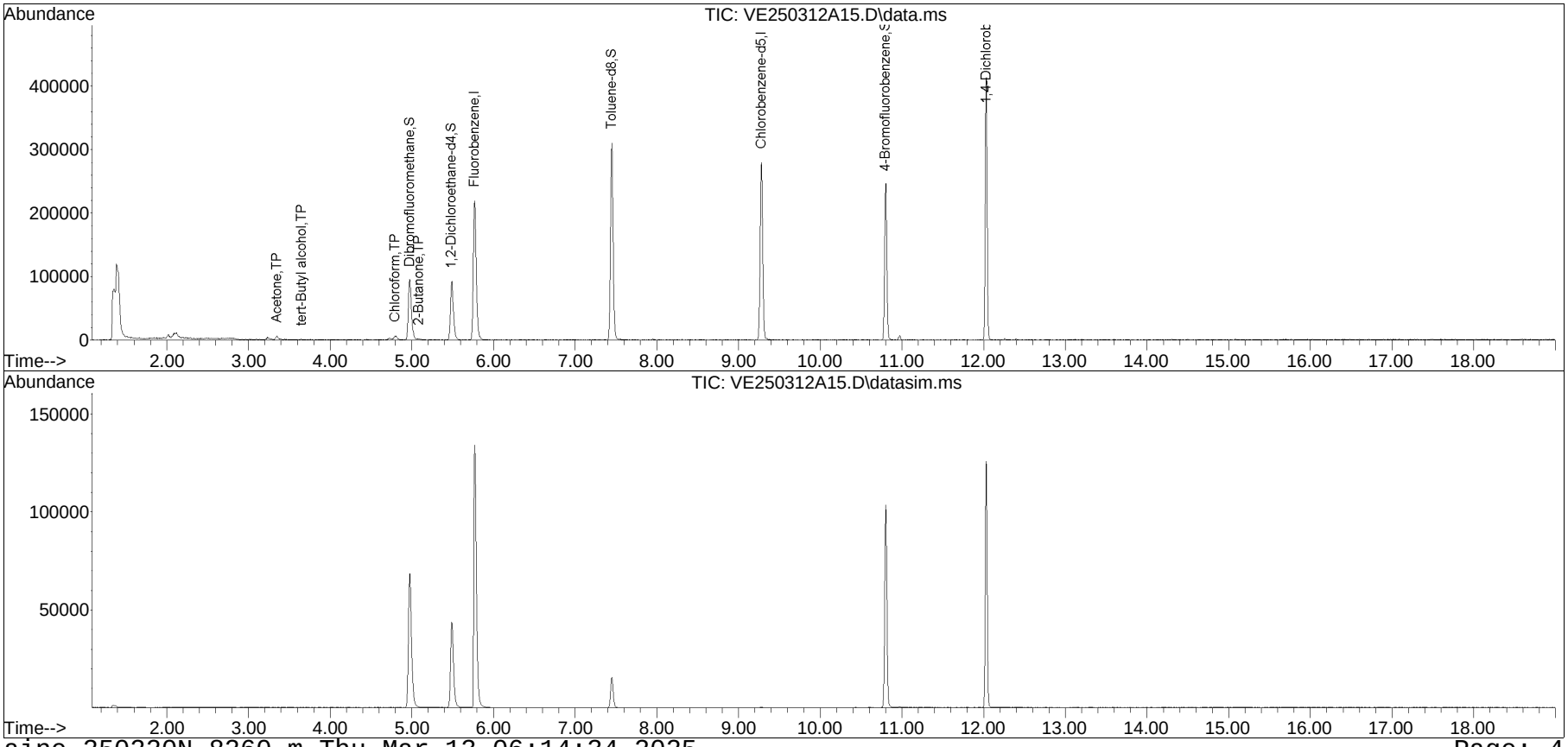
(#) = qualifier out of range (m) = manual integration (+) = signals summed

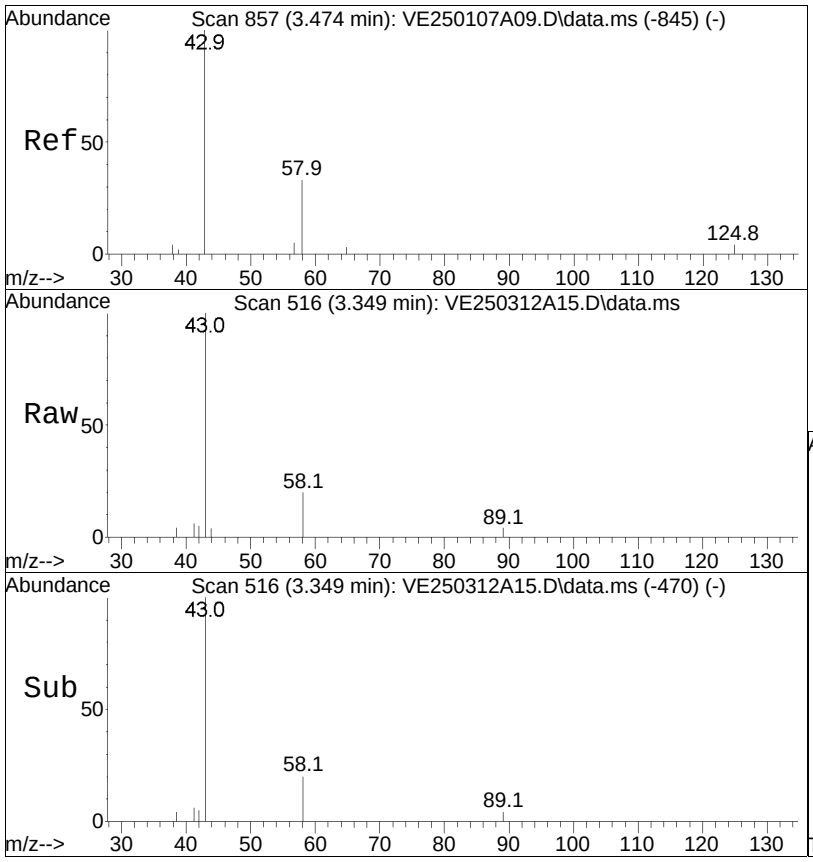
Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A15.D
Acq On : 12 Mar 2025 3:08 pm
Operator : ELAINE:MJV
Sample : L2512607-02,31,10,10,,A
Misc : WG2039699,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 13 06:13:27 2025
Quant Method : K:\Elaine\2025\250312A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

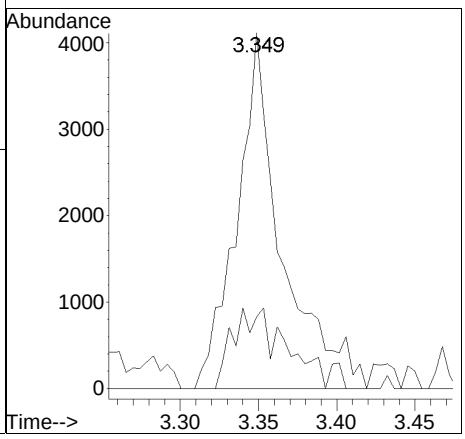


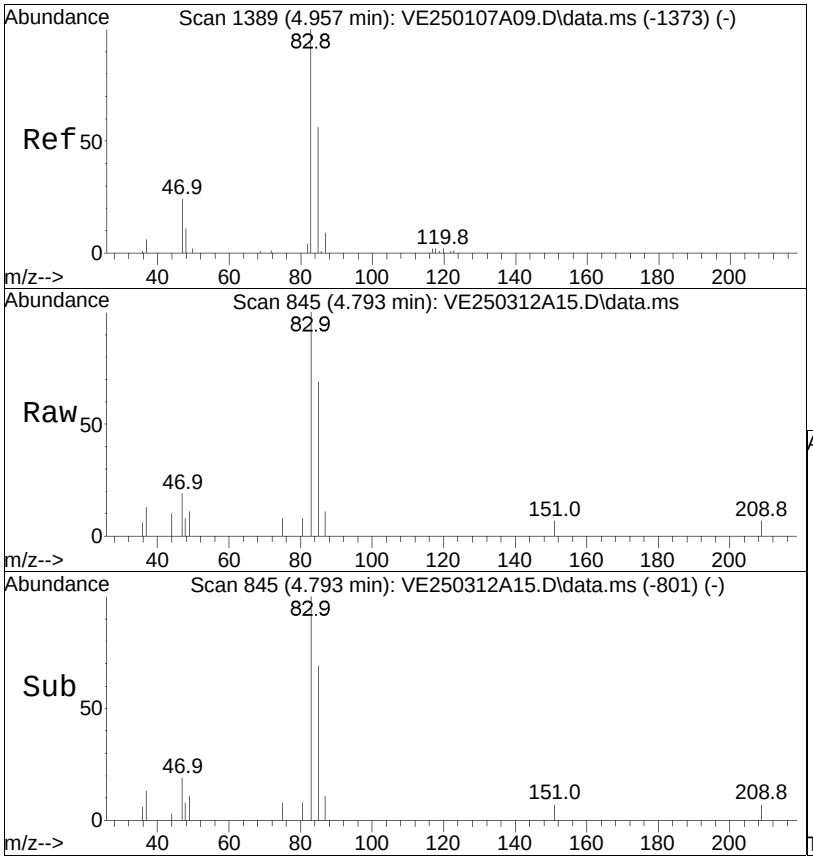


#17
Acetone
Concen: 7.99 ug/L
RT: 3.349 min Scan# 516
Delta R.T. 0.000 min
Lab File: VE250312A15.D
Acq: 12 Mar 2025 3:08 pm

Tgt Ion: 43 Resp: 8194

Ion	Ratio	Lower	Upper
43	100		
58	26.3	26.6	40.0#

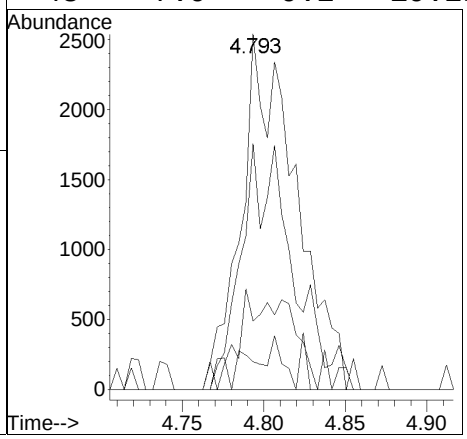


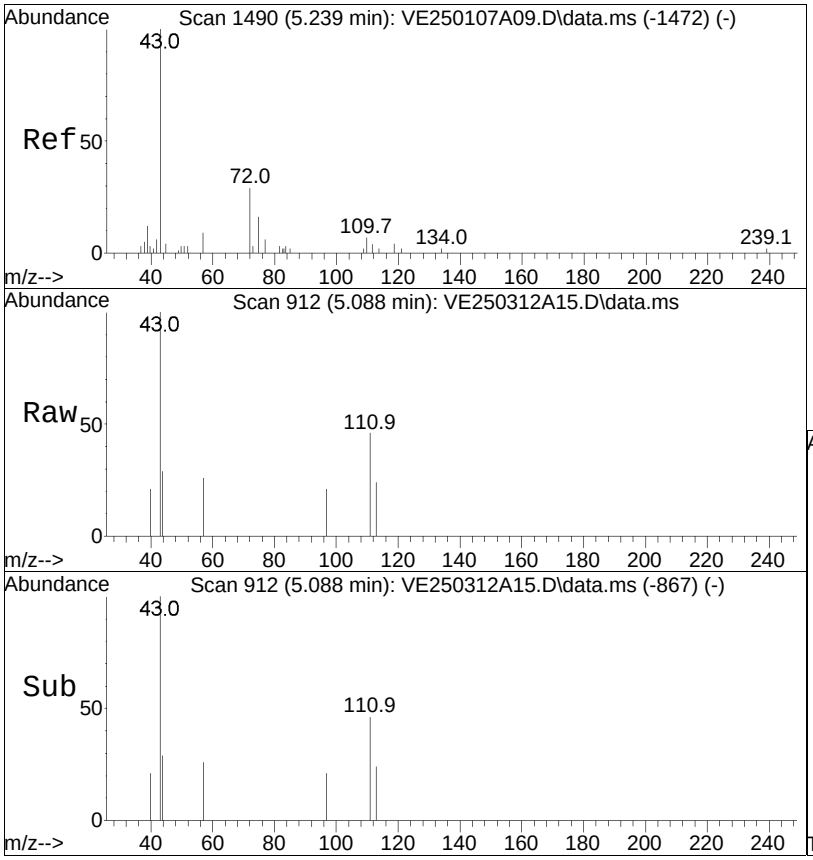


#35
Chloroform
Concen: 0.58 ug/L
RT: 4.793 min Scan# 845
Delta R.T. -0.008 min
Lab File: VE250312A15.D
Acq: 12 Mar 2025 3:08 pm

Tgt Ion: 83 Resp: 5947

Ion	Ratio	Lower	Upper
83	100		
85	64.1	42.5	88.3
47	26.5	16.8	35.0
48	7.9	9.2	19.2#

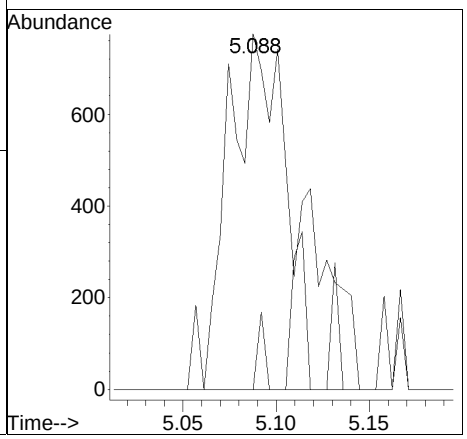




#42
2-Butanone
Concen: 1.44 ug/L
RT: 5.088 min Scan# 912
Delta R.T. -0.001 min
Lab File: VE250312A15.D
Acq: 12 Mar 2025 3:08 pm

Tgt Ion: 43 Resp: 2060

Ion	Ratio	Lower	Upper
43	100		
72	2.2	44.9	67.3#



Manual Integration Report

Data Path	: K:\Elaine\2025\250312A\	QMethod	: Elaine_250220N_8260.m
Data File	: VE250312A15.D	Operator	: ELAINE:MJV
Date Inj'd	: 3/12/2025 3:08 pm	Instrument	: Elaine
Sample	: L2512607-02,31,10,10,,A	Quant Date	: 3/13/2025 5:12 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A16.D
Acq On : 12 Mar 2025 3:33 pm
Operator : ELAINE:MJV
Sample : L2512607-03,31,10,10,,A
Misc : WG2039699,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 13 06:13:35 2025
Quant Method : K:\Elaine\2025\250312A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250312A\VE250312A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.768	96	263477	10.000 ug/L	0.00
Standard Area 1 = 297682			Recovery = 88.51%		
63) Chlorobenzene-d5	9.280	117	192879	10.000 ug/L	0.00
Standard Area 1 = 223126			Recovery = 86.44%		
84) 1,4-Dichlorobenzene-d4	12.032	152	105883	10.000 ug/L	0.00
Standard Area 1 = 121415			Recovery = 87.21%		
System Monitoring Compounds					
39) Dibromofluoromethane	4.982	113	75728	10.532 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.32%		
47) 1,2-Dichloroethane-d4	5.487	65	81497	10.707 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.07%		
64) Toluene-d8	7.447	98	257171	10.077 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.77%		
88) 4-Bromofluorobenzene	10.799	95	93654	11.052 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.52%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.395	85	177	N.D.	
3) Chloromethane	1.549	50	40	N.D.	
4) Vinyl chloride	0.000		0	N.D.	
5) Bromomethane	2.119	94	45	N.D.	
6) Chloroethane	2.146	64	53	N.D.	
7) Trichlorofluoromethane	0.000		0	N.D.	
10) 1,1-Dichloroethene	2.730	96	70	N.D.	
11) Carbon disulfide	2.800	76	318	N.D.	
12) Freon-113	2.813	101	49	N.D.	
15) Methylene chloride	0.000		0	N.D.	
17) Acetone	3.353	43	1781	1.690 ug/L #	47
18) trans-1,2-Dichloroethene	0.000		0	N.D. d	
19) Methyl acetate	3.458	43	81	N.D.	
21) Methyl tert-butyl ether	3.546	73	56	N.D.	
25) 1,1-Dichloroethane	0.000		0	N.D.	
30) cis-1,2-Dichloroethene	4.525	96	42	N.D.	
33) Bromochloromethane	0.000		0	N.D.	
34) Cyclohexane	0.000		0	N.D.	
35) Chloroform	4.784	83	431	N.D.	
37) Carbon tetrachloride	4.820	117	41	N.D.	

Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A16.D
Acq On : 12 Mar 2025 3:33 pm
Operator : ELAINE:MJV
Sample : L2512607-03,31,10,10,,A
Misc : WG2039699,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 13 06:13:35 2025
Quant Method : K:\Elaine\2025\250312A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250312A\VE250312A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,1,1-Trichloroethane	4.837	97	51	N.D.		
42) 2-Butanone	5.092	43	1186	0.807	ug/L #	61
45) Benzene	5.364	78	57	N.D.		
48) 1,2-Dichloroethane	5.702	62	44	N.D.		
51) Methyl cyclohexane	5.931	83	43	N.D.		
52) Trichloroethene	0.000		0	N.D.		
55) 1,2-Dichloropropane	6.320	63	42	N.D.		
58) Bromodichloromethane	0.000		0	N.D.		
62) cis-1,3-Dichloropropene	7.176	75	45	N.D.		
65) Toluene	7.506	92	65	N.D.		
66) 4-Methyl-2-pentanone	7.968	58	53	N.D.		
67) Tetrachloroethene	7.882	166	41	N.D.		
69) trans-1,3-Dichloropropene	7.949	75	52	N.D.		
72) 1,1,2-Trichloroethane	8.171	83	45	N.D.		
73) Chlorodibromomethane	0.000		0	N.D.		
75) 1,2-Dibromoethane	8.696	107	42	N.D.		
77) 2-Hexanone	8.778	43	57	N.D.		
78) Chlorobenzene	0.000		0	N.D.		
79) Ethylbenzene	9.289	91	330	N.D.		
81) p/m Xylene	9.479	106	55	N.D.		
82) o Xylene	10.235	106	41	N.D.		
83) Styrene	0.000		0	N.D.		
85) Bromoform	0.000		0	N.D.		
87) Isopropylbenzene	0.000		0	N.D.		
92) 1,1,2,2-Tetrachloroethane	11.067	83	41	N.D.		
105) 1,3-Dichlorobenzene	11.834	146	47	N.D.		
106) 1,4-Dichlorobenzene	0.000		0	N.D.		
109) 1,2-Dichlorobenzene	12.490	146	67	N.D.		
111) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
114) 1,2,4-Trichlorobenzene	14.006	180	53	N.D.		
116) 1,2,3-Trichlorobenzene	0.000		0	N.D.		

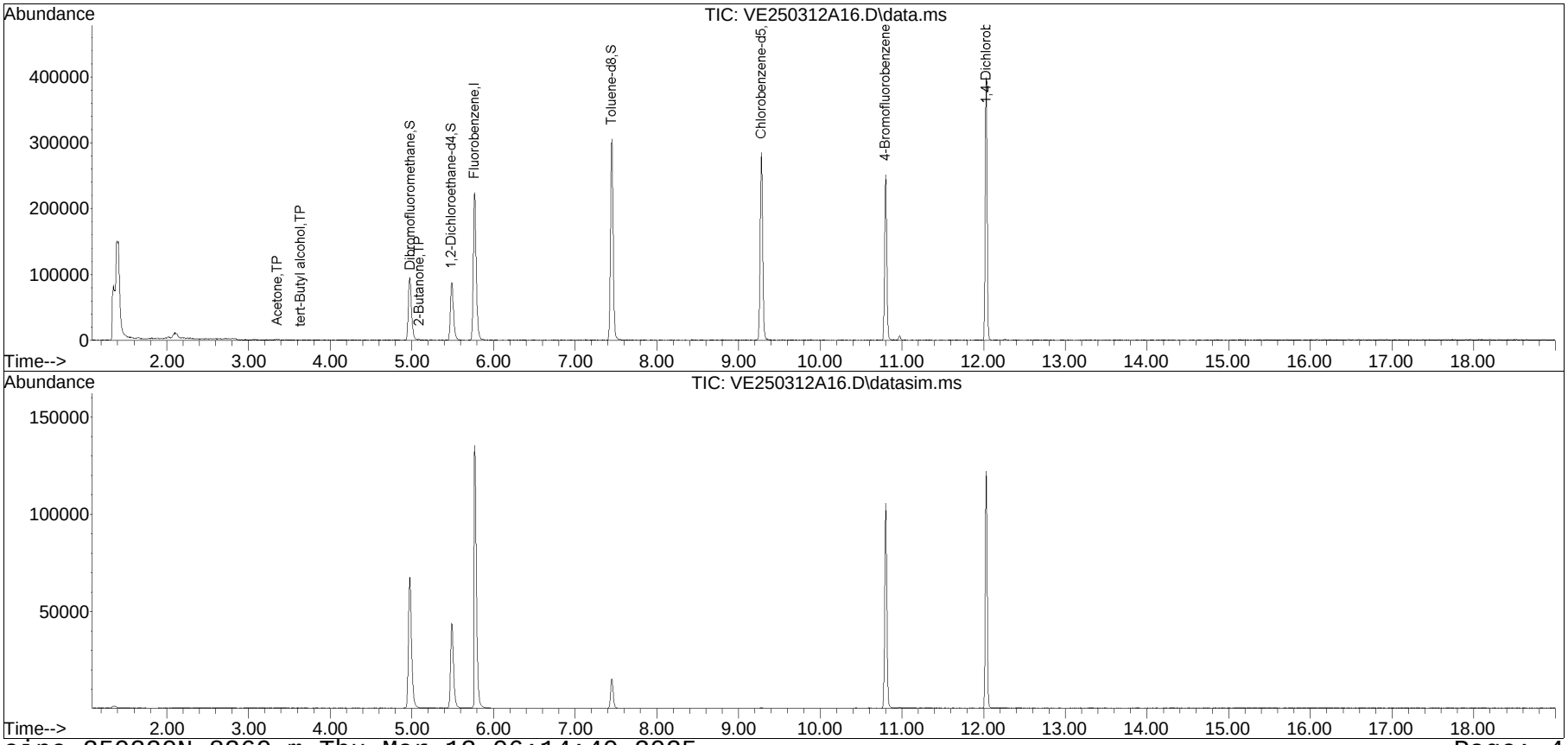
(#) = qualifier out of range (m) = manual integration (+) = signals summed

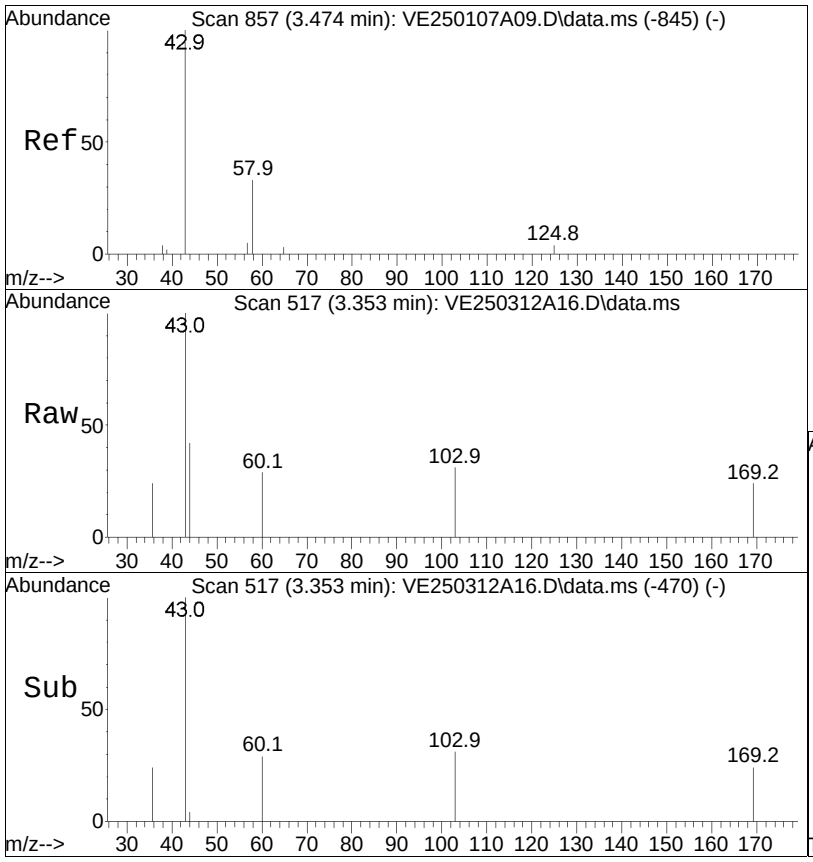
Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A16.D
Acq On : 12 Mar 2025 3:33 pm
Operator : ELAINE:MJV
Sample : L2512607-03,31,10,10,,A
Misc : WG2039699,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 13 06:13:35 2025
Quant Method : K:\Elaine\2025\250312A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

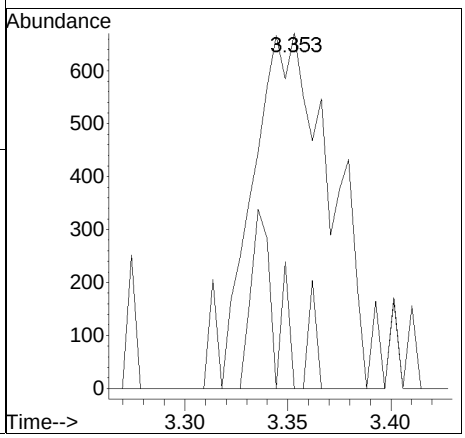


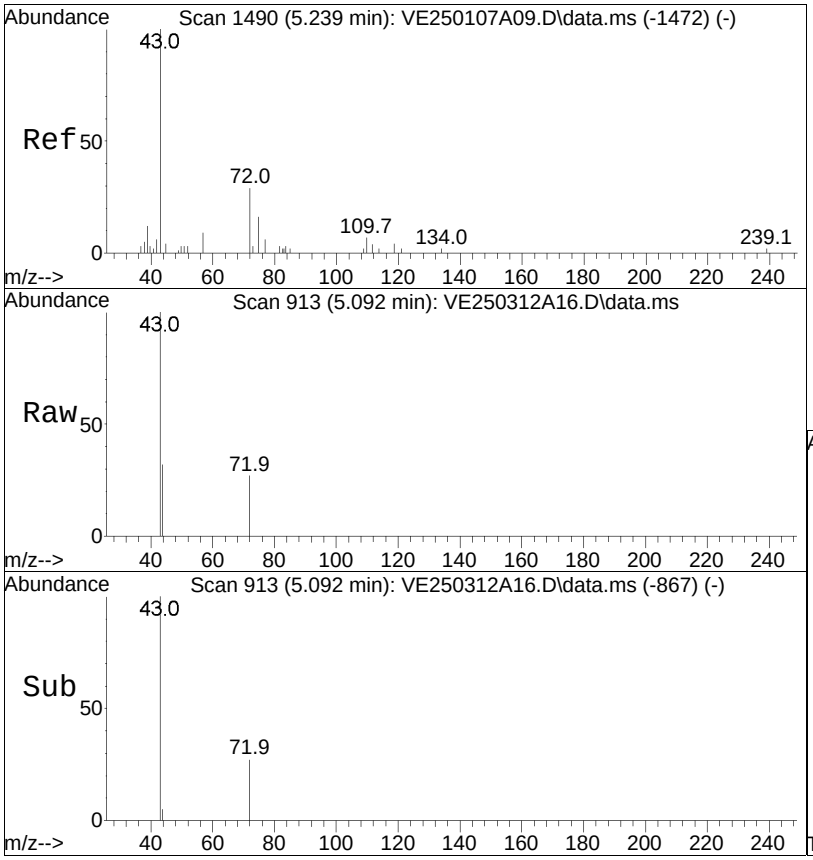


#17
Acetone
Concen: 1.69 ug/L
RT: 3.353 min Scan# 517
Delta R.T. 0.005 min
Lab File: VE250312A16.D
Acq: 12 Mar 2025 3:33 pm

Tgt Ion: 43 Resp: 1781

Ion	Ratio	Lower	Upper
43	100		
58	3.0	26.6	40.0#

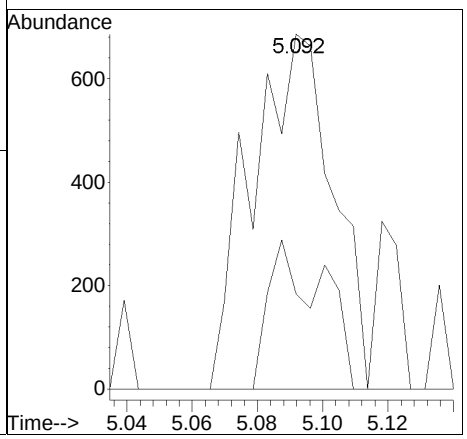




#42
2-Butanone
Concen: 0.81 ug/L
RT: 5.092 min Scan# 913
Delta R.T. 0.003 min
Lab File: VE250312A16.D
Acq: 12 Mar 2025 3:33 pm

Tgt Ion: 43 Resp: 1186

Ion	Ratio	Lower	Upper
43	100		
72	27.7	44.9	67.3#



Manual Integration Report

Data Path	: K:\Elaine\2025\250312A\	QMethod	: Elaine_250220N_8260.m
Data File	: VE250312A16.D	Operator	: ELAINE:MJV
Date Inj'd	: 3/12/2025 3:33 pm	Instrument	: Elaine
Sample	: L2512607-03,31,10,10,,A	Quant Date	: 3/13/2025 5:12 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A17.D
Acq On : 12 Mar 2025 3:57 pm
Operator : ELAINE:MJV
Sample : L2512607-04,31,10,10,,A
Misc : WG2039699,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 13 06:13:49 2025
Quant Method : K:\Elaine\2025\250312A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250312A\VE250312A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.764	96	260615	10.000	ug/L	-0.01
Standard Area 1 = 297682			Recovery = 87.55%			
63) Chlorobenzene-d5	9.280	117	191599	10.000	ug/L	0.00
Standard Area 1 = 223126			Recovery = 85.87%			
84) 1,4-Dichlorobenzene-d4	12.032	152	107187	10.000	ug/L	0.00
Standard Area 1 = 121415			Recovery = 88.28%			
System Monitoring Compounds						
39) Dibromofluoromethane	4.973	113	75045	10.551	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.51%			
47) 1,2-Dichloroethane-d4	5.487	65	80267	10.661	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.61%			
64) Toluene-d8	7.447	98	253358	9.994	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.94%			
88) 4-Bromofluorobenzene	10.799	95	91798	10.701	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.01%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.373	85	369	N.D.		
3) Chloromethane	1.711	50	51	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.062	94	107	N.D.		
6) Chloroethane	2.185	64	49	N.D.		
7) Trichlorofluoromethane	2.163	101	44	N.D.		
10) 1,1-Dichloroethene	2.769	96	23419	3.199	ug/L	84
11) Carbon disulfide	2.800	76	213	N.D.		
12) Freon-113	2.971	101	41	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	3.340	43	2329	2.234	ug/L #	76
18) trans-1,2-Dichloroethene	3.357	96	45	N.D.		
19) Methyl acetate	0.000		0	N.D.	d	
21) Methyl tert-butyl ether	3.551	73	66	N.D.		
25) 1,1-Dichloroethane	4.025	63	35024	3.302	ug/L	99
30) cis-1,2-Dichloroethene	4.547	96	49	N.D.		
33) Bromochloromethane	4.705	128	40	N.D.		
34) Cyclohexane	0.000		0	N.D.		
35) Chloroform	4.802	83	1885	0.179	ug/L #	38
37) Carbon tetrachloride	0.000		0	N.D.	d	

Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A17.D
Acq On : 12 Mar 2025 3:57 pm
Operator : ELAINE:MJV
Sample : L2512607-04,31,10,10,,A
Misc : WG2039699,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 13 06:13:49 2025
Quant Method : K:\Elaine\2025\250312A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250312A\VE250312A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
40) 1,1,1-Trichloroethane	4.991	97	39465	4.567 ug/L	97
42) 2-Butanone	5.083	43	2017	1.388 ug/L #	38
45) Benzene	5.364	78	52	N.D.	
48) 1,2-Dichloroethane	0.000		0	N.D.	
51) Methyl cyclohexane	5.913	83	53	N.D.	
52) Trichloroethene	5.954	95	371	N.D.	
55) 1,2-Dichloropropane	6.442	63	52	N.D.	
58) Bromodichloromethane	6.583	83	54	N.D.	
62) cis-1,3-Dichloropropene	7.121	75	42	N.D.	
65) Toluene	7.510	92	164	N.D.	
66) 4-Methyl-2-pentanone	0.000		0	N.D.	
67) Tetrachloroethene	7.954	166	2193	0.398 ug/L	84
69) trans-1,3-Dichloropropene	8.135	75	43	N.D.	
72) 1,1,2-Trichloroethane	8.194	83	52	N.D.	
73) Chlorodibromomethane	8.243	129	59	N.D.	
75) 1,2-Dibromoethane	8.664	107	78	N.D.	
77) 2-Hexanone	9.017	43	48	N.D.	
78) Chlorobenzene	9.416	112	51	N.D.	
79) Ethylbenzene	9.275	91	65	N.D.	
81) p/m Xylene	9.456	106	48	N.D.	
82) o Xylene	0.000		0	N.D.	
83) Styrene	10.153	104	82	N.D.	
85) Bromoform	0.000		0	N.D. d	
87) Isopropylbenzene	0.000		0	N.D.	
92) 1,1,2,2-Tetrachloroethane	10.953	83	49	N.D.	
105) 1,3-Dichlorobenzene	11.935	146	46	N.D.	
106) 1,4-Dichlorobenzene	12.032	146	90	N.D.	
109) 1,2-Dichlorobenzene	12.477	146	43	N.D.	
111) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	
114) 1,2,4-Trichlorobenzene	0.000		0	N.D.	
116) 1,2,3-Trichlorobenzene	0.000		0	N.D.	

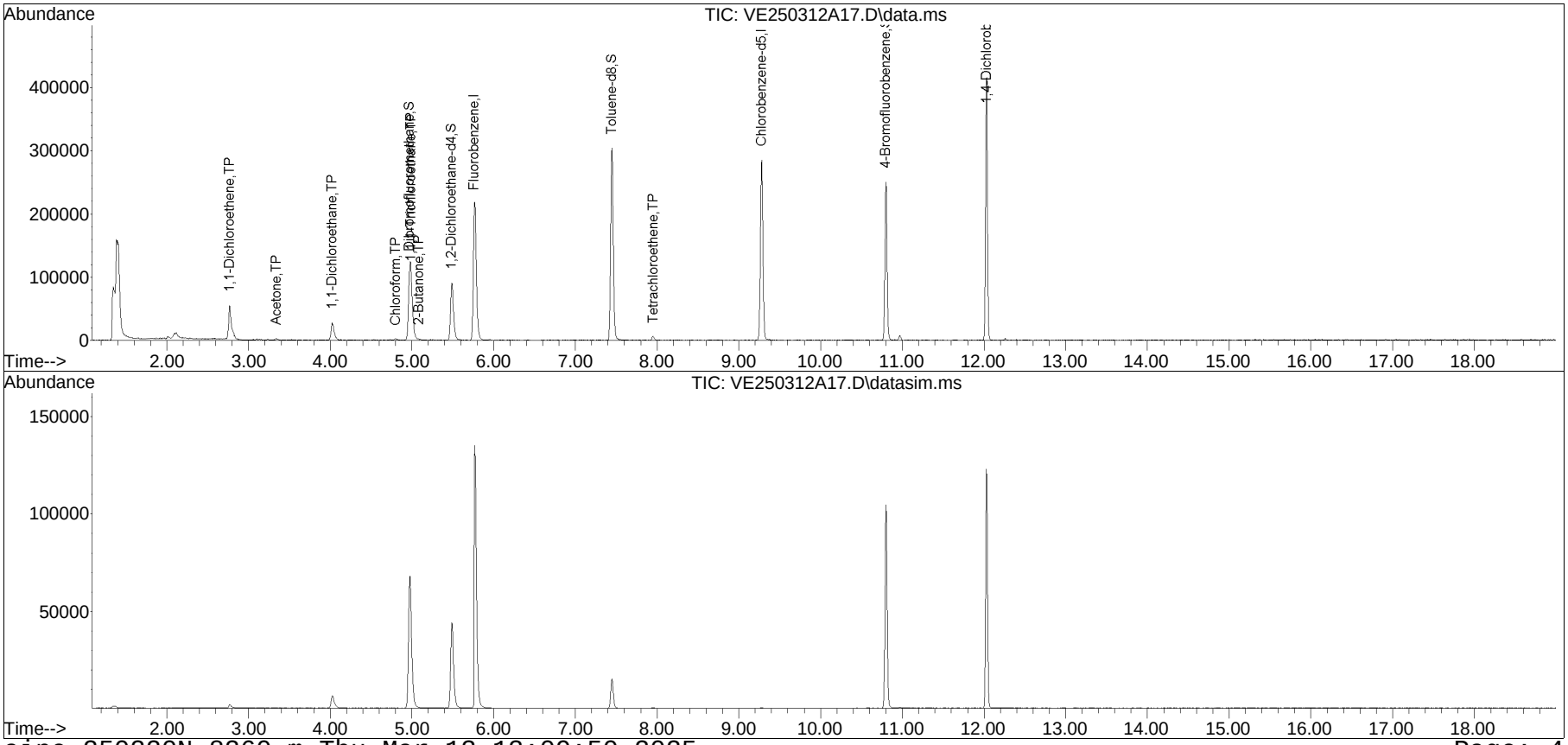
(#) = qualifier out of range (m) = manual integration (+) = signals summed

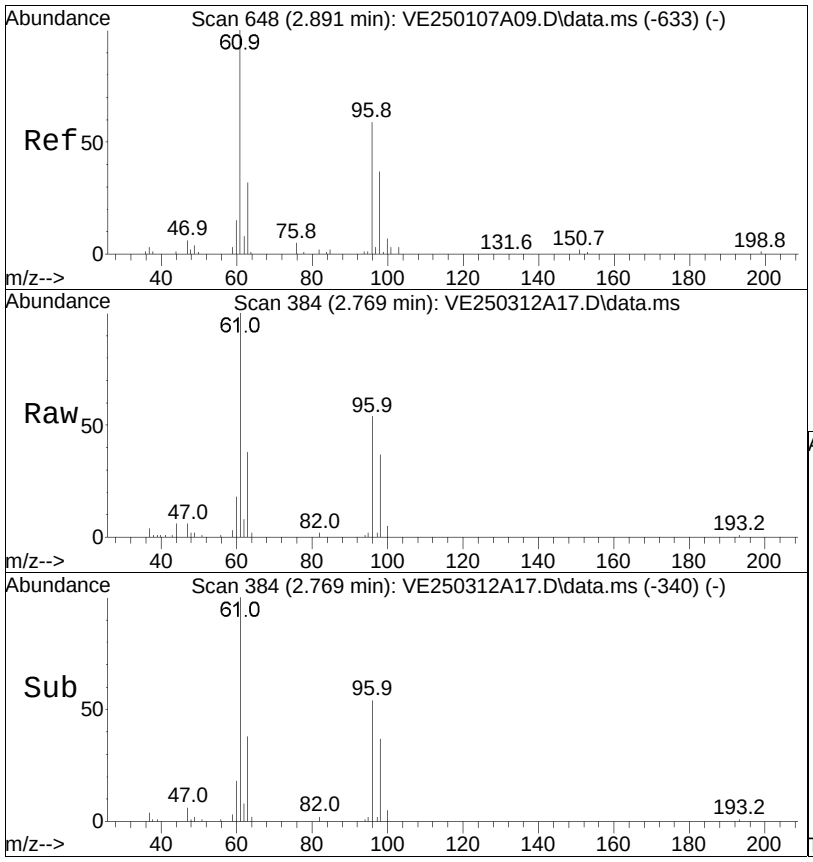
Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A17.D
Acq On : 12 Mar 2025 3:57 pm
Operator : ELAINE:MJV
Sample : L2512607-04,31,10,10,,A
Misc : WG2039699,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 13 06:13:49 2025
Quant Method : K:\Elaine\2025\250312A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

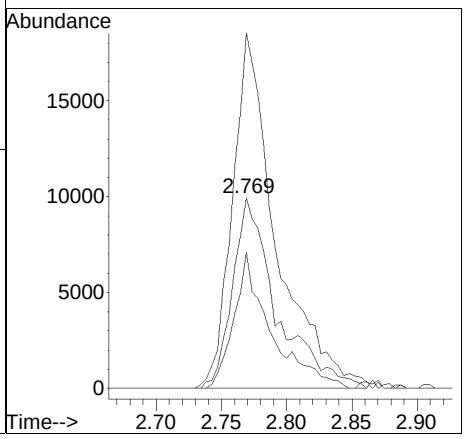


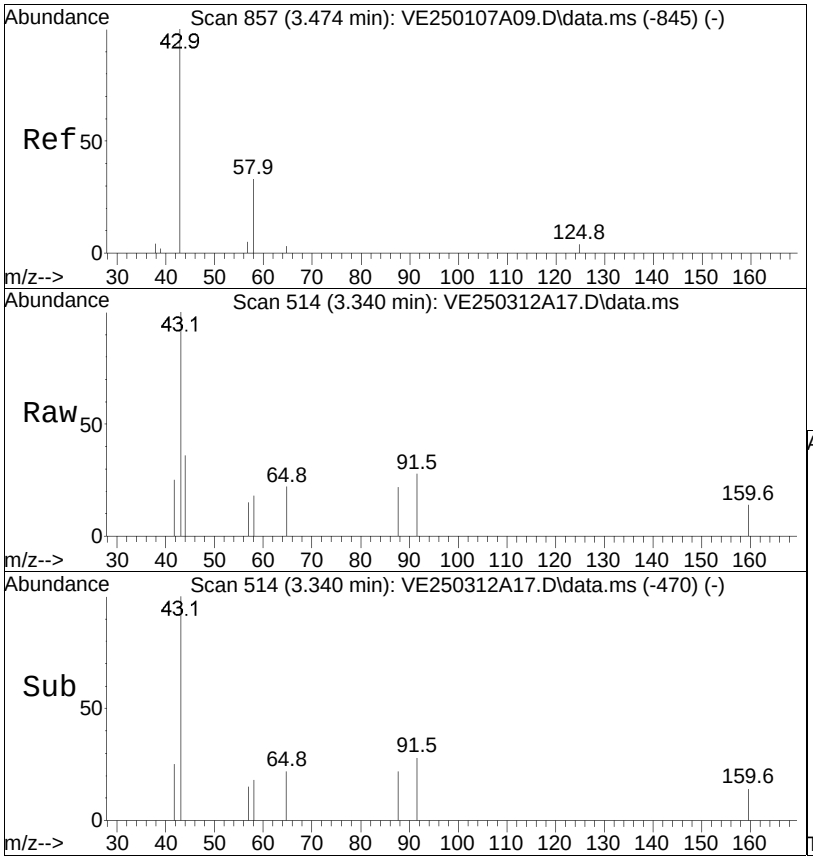


#10
1,1-Dichloroethene
Concen: 3.20 ug/L
RT: 2.769 min Scan# 384
Delta R.T. -0.008 min
Lab File: VE250312A17.D
Acq: 12 Mar 2025 3:57 pm

Tgt Ion: 96 Resp: 23419

Ion	Ratio	Lower	Upper
96	100		
61	184.8	129.0	193.6
63	59.4	41.7	62.5

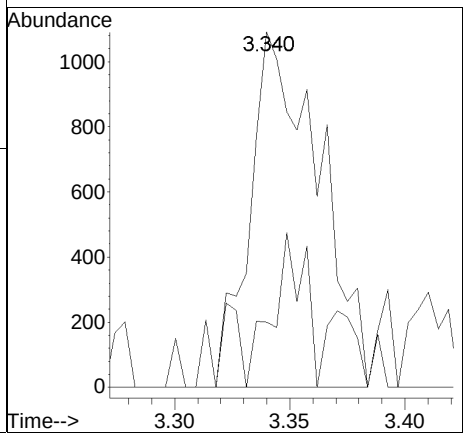


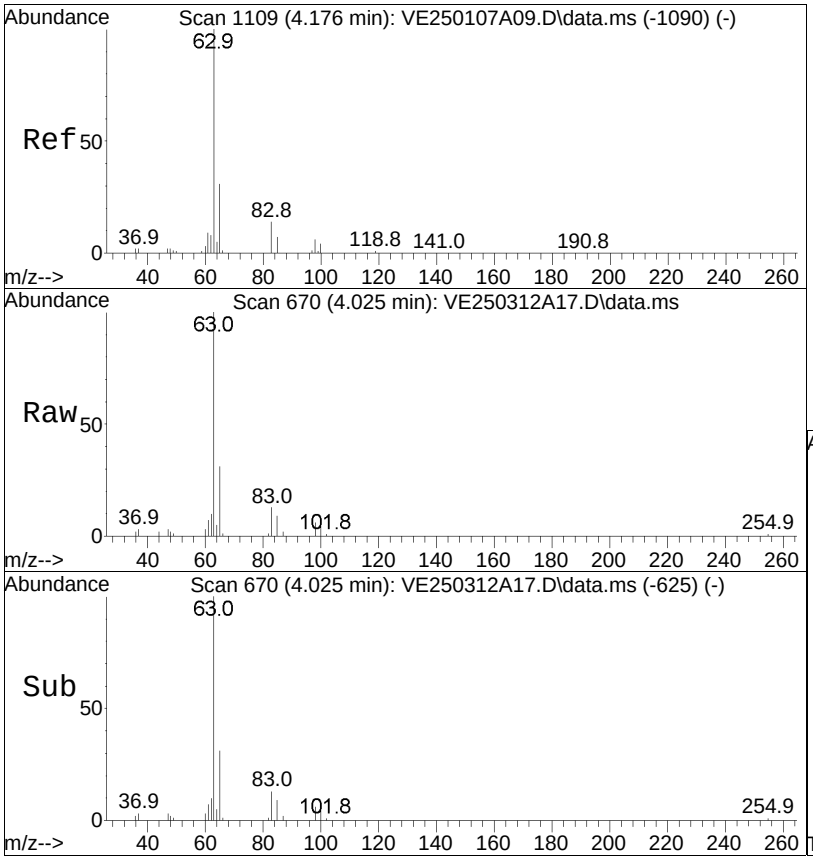


#17
Acetone
Concen: 2.23 ug/L
RT: 3.340 min Scan# 514
Delta R.T. -0.009 min
Lab File: VE250312A17.D
Acq: 12 Mar 2025 3:57 pm

Tgt Ion: 43 Resp: 2329

Ion	Ratio	Lower	Upper
43	100		
58	19.9	26.6	40.0#

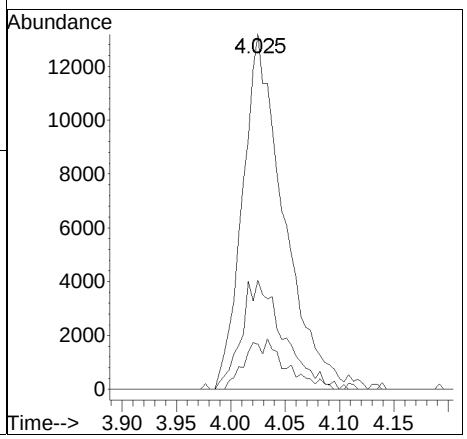


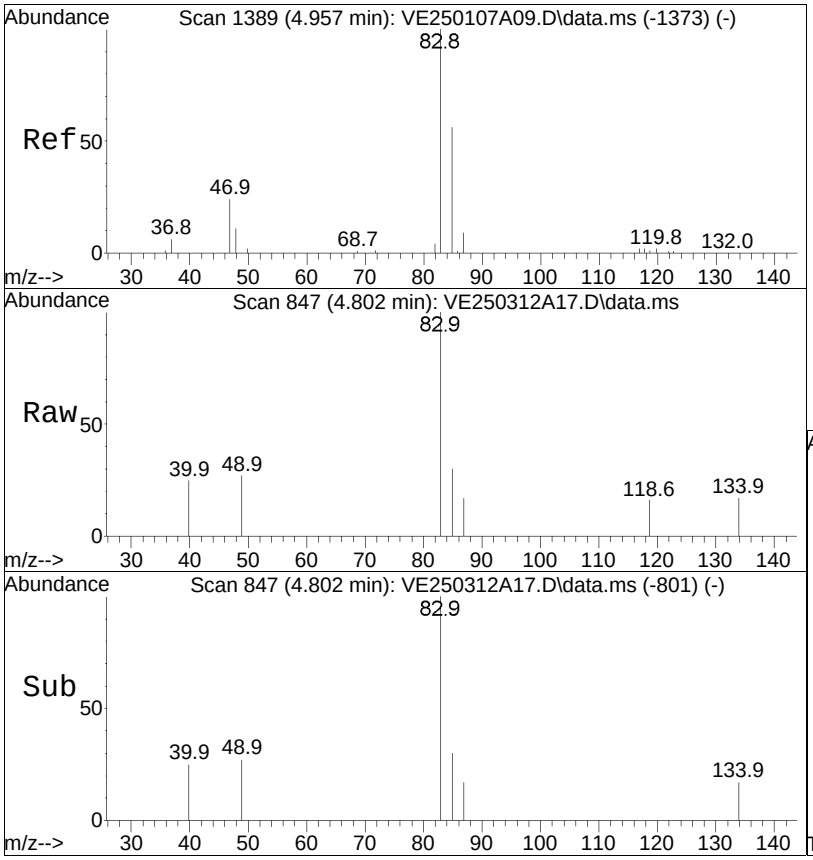


#25
1,1-Dichloroethane
Concen: 3.30 ug/L
RT: 4.025 min Scan# 670
Delta R.T. -0.004 min
Lab File: VE250312A17.D
Acq: 12 Mar 2025 3:57 pm

Tgt Ion: 63 Resp: 35024

Ion	Ratio	Lower	Upper
63	100		
65	31.2	11.7	51.7
83	14.0	0.0	33.3

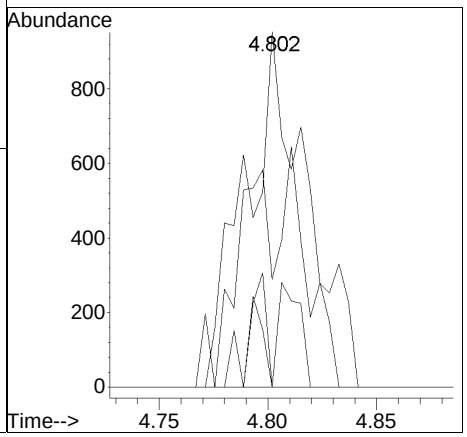


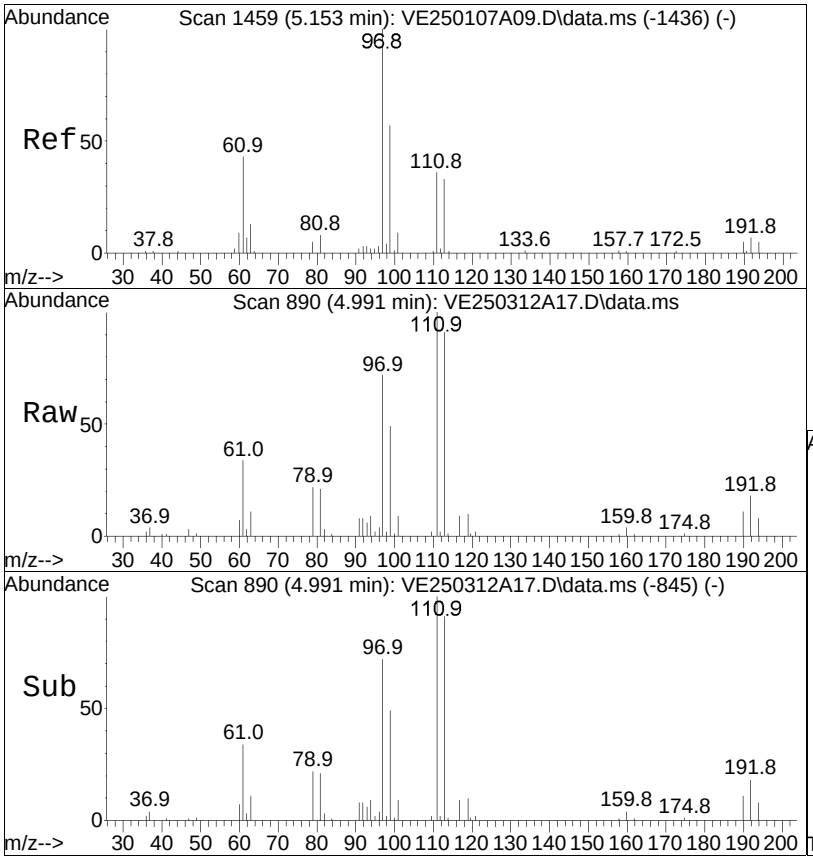


#35
Chloroform
Concen: 0.18 ug/L
RT: 4.802 min Scan# 847
Delta R.T. 0.001 min
Lab File: VE250312A17.D
Acq: 12 Mar 2025 3:57 pm

Tgt Ion: 83 Resp: 1885

Ion	Ratio	Lower	Upper
83	100		
85	0.0	42.5	88.3#
47	9.5	16.8	35.0#
48	5.6	9.2	19.2#

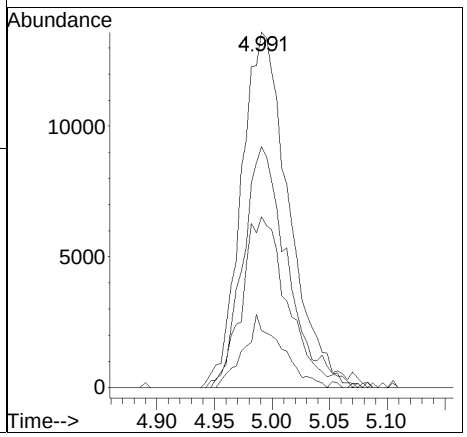


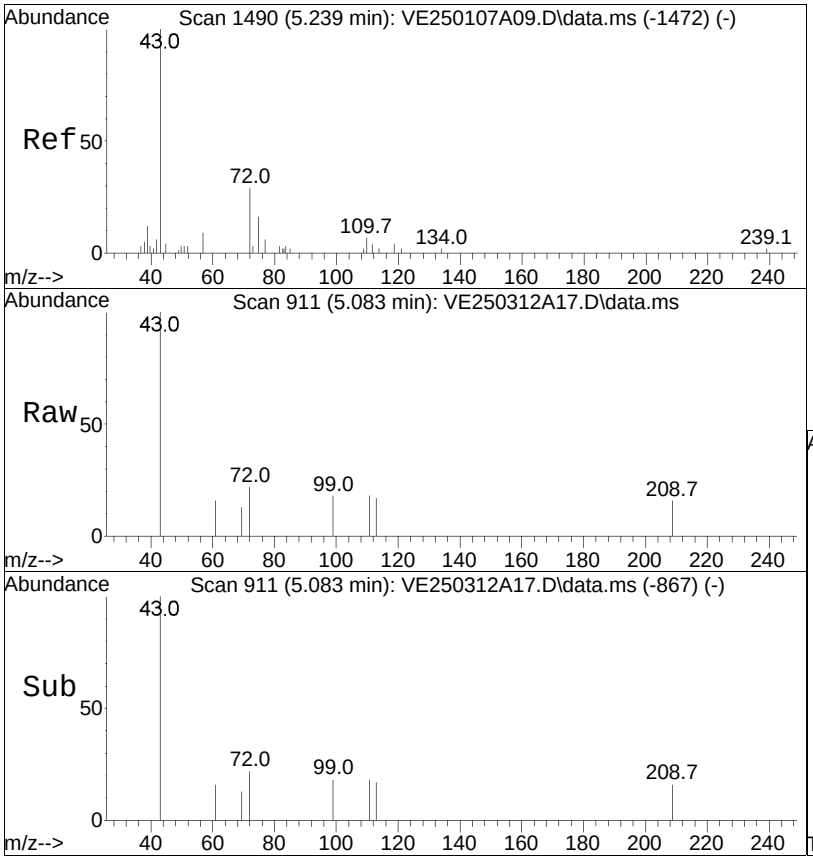


#40
1,1,1-Trichloroethane
Concen: 4.57 ug/L
RT: 4.991 min Scan# 890
Delta R.T. -0.003 min
Lab File: VE250312A17.D
Acq: 12 Mar 2025 3:57 pm

Tgt Ion: 97 Resp: 39465

Ion	Ratio	Lower	Upper
97	100		
99	62.8	42.4	88.2
61	46.2	29.0	60.2
63	16.1	9.4	19.6

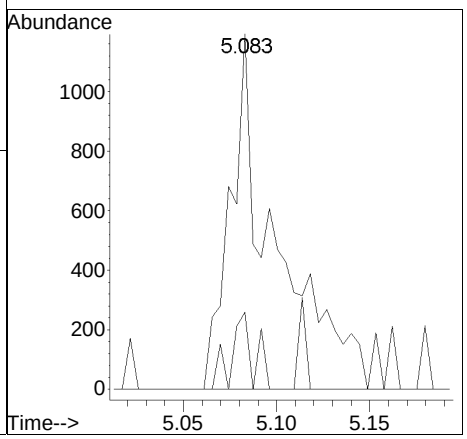


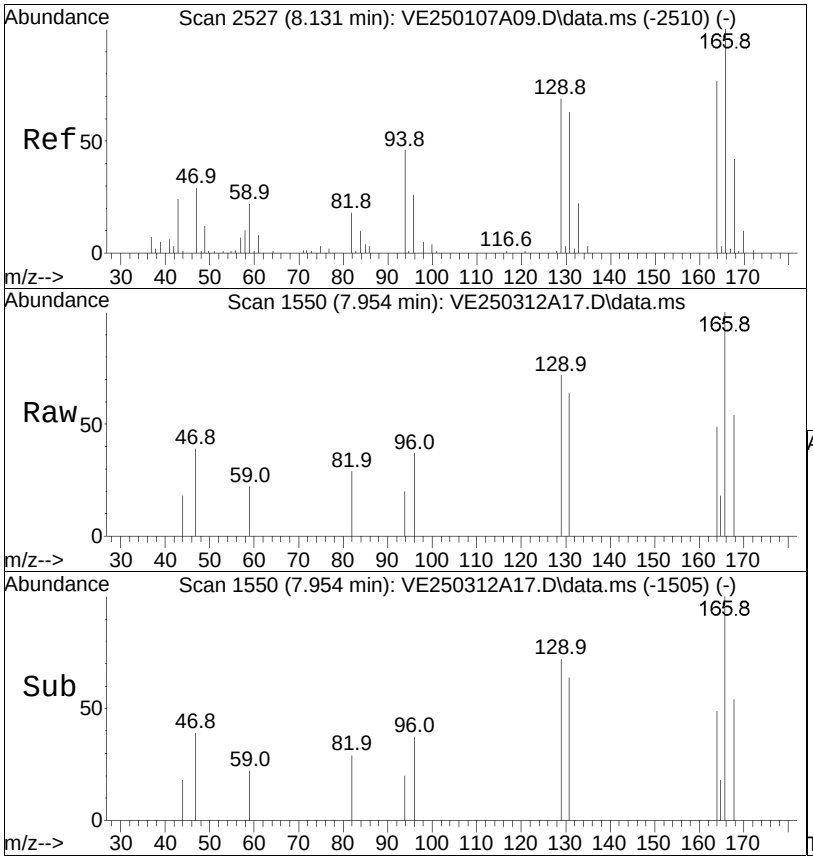


#42
2-Butanone
Concen: 1.39 ug/L
RT: 5.083 min Scan# 911
Delta R.T. -0.006 min
Lab File: VE250312A17.D
Acq: 12 Mar 2025 3:57 pm

Tgt Ion: 43 Resp: 2017

Ion	Ratio	Lower	Upper
43	100		
72	10.8	44.9	67.3#

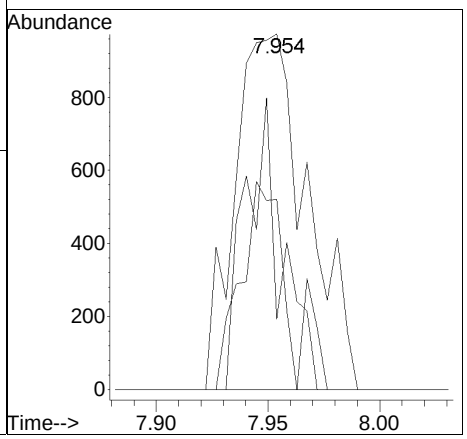




#67
Tetrachloroethene
Concen: 0.40 ug/L
RT: 7.954 min Scan# 1550
Delta R.T. 0.001 min
Lab File: VE250312A17.D
Acq: 12 Mar 2025 3:57 pm

Tgt Ion:166 Resp: 2193

Ion	Ratio	Lower	Upper
166	100		
168	32.2	28.3	68.3
94	41.3	27.4	67.4



Manual Integration Report

Data Path	: K:\Elaine\2025\250312A\	QMethod	: Elaine_250220N_8260.m
Data File	: VE250312A17.D	Operator	: ELAINE:MJV
Date Inj'd	: 3/12/2025 3:57 pm	Instrument	: Elaine
Sample	: L2512607-04,31,10,10,,A	Quant Date	: 3/13/2025 5:12 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A18.D
Acq On : 12 Mar 2025 4:22 pm
Operator : ELAINE:MJV
Sample : L2512607-05,31,10,10,,A
Misc : WG2039699,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 13 06:14:14 2025
Quant Method : K:\Elaine\2025\250312A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250312A\VE250312A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.768	96	260860	10.000 ug/L	0.00
Standard Area 1 = 297682			Recovery = 87.63%		
63) Chlorobenzene-d5	9.275	117	194365	10.000 ug/L	0.00
Standard Area 1 = 223126			Recovery = 87.11%		
84) 1,4-Dichlorobenzene-d4	12.028	152	107181	10.000 ug/L	0.00
Standard Area 1 = 121415			Recovery = 88.28%		
System Monitoring Compounds					
39) Dibromofluoromethane	4.973	113	74271	10.432 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.32%		
47) 1,2-Dichloroethane-d4	5.487	65	79757	10.583 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.83%		
64) Toluene-d8	7.447	98	253491	9.857 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.57%		
88) 4-Bromofluorobenzene	10.799	95	94222	10.985 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.85%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.492	85	51	N.D.	
3) Chloromethane	1.737	50	50	N.D.	
4) Vinyl chloride	1.794	62	89	N.D.	
5) Bromomethane	2.141	94	64	N.D.	
6) Chloroethane	2.124	64	113	N.D.	
7) Trichlorofluoromethane	0.000		0	N.D.	
10) 1,1-Dichloroethene	2.673	96	54	N.D.	
11) Carbon disulfide	2.791	76	58	N.D.	
12) Freon-113	0.000		0	N.D.	
15) Methylene chloride	3.331	84	45	N.D.	
17) Acetone	3.358	43	1039M3	0.996 ug/L	
18) trans-1,2-Dichloroethene	0.000		0	N.D.	
19) Methyl acetate	3.476	43	180	N.D.	
21) Methyl tert-butyl ether	3.538	73	1616	0.119 ug/L #	77
25) 1,1-Dichloroethane	0.000		0	N.D.	
30) cis-1,2-Dichloroethene	0.000		0	N.D.	
33) Bromochloromethane	0.000		0	N.D.	
34) Cyclohexane	4.583	56	41	N.D.	
35) Chloroform	4.793	83	1642	0.156 ug/L #	93
37) Carbon tetrachloride	0.000		0	N.D.	

Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A18.D
Acq On : 12 Mar 2025 4:22 pm
Operator : ELAINE:MJV
Sample : L2512607-05,31,10,10,,A
Misc : WG2039699,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 13 06:14:14 2025
Quant Method : K:\Elaine\2025\250312A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250312A\VE250312A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
40) 1,1,1-Trichloroethane	5.013	97	43	N.D.	
42) 2-Butanone	5.101	43	1525	1.049 ug/L #	27
45) Benzene	5.399	78	44	N.D.	
48) 1,2-Dichloroethane	0.000		0	N.D. d	
51) Methyl cyclohexane	0.000		0	N.D.	
52) Trichloroethene	0.000		0	N.D.	
55) 1,2-Dichloropropane	0.000		0	N.D.	
58) Bromodichloromethane	0.000		0	N.D.	
62) cis-1,3-Dichloropropene	7.226	75	41	N.D.	
65) Toluene	7.488	92	56	N.D.	
66) 4-Methyl-2-pentanone	0.000		0	N.D.	
67) Tetrachloroethene	7.941	166	74	N.D.	
69) trans-1,3-Dichloropropene	0.000		0	N.D.	
72) 1,1,2-Trichloroethane	8.090	83	46	N.D.	
73) Chlorodibromomethane	8.447	129	46	N.D.	
75) 1,2-Dibromoethane	8.520	107	47	N.D.	
77) 2-Hexanone	8.936	43	47	N.D.	
78) Chlorobenzene	9.294	112	57	N.D.	
79) Ethylbenzene	9.312	91	42	N.D.	
81) p/m Xylene	9.642	106	48	N.D.	
82) o Xylene	10.086	106	45	N.D.	
83) Styrene	10.172	104	41	N.D.	
85) Bromoform	0.000		0	N.D.	
87) Isopropylbenzene	10.477	105	40	N.D.	
92) 1,1,2,2-Tetrachloroethane	10.971	83	47	N.D.	
105) 1,3-Dichlorobenzene	0.000		0	N.D.	
106) 1,4-Dichlorobenzene	0.000		0	N.D.	
109) 1,2-Dichlorobenzene	0.000		0	N.D.	
111) 1,2-Dibromo-3-chloropr...	0.000		0	N.D. d	
114) 1,2,4-Trichlorobenzene	13.887	180	50	N.D.	
116) 1,2,3-Trichlorobenzene	0.000		0	N.D.	

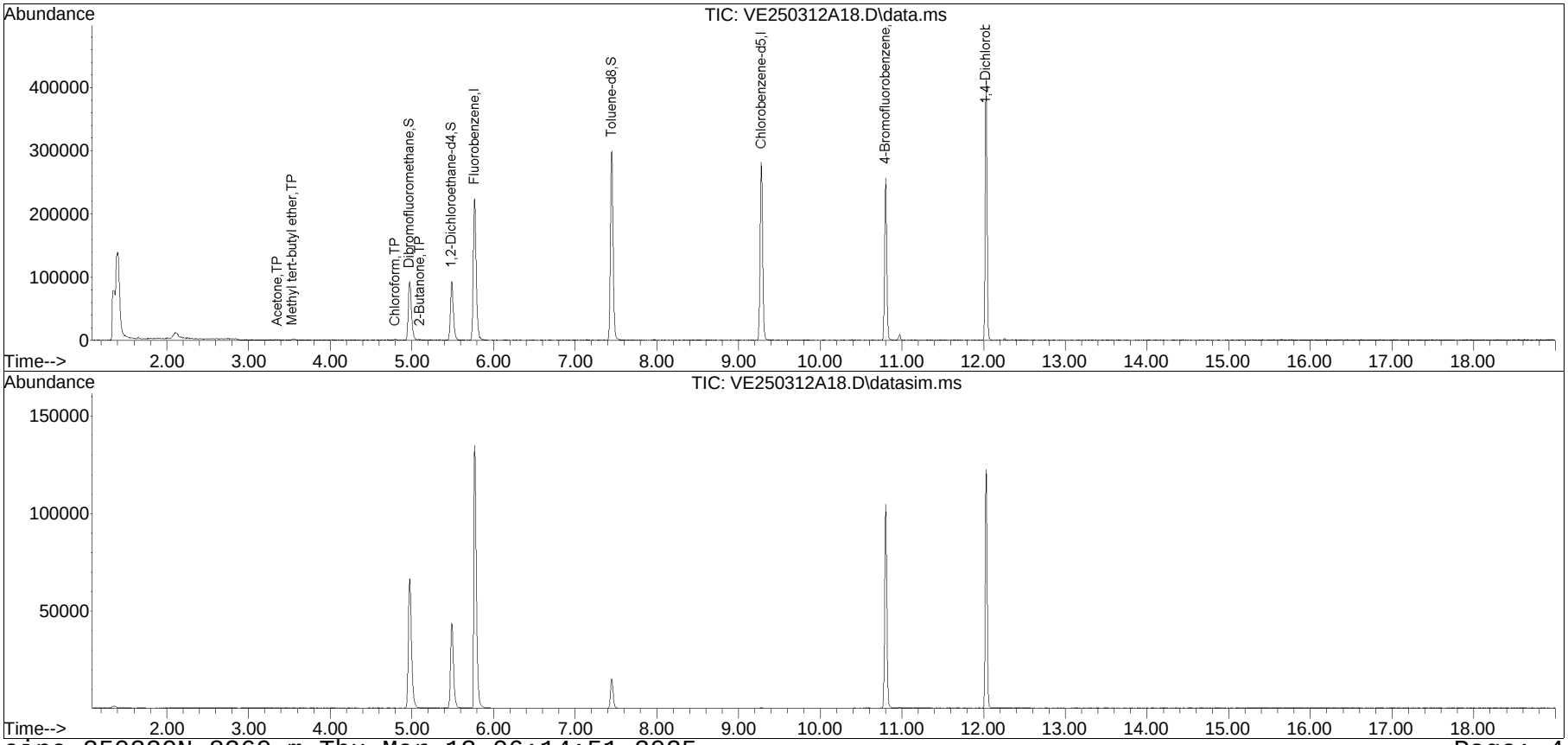
(#) = qualifier out of range (m) = manual integration (+) = signals summed

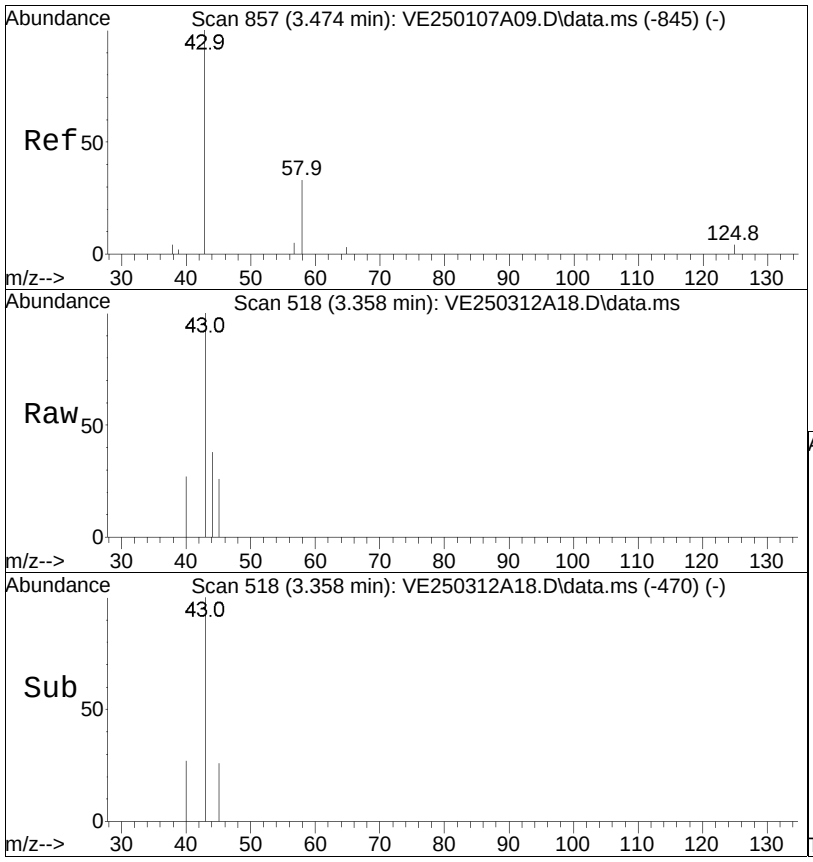
Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A18.D
Acq On : 12 Mar 2025 4:22 pm
Operator : ELAINE:MJV
Sample : L2512607-05,31,10,10,,A
Misc : WG2039699,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 13 06:14:14 2025
Quant Method : K:\Elaine\2025\250312A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

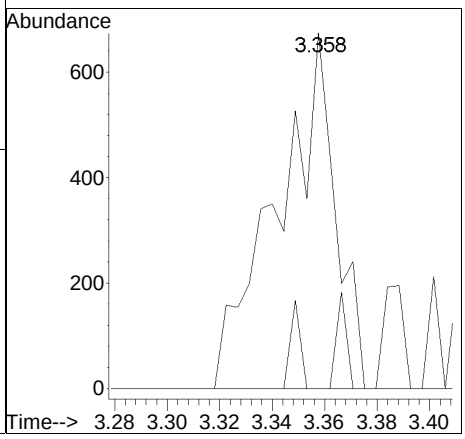


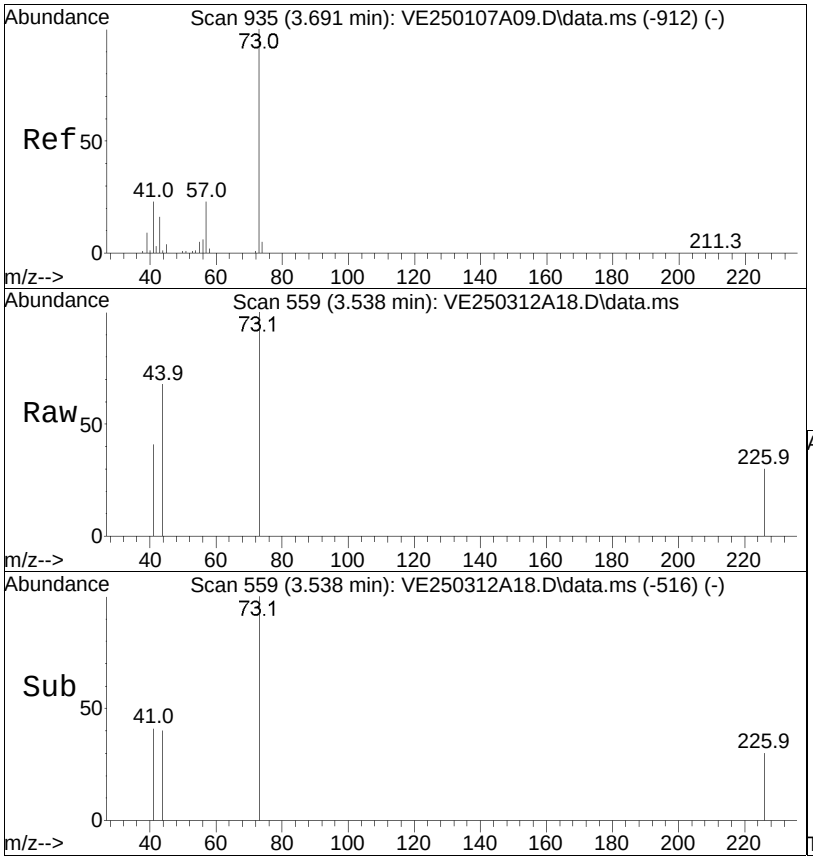


#17
Acetone
Concen: 1.00 ug/L M3
RT: 3.358 min Scan# 518
Delta R.T. 0.009 min
Lab File: VE250312A18.D
Acq: 12 Mar 2025 4:22 pm

Tgt Ion: 43 Resp: 1039

Ion	Ratio	Lower	Upper
43	100		
58	4.6	26.6	40.0#

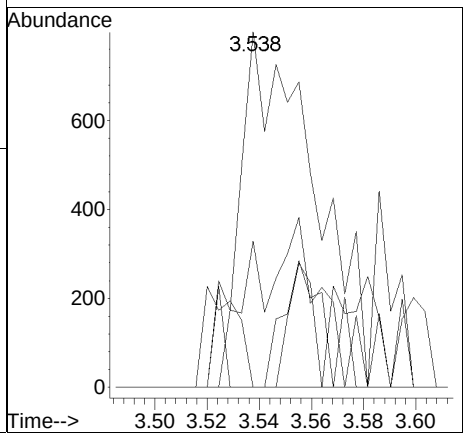


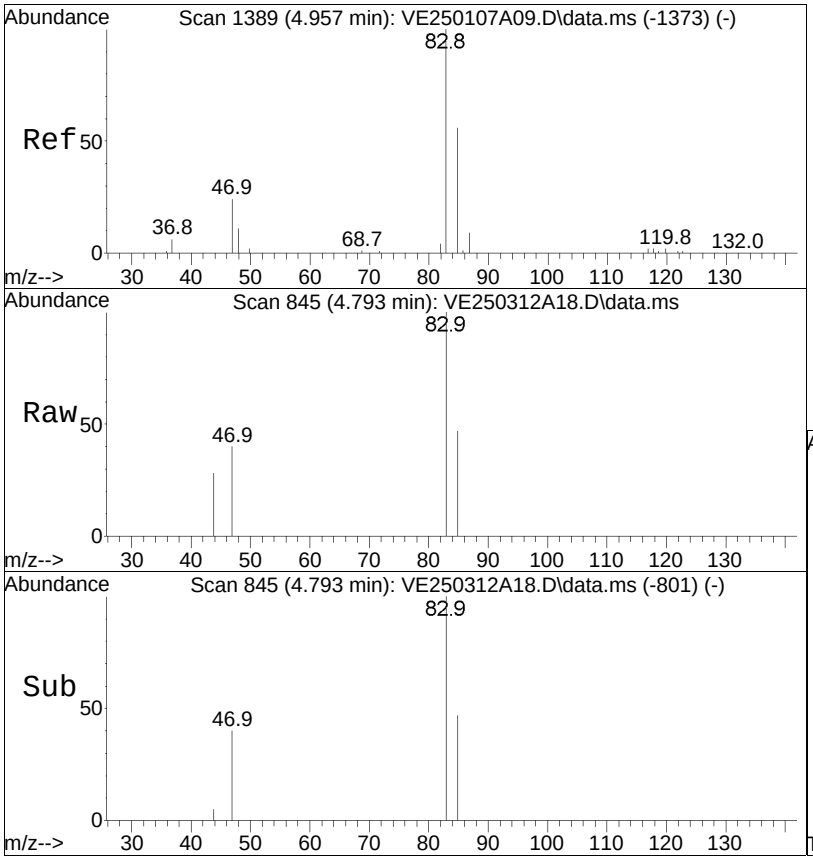


#21
Methyl tert-butyl ether
Concen: 0.12 ug/L
RT: 3.538 min Scan# 559
Delta R.T. -0.012 min
Lab File: VE250312A18.D
Acq: 12 Mar 2025 4:22 pm

Tgt Ion: 73 Resp: 1616

Ion	Ratio	Lower	Upper
73	100		
57	19.9	15.2	31.6
43	11.0	0.0	0.0#
41	41.3	14.4	30.0#

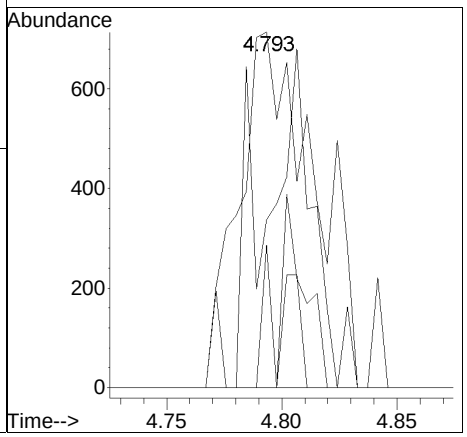


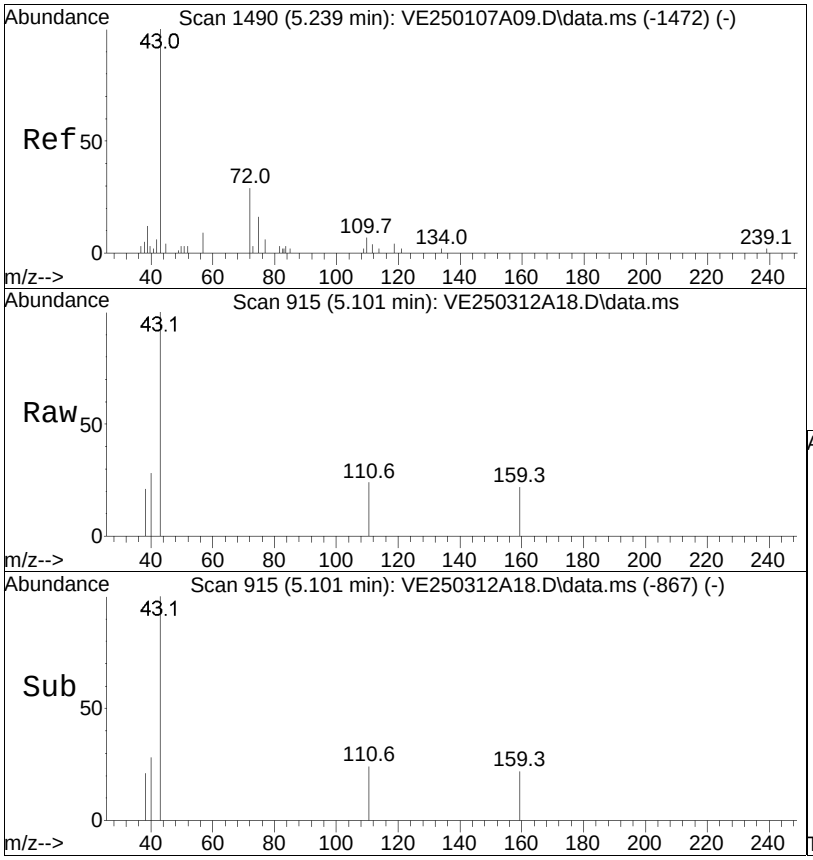


#35
Chloroform
Concen: 0.16 ug/L
RT: 4.793 min Scan# 845
Delta R.T. -0.008 min
Lab File: VE250312A18.D
Acq: 12 Mar 2025 4:22 pm

Tgt Ion: 83 Resp: 1642

Ion	Ratio	Lower	Upper
83	100		
85	62.4	42.5	88.3
47	20.1	16.8	35.0
48	7.2	9.2	19.2#

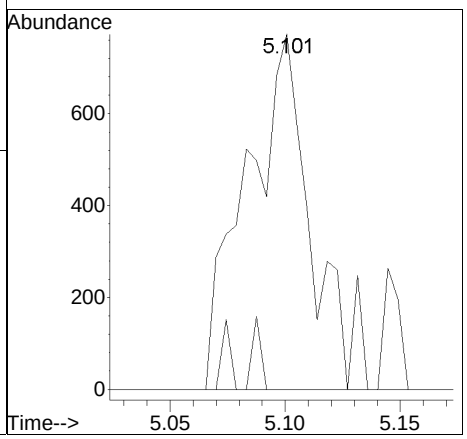




#42
2-Butanone
Concen: 1.05 ug/L
RT: 5.101 min Scan# 915
Delta R.T. 0.012 min
Lab File: VE250312A18.D
Acq: 12 Mar 2025 4:22 pm

Tgt Ion: 43 Resp: 1525

Ion	Ratio	Lower	Upper
43	100		
72	2.8	44.9	67.3#

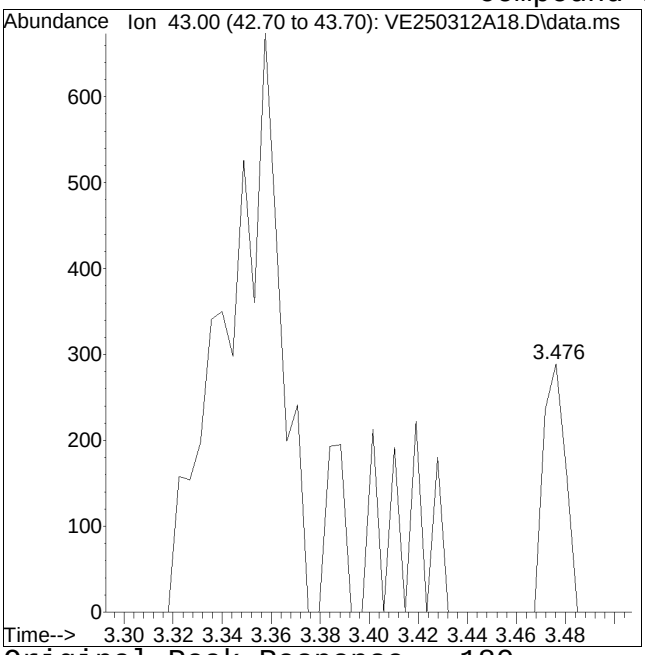


Manual Integration Report

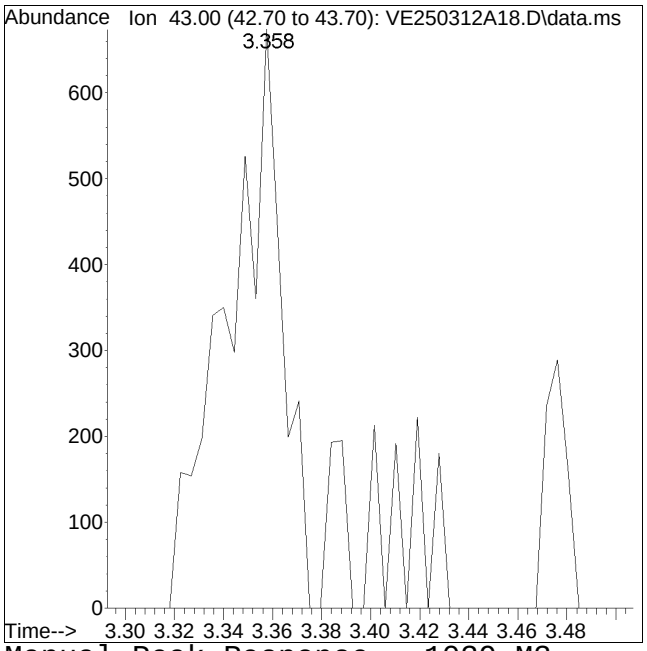
Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A18.D
Date Inj'd : 3/12/2025 4:22 pm
Sample : L2512607-05,31,10,10,,A

QMethod : Elaine_250220N_8260.m
Operator : ELAINE:MJV
Instrument : Elaine
Quant Date : 3/13/2025 5:12 am

Compound #17: Acetone



Original Peak Response = 180



Manual Peak Response = 1039 M3

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2025\250313A\
Data File : V01250313A12.D
Acq On : 13 Mar 2025 11:54 am
Operator : VOA101:PID
Sample : L2512607-06,31,10,10,,A
Misc : WG2040184,ICAL21969
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 13 12:22:46 2025
Quant Method : K:\VOA101\2025\250313A\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 12 10:30:07 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2025\250313A\V01250313A04.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.899	96	536651	10.000	ug/L	0.00
Standard Area 1 = 602809			Recovery =	89.03%		
59) Chlorobenzene-d5	9.413	117	379841	10.000	ug/L	0.00
Standard Area 1 = 429416			Recovery =	88.46%		
79) 1,4-Dichlorobenzene-d4	12.143	152	183002	10.000	ug/L	0.00
Standard Area 1 = 232552			Recovery =	78.69%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.099	113	140310	10.284	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.84%		
43) 1,2-Dichloroethane-d4	5.617	65	165909	10.602	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	106.02%		
60) Toluene-d8	7.578	98	520829	10.321	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	103.21%		
83) 4-Bromofluorobenzene	10.924	95	173132	9.663	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	96.63%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.797	50	2795	0.106	ug/L	99
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.171	94	548	0.318	ug/L #	46
6) Chloroethane	2.246	64	86	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.923	76	4123	0.107	ug/L #	89
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	3.490	43	7042	1.413	ug/L #	68
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.573	43	220	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2025\250313A\
Data File : V01250313A12.D
Acq On : 13 Mar 2025 11:54 am
Operator : VOA101:PID
Sample : L2512607-06,31,10,10,,A
Misc : WG2040184,ICAL21969
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 13 12:22:46 2025
Quant Method : K:\VOA101\2025\250313A\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 12 10:30:07 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2025\250313A\V01250313A04.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0	N.D.		
39) 2-Butanone	5.238	43	3638M1	0.944	ug/L	
41) Benzene	5.495	78	124	N.D.		
44) 1,2-Dichloroethane	5.693	62	33	N.D.		
47) Methyl cyclohexane	0.000		0	N.D.		
48) Trichloroethene	0.000		0	N.D.		
51) 1,2-Dichloropropane	0.000		0	N.D.		
54) Bromodichloromethane	0.000		0	N.D.		
58) cis-1,3-Dichloropropene	0.000		0	N.D.		
61) Toluene	7.633	92	186	N.D.		
62) 4-Methyl-2-pentanone	0.000		0	N.D.		
63) Tetrachloroethene	0.000		0	N.D.		
65) trans-1,3-Dichloropropene	0.000		0	N.D.		
68) 1,1,2-Trichloroethane	0.000		0	N.D.		
69) Chlorodibromomethane	0.000		0	N.D.		
71) 1,2-Dibromoethane	0.000		0	N.D.		
72) 2-Hexanone	9.134	43	34	N.D.		
73) Chlorobenzene	0.000		0	N.D.		
74) Ethylbenzene	9.491	91	28	N.D.		
76) p/m Xylene	0.000		0	N.D.		
77) o Xylene	0.000		0	N.D.		
78) Styrene	0.000		0	N.D.		
80) Bromoform	0.000		0	N.D.		
82) Isopropylbenzene	0.000		0	N.D.		
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
100) 1,3-Dichlorobenzene	12.087	146	79	N.D.		
101) 1,4-Dichlorobenzene	12.159	146	113	N.D.		
104) 1,2-Dichlorobenzene	0.000		0	N.D.		
106) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
109) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
111) 1,2,3-Trichlorobenzene	0.000		0	N.D.		

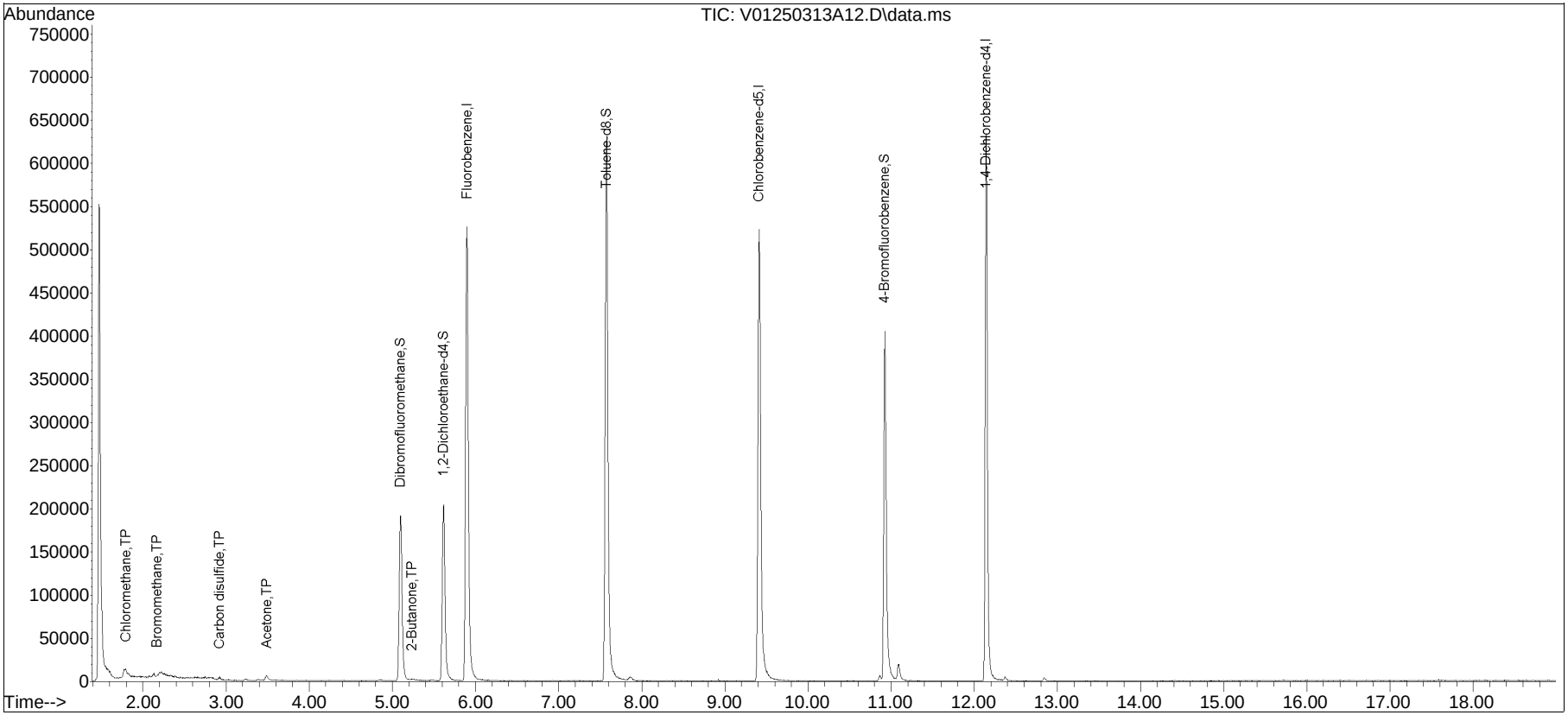
(#) = qualifier out of range (m) = manual integration (+) = signals summed

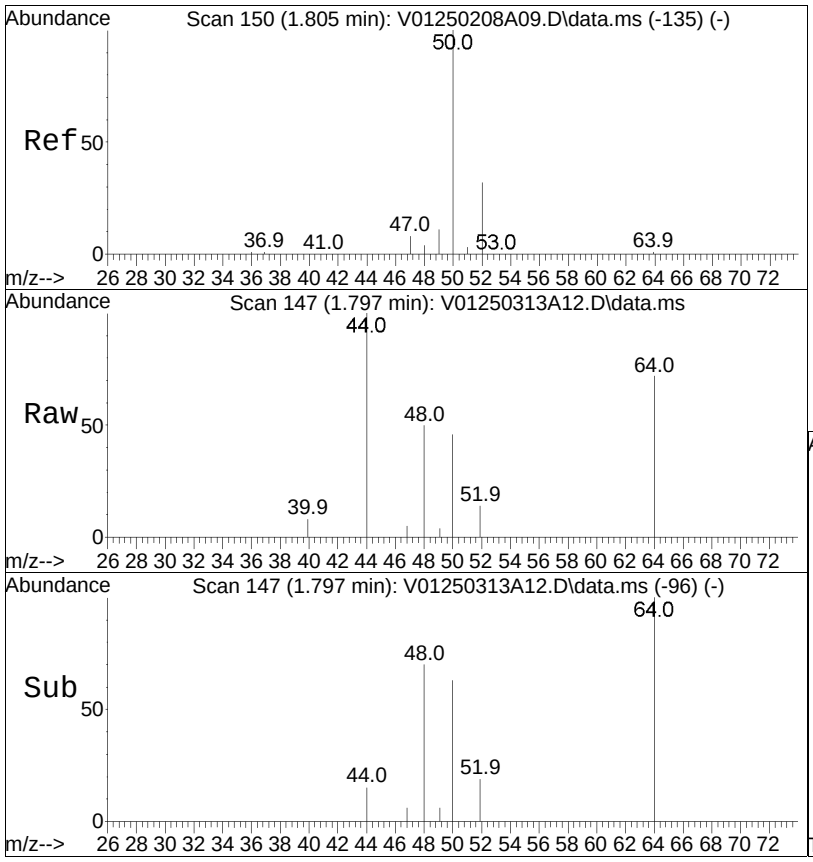
Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2025\250313A\
Data File : V01250313A12.D
Acq On : 13 Mar 2025 11:54 am
Operator : VOA101:PID
Sample : L2512607-06,31,10,10,,A
Misc : WG2040184,ICAL21969
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 13 12:22:46 2025
Quant Method : K:\VOA101\2025\250313A\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 12 10:30:07 2025
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

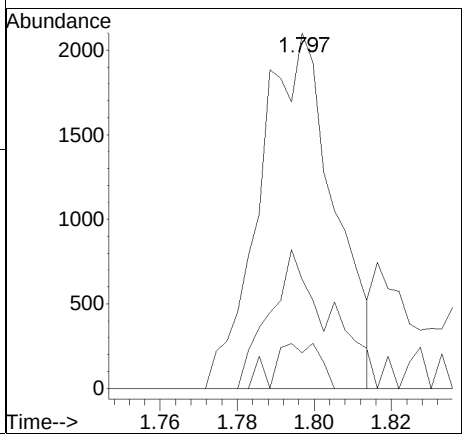


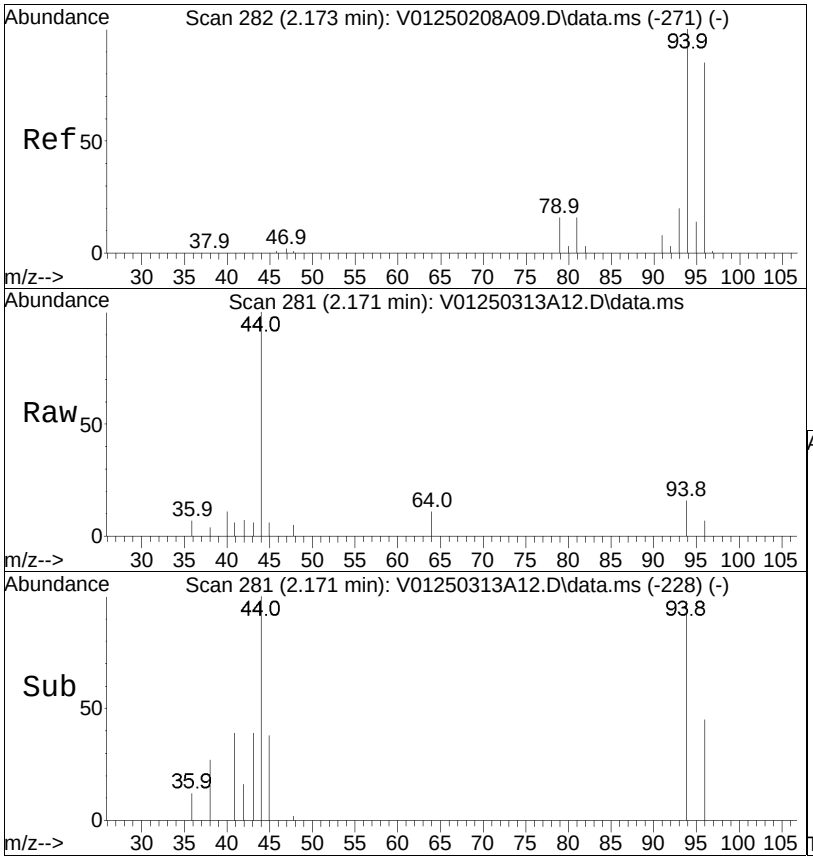


#3
Chloromethane
Concen: 0.11 ug/L
RT: 1.797 min Scan# 147
Delta R.T. -0.008 min
Lab File: V01250313A12.D
Acq: 13 Mar 2025 11:54 am

Tgt Ion: 50 Resp: 2795

Ion	Ratio	Lower	Upper
50	100		
52	31.4	11.0	51.0
47	7.9	0.0	27.1

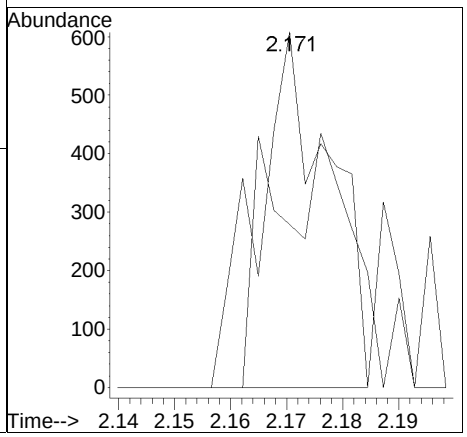


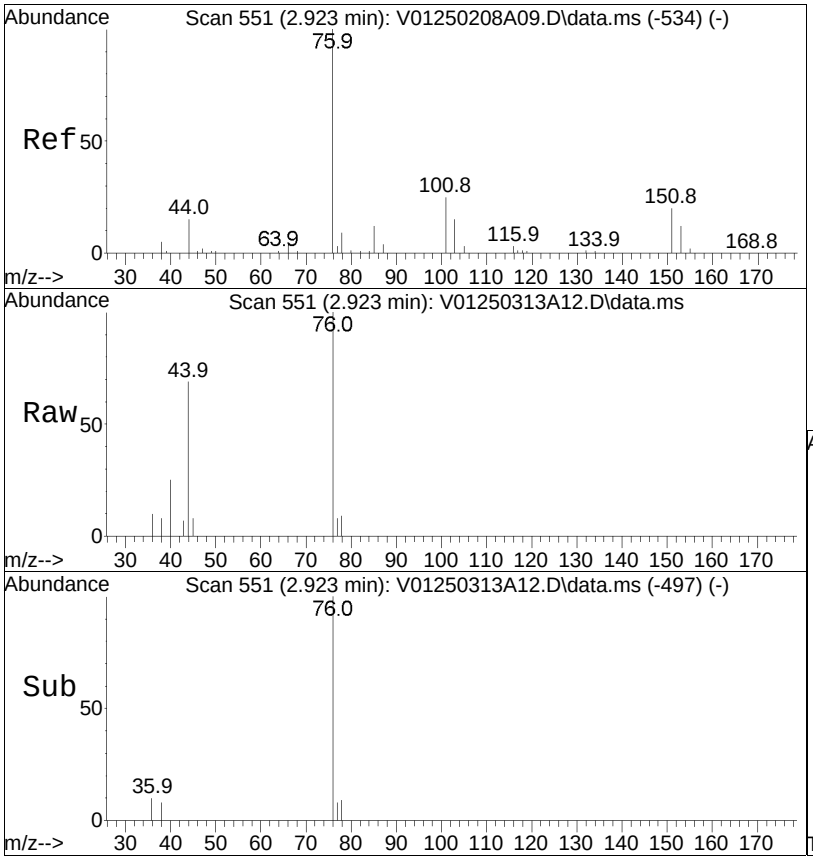


#5
Bromomethane
Concen: 0.32 ug/L
RT: 2.171 min Scan# 281
Delta R.T. -0.002 min
Lab File: V01250313A12.D
Acq: 13 Mar 2025 11:54 am

Tgt Ion: 94 Resp: 548

Ion	Ratio	Lower	Upper
94	100		
96	42.9	75.4	115.4#

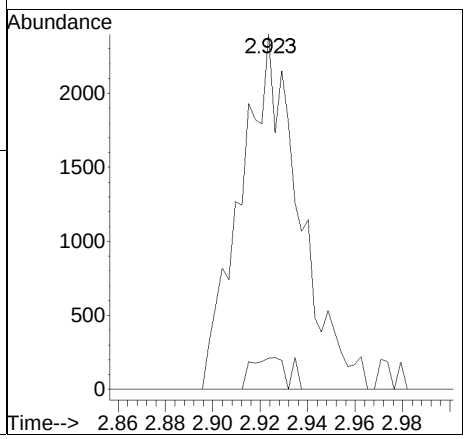


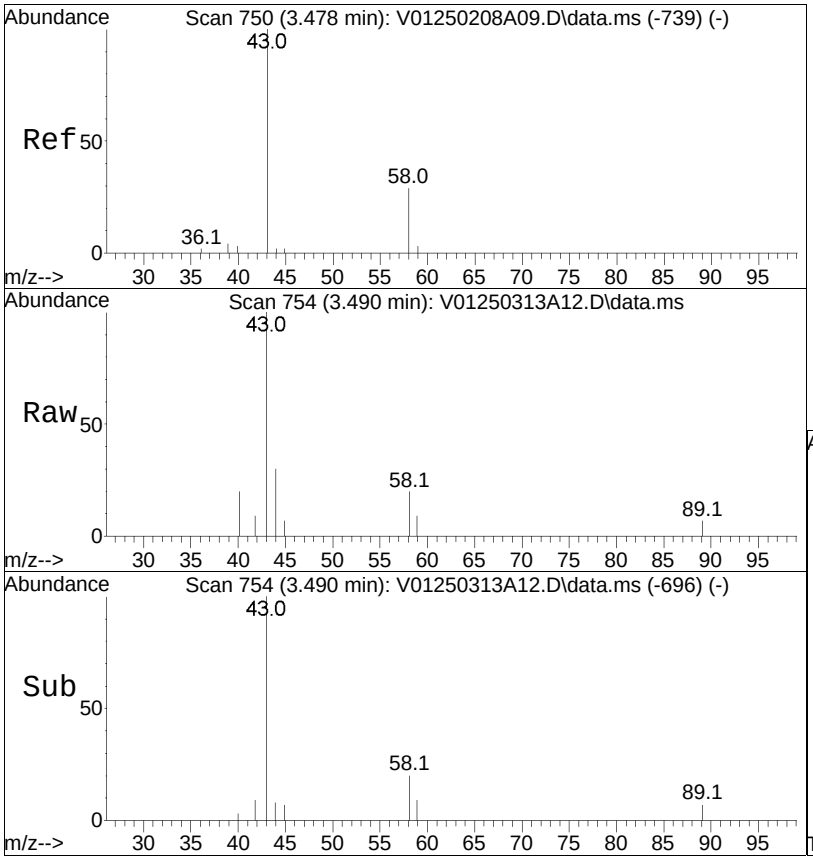


#11
Carbon disulfide
Concen: 0.11 ug/L
RT: 2.923 min Scan# 551
Delta R.T. 0.000 min
Lab File: V01250313A12.D
Acq: 13 Mar 2025 11:54 am

Tgt Ion: 76 Resp: 4123

Ion	Ratio	Lower	Upper
76	100		
78	5.7	6.3	13.1#

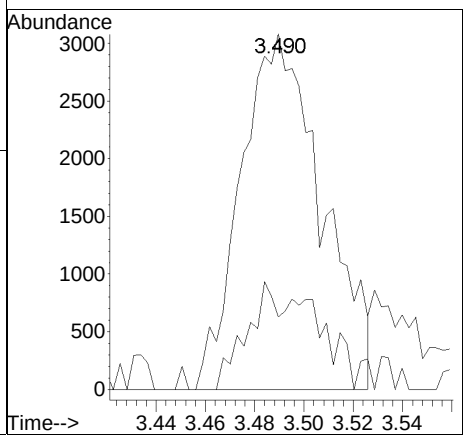


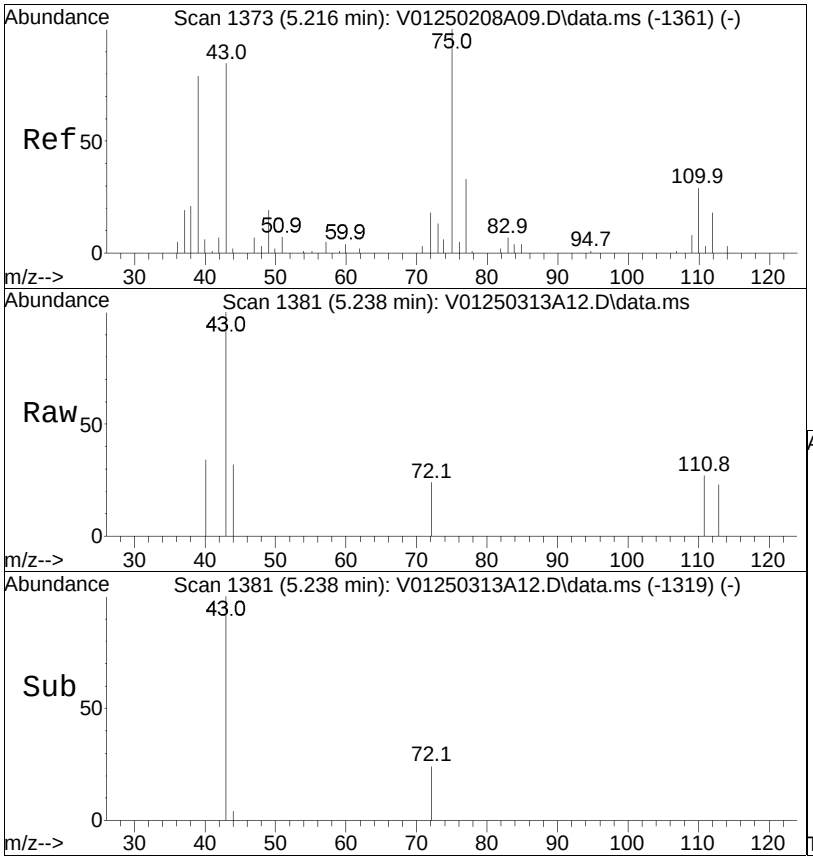


#17
Acetone
Concen: 1.41 ug/L
RT: 3.490 min Scan# 754
Delta R.T. 0.012 min
Lab File: V01250313A12.D
Acq: 13 Mar 2025 11:54 am

Tgt Ion: 43 Resp: 7042

Ion	Ratio	Lower	Upper
43	100		
58	11.4	22.6	33.8#

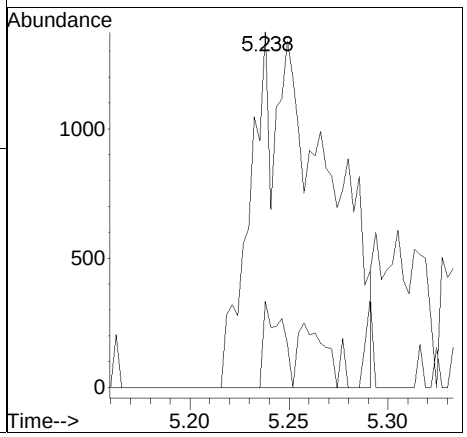




#39
2-Butanone
Concen: 0.94 ug/L M1
RT: 5.238 min Scan# 1381
Delta R.T. 0.022 min
Lab File: V01250313A12.D
Acq: 13 Mar 2025 11:54 am

Tgt Ion: 43 Resp: 3638

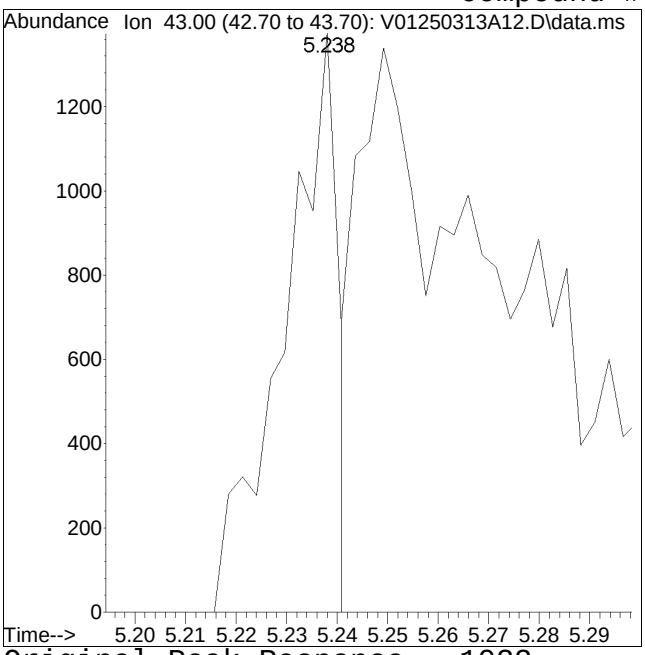
Ion	Ratio	Lower	Upper
43	100		
72	5.7	16.5	24.7#



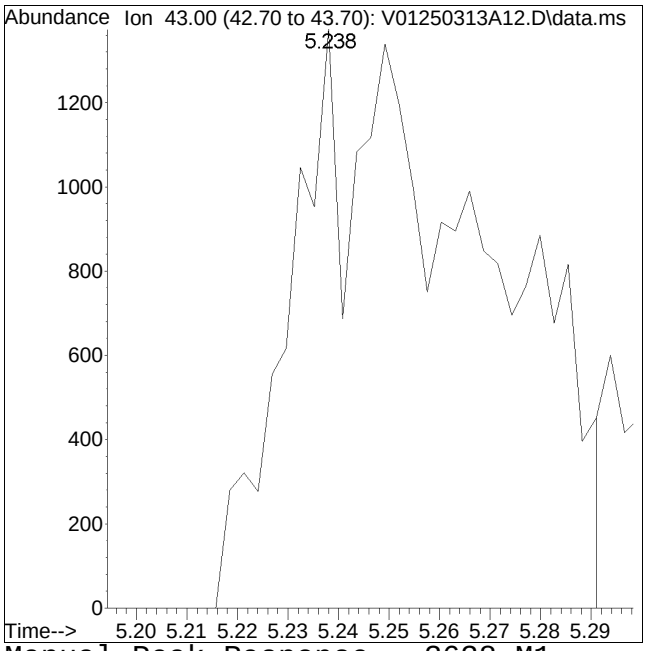
Manual Integration Report

Data Path	: K:\VOA101\2025\250313A\	QMethod	: V101_250208A_8260.m
Data File	: V01250313A12.D	Operator	: VOA101:PID
Date Inj'd	: 3/13/2025 11:54 am	Instrument	: VOA 101
Sample	: L2512607-06,31,10,10,,A	Quant Date	: 3/13/2025 12:22 pm

Compound #39: 2-Butanone



Original Peak Response = 1022



Manual Peak Response = 3638 M1

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2025\250313A\
Data File : V01250313A13.D
Acq On : 13 Mar 2025 12:21 pm
Operator : VOA101:PID
Sample : L2512607-07,31,10,10,,A
Misc : WG2040184,ICAL21969
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 13 12:56:13 2025
Quant Method : K:\VOA101\2025\250313A\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 12 10:30:07 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2025\250313A\V01250313A04.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.899	96	504674	10.000	ug/L	0.00
Standard Area 1 = 602809			Recovery = 83.72%			
59) Chlorobenzene-d5	9.415	117	352554	10.000	ug/L	0.00
Standard Area 1 = 429416			Recovery = 82.10%			
79) 1,4-Dichlorobenzene-d4	12.145	152	170893	10.000	ug/L	0.00
Standard Area 1 = 232552			Recovery = 73.49%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.098	113	134428	10.477	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.77%			
43) 1,2-Dichloroethane-d4	5.620	65	156572	10.639	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.39%			
60) Toluene-d8	7.575	98	480087	10.250	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.50%			
83) 4-Bromofluorobenzene	10.927	95	163625	9.779	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.79%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.794	50	3614	0.145	ug/L	85
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.176	94	511M3	0.317	ug/L	
6) Chloroethane	2.196	64	201	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.929	76	3797	0.104	ug/L #	79
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.431	84	25	N.D.		
17) Acetone	3.487	43	6328M1	1.277	ug/L	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.615	43	284	N.D.		
20) Methyl tert-butyl ether	3.699	73	25	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\VOA101\2025\250313A\
Data File : V01250313A13.D
Acq On : 13 Mar 2025 12:21 pm
Operator : VOA101:PID
Sample : L2512607-07,31,10,10,,A
Misc : WG2040184,ICAL21969
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 13 12:56:13 2025
Quant Method : K:\VOA101\2025\250313A\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 12 10:30:07 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2025\250313A\V01250313A04.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	5.202	43	89		N.D.	
41) Benzene	5.497	78	521		N.D.	
44) 1,2-Dichloroethane	5.690	62	26		N.D.	
47) Methyl cyclohexane	6.069	83	30		N.D.	
48) Trichloroethene	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	7.633	92	869		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	9.418	112	26		N.D.	
74) Ethylbenzene	9.415	91	447		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
87) 1,1,2,2-Tetrachloroethane	11.083	83	27		N.D.	
100) 1,3-Dichlorobenzene	12.087	146	43		N.D.	
101) 1,4-Dichlorobenzene	12.159	146	194		N.D.	
104) 1,2-Dichlorobenzene	0.000		0		N.D.	
106) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
111) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

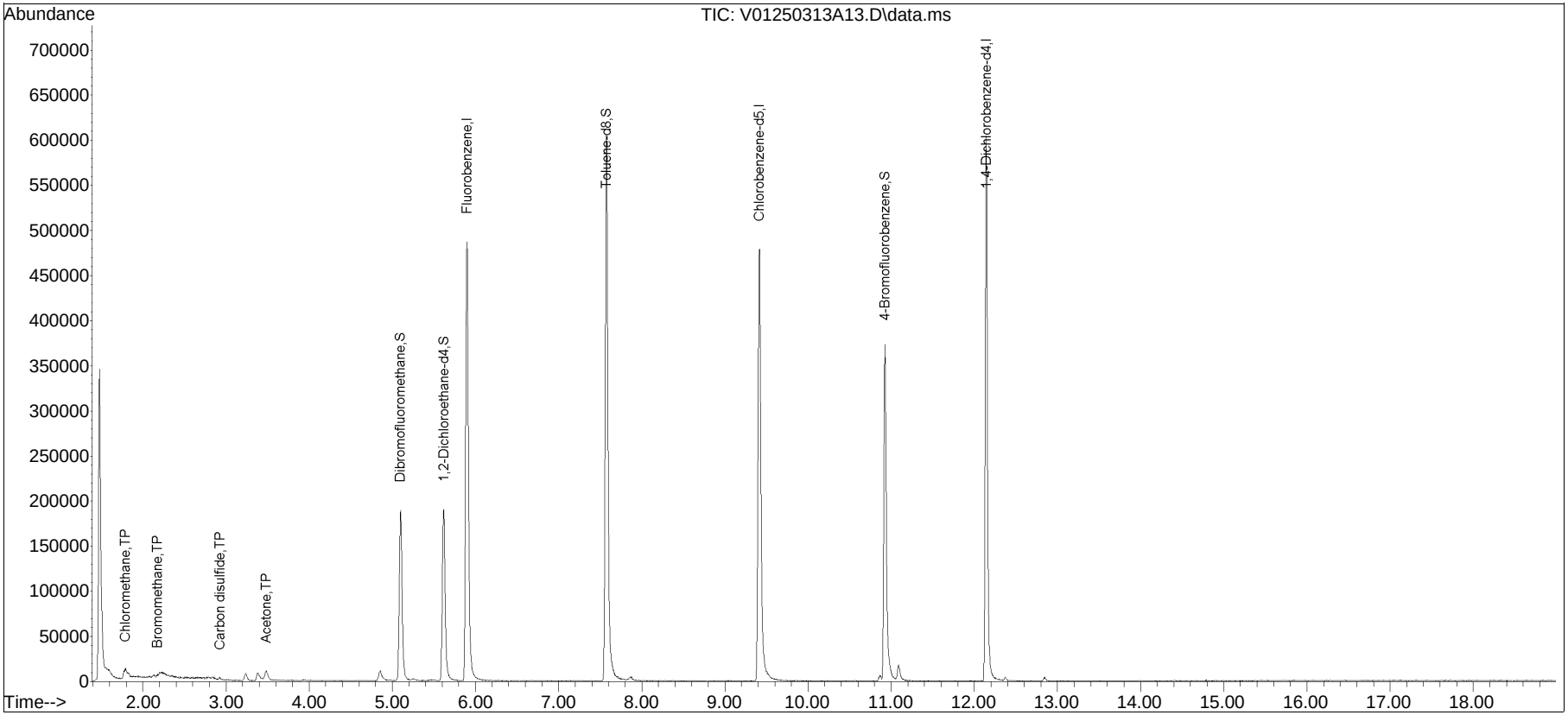
(#) = qualifier out of range (m) = manual integration (+) = signals summed

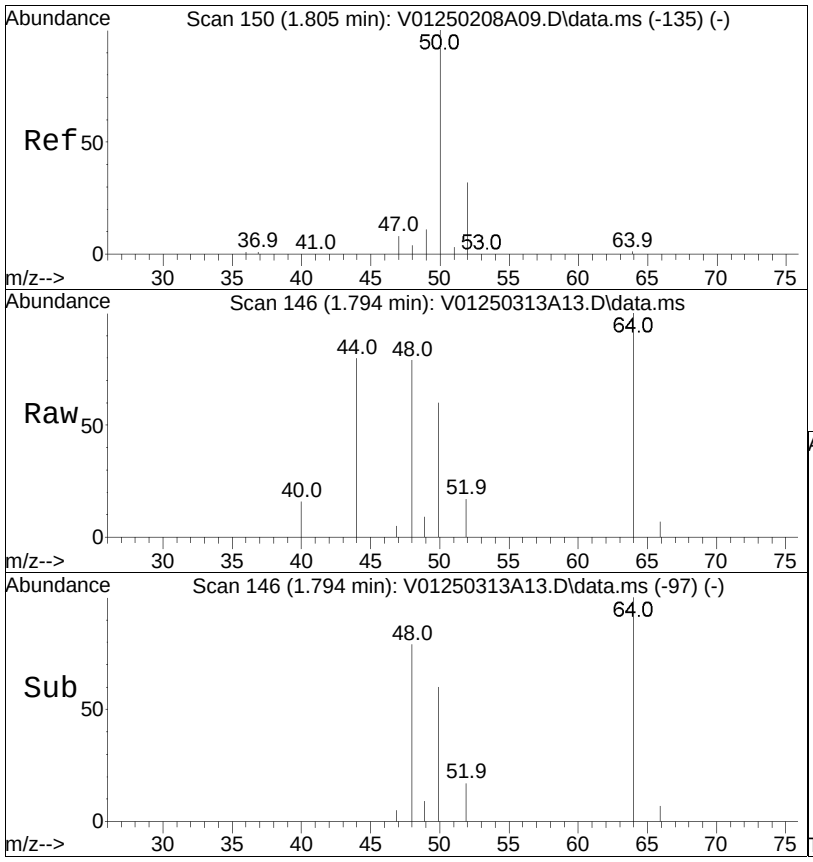
Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2025\250313A\
Data File : V01250313A13.D
Acq On : 13 Mar 2025 12:21 pm
Operator : VOA101:PID
Sample : L2512607-07,31,10,10,,A
Misc : WG2040184,ICAL21969
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 13 12:56:13 2025
Quant Method : K:\VOA101\2025\250313A\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 12 10:30:07 2025
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

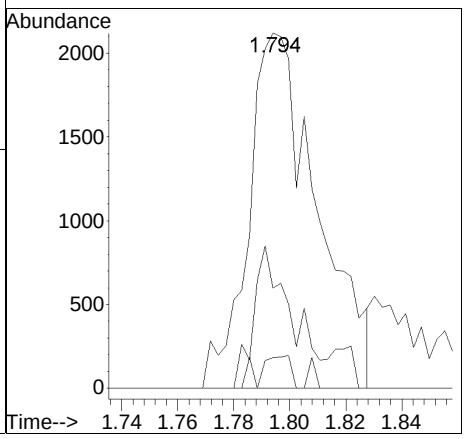


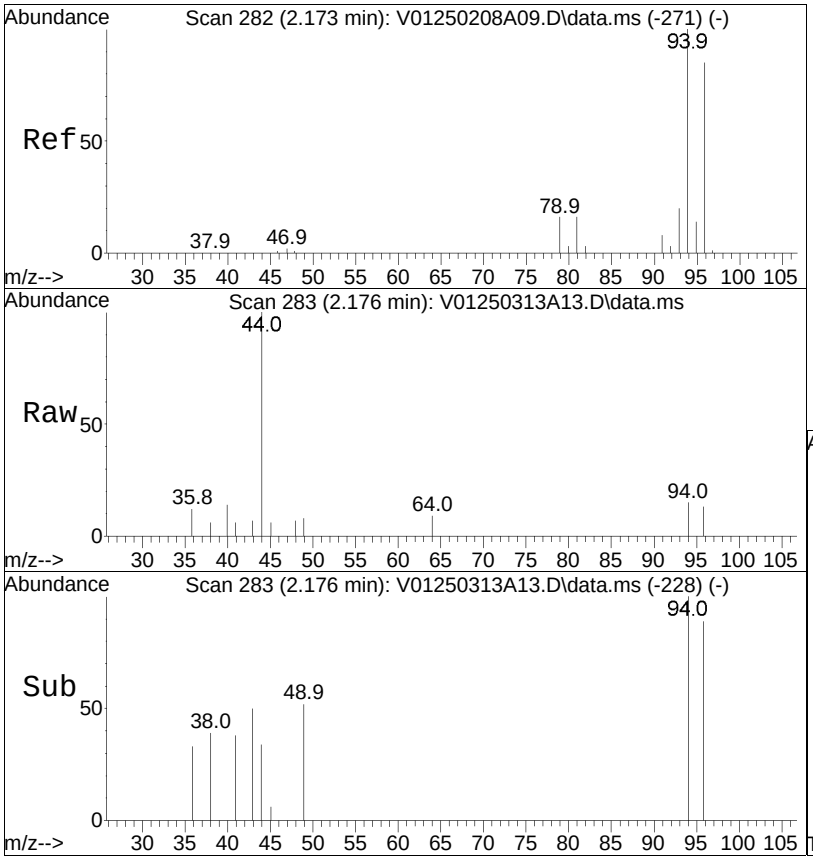


#3
Chloromethane
Concen: 0.15 ug/L
RT: 1.794 min Scan# 146
Delta R.T. -0.011 min
Lab File: V01250313A13.D
Acq: 13 Mar 2025 12:21 pm

Tgt Ion: 50 Resp: 3614

Ion	Ratio	Lower	Upper
50	100		
52	22.2	11.0	51.0
47	4.2	0.0	27.1

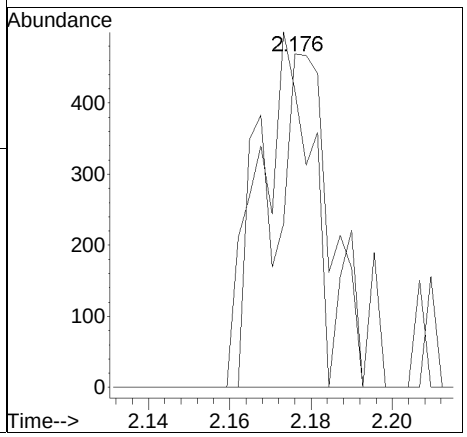


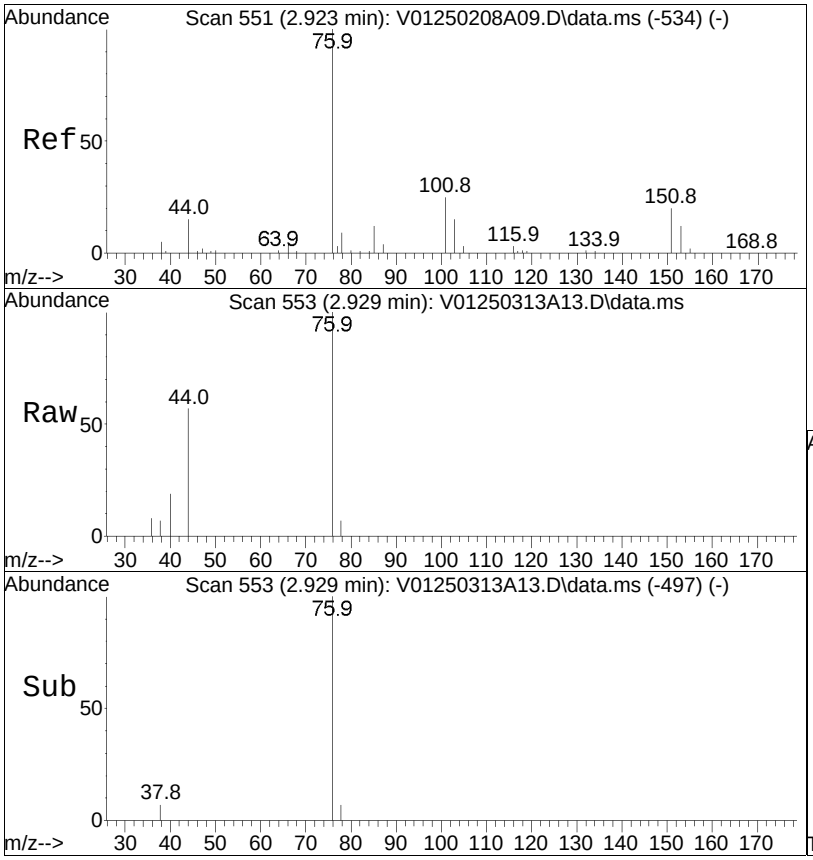


#5
Bromomethane
Concen: 0.32 ug/L M3
RT: 2.176 min Scan# 283
Delta R.T. 0.003 min
Lab File: V01250313A13.D
Acq: 13 Mar 2025 12:21 pm

Tgt Ion: 94 Resp: 511

Ion	Ratio	Lower	Upper
94	100		
96	5.1	75.4	115.4#

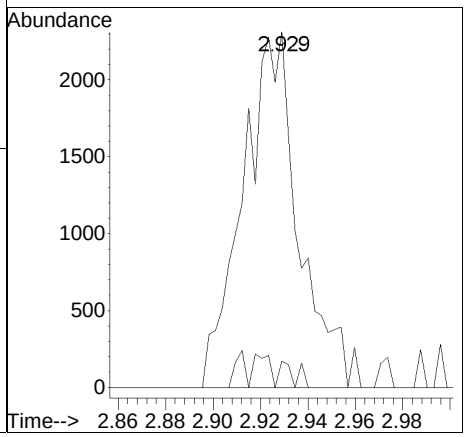


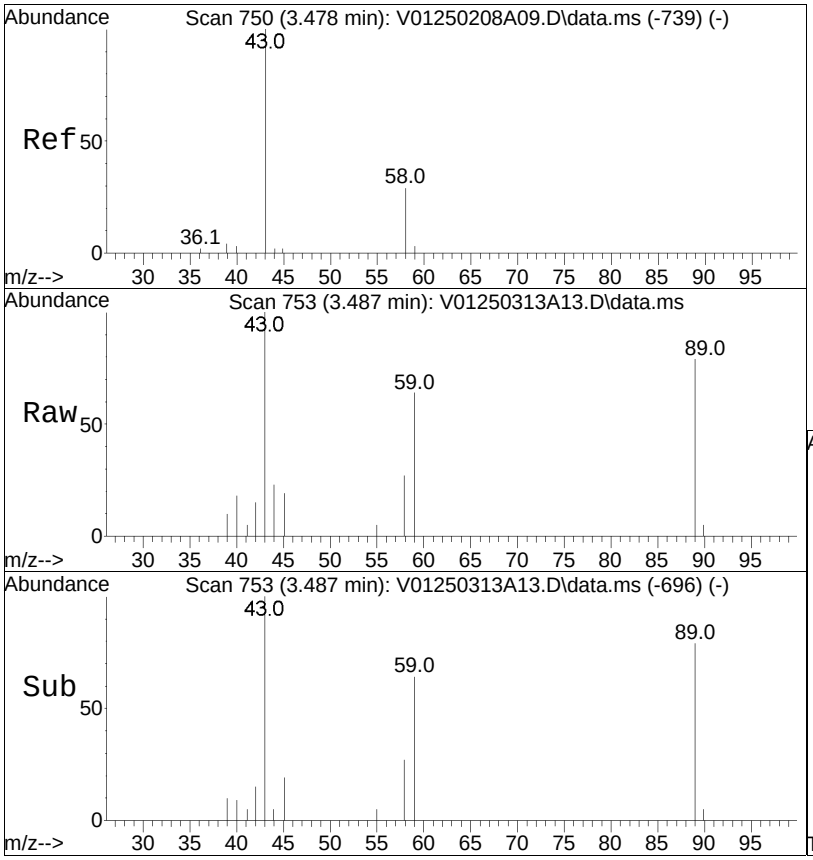


#11
Carbon disulfide
Concen: 0.10 ug/L
RT: 2.929 min Scan# 553
Delta R.T. 0.006 min
Lab File: V01250313A13.D
Acq: 13 Mar 2025 12:21 pm

Tgt Ion: 76 Resp: 3797

Ion	Ratio	Lower	Upper
76	100		
78	2.1	6.3	13.1#

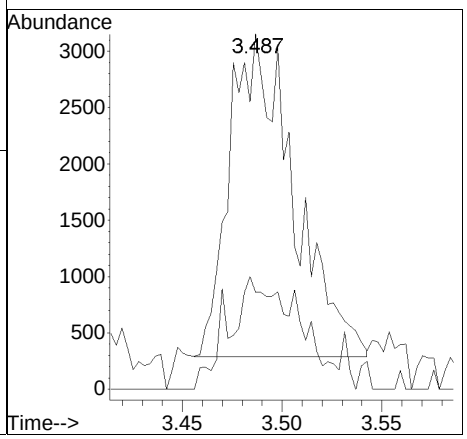




#17
Acetone
Concen: 1.28 ug/L M1
RT: 3.487 min Scan# 753
Delta R.T. 0.009 min
Lab File: V01250313A13.D
Acq: 13 Mar 2025 12:21 pm

Tgt Ion: 43 Resp: 6328

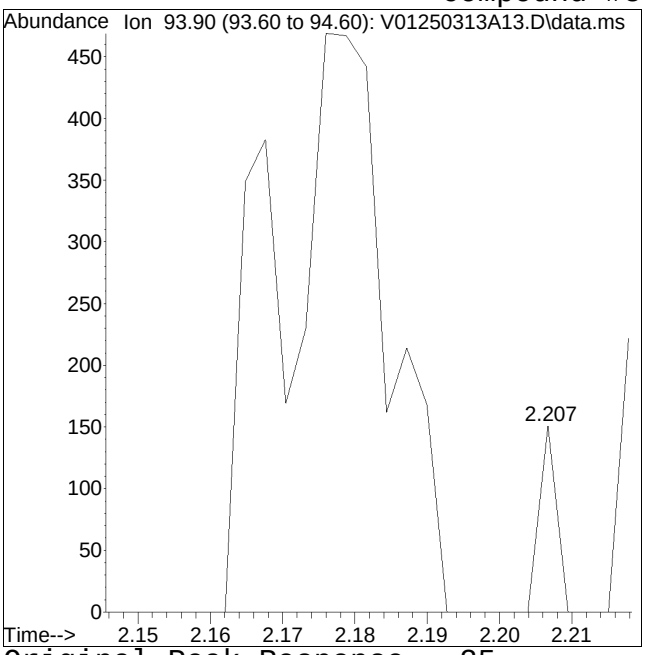
Ion	Ratio	Lower	Upper
43	100		
58	10.9	22.6	33.8#



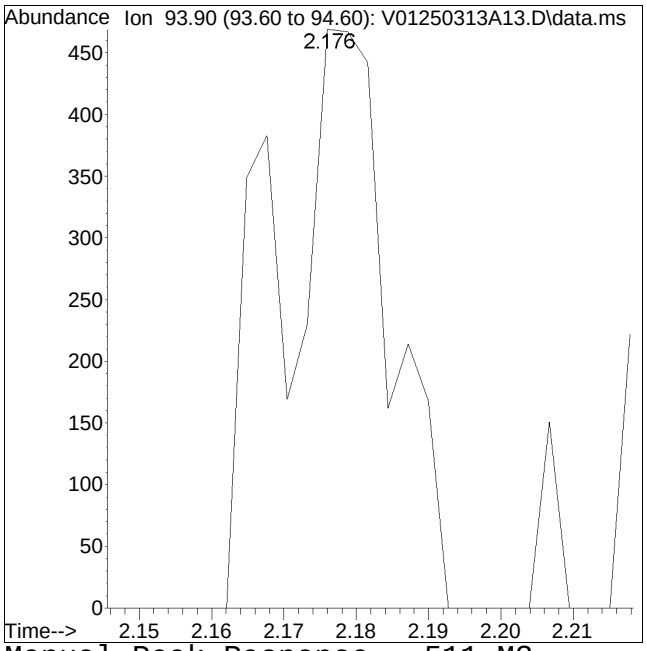
Manual Integration Report

Data Path	: K:\VOA101\2025\250313A\	QMethod	: V101_250208A_8260.m
Data File	: V01250313A13.D	Operator	: VOA101:PID
Date Inj'd	: 3/13/2025 12:21 pm	Instrument	: VOA 101
Sample	: L2512607-07,31,10,10,,A	Quant Date	: 3/13/2025 12:46 pm

Compound #5: Bromomethane



Original Peak Response = 25



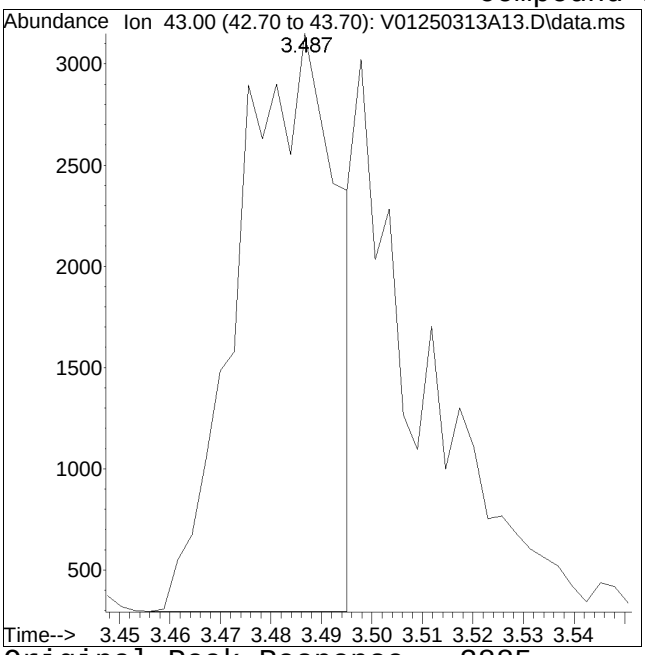
Manual Peak Response = 511 M3

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

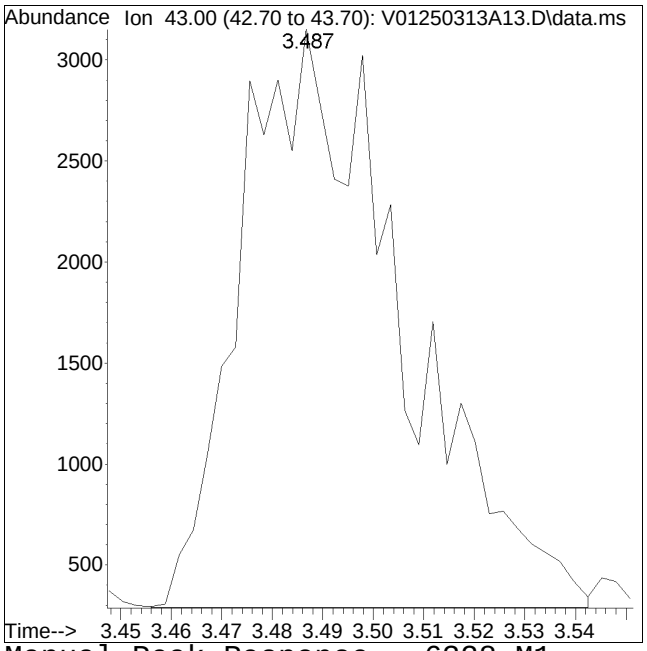
Manual Integration Report

Data Path	: K:\VOA101\2025\250313A\	QMethod	: V101_250208A_8260.m
Data File	: V01250313A13.D	Operator	: VOA101:PID
Date Inj'd	: 3/13/2025 12:21 pm	Instrument	: VOA 101
Sample	: L2512607-07,31,10,10,,A	Quant Date	: 3/13/2025 12:46 pm

Compound #17: Acetone



Original Peak Response = 3885



Manual Peak Response = 6328 M1

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

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2512607**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: VOA101**	**Ical Ref**	**: ICAL21969**
Calibration dates	**: 02/08/25 01:30 02/08/25 05:51**		

Calibration Files
L11 =V01250208A03.D L1 =V01250208A05.D L2 =V01250208A07.D L3 =V01250208A09.D L4 =V01250208A10.D
L6 =V01250208A11.D L8 =V01250208A12.D L10 =V01250208A13.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------									
2)	TP	Dichlorodifluo		0.187	0.259	0.279	0.301	0.281	0.281	0.274	0.266	13.92
3)	TP	Chloromethane		0.503	0.491	0.470	0.494	0.493	0.498	0.497	0.492	2.18
4)	TP	Vinyl chloride	0.274	0.226	0.300	0.310	0.336	0.332	0.353	0.348	0.310	13.86
5)	TP	Bromomethane		0.056	0.051	0.056	0.071	0.085	0.092		*Q	0.9993
6)	TP	Chloroethane		0.138	0.150	0.149	0.156	0.149	0.148	0.143	0.148	3.90
7)	TP	Trichlorofluor		0.232	0.328	0.333	0.359	0.337	0.339	0.333	0.323	12.77
8)	TP	Ethyl ether		0.086	0.078	0.078	0.085	0.082	0.083	0.084	0.082	3.59
10)	TP	1,1-Dichloroet		0.179	0.215	0.216	0.232	0.227	0.229	0.225	0.218	8.26
11)	TP	Carbon disulfide		0.648	0.688	0.696	0.749	0.746	0.761	0.758	0.721	6.05
12)	TP	Freon-113		0.154	0.211	0.230	0.249	0.237	0.238	0.233	0.222	14.44
13)	TP	Iodomethane			0.095	0.112	0.149	0.190	0.222	0.244	*Q	0.9981
14)	TP	Acrolein		0.025	0.028	0.032	0.035	0.035	0.035	0.035	0.032	12.58
15)	TP	Methylene chlo		0.309	0.253	0.251	0.258	0.249	0.250	0.247	0.260	8.51
17)	TP	Acetone		0.188	0.074	0.047	0.048	0.043	0.048	0.041	*L	0.9950
18)	TP	trans-1,2-Dich		0.193	0.250	0.244	0.258	0.251	0.254	0.250	0.243	9.19
19)	TP	Methyl acetate		0.117	0.118	0.123	0.137	0.130	0.131	0.123	0.126	5.91
20)	TP	Methyl tert butyl ether		0.472	0.470	0.491	0.543	0.529	0.531	0.525	0.509	5.95
21)	TP	tert-Butyl alc		0.013	0.011	0.012	0.013	0.013	0.014	0.013	0.013	8.02
22)	TP	Diisopropyl ether		0.935	0.969	1.027	1.095	1.061	1.044	1.017	1.021	5.33
23)	TP	1,1-Dichloroet		0.466	0.518	0.524	0.556	0.535	0.532	0.527	0.523	5.28
24)	TP	Halothane		0.139	0.179	0.182	0.190	0.183	0.185	0.182	0.177	9.67
25)	TP	Acrylonitrile		0.043	0.054	0.060	0.070	0.066	0.065	0.064	0.060	15.20
26)	TP	Ethyl tert-but		0.656	0.685	0.730	0.798	0.782	0.781	0.768	0.743	7.34
27)	TP	Vinyl acetate		0.396	0.442	0.519	0.587	0.568	0.560	0.538	0.516	13.73
28)	TP	cis-1,2-Dichlo		0.246	0.260	0.264	0.280	0.271	0.271	0.272	0.266	4.15
29)	TP	2,2-Dichloropr		0.250	0.310	0.316	0.354	0.338	0.343	0.336	0.321	10.80
30)	TP	Bromochloromet		0.113	0.111	0.109	0.108	0.101	0.099	0.095	0.105	6.55
31)	TP	Cyclohexane		0.341	0.504	0.577	0.636	0.600	0.601	0.588	0.550	18.24
32)	TP	Chloroform		0.397	0.422	0.440	0.454	0.444	0.439	0.430	0.432	4.32
33)	TP	Ethyl acetate		0.121	0.125	0.172	0.196	0.189	0.188	0.180	0.167	18.72
34)	TP	Carbon tetrachloride	0.283	0.213	0.312	0.323	0.358	0.346	0.350	0.336	0.315	15.22
35)	TP	Tetrahydrofuran		0.047	0.051	0.054	0.058	0.053	0.052	0.048	0.052	7.12
36)	S	Dibromofluoromethane	0.251	0.255	0.253	0.253	0.261	0.254	0.255	0.252	0.254	1.14
37)	TP	1,1,1-Trichlor		0.281	0.367	0.380	0.408	0.390	0.388	0.381	0.371	11.16
39)	TP	2-Butanone			0.061	0.068	0.076	0.076	0.075	0.074	0.072	8.40

Initial Calibration Summary
Form 6
Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2512607**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: VOA101**	**Ical Ref**	**: ICAL21969**
Calibration dates	**: 02/08/25 01:30 02/08/25 05:51**		

Calibration Files
L11 =V01250208A03.D L1 =V01250208A05.D L2 =V01250208A07.D L3 =V01250208A09.D L4 =V01250208A10.D
L6 =V01250208A11.D L8 =V01250208A12.D L10 =V01250208A13.D

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
40) TP	1,1-Dichloropr		0.225	0.304	0.335	0.362	0.347	0.348	0.343	0.323	14.49
41) TP	Benzene	0.878	0.836	0.935	0.968	1.016	0.989	0.982	0.966	0.946	6.41
42) TP	Tertiary-Amyl Methyl Ether		0.447	0.444	0.486	0.549	0.543	0.547	0.544	0.509	9.46
43) S	1,2-Dichloroethane-d4	0.291	0.296	0.296	0.288	0.297	0.289	0.289	0.287	0.292	1.39
44) TP	1,2-Dichloroethane	0.307	0.324	0.311	0.317	0.327	0.311	0.304	0.295	0.312	3.39
47) TP	Methyl cyclohe		0.281	0.375	0.439	0.483	0.465	0.469	0.462	0.425	17.07
48) TP	Trichloroethene	0.270	0.231	0.262	0.260	0.277	0.266	0.265	0.260	0.261	5.14
50) TP	Dibromomethane		0.113	0.118	0.121	0.128	0.123	0.121	0.119	0.120	3.66
51) TP	1,2-Dichloropr		0.267	0.283	0.284	0.302	0.298	0.295	0.291	0.289	4.10
54) TP	Bromodichlorom		0.291	0.305	0.318	0.339	0.333	0.331	0.328	0.321	5.39
57) TP	1,4-Dioxane		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001#	15.03
58) TP	cis-1,3-Dichloropropene	0.206	0.247	0.275	0.316	0.364	0.367	0.371	0.369	*Q	0.9995
59) I	Chlorobenzene-d5	----------ISTD----------									
60) S	Toluene-d8	1.318	1.313	1.338	1.335	1.332	1.318	1.335	1.339	1.329	0.79
61) TP	Toluene		0.714	0.778	0.800	0.832	0.822	0.825	0.822	0.799	5.23
62) TP	4-Methyl-2-pen			0.057	0.069	0.084	0.084	0.086	0.084	0.077	15.03
63) TP	Tetrachloroethene	0.276	0.261	0.323	0.331	0.349	0.340	0.343	0.339	0.320	10.36
65) TP	trans-1,3-Dichloropropene	0.232	0.248	0.293	0.348	0.395	0.397	0.406		*Q	0.9994
67) TP	Ethyl methacry			0.178	0.240	0.298	0.301	0.306	0.299	0.270	18.93
68) TP	1,1,2-Trichlor		0.184	0.200	0.202	0.210	0.203	0.202	0.198	0.200	3.97
69) TP	Chlorodibromom		0.233	0.244	0.272	0.296	0.295	0.298	0.296	0.276	9.94
70) TP	1,3-Dichloropr		0.358	0.381	0.415	0.443	0.426	0.425	0.420	0.410	7.23
71) TP	1,2-Dibromoethane		0.179	0.196	0.219	0.236	0.230	0.231	0.228	0.217	9.80
72) TP	2-Hexanone			0.095	0.117	0.145	0.149	0.154	0.149	0.135	17.48
73) TP	Chlorobenzene		0.790	0.870	0.892	0.927	0.911	0.913	0.904	0.887	5.22
74) TP	Ethylbenzene		1.252	1.441	1.589	1.649	1.622	1.630	1.615	1.543	9.45
75) TP	1,1,1,2-Tetrac		0.281	0.290	0.313	0.325	0.322	0.322	0.321	0.311	5.69
76) TP	p/m Xylene		0.439	0.563	0.613	0.640	0.628	0.628	0.611	0.589	11.99
77) TP	o Xylene		0.450	0.540	0.593	0.614	0.601	0.599	0.582	0.568	10.08
78) TP	Styrene		0.609	0.782	0.915	0.962	0.958	0.956	0.918	0.871	15.07
79) I	1,4-Dichlorobenzene-d4	----------ISTD----------									
80) TP	Bromoform		0.240	0.247	0.268	0.296	0.296	0.298	0.304	0.278	9.53
82) TP	Isopropylbenzene		2.038	2.579	2.786	2.940	2.943	2.974	3.034	2.756	12.76
83) S	4-Bromofluorobenzene	0.973	0.988	0.981	0.968	0.971	0.971	0.973	1.008	0.979	1.36
84) TP	Bromobenzene		0.546	0.600	0.626	0.642	0.644	0.641	0.653	0.622	6.02
85) TP	n-Propylbenzene		2.494	3.111	3.310	3.461	3.490	3.505		3.228	12.07

Initial Calibration Summary
Form 6
Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2512607**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: VOA101**	**Ical Ref**	**: ICAL21969**
Calibration dates	**: 02/08/25 01:30 02/08/25 05:51**		

Calibration Files
L11 =V01250208A03.D L1 =V01250208A05.D L2 =V01250208A07.D L3 =V01250208A09.D L4 =V01250208A10.D
L6 =V01250208A11.D L8 =V01250208A12.D L10 =V01250208A13.D

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
86) TP	1,4-Dichlorobu		0.801	0.810	0.845	0.881	0.862	0.856	0.859	0.845	3.43
87) TP	1,1,2,2-Tetrachloroethane	0.419	0.499	0.484	0.489	0.518	0.498	0.500	0.499	0.488	6.06
88) TP	4-Ethyltoluene		2.003	2.498	2.689	2.839	2.871	2.888	2.923	2.673	12.37
89) TP	2-Chlorotoluene		1.666	1.962	1.963	2.027	2.036	2.020	2.094	1.967	7.14
90) TP	1,3,5-Trimethy		1.724	2.128	2.204	2.321	2.351	2.354	2.403	2.212	10.65
91) TP	1,2,3-Trichlor		0.377	0.385	0.380	0.402	0.389	0.386	0.384	0.386	2.13
92) TP	trans-1,4-Dich			0.082	0.097	0.108	0.116	0.120	0.125	0.108	14.97
93) TP	4-Chlorotoluene		1.598	1.834	1.943	2.049	2.072	2.081	2.107	1.955	9.43
94) TP	tert-Butylbenzene		1.410	1.757	1.924	2.035	2.059	2.061	2.100	1.907	13.03
97) TP	1,2,4-Trimethy		1.524	1.930	2.131	2.231	2.272	2.276	2.314	2.097	13.56
98) TP	sec-Butylbenzene		1.834	2.475	2.694	2.861	2.914	2.931	2.946	2.665	15.15
99) TP	p-Isopropyltol		1.545	2.035	2.284	2.447	2.510	2.515	2.538	2.268	16.12
100) TP	1,3-Dichlorobe		0.963	1.084	1.124	1.174	1.187	1.183	1.203	1.131	7.52
101) TP	1,4-Dichlorobe		1.123	1.118	1.123	1.175	1.192	1.185	1.200	1.159	3.13
102) TP	p-Diethylbenzene		0.924	1.106	1.271	1.385	1.424	1.432	1.449	1.284	15.59
103) TP	n-Butylbenzene		1.289	1.611	1.819	1.972	2.016	2.023	2.050	1.826	15.51
104) TP	1,2-Dichlorobe		0.906	0.956	0.990	1.042	1.040	1.035	1.046	1.002	5.40
105) TP	1,2,4,5-Tetram		1.206	1.368	1.683	1.873	1.926	1.935	1.982	1.710	18.01
106) TP	1,2-Dibromo-3-		0.032	0.041	0.052	0.060	0.058	0.060	0.061	*L	0.9993
107) TP	1,3,5-Trichlor		0.524	0.549	0.594	0.647	0.659	0.655	0.672	0.614	9.58
108) TP	Hexachlorobuta		0.187	0.203	0.218	0.236	0.239	0.239	0.249	0.224	10.05
109) TP	1,2,4-Trichlor		0.364	0.404	0.450	0.513	0.524	0.523	0.542	0.474	14.60
110) TP	Naphthalene		0.633	0.664	0.797	0.980	0.974	1.001	1.018	0.867	19.18
111) TP	1,2,3-Trichlor		0.336	0.302	0.344	0.386	0.385	0.388	0.397	0.362#	9.82

Initial Calibration Summary
Form 6
Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2512607**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: ELAINE**	**Ical Ref**	**: ICAL22018**
Calibration dates	**: 02/20/25 23:45 02/21/25 03:46**		

Calibration Files
L11 =VE250220N04.D L1 =VE250220N06.D L2 =VE250220N08.D L3 =VE250220N10.D L4 =VE250220N11.D
L6 =VE250220N12.D L8 =VE250220N13.D L10 =VE250220N14.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------									
2)	TP	Dichlorodifluo		0.172	0.288	0.300	0.279	0.262	0.254	0.247	0.257	16.40
3)	TP	Chloromethane		0.230	0.249	0.263	0.237	0.222	0.213	0.210	0.232	8.28
4)	TP	Vinyl chloride	0.299	0.242	0.351	0.335	0.313	0.296	0.291	0.283	0.301	11.09
5)	TP	Bromomethane		0.214	0.301	0.289	0.268	0.264	0.262	0.263	0.266	10.33
6)	TP	Chloroethane		0.188	0.260	0.262	0.237	0.228	0.221	0.218	0.231	11.16
7)	TP	Trichlorofluor		0.418	0.582	0.590	0.540	0.510	0.505	0.490	0.519	11.32
8)	TP	Ethyl ether		0.125	0.163	0.170	0.162	0.157	0.155	0.152	0.155	9.44
10)	TP	1,1-Dichloroet		0.225	0.309	0.310	0.297	0.281	0.271	0.273	0.281	10.48
11)	TP	Carbon disulfide		0.635	0.883	0.851	0.866	0.802	0.746	0.759	0.792	10.96
12)	TP	Freon-113			0.278	0.284	0.297	0.266	0.243	0.250	0.270	7.73
13)	TP	Iodomethane		0.225	0.284	0.292	0.283	0.278	0.274	0.279	0.273	8.15
14)	TP	Acrolein			0.022	0.022	0.022	0.023	0.023	0.023	0.022	2.96
15)	TP	Methylene chlo		0.255	0.255	0.249	0.230	0.222	0.218	0.220	0.235	7.00
17)	TP	Acetone			0.049	0.038	0.041	0.039	0.036	0.036	0.040	12.18
18)	TP	trans-1,2-Dich		0.197	0.243	0.241	0.222	0.216	0.211	0.213	0.220	7.50
19)	TP	Methyl acetate			0.113	0.106	0.097	0.095	0.094	0.094	0.100	8.05
21)	TP	Methyl tert butyl ether		0.423	0.489	0.519	0.539	0.559	0.551	0.555	0.519	9.43
22)	TP	tert-Butyl alc			0.007	0.010	0.010	0.010	0.010	0.009	0.009#	12.17
24)	TP	Diisopropyl ether		0.479	0.558	0.583	0.576	0.599	0.595	0.609	0.571	7.74
25)	TP	1,1-Dichloroet		0.391	0.456	0.441	0.413	0.391	0.378	0.380	0.407	7.57
26)	TP	Halothane		0.115	0.179	0.182	0.172	0.166	0.162	0.163	0.163	13.84
27)	TP	Acrylonitrile			0.052	0.055	0.051	0.050	0.048	0.050	0.051	5.22
28)	TP	Ethyl tert-but		0.432	0.519	0.544	0.555	0.596	0.603	0.630	0.554	11.94
29)	TP	Vinyl acetate			0.346	0.382	0.415	0.410	0.444	0.431	0.405	8.81
30)	TP	cis-1,2-Dichlo		0.235	0.287	0.279	0.259	0.249	0.243	0.244	0.257	7.60
31)	TP	2,2-Dichloropr		0.295	0.377	0.359	0.352	0.336	0.322	0.321	0.337	8.14
33)	TP	Bromochloromet		0.108	0.128	0.127	0.117	0.114	0.111	0.115	0.117	6.70
34)	TP	Cyclohexane		0.281	0.387	0.429	0.410	0.388	0.379	0.376	0.378	12.40
35)	TP	Chloroform		0.388	0.455	0.437	0.404	0.386	0.372	0.380	0.403	7.76
36)	TP	Ethyl acetate			0.118	0.131	0.137	0.140	0.136	0.135	0.133	5.81
37)	TP	Carbon tetrachloride	0.256	0.223	0.316	0.331	0.326	0.314	0.304	0.317	0.298	12.75
38)	TP	Tetrahydrofuran			0.044	0.046	0.042	0.040	0.039	0.041	0.042	6.02
39)	S	Dibromofluoromethane	0.301	0.300	0.285	0.282	0.266	0.255	0.247	0.248	0.273	8.04
40)	TP	1,1,1-Trichlor		0.243	0.358	0.374	0.356	0.335	0.326	0.329	0.332	12.85
42)	TP	2-Butanone			0.052	0.055	0.058	0.059	0.055	0.056	0.056	4.70

Initial Calibration Summary
Form 6
Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2512607**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: ELAINE**	**Ical Ref**	**: ICAL22018**
Calibration dates	**: 02/20/25 23:45 02/21/25 03:46**		

Calibration Files
L11 =VE250220N04.D L1 =VE250220N06.D L2 =VE250220N08.D L3 =VE250220N10.D L4 =VE250220N11.D
L6 =VE250220N12.D L8 =VE250220N13.D L10 =VE250220N14.D

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
43) TP	1,1-Dichloropr		0.205	0.271	0.284	0.290	0.283	0.275	0.277	0.269	10.84
45) TP	Benzene	0.921	0.740	0.889	0.905	0.906	0.908	0.902	0.930	0.888	6.86
46) TP	Tertiary-Amyl Methyl Ether		0.469	0.492	0.518	0.517	0.545	0.551	0.577	0.524	7.02
47) S	1,2-Dichloroethane-d4	0.304	0.300	0.301	0.299	0.289	0.266	0.275	0.278	0.289	4.98
48) T	1,2-Dichloroethane	0.265	0.290	0.298	0.299	0.280	0.273	0.268	0.270	0.280	4.86
51) TP	Methyl cyclohe		0.255	0.386	0.415	0.411	0.419	0.428	0.445	0.394	16.21
52) TP	Trichloroethene	0.160	0.159	0.213	0.227	0.233	0.239	0.236	0.256	0.215	16.99
54) TP	Dibromomethane		0.127	0.143	0.143	0.135	0.133	0.130	0.133	0.135	4.53
55) TP	1,2-Dichloropr		0.150	0.207	0.224	0.224	0.223	0.217	0.218	0.209	12.84
57) TP	2-Chloroethyl		0.063	0.067	0.089	0.093	0.100	0.099	0.101	0.087	18.08
58) TP	Bromodichlorom		0.253	0.293	0.315	0.318	0.311	0.304	0.309	0.300	7.48
61) TP	1,4-Dioxane		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001#	11.82
62) TP	cis-1,3-Dichloropropene	0.218	0.241	0.310	0.341	0.367	0.375	0.370	0.378	0.325	19.48
63) I	Chlorobenzene-d5	----------ISTD----------									
64) S	Toluene-d8	1.375	1.381	1.352	1.353	1.332	1.298	1.269	1.226	1.323	4.12
65) TP	Toluene		0.652	0.749	0.792	0.756	0.760	0.753	0.773	0.748	6.00
66) TP	4-Methyl-2-pen			0.060	0.063	0.065	0.065	0.065	0.064	0.064	3.59
67) TP	Tetrachloroethene	0.266	0.232	0.289	0.302	0.300	0.300	0.300	0.312	0.288	9.09
69) TP	trans-1,3-Dichloropropene	0.286	0.253	0.318	0.362	0.404	0.426	0.420	0.424	0.362	18.89
71) TP	Ethyl methacry		0.172	0.229	0.279	0.278	0.275	0.277	0.278	0.255	16.05
72) TP	1,1,2-Trichlor		0.146	0.172	0.187	0.194	0.204	0.203	0.208	0.188#	11.86
73) TP	Chlorodibromom		0.182	0.210	0.253	0.280	0.300	0.300	0.305	0.261	18.59
74) TP	1,3-Dichloropr		0.295	0.369	0.396	0.412	0.422	0.414	0.410	0.388	11.51
75) TP	1,2-Dibromoethane		0.153	0.194	0.222	0.229	0.237	0.234	0.235	0.215	14.48
77) TP	2-Hexanone		0.069	0.092	0.109	0.112	0.112	0.108	0.108	0.102	15.65
78) TP	Chlorobenzene		0.740	0.854	0.883	0.863	0.865	0.864	0.888	0.851	5.92
79) TP	Ethylbenzene		1.195	1.460	1.547	1.565	1.559	1.555	1.600	1.497	9.34
80) TP	1,1,1,2-Tetrac		0.197	0.239	0.258	0.273	0.291	0.293	0.306	0.265	14.22
81) TP	p/m Xylene		0.452	0.574	0.596	0.616	0.639	0.665	0.745	0.613	14.67
82) TP	o Xylene		0.436	0.562	0.586	0.607	0.651	0.678	0.748	0.610	16.18
83) TP	Styrene		0.729	0.897	0.974	1.044	1.142	1.182	1.302	1.039	18.45
84) I	1,4-Dichlorobenzene-d4	----------ISTD----------									
85) TP	Bromoform		0.163	0.206	0.263	0.286	0.314	0.325	0.339	*Q	0.9996
87) TP	Isopropylbenzene		2.052	2.741	2.957	2.936	2.875	2.892	2.855	2.758	11.57
88) S	4-Bromofluorobenzene	0.835	0.818	0.826	0.855	0.819	0.768	0.761	0.719	0.800	5.71
89) TP	Bromobenzene		0.524	0.632	0.665	0.635	0.615	0.622	0.615	0.615	7.11

Initial Calibration Summary
Form 6
Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2512607**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: ELAINE**	**Ical Ref**	**: ICAL22018**
Calibration dates	**: 02/20/25 23:45 02/21/25 03:46**		

Calibration Files
L11 =VE250220N04.D L1 =VE250220N06.D L2 =VE250220N08.D L3 =VE250220N10.D L4 =VE250220N11.D
L6 =VE250220N12.D L8 =VE250220N13.D L10 =VE250220N14.D

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
90) TP	n-Propylbenzene		2.524	3.335	3.548	3.498	3.438	3.489	3.441	3.325	10.80
91) TP	1,4-Dichlorobu		0.572	0.622	0.675	0.627	0.598	0.589	0.570	0.607	6.15
92) TP	1,1,2,2-Tetrachloroethane	0.359	0.484	0.484	0.522	0.500	0.472	0.476	0.452	0.469	10.39
93) TP	4-Ethyltoluene		2.109	2.792	2.980	2.903	2.808	2.841	2.806	2.748	10.55
94) TP	2-Chlorotoluene		1.567	1.903	2.008	2.031	1.890	1.933	1.875	1.887	8.10
95) TP	1,3,5-Trimethy		1.881	2.415	2.558	2.557	2.524	2.582	2.630	2.450	10.59
96) TP	1,2,3-Trichlor		0.348	0.390	0.433	0.400	0.398	0.401	0.404	0.396	6.40
97) TP	trans-1,4-Dich			0.126	0.140	0.142	0.138	0.137	0.128	0.135	4.89
98) TP	4-Chlorotoluene		1.671	1.982	2.073	2.015	1.963	2.002	1.999	1.958	6.70
99) TP	tert-Butylbenzene		1.533	2.026	2.148	2.139	2.119	2.157	2.170	2.042	11.23
102) TP	1,2,4-Trimethy		1.742	2.286	2.503	2.536	2.563	2.573	2.583	2.398	12.80
103) TP	sec-Butylbenzene		2.345	2.992	3.259	3.285	3.242	3.278	3.267	3.096	11.20
104) TP	p-Isopropyltol		1.987	2.599	2.810	2.853	2.870	2.891	2.989	2.714	12.59
105) TP	1,3-Dichlorobe		1.237	1.314	1.364	1.351	1.352	1.362	1.392	1.339	3.77
106) TP	1,4-Dichlorobe		1.171	1.306	1.382	1.355	1.344	1.355	1.413	1.332	5.89
107) TP	p-Diethylbenzene		1.053	1.474	1.675	1.716	1.727	1.765	1.850	1.609	16.82
108) TP	n-Butylbenzene		1.566	2.261	2.433	2.538	2.507	2.475	2.517	2.328	14.98
109) TP	1,2-Dichlorobe		1.178	1.233	1.301	1.262	1.258	1.261	1.312	1.258	3.54
110) TP	1,2,4,5-Tetram		1.774	2.281	2.530	2.598	2.731	2.926	2.926	2.538	16.02
111) TP	1,2-Dibromo-3-		0.029	0.052	0.074	0.076	0.075	0.077	0.074	*L	0.9994
112) TP	1,3,5-Trichlor		0.759	0.886	0.924	0.943	0.933	0.993	1.009	0.921	8.97
113) TP	Hexachlorobuta		0.155	0.255	0.265	0.265	0.246	0.256	0.255	0.243	16.11
114) TP	1,2,4-Trichlor		0.702	0.743	0.820	0.813	0.799	0.827	0.847	0.793	6.52
115) TP	Naphthalene		1.702	1.794	1.965	1.941	1.957	1.955	1.895	1.887	5.37
116) TP	1,2,3-Trichlor		0.670	0.706	0.743	0.735	0.738	0.747	0.754	0.727	4.08

Response Factor Report VOA 101

Method Path : K:\VOA101\2025\250208AICAL\
Method File : V101_250208A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed Feb 12 10:30:07 2025
Response Via : Initial Calibration

Calibration Files
L11 =V01250208A03.D L1 =V01250208A05.D L2 =V01250208A07.D L3 =V01250208A09.D L4 =V01250208A10.D
L6 =V01250208A11.D L8 =V01250208A12.D L10 =V01250208A13.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	ISTD									
2)	TP	Dichlorodifluo...		0.187	0.259	0.279	0.301	0.281	0.281	0.274	0.266	13.92
3)	TP	Chloromethane		0.503	0.491	0.470	0.494	0.493	0.498	0.497	0.492	2.18
4)	TP	Vinyl chloride	0.274	0.226	0.300	0.310	0.336	0.332	0.353	0.348	0.310	13.86
5)	TP	Bromomethane		0.056	0.051	0.056	0.071	0.085	0.092		*Q	0.9993
6)	TP	Chloroethane		0.138	0.150	0.149	0.156	0.149	0.148	0.143	0.148	3.90
7)	TP	Trichlorofluor...		0.232	0.328	0.333	0.359	0.337	0.339	0.333	0.323	12.77
8)	TP	Ethyl ether		0.086	0.078	0.078	0.085	0.082	0.083	0.084	0.082	3.59
10)	TP	1,1-Dichloroet...		0.179	0.215	0.216	0.232	0.227	0.229	0.225	0.218	8.26
11)	TP	Carbon disulfide		0.648	0.688	0.696	0.749	0.746	0.761	0.758	0.721	6.05
12)	TP	Freon-113		0.154	0.211	0.230	0.249	0.237	0.238	0.233	0.222	14.44
13)	TP	Iodomethane			0.095	0.112	0.149	0.190	0.222	0.244	*Q	0.9981
14)	TP	Acrolein		0.025	0.028	0.032	0.035	0.035	0.035	0.035	0.032	12.58
15)	TP	Methylene chlo...		0.309	0.253	0.251	0.258	0.249	0.250	0.247	0.260	8.51
17)	TP	Acetone		0.188	0.074	0.047	0.048	0.043	0.048	0.041	*L	0.9950
18)	TP	trans-1,2-Dich...		0.193	0.250	0.244	0.258	0.251	0.254	0.250	0.243	9.19
19)	TP	Methyl acetate		0.117	0.118	0.123	0.137	0.130	0.131	0.123	0.126	5.91
20)	TP	Methyl tert-bu...		0.472	0.470	0.491	0.543	0.529	0.531	0.525	0.509	5.95
21)	TP	tert-Butyl alc...		0.013	0.011	0.012	0.013	0.013	0.014	0.013	0.013	8.02
22)	TP	Diisopropyl ether		0.935	0.969	1.027	1.095	1.061	1.044	1.017	1.021	5.33
23)	TP	1,1-Dichloroet...		0.466	0.518	0.524	0.556	0.535	0.532	0.527	0.523	5.28
24)	TP	Halothane		0.139	0.179	0.182	0.190	0.183	0.185	0.182	0.177	9.67
25)	TP	Acrylonitrile		0.043	0.054	0.060	0.070	0.066	0.065	0.064	0.060	15.20
26)	TP	Ethyl tert-but...		0.656	0.685	0.730	0.798	0.782	0.781	0.768	0.743	7.34
27)	TP	Vinyl acetate		0.396	0.442	0.519	0.587	0.568	0.560	0.538	0.516	13.73
28)	TP	cis-1,2-Dichlo...		0.246	0.260	0.264	0.280	0.271	0.271	0.272	0.266	4.15
29)	TP	2,2-Dichloropr...		0.250	0.310	0.316	0.354	0.338	0.343	0.336	0.321	10.80
30)	TP	Bromochloromet...		0.113	0.111	0.109	0.108	0.101	0.099	0.095	0.105	6.55
31)	TP	Cyclohexane		0.341	0.504	0.577	0.636	0.600	0.601	0.588	0.550	18.24
32)	TP	Chloroform		0.397	0.422	0.440	0.454	0.444	0.439	0.430	0.432	4.32
33)	TP	Ethyl acetate		0.121	0.125	0.172	0.196	0.189	0.188	0.180	0.167	18.72

Method Path : K:\VOA101\2025\250208AICAL\
Method File : V101_250208A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed Feb 12 10:30:07 2025
Response Via : Initial Calibration

Calibration Files
L11 =V01250208A03.D L1 =V01250208A05.D L2 =V01250208A07.D L3 =V01250208A09.D L4 =V01250208A10.D
L6 =V01250208A11.D L8 =V01250208A12.D L10 =V01250208A13.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
34)	TP	Carbon tetrach...	0.283	0.213	0.312	0.323	0.358	0.346	0.350	0.336	0.315	15.22
35)	TP	Tetrahydrofuran		0.047	0.051	0.054	0.058	0.053	0.052	0.048	0.052	7.12
36)	S	Dibromofluorom...	0.251	0.255	0.253	0.253	0.261	0.254	0.255	0.252	0.254	1.14
37)	TP	1,1,1-Trichlor...		0.281	0.367	0.380	0.408	0.390	0.388	0.381	0.371	11.16
39)	TP	2-Butanone			0.061	0.068	0.076	0.076	0.075	0.074	0.072	8.40
40)	TP	1,1-Dichloropr...		0.225	0.304	0.335	0.362	0.347	0.348	0.343	0.323	14.49
41)	TP	Benzene	0.878	0.836	0.935	0.968	1.016	0.989	0.982	0.966	0.946	6.41
42)	TP	tert-Amyl meth...		0.447	0.444	0.486	0.549	0.543	0.547	0.544	0.509	9.46
43)	S	1,2-Dichloroet...	0.291	0.296	0.296	0.288	0.297	0.289	0.289	0.287	0.292	1.39
44)	TP	1,2-Dichloroet...	0.307	0.324	0.311	0.317	0.327	0.311	0.304	0.295	0.312	3.39
47)	TP	Methyl cyclohe...		0.281	0.375	0.439	0.483	0.465	0.469	0.462	0.425	17.07
48)	TP	Trichloroethene	0.270	0.231	0.262	0.260	0.277	0.266	0.265	0.260	0.261	5.14
50)	TP	Dibromomethane		0.113	0.118	0.121	0.128	0.123	0.121	0.119	0.120	3.66
51)	TP	1,2-Dichloropr...		0.267	0.283	0.284	0.302	0.298	0.295	0.291	0.289	4.10
54)	TP	Bromodichlorom...		0.291	0.305	0.318	0.339	0.333	0.331	0.328	0.321	5.39
57)	TP	1,4-Dioxane		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001#	15.03
58)	TP	cis-1,3-Dichlo...	0.206	0.247	0.275	0.316	0.364	0.367	0.371	0.369	*Q	0.9995
59)	I	Chlorobenzene-d5	----------ISTD----------									
60)	S	Toluene-d8	1.318	1.313	1.338	1.335	1.332	1.318	1.335	1.339	1.329	0.79
61)	TP	Toluene		0.714	0.778	0.800	0.832	0.822	0.825	0.822	0.799	5.23
62)	TP	4-Methyl-2-pen...			0.057	0.069	0.084	0.084	0.086	0.084	0.077	15.03
63)	TP	Tetrachloroethene	0.276	0.261	0.323	0.331	0.349	0.340	0.343	0.339	0.320	10.36
65)	TP	trans-1,3-Dich...	0.232	0.248	0.293	0.348	0.395	0.397	0.406		*Q	0.9994
67)	TP	Ethyl methacry...			0.178	0.240	0.298	0.301	0.306	0.299	0.270	18.93
68)	TP	1,1,2-Trichlor...		0.184	0.200	0.202	0.210	0.203	0.202	0.198	0.200	3.97
69)	TP	Chlorodibromom...		0.233	0.244	0.272	0.296	0.295	0.298	0.296	0.276	9.94
70)	TP	1,3-Dichloropr...		0.358	0.381	0.415	0.443	0.426	0.425	0.420	0.410	7.23
71)	TP	1,2-Dibromoethane		0.179	0.196	0.219	0.236	0.230	0.231	0.228	0.217	9.80
72)	TP	2-Hexanone			0.095	0.117	0.145	0.149	0.154	0.149	0.135	17.48
73)	TP	Chlorobenzene		0.790	0.870	0.892	0.927	0.911	0.913	0.904	0.887	5.22
74)	TP	Ethylbenzene		1.252	1.441	1.589	1.649	1.622	1.630	1.615	1.543	9.45

Method Path : K:\VOA101\2025\250208AICAL\
Method File : V101_250208A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed Feb 12 10:30:07 2025
Response Via : Initial Calibration

Calibration Files
L11 =V01250208A03.D L1 =V01250208A05.D L2 =V01250208A07.D L3 =V01250208A09.D L4 =V01250208A10.D
L6 =V01250208A11.D L8 =V01250208A12.D L10 =V01250208A13.D

		Compound		L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
75)	TP	1,1,1,2-Tetrac...		0.281	0.290	0.313	0.325	0.322	0.322	0.321	0.311		5.69
76)	TP	p/m Xylene		0.439	0.563	0.613	0.640	0.628	0.628	0.611	0.589		11.99
77)	TP	o Xylene		0.450	0.540	0.593	0.614	0.601	0.599	0.582	0.568		10.08
78)	TP	Styrene		0.609	0.782	0.915	0.962	0.958	0.956	0.918	0.871		15.07
79)	I	1,4-Dichlorobenzene-d4	----------ISTD----------										
80)	TP	Bromoform		0.240	0.247	0.268	0.296	0.296	0.298	0.304	0.278		9.53
82)	TP	Isopropylbenzene		2.038	2.579	2.786	2.940	2.943	2.974	3.034	2.756		12.76
83)	S	4-Bromofluorob...	0.973	0.988	0.981	0.968	0.971	0.971	0.973	1.008	0.979		1.36
84)	TP	Bromobenzene		0.546	0.600	0.626	0.642	0.644	0.641	0.653	0.622		6.02
85)	TP	n-Propylbenzene		2.494	3.111	3.310	3.461	3.490	3.505		3.228		12.07
86)	TP	1,4-Dichlorobu...		0.801	0.810	0.845	0.881	0.862	0.856	0.859	0.845		3.43
87)	TP	1,1,2,2-Tetrac...	0.419	0.499	0.484	0.489	0.518	0.498	0.500	0.499	0.488		6.06
88)	TP	4-Ethyltoluene		2.003	2.498	2.689	2.839	2.871	2.888	2.923	2.673		12.37
89)	TP	2-Chlorotoluene		1.666	1.962	1.963	2.027	2.036	2.020	2.094	1.967		7.14
90)	TP	1,3,5-Trimethy...		1.724	2.128	2.204	2.321	2.351	2.354	2.403	2.212		10.65
91)	TP	1,2,3-Trichlor...		0.377	0.385	0.380	0.402	0.389	0.386	0.384	0.386		2.13
92)	TP	trans-1,4-Dich...			0.082	0.097	0.108	0.116	0.120	0.125	0.108		14.97
93)	TP	4-Chlorotoluene		1.598	1.834	1.943	2.049	2.072	2.081	2.107	1.955		9.43
94)	TP	tert-Butylbenzene		1.410	1.757	1.924	2.035	2.059	2.061	2.100	1.907		13.03
97)	TP	1,2,4-Trimethy...		1.524	1.930	2.131	2.231	2.272	2.276	2.314	2.097		13.56
98)	TP	sec-Butylbenzene		1.834	2.475	2.694	2.861	2.914	2.931	2.946	2.665		15.15
99)	TP	p-Isopropyltol...		1.545	2.035	2.284	2.447	2.510	2.515	2.538	2.268		16.12
100)	TP	1,3-Dichlorobe...		0.963	1.084	1.124	1.174	1.187	1.183	1.203	1.131		7.52
101)	TP	1,4-Dichlorobe...		1.123	1.118	1.123	1.175	1.192	1.185	1.200	1.159		3.13
102)	TP	p-Diethylbenzene		0.924	1.106	1.271	1.385	1.424	1.432	1.449	1.284		15.59
103)	TP	n-Butylbenzene		1.289	1.611	1.819	1.972	2.016	2.023	2.050	1.826		15.51
104)	TP	1,2-Dichlorobe...		0.906	0.956	0.990	1.042	1.040	1.035	1.046	1.002		5.40
105)	TP	1,2,4,5-Tetram...		1.206	1.368	1.683	1.873	1.926	1.935	1.982	1.710		18.01
106)	TP	1,2-Dibromo-3-...		0.032	0.041	0.052	0.060	0.058	0.060	0.061	*L		0.9993
107)	TP	1,3,5-Trichlor...		0.524	0.549	0.594	0.647	0.659	0.655	0.672	0.614		9.58
108)	TP	Hexachlorobuta...		0.187	0.203	0.218	0.236	0.239	0.239	0.249	0.224		10.05

Method Path : K:\VOA101\2025\250208AICAL\
Method File : V101_250208A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed Feb 12 10:30:07 2025
Response Via : Initial Calibration

Calibration Files
L11 =V01250208A03.D L1 =V01250208A05.D L2 =V01250208A07.D L3 =V01250208A09.D L4 =V01250208A10.D
L6 =V01250208A11.D L8 =V01250208A12.D L10 =V01250208A13.D

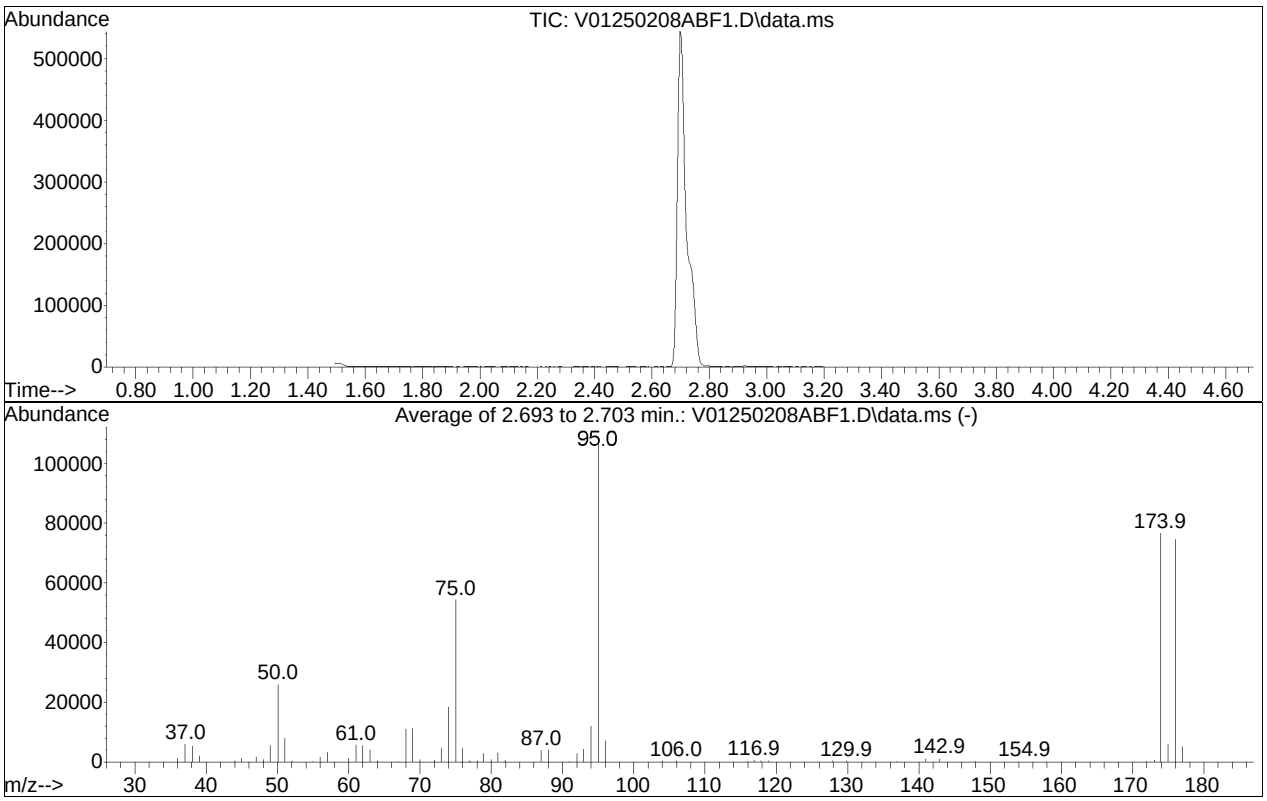
	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
109)	TP 1,2,4-Trichlor...	0.364	0.404	0.450	0.513	0.524	0.523	0.542	0.474	14.60	
110)	TP Naphthalene	0.633	0.664	0.797	0.980	0.974	1.001	1.018	0.867	19.18	
111)	TP 1,2,3-Trichlor...	0.336	0.302	0.344	0.386	0.385	0.388	0.397	0.362#	9.82	

(#) = Out of Range

Data Path : K:\VOA101\2025\250208AICAL\
Data File : V01250208ABF1.D
Acq On : 8 Feb 2025 12:11 am
Operator : VOA101:TMS
Sample : WG2028963-1
Misc : WG2028963
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\VOA101\2025\250208AICAL\V101_250208A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Tue Feb 11 09:15:10 2025



AutoFind: Scans 230, 231, 232; Background Corrected with Scan 222

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.3	26037	PASS
75	95	30	60	50.8	54288	PASS
95	95	100	100	100.0	106957	PASS
96	95	5	9	6.7	7197	PASS
173	174	0.00	2	0.8	588	PASS
174	95	50	100	71.7	76640	PASS
175	174	5	9	7.7	5936	PASS
176	174	95	101	97.3	74541	PASS
177	176	5	9	6.8	5043	PASS

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2025\250208AICAL\
Data File : V01250208A03.D
Acq On : 8 Feb 2025 1:30 am
Operator : VOA101:PID
Sample : I8260STD0.19PPB
Misc : WG2028963,ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 11 09:14:55 2025
Quant Method : K:\VOA101\2025\250208AICAL\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Feb 11 09:13:57 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2025\250208AICAL\V01250208A09.D
Sub List : 8260-L11_NJnew - L11 new NJ

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.896	96	565370	10.000	ug/L	0.00
Standard Area 1 = 578930			Recovery =	97.66%		
59) Chlorobenzene-d5	9.413	117	419982	10.000	ug/L	0.00
Standard Area 1 = 424320			Recovery =	98.98%		
79) 1,4-Dichlorobenzene-d4	12.143	152	219682	10.000	ug/L	0.00
Standard Area 1 = 231124			Recovery =	95.05%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.099	113	141961	9.877	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.77%		
43) 1,2-Dichloroethane-d4	5.617	65	164789	9.995	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.95%		
60) Toluene-d8	7.575	98	553566	9.921	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.21%		
83) 4-Bromofluorobenzene	10.924	95	213830	9.942	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.42%		
Target Compounds						Qvalue
4) Vinyl chloride	1.872	62	2944	0.168	ug/L	78
34) Carbon tetrachloride	5.062	117	3042	0.171	ug/L #	17
41) Benzene	5.489	78	9429	0.176	ug/L #	89
44) 1,2-Dichloroethane	5.690	62	3300	0.187	ug/L	69
48) Trichloroethene	6.083	95	2902M1	0.196	ug/L	
58) cis-1,3-Dichloropropene	7.394	75	2209M1	0.118	ug/L	
63) Tetrachloroethene	8.088	166	2199M3	0.160	ug/L	
65) trans-1,3-Dichloropropene	8.155	75	1854M3	0.124	ug/L	
87) 1,1,2,2-Tetrachloroethane	11.172	83	1750	0.160	ug/L #	54

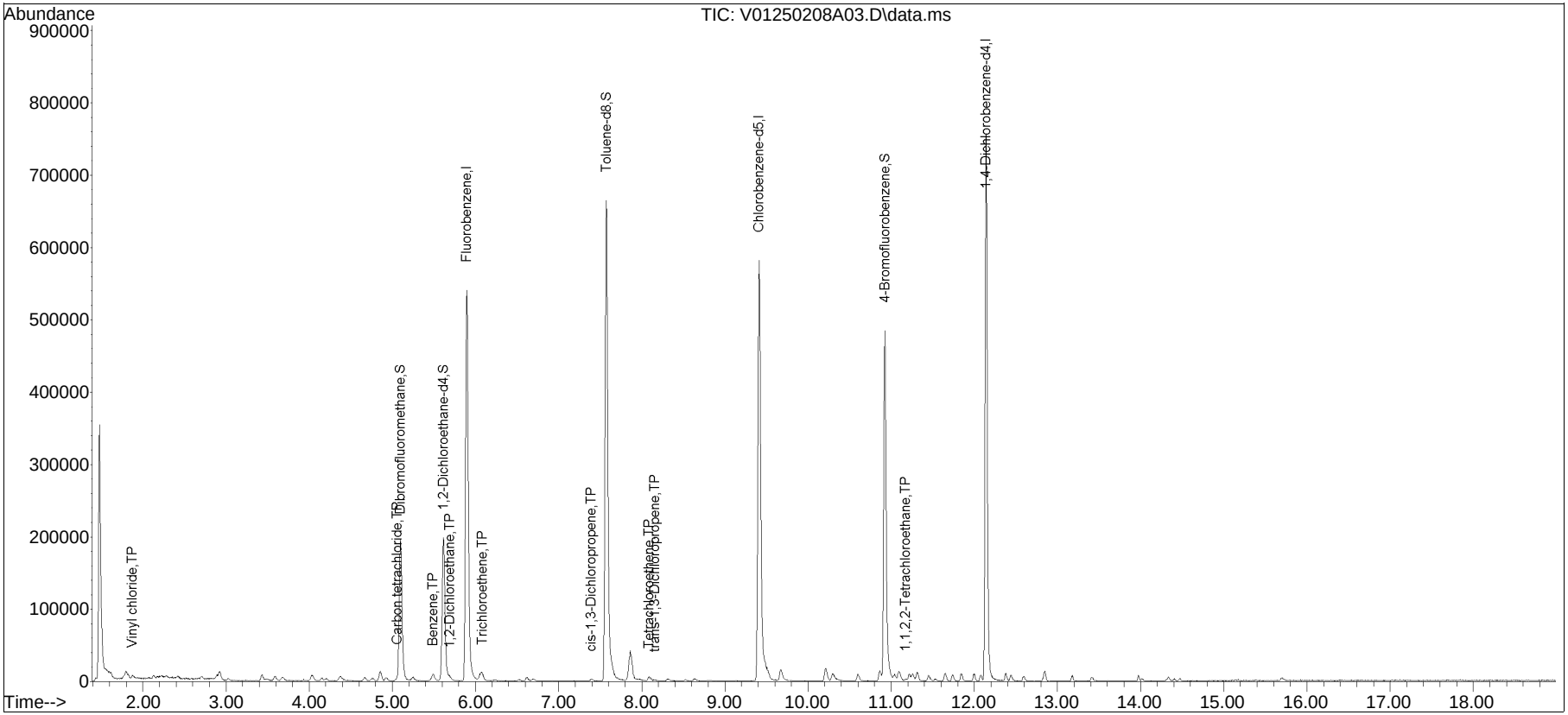
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2025\250208AICAL\
Data File : V01250208A03.D
Acq On : 8 Feb 2025 1:30 am
Operator : VOA101:PID
Sample : I8260STD0.19PPB
Misc : WG2028963,ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 11 09:14:55 2025
Quant Method : K:\VOA101\2025\250208AICAL\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Feb 11 09:13:57 2025
Response via : Initial Calibration

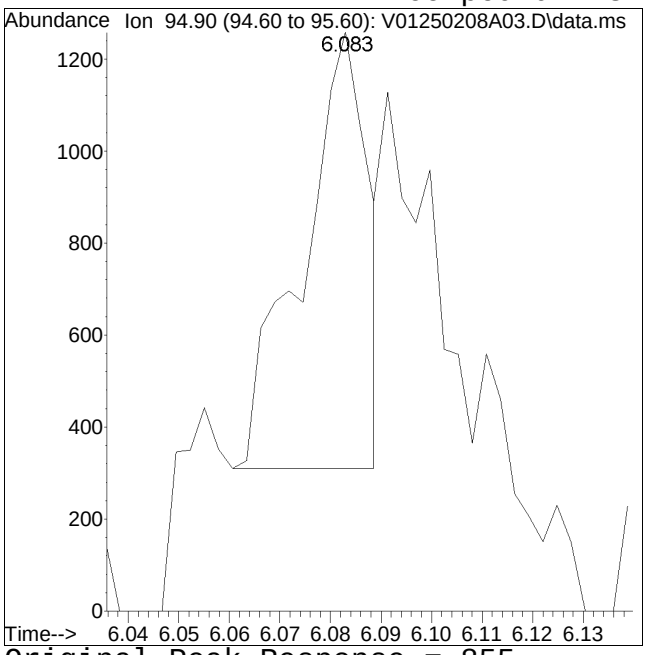
Sub List : 8260-L11_NJnew - L11 new NJCAL\V01250208A09.D•

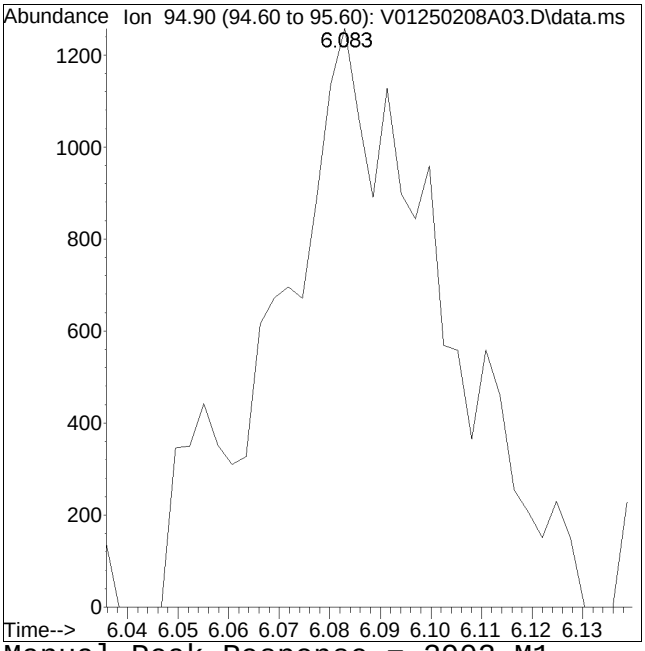


Manual Integration Report

Data Path : K:\VOA101\2025\250208AICALQMethod : V101_250208A_8260.m
Data File : V01250208A03.D Operator : VOA101:PID
Date Inj'd : 2/8/2025 1:30 am Instrument : VOA 101
Sample : I8260STD0.19PPB Quant Date : 2/11/2025 9:14 am

Compound #48: Trichloroethene





Original Peak Response = 855 Manual Peak Response = 2902 M1

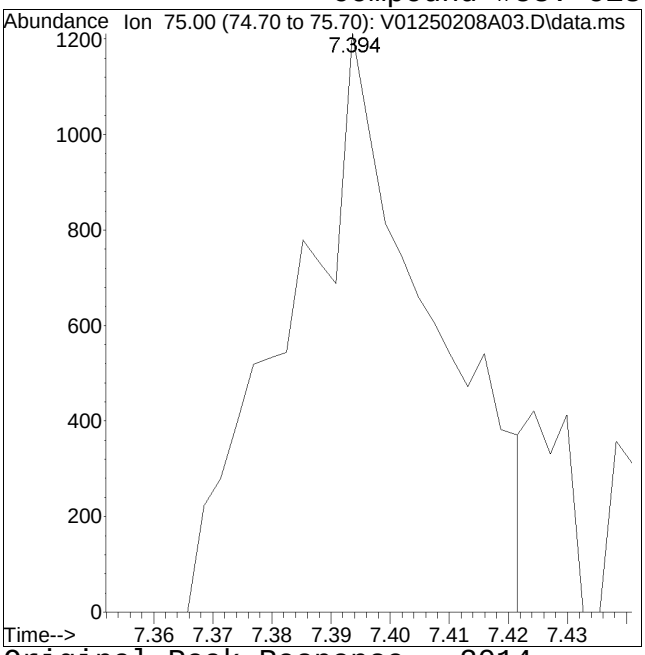
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

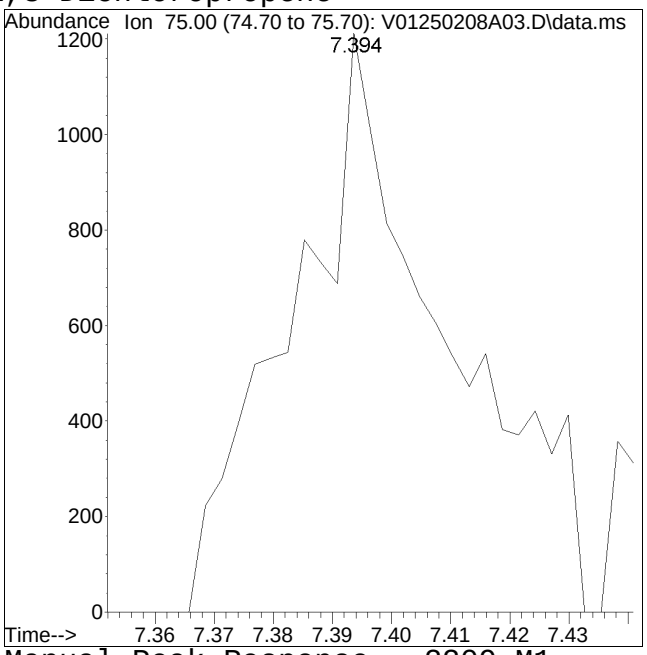
Data Path : K:\VOA101\2025\250208AICALQ
Data File : V01250208A03.D
Date Inj'd : 2/8/2025 1:30 am
Sample : I8260STD0.19PPB

Method : V101_250208A_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 2/11/2025 9:14 am

Compound #58: cis-1,3-Dichloropropene



Original Peak Response = 2014



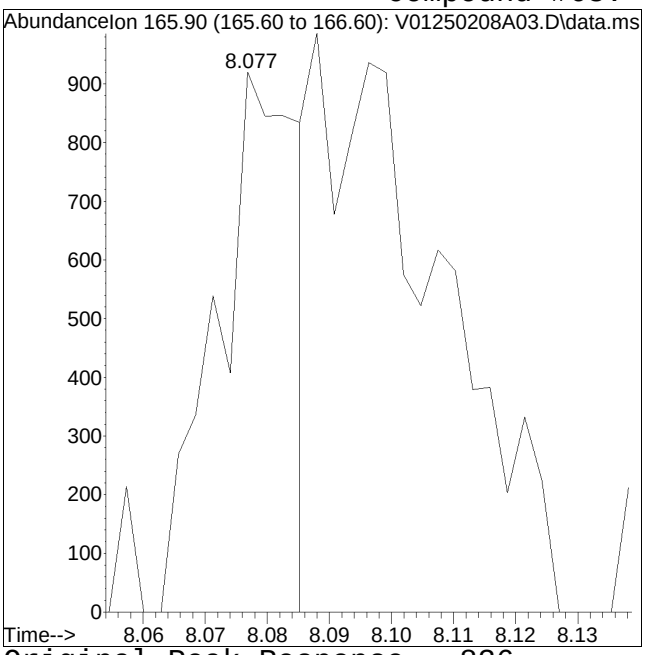
Manual Peak Response = 2209 M1

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

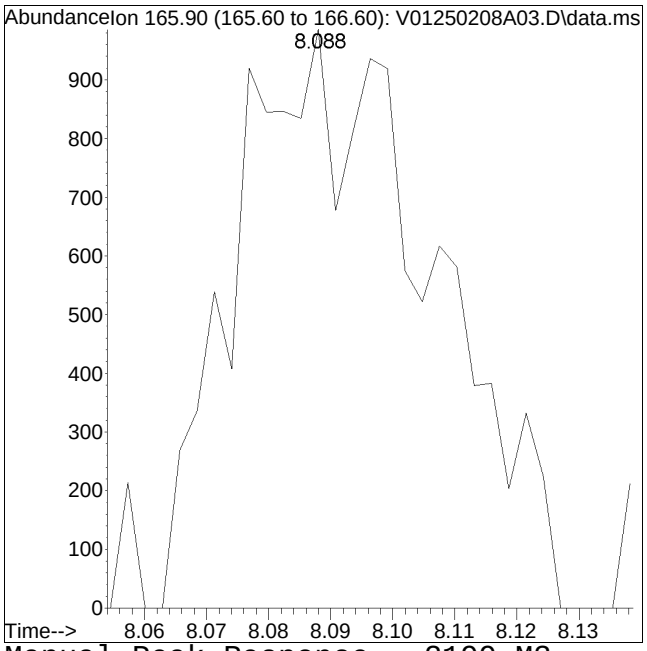
Manual Integration Report

Data Path : K:\VOA101\2025\250208AICALQMethod : V101_250208A_8260.m
Data File : V01250208A03.D Operator : VOA101:PID
Date Inj'd : 2/8/2025 1:30 am Instrument : VOA 101
Sample : I8260STD0.19PPB Quant Date : 2/11/2025 9:14 am

Compound #63: Tetrachloroethene



Original Peak Response = 836



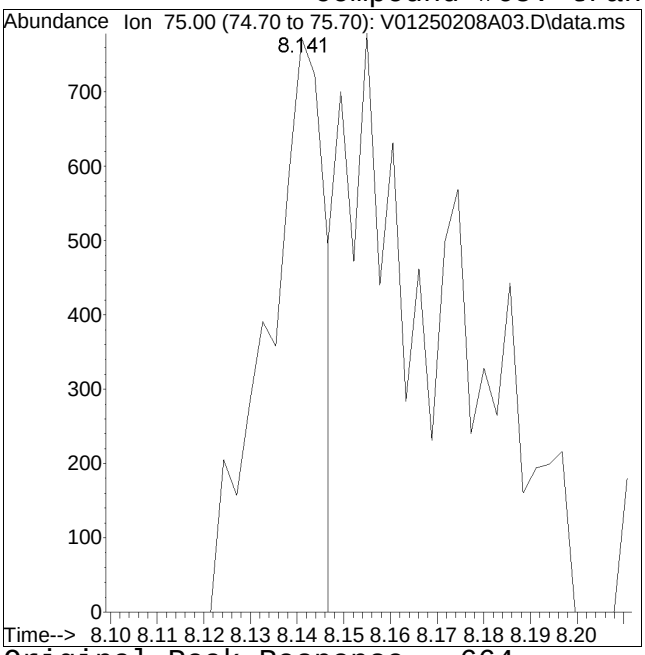
Manual Peak Response = 2199 M3

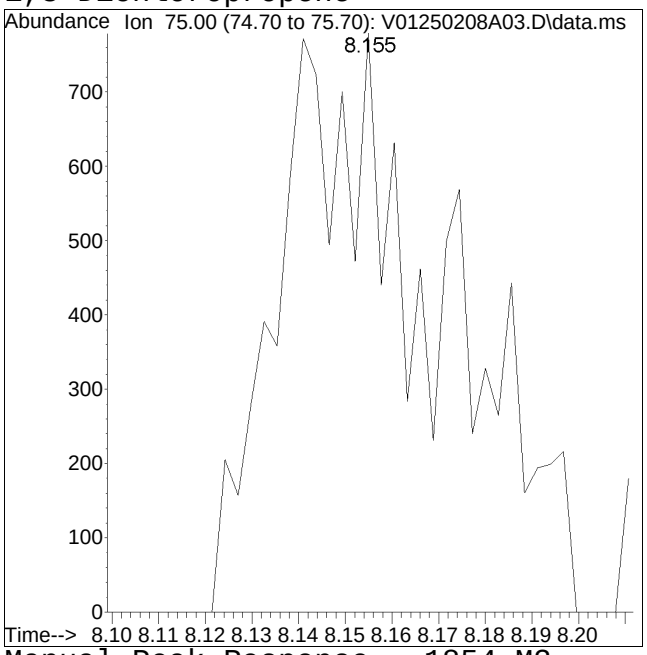
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : K:\VOA101\2025\250208AICALQMethod : V101_250208A_8260.m
Data File : V01250208A03.D Operator : VOA101:PID
Date Inj'd : 2/8/2025 1:30 am Instrument : VOA 101
Sample : I8260STD0.19PPB Quant Date : 2/11/2025 9:14 am

Compound #65: trans-1,3-Dichloropropene





Original Peak Response = 664 Manual Peak Response = 1854 M3

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2025\250208AICAL\
Data File : V01250208A05.D
Acq On : 8 Feb 2025 2:22 am
Operator : VOA101:PID
Sample : I8260STD0.5PPB
Misc : WG2028963,ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 11 07:40:35 2025
Quant Method : K:\VOA101\2025\250208AICAL\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Feb 11 07:39:26 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2025\250208AICAL\V01250208A09.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.896	96	547143	10.000 ug/L	0.00
Standard Area 1 = 578930			Recovery =	94.51%	
59) Chlorobenzene-d5	9.412	117	407605	10.000 ug/L	0.00
Standard Area 1 = 424320			Recovery =	96.06%	
79) 1,4-Dichlorobenzene-d4	12.140	152	216018	10.000 ug/L	0.00
Standard Area 1 = 231124			Recovery =	93.46%	
System Monitoring Compounds					
36) Dibromofluoromethane	5.098	113	139458	10.026 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.26%	
43) 1,2-Dichloroethane-d4	5.612	65	162117	10.161 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.61%	
60) Toluene-d8	7.575	98	535264	9.884 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.84%	
83) 4-Bromofluorobenzene	10.924	95	213336	10.087 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.87%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.621	85	5112	0.351 ug/L	98
3) Chloromethane	1.802	50	13764	0.511 ug/L	69
4) Vinyl chloride	1.878	62	6179	0.364 ug/L	98
5) Bromomethane	2.170	94	1521	0.385 ug/L	97
6) Chloroethane	2.288	64	3776M1	0.467 ug/L	
7) Trichlorofluoromethane	2.416	101	6358	0.360 ug/L	99
8) Ethyl ether	2.706	74	2344	0.520 ug/L #	72
10) 1,1-Dichloroethene	2.893	96	4906	0.412 ug/L #	92
11) Carbon disulfide	2.921	76	17721	0.449 ug/L #	84
12) Freon-113	2.934	101	4209M3	0.347 ug/L	
13) Iodomethane	3.026	142	3531	0.397 ug/L #	82
14) Acrolein	3.216	56	681M3	0.389 ug/L	
15) Methylene chloride	3.431	84	8457	0.595 ug/L	85
17) Acetone	3.484	43	5151M1	1.349 ug/L	
18) trans-1,2-Dichloroethene	3.581	96	5287	0.398 ug/L #	62
19) Methyl acetate	3.601	43	3209M1	0.467 ug/L	
20) Methyl tert-butyl ether	3.682	73	12920	0.464 ug/L #	90
21) tert-Butyl alcohol	3.779	59	1785M1	2.539 ug/L	
22) Diisopropyl ether	4.039	45	25574	0.458 ug/L #	90
23) 1,1-Dichloroethane	4.150	63	12758	0.446 ug/L	70
24) Halothane	4.200	117	3807M1	0.393 ug/L	

Data Path : K:\VOA101\2025\250208AICAL\
Data File : V01250208A05.D
Acq On : 8 Feb 2025 2:22 am
Operator : VOA101:PID
Sample : I8260STD0.5PPB
Misc : WG2028963,ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 11 07:40:35 2025
Quant Method : K:\VOA101\2025\250208AICAL\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Feb 11 07:39:26 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2025\250208AICAL\V01250208A09.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.228	53	1172M3	0.356	ug/L		
26) Ethyl tert-butyl ether	4.368	59	17950	0.442	ug/L	#	58
27) Vinyl acetate	4.401	43	10825M3	0.384	ug/L		
28) cis-1,2-Dichloroethene	4.675	96	6725M3	0.462	ug/L		
29) 2,2-Dichloropropane	4.764	77	6847M1	0.390	ug/L		
30) Bromochloromethane	4.864	128	3088M3	0.538	ug/L		
31) Cyclohexane	4.861	56	9336	0.310	ug/L	#	35
32) Chloroform	4.931	83	10849	0.459	ug/L		96
33) Ethyl acetate	5.054	43	3304M1	0.361	ug/L		
34) Carbon tetrachloride	5.054	117	5815	0.337	ug/L	#	87
35) Tetrahydrofuran	5.101	42	1283M3	0.452	ug/L		
37) 1,1,1-Trichloroethane	5.121	97	7693	0.379	ug/L	#	88
39) 2-Butanone	0.000		0	N.D.	d		
40) 1,1-Dichloropropene	5.243	75	6163	0.348	ug/L	#	67
41) Benzene	5.489	78	22882	0.442	ug/L		95
42) tert-Amyl methyl ether	5.589	73	12241M1	0.440	ug/L		
44) 1,2-Dichloroethane	5.687	62	8868	0.518	ug/L		75
47) Methyl cyclohexane	6.063	83	7688M1	0.331	ug/L		
48) Trichloroethene	6.086	95	6330	0.443	ug/L	#	69
50) Dibromomethane	6.521	93	3100	0.471	ug/L	#	49
51) 1,2-Dichloropropane	6.618	63	7306	0.462	ug/L	#	55
54) Bromodichloromethane	6.696	83	7956	0.453	ug/L	#	25
57) 1,4-Dioxane	6.905	88	4878	69.384	ug/L	#	58
58) cis-1,3-Dichloropropene	7.388	75	6764	0.375	ug/L	#	49
61) Toluene	7.642	92	14554M3	0.447	ug/L		
62) 4-Methyl-2-pentanone	0.000		0	N.D.	d		
63) Tetrachloroethene	8.088	166	5320M1	0.400	ug/L		
65) trans-1,3-Dichloropropene	8.141	75	5048M1	0.348	ug/L		
67) Ethyl methacrylate	8.344	69	2339M3	0.231	ug/L		
68) 1,1,2-Trichloroethane	8.322	83	3751M3	0.460	ug/L		
69) Chlorodibromomethane	8.520	129	4747	0.421	ug/L		91
70) 1,3-Dichloropropane	8.623	76	7291M1	0.437	ug/L		
71) 1,2-Dibromoethane	8.802	107	3649M1	0.412	ug/L		
72) 2-Hexanone	0.000		0	N.D.	d		
73) Chlorobenzene	9.429	112	16103	0.446	ug/L		97
74) Ethylbenzene	9.485	91	25513M3	0.406	ug/L		
75) 1,1,1,2-Tetrachloroethane	9.521	131	5727M1	0.452	ug/L		
76) p/m Xylene	9.672	106	17887M1	0.745	ug/L		
77) o Xylene	10.210	106	18329	0.791	ug/L		94
78) Styrene	10.288	104	24833	0.699	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2025\250208AICAL\
Data File : V01250208A05.D
Acq On : 8 Feb 2025 2:22 am
Operator : VOA101:PID
Sample : I8260STD0.5PPB
Misc : WG2028963,ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 11 07:40:35 2025
Quant Method : K:\VOA101\2025\250208AICAL\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Feb 11 07:39:26 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2025\250208AICAL\V01250208A09.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) Bromoform	10.299	173	2588	0.430	ug/L	#	44
82) Isopropylbenzene	10.595	105	22010	0.370	ug/L		94
84) Bromobenzene	11.035	156	5901	0.439	ug/L		93
85) n-Propylbenzene	11.083	91	26935	0.384	ug/L		98
86) 1,4-Dichlorobutane	11.108	55	8652	0.474	ug/L	#	80
87) 1,1,2,2-Tetrachloroethane	11.172	83	5389	0.501	ug/L	#	63
88) 4-Ethyltoluene	11.211	105	21633	0.375	ug/L		99
89) 2-Chlorotoluene	11.253	91	17989M1	0.423	ug/L		
90) 1,3,5-Trimethylbenzene	11.309	105	18620	0.390	ug/L		93
91) 1,2,3-Trichloropropane	11.309	75	4073M1	0.488	ug/L		
92) trans-1,4-Dichloro-2-b...	11.390	53	298M3	0.143	ug/L		
93) 4-Chlorotoluene	11.443	91	17256	0.409	ug/L		92
94) tert-Butylbenzene	11.649	119	15228	0.370	ug/L		97
97) 1,2,4-Trimethylbenzene	11.735	105	16461	0.363	ug/L		99
98) sec-Butylbenzene	11.844	105	19806	0.344	ug/L	#	74
99) p-Isopropyltoluene	11.998	119	16687	0.341	ug/L		96
100) 1,3-Dichlorobenzene	12.073	146	10399	0.426	ug/L	#	86
101) 1,4-Dichlorobenzene	12.159	146	12130M4	0.484	ug/L		
102) p-Diethylbenzene	12.380	119	9979	0.360	ug/L		96
103) n-Butylbenzene	12.441	91	13926	0.353	ug/L		98
104) 1,2-Dichlorobenzene	12.589	146	9784	0.452	ug/L		95
105) 1,2,4,5-Tetramethylben...	13.174	119	13031	0.353	ug/L		94
106) 1,2-Dibromo-3-chloropr...	13.372	155	343	0.306	ug/L	#	66
107) 1,3,5-Trichlorobenzene	13.406	180	5660	0.427	ug/L	#	88
108) Hexachlorobutadiene	13.975	225	2020	0.417	ug/L	#	75
109) 1,2,4-Trichlorobenzene	14.011	180	3928	0.383	ug/L		94
110) Naphthalene	14.301	128	6835	0.365	ug/L		100
111) 1,2,3-Trichlorobenzene	14.468	180	3634	0.464	ug/L	#	87

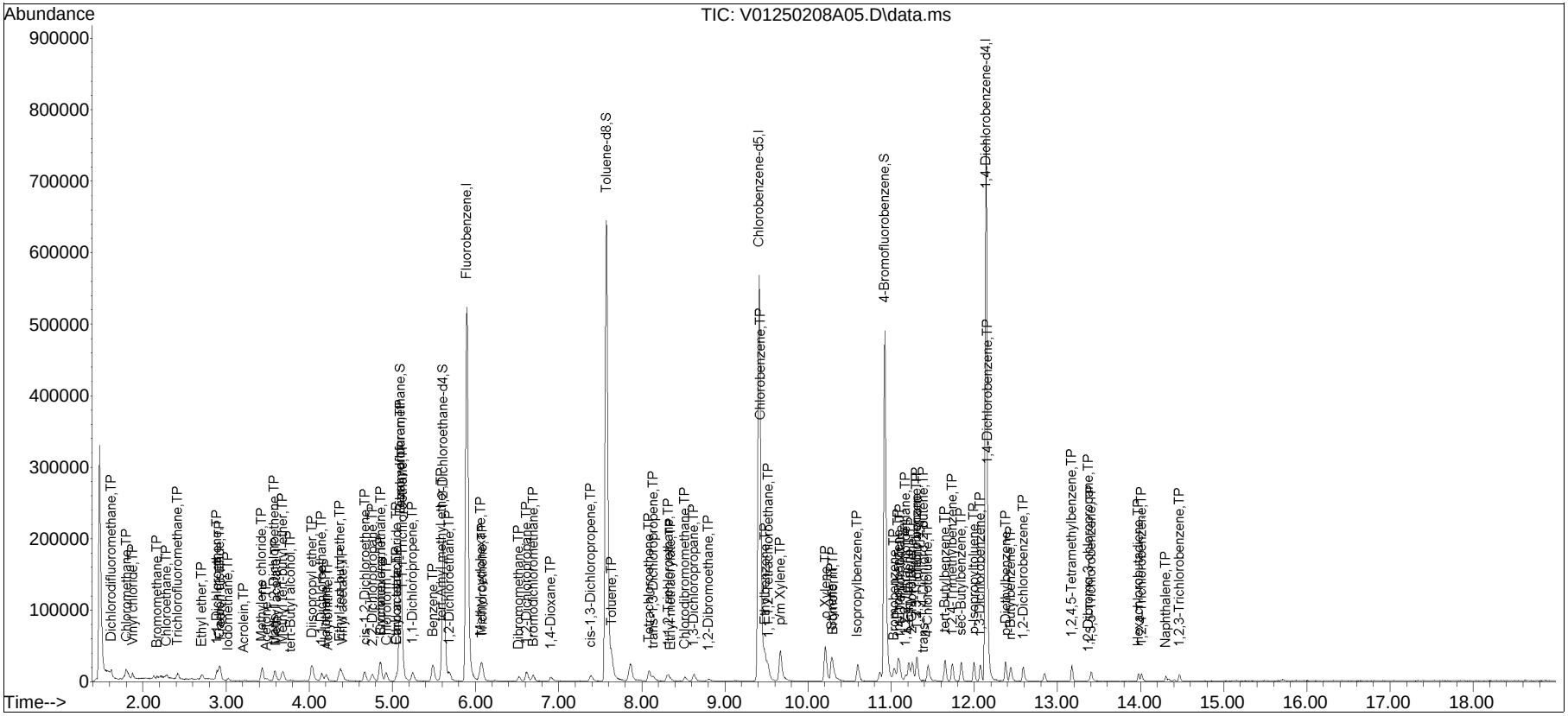
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2025\250208AICAL\
Data File : V01250208A05.D
Acq On : 8 Feb 2025 2:22 am
Operator : VOA101:PID
Sample : I8260STD0.5PPB
Misc : WG2028963,ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 11 07:40:35 2025
Quant Method : K:\VOA101\2025\250208AICAL\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Feb 11 07:39:26 2025
Response via : Initial Calibration

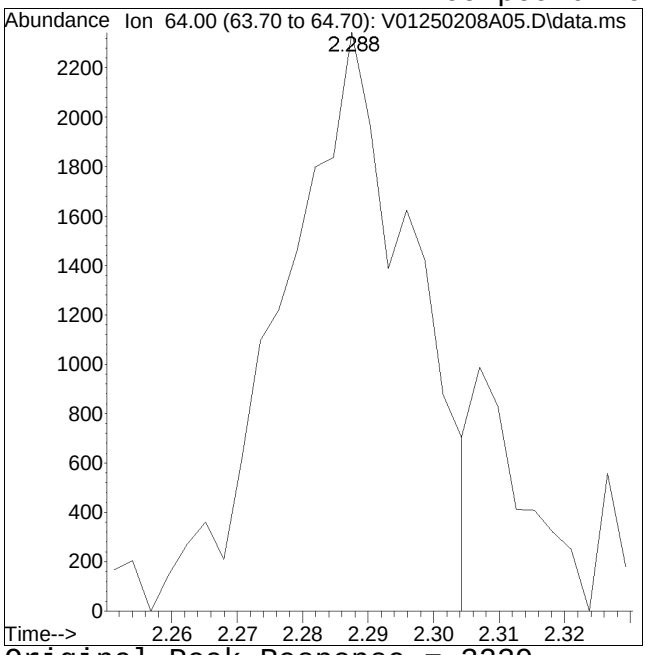
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE208A09.D•



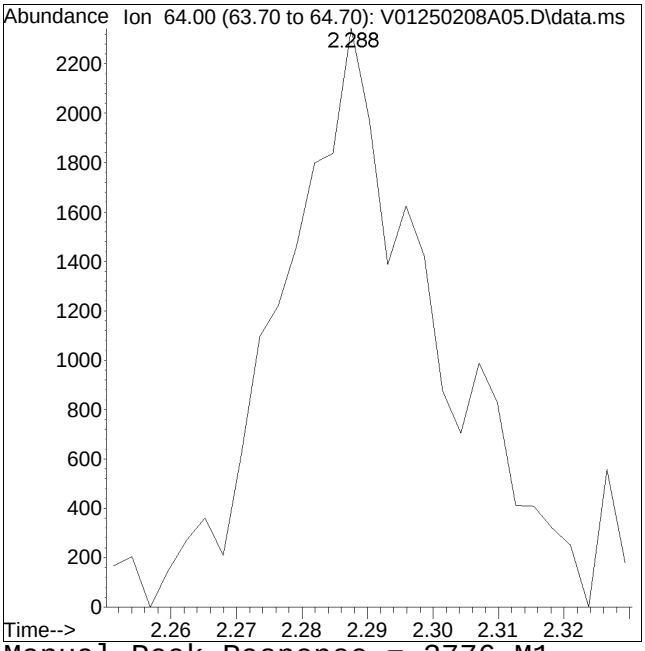
Manual Integration Report

Data Path : K:\VOA101\2025\250208AICALQMethod : V101_250208A_8260.m
Data File : V01250208A05.D Operator : VOA101:PID
Date Inj'd : 2/8/2025 2:22 am Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 2/11/2025 7:40 am

Compound #6: Chloroethane



Original Peak Response = 3239



Manual Peak Response = 3776 M1

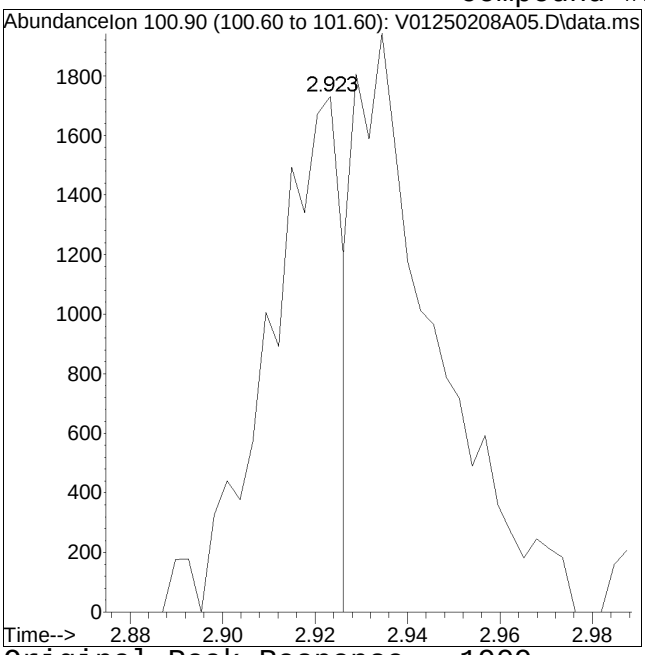
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

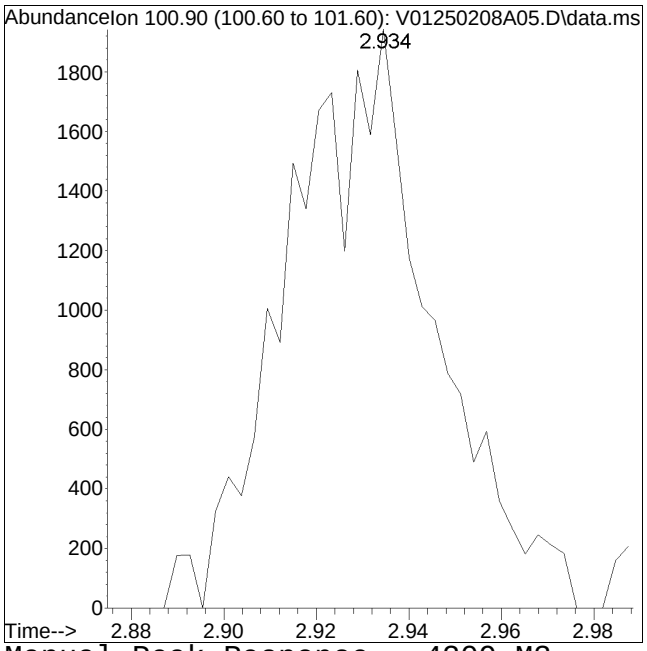
Data Path : K:\VOA101\2025\250208AICALQ
Data File : V01250208A05.D
Date Inj'd : 2/8/2025 2:22 am
Sample : I8260STD0.5PPB

Method : V101_250208A_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 2/11/2025 7:40 am

Compound #12: Freon-113



Original Peak Response = 1909



Manual Peak Response = 4209 M3

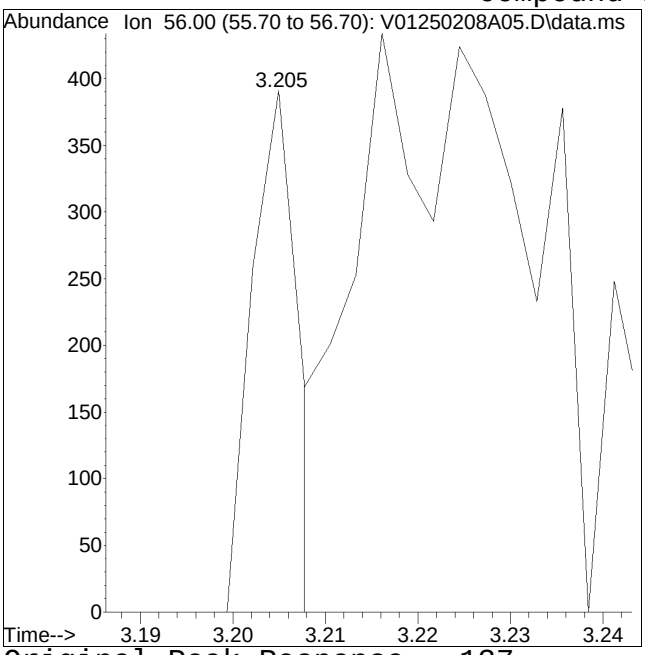
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

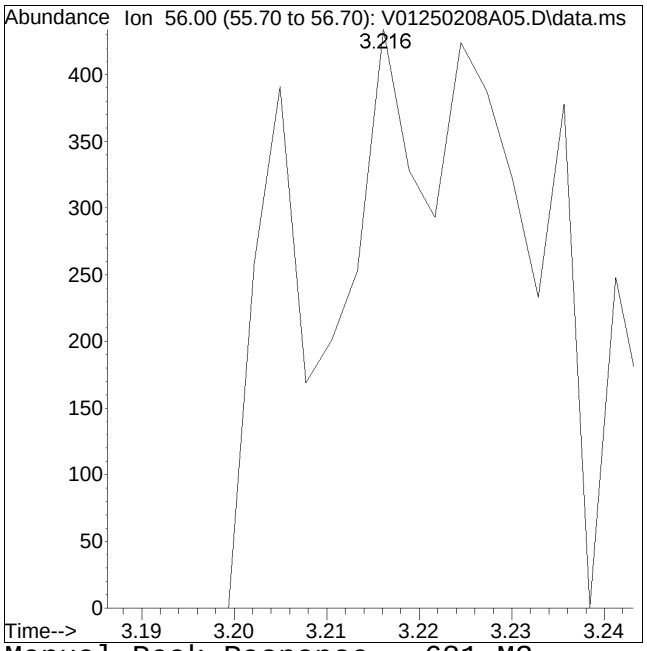
Manual Integration Report

Data Path : K:\VOA101\2025\250208AICALQ
Data File : V01250208A05.D
Date Inj'd : 2/8/2025 2:22 am
Sample : I8260STD0.5PPB

Method : V101_250208A_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 2/11/2025 7:40 am

Compound #14: Acrolein





Original Peak Response = 137 Manual Peak Response = 681 M3

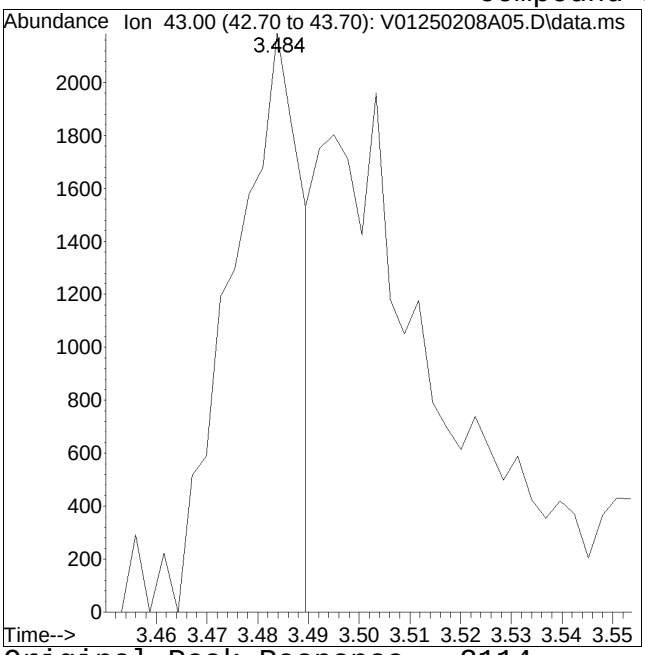
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

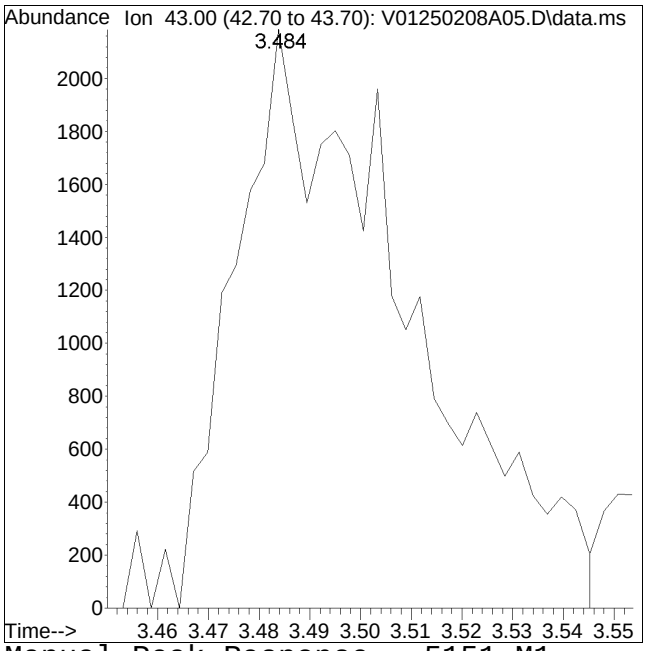
Data Path : K:\VOA101\2025\250208AICALQ
Data File : V01250208A05.D
Date Inj'd : 2/8/2025 2:22 am
Sample : I8260STD0.5PPB

Method : V101_250208A_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 2/11/2025 7:40 am

Compound #17: Acetone



Original Peak Response = 2114



Manual Peak Response = 5151 M1

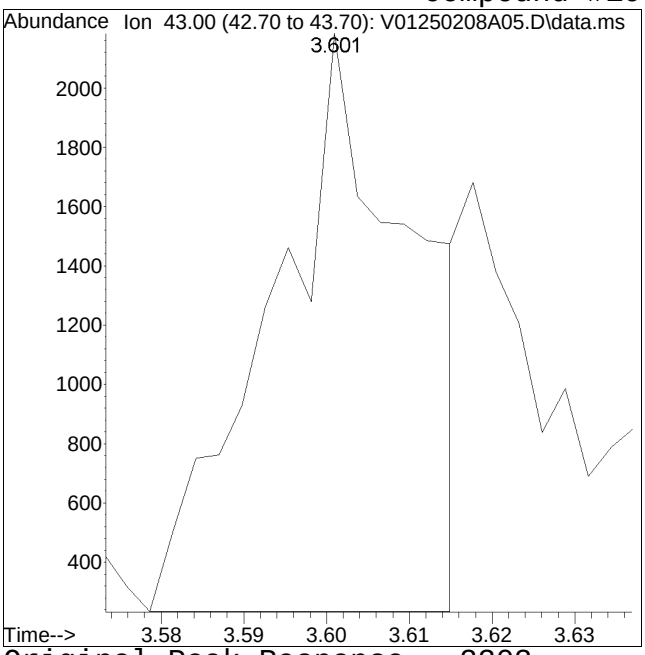
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

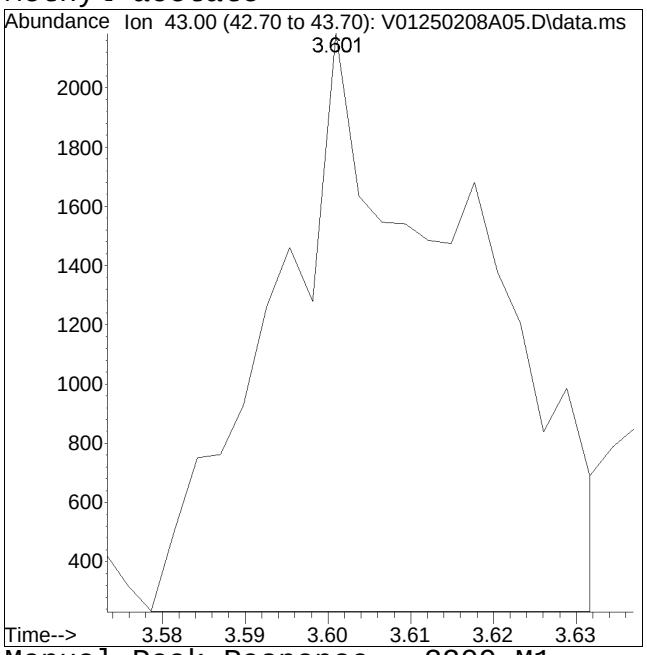
Data Path : K:\VOA101\2025\250208AICALQ
Data File : V01250208A05.D
Date Inj'd : 2/8/2025 2:22 am
Sample : I8260STD0.5PPB

Method : V101_250208A_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 2/11/2025 7:40 am

Compound #19: Methyl acetate



Original Peak Response = 2303



Manual Peak Response = 3209 M1

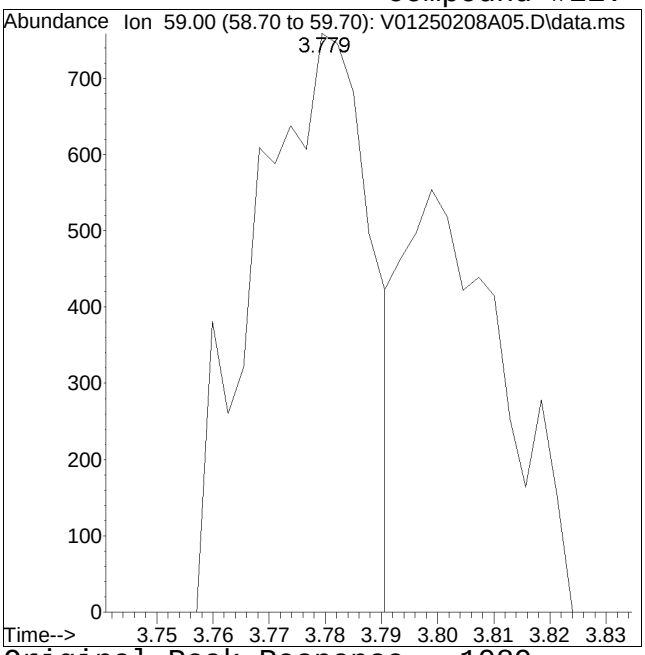
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

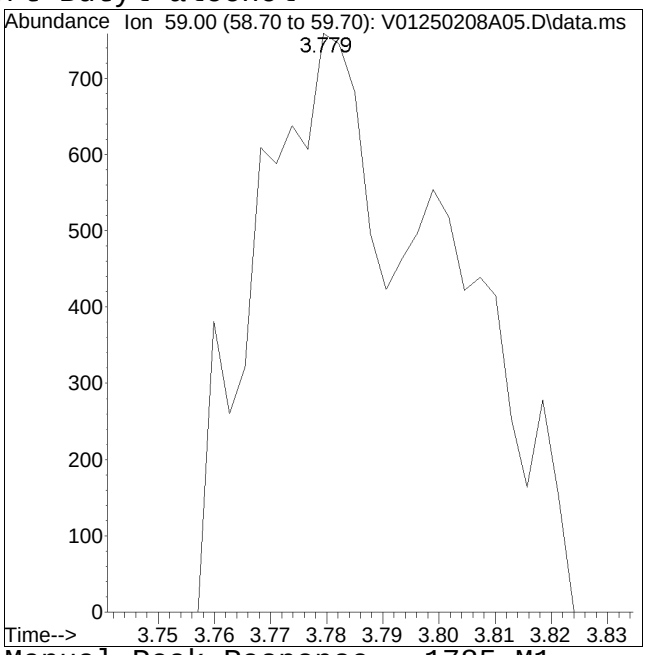
Data Path : K:\VOA101\2025\250208AICALQ
Data File : V01250208A05.D
Date Inj'd : 2/8/2025 2:22 am
Sample : I8260STD0.5PPB

Method : V101_250208A_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 2/11/2025 7:40 am

Compound #21: tert-Butyl alcohol



Original Peak Response = 1089



Manual Peak Response = 1785 M1

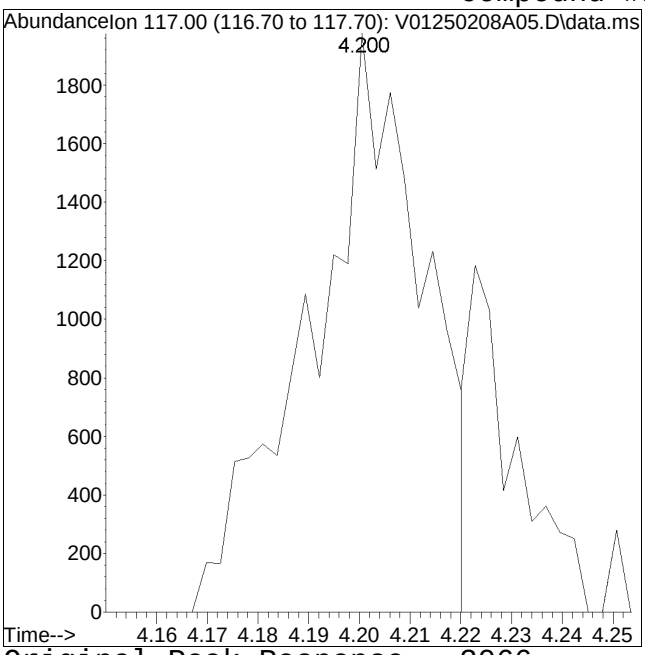
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

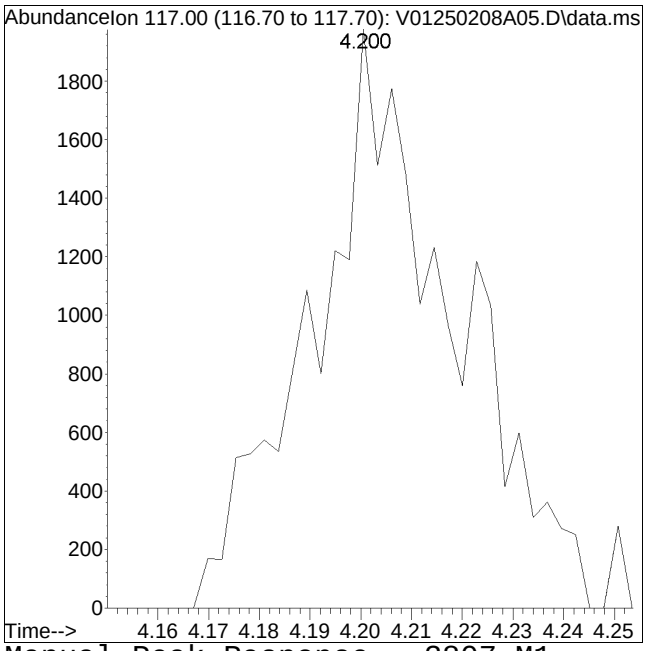
Data Path : K:\VOA101\2025\250208AICALQ
Data File : V01250208A05.D
Date Inj'd : 2/8/2025 2:22 am
Sample : I8260STD0.5PPB

Method : V101_250208A_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 2/11/2025 7:40 am

Compound #24: Halothane



Original Peak Response = 3066



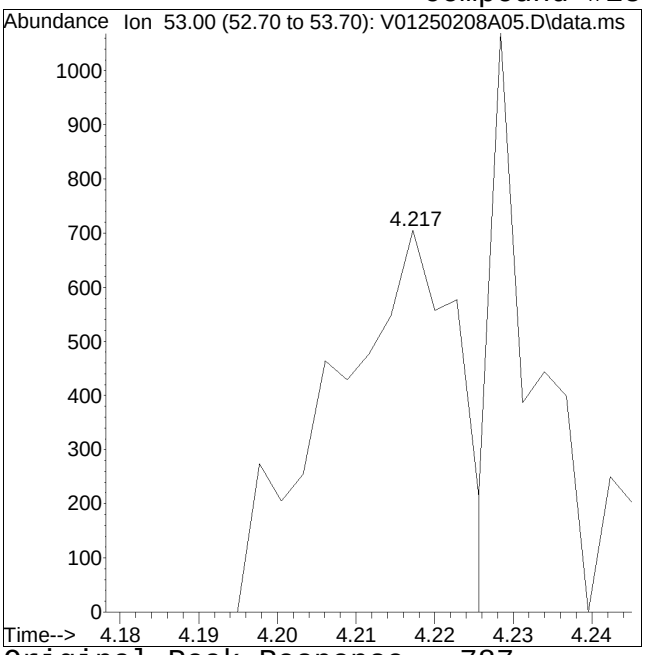
Manual Peak Response = 3807 M1

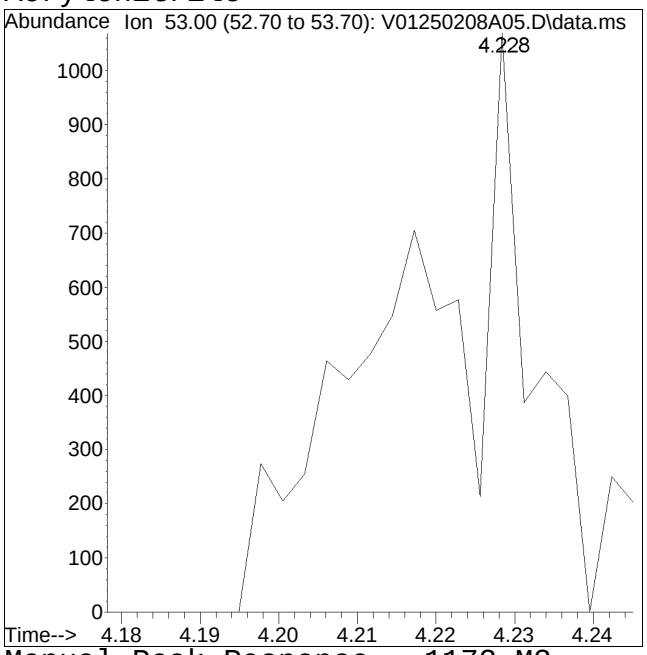
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : K:\VOA101\2025\250208AICALQMethod : V101_250208A_8260.m
Data File : V01250208A05.D Operator : VOA101:PID
Date Inj'd : 2/8/2025 2:22 am Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 2/11/2025 7:40 am

Compound #25: Acrylonitrile





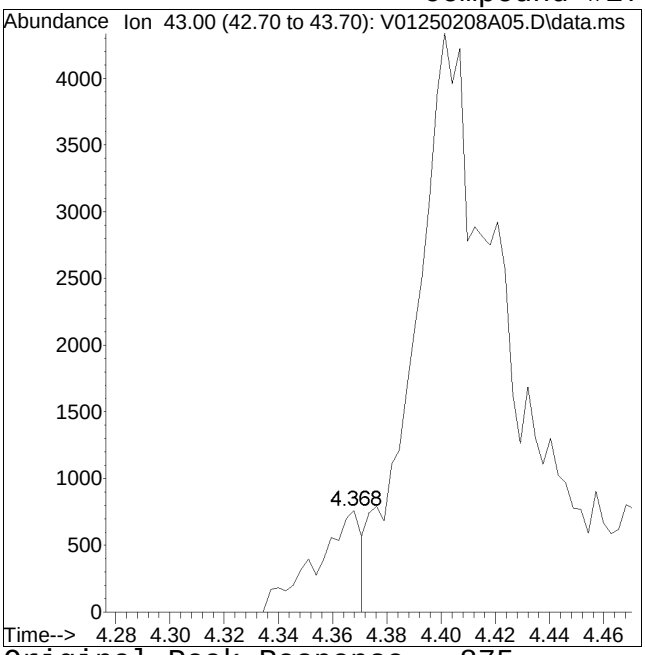
Original Peak Response = 787 Manual Peak Response = 1172 M3

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

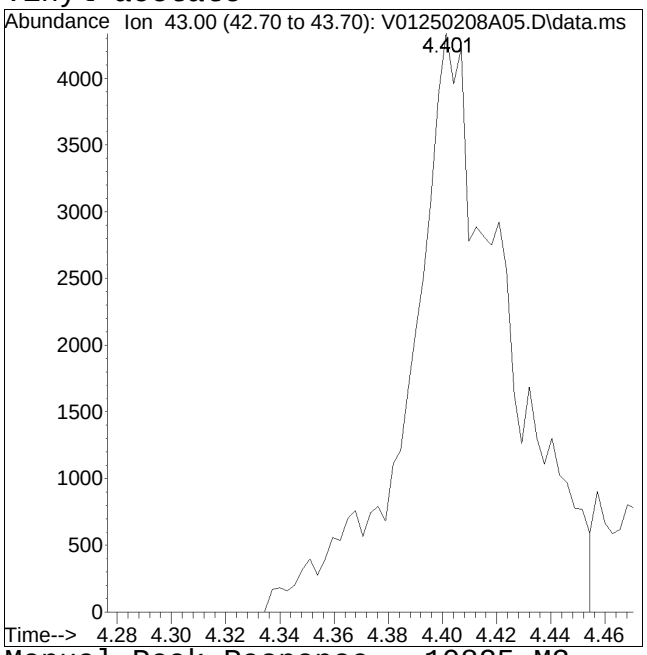
Manual Integration Report

Data Path : K:\VOA101\2025\250208AICALQMethod : V101_250208A_8260.m
Data File : V01250208A05.D Operator : VOA101:PID
Date Inj'd : 2/8/2025 2:22 am Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 2/11/2025 7:40 am

Compound #27: Vinyl acetate



Original Peak Response = 875



Manual Peak Response = 10825 M3

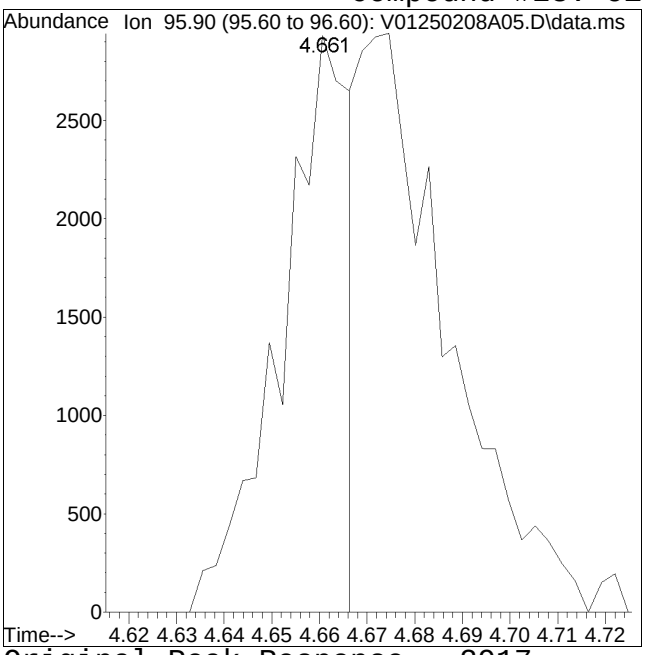
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

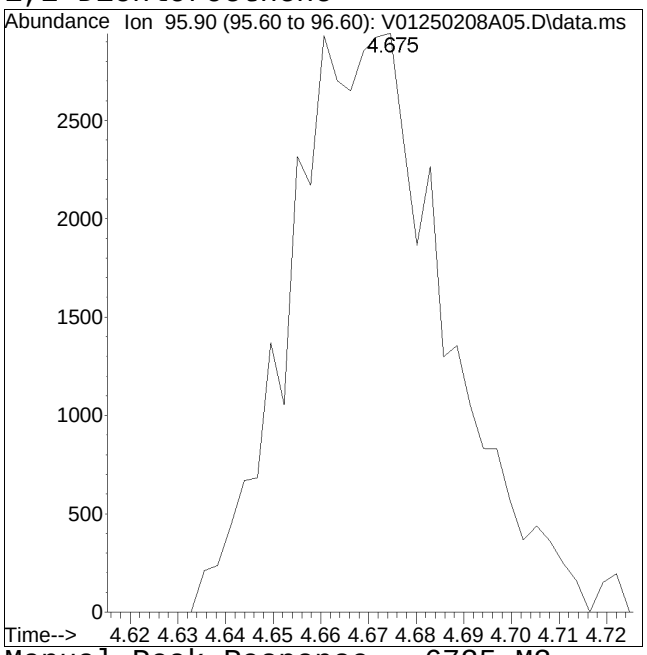
Data Path : K:\VOA101\2025\250208AICALQ
Data File : V01250208A05.D
Date Inj'd : 2/8/2025 2:22 am
Sample : I8260STD0.5PPB

Method : V101_250208A_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 2/11/2025 7:40 am

Compound #28: cis-1,2-Dichloroethene



Original Peak Response = 2917



Manual Peak Response = 6725 M3

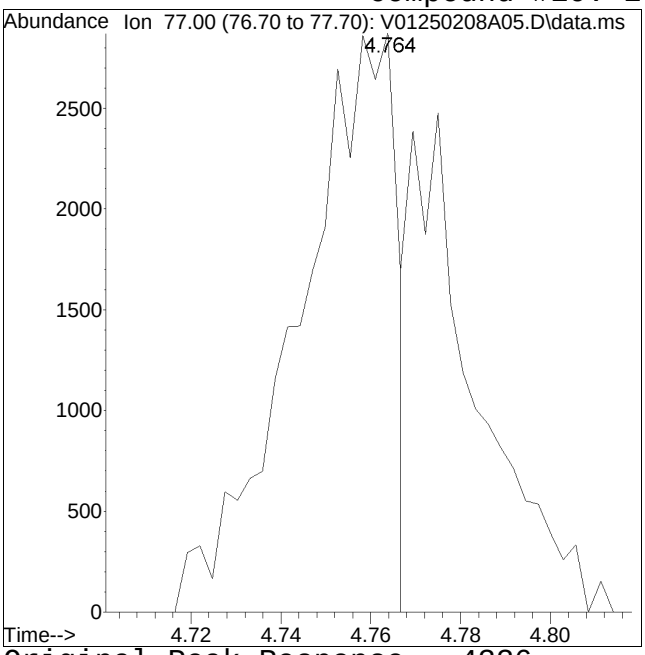
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

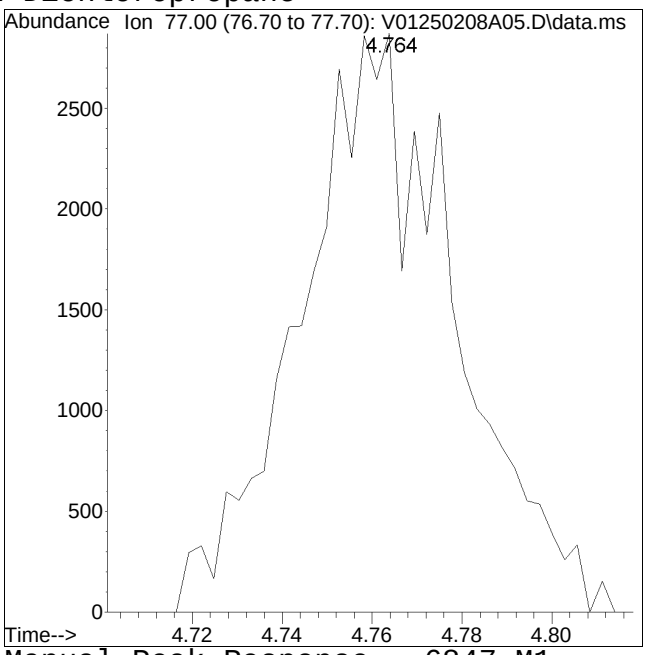
Data Path : K:\VOA101\2025\250208AICALQ
Data File : V01250208A05.D
Date Inj'd : 2/8/2025 2:22 am
Sample : I8260STD0.5PPB

Method : V101_250208A_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 2/11/2025 7:40 am

Compound #29: 2,2-Dichloropropane



Original Peak Response = 4336



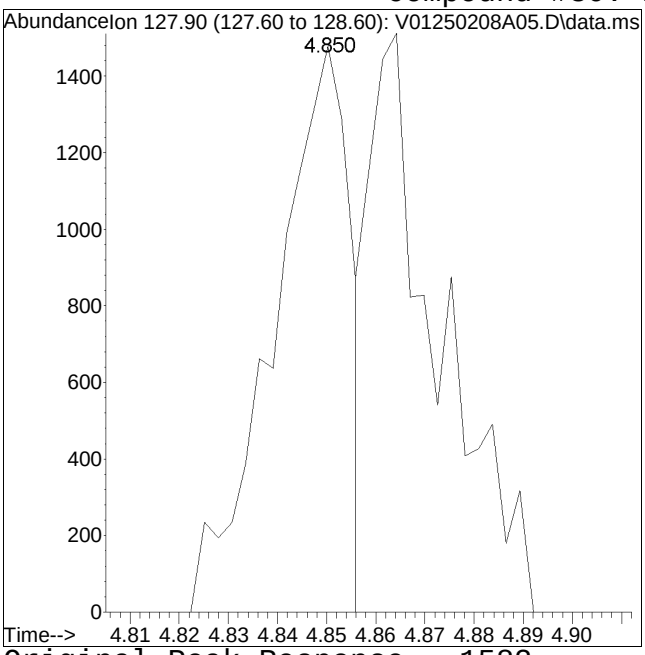
Manual Peak Response = 6847 M1

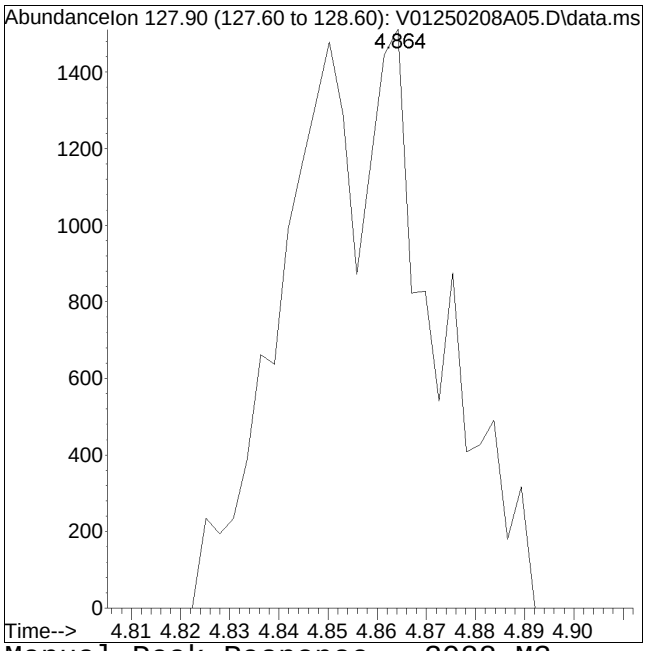
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : K:\VOA101\2025\250208AICALQMethod : V101_250208A_8260.m
Data File : V01250208A05.D Operator : VOA101:PID
Date Inj'd : 2/8/2025 2:22 am Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 2/11/2025 7:40 am

Compound #30: Bromochloromethane





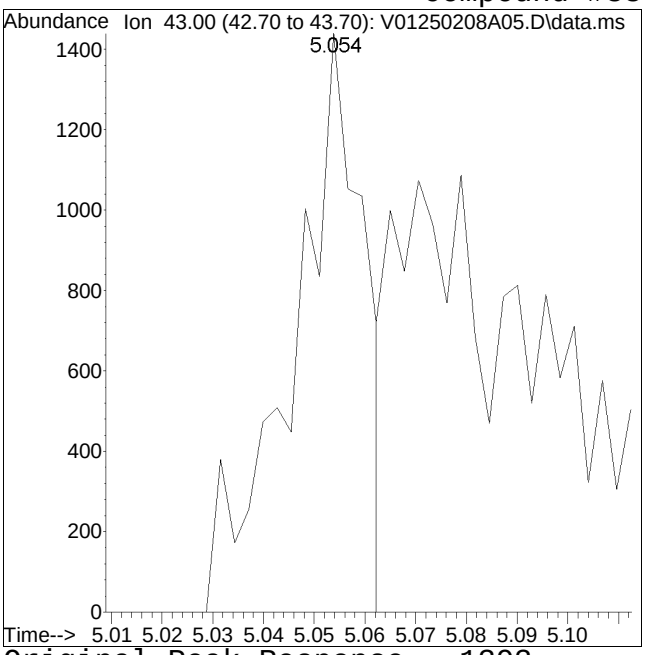
Original Peak Response = 1582 Manual Peak Response = 3088 M3

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

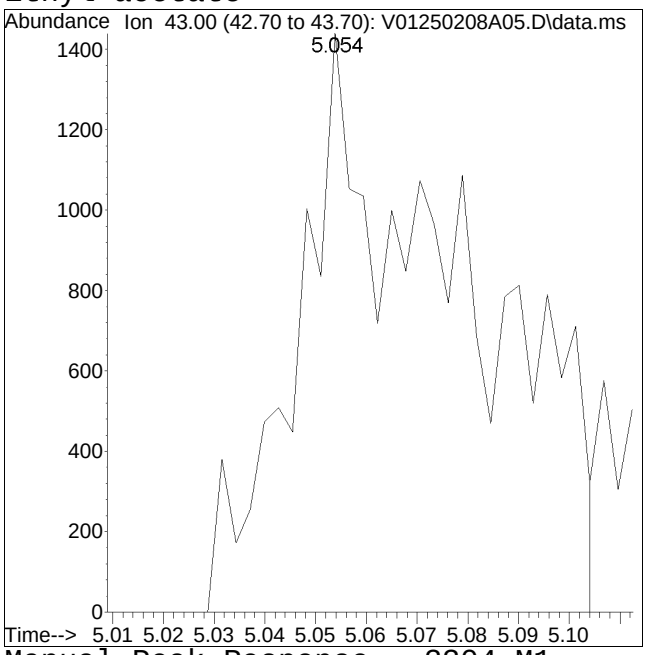
Manual Integration Report

Data Path : K:\VOA101\2025\250208AICALQMethod : V101_250208A_8260.m
Data File : V01250208A05.D Operator : VOA101:PID
Date Inj'd : 2/8/2025 2:22 am Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 2/11/2025 7:40 am

Compound #33: Ethyl acetate



Original Peak Response = 1393



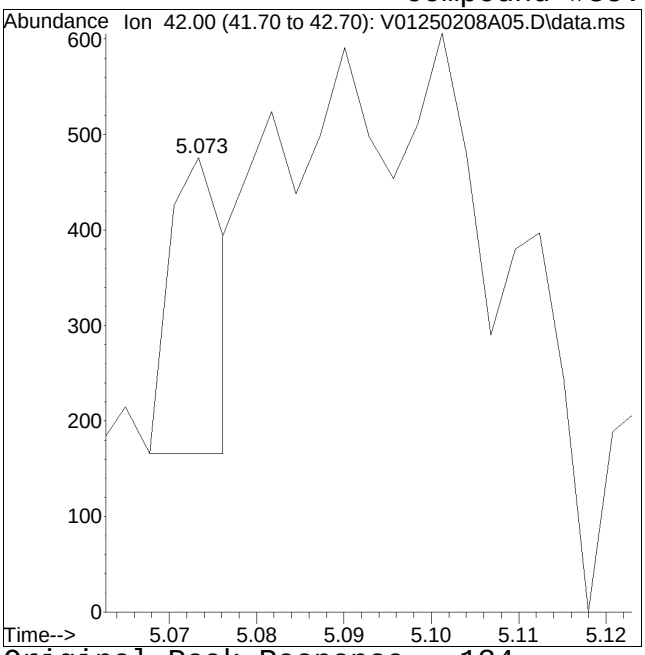
Manual Peak Response = 3304 M1

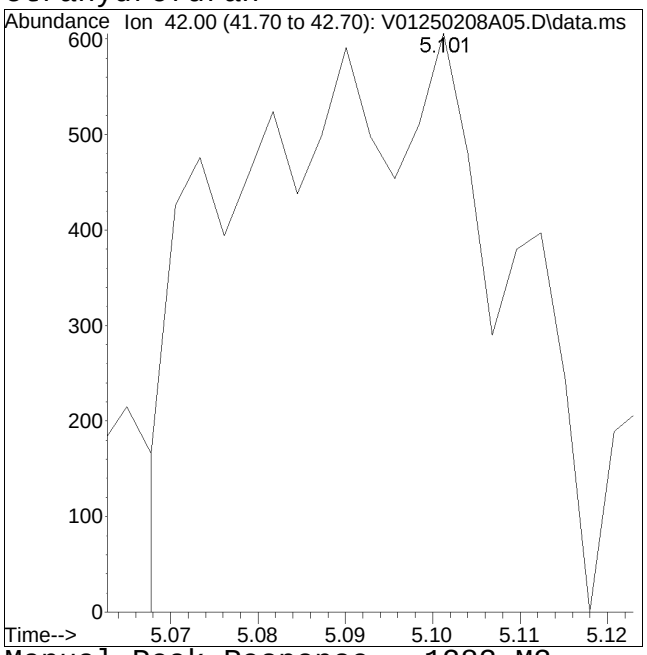
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : K:\VOA101\2025\250208AICALQMethod : V101_250208A_8260.m
Data File : V01250208A05.D Operator : VOA101:PID
Date Inj'd : 2/8/2025 2:22 am Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 2/11/2025 7:40 am

Compound #35: Tetrahydrofuran





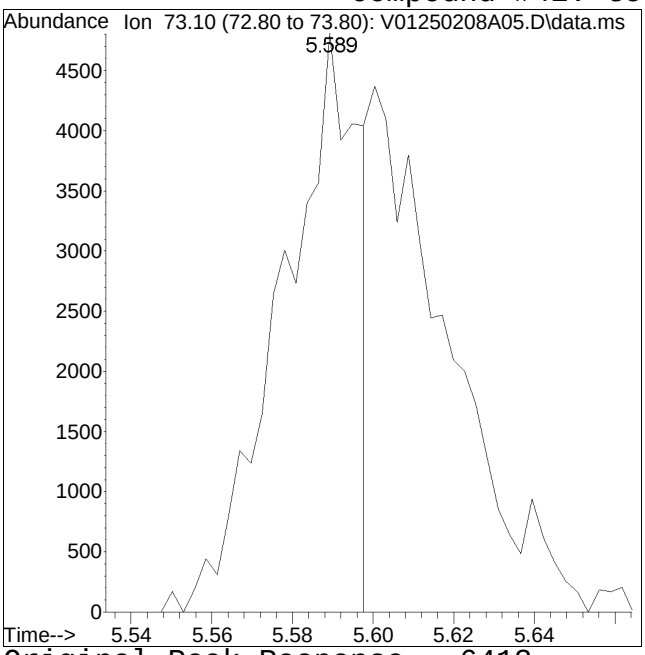
Original Peak Response = 134 Manual Peak Response = 1283 M3

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

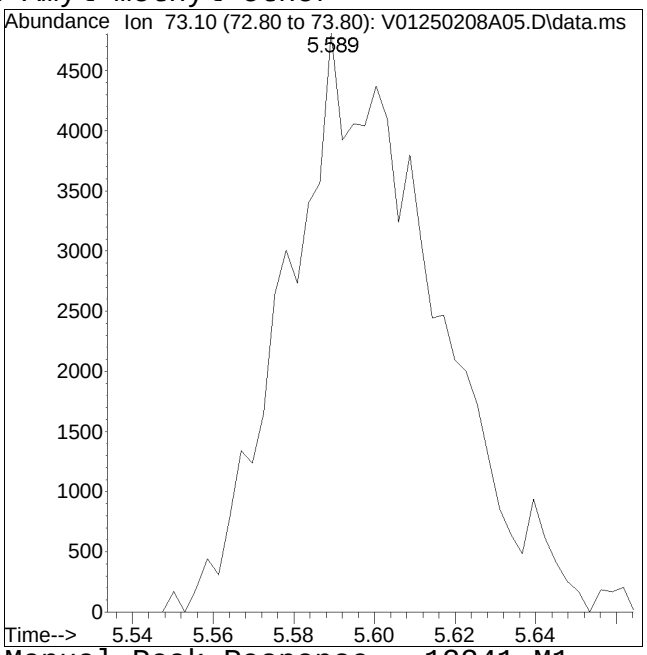
Manual Integration Report

Data Path : K:\VOA101\2025\250208AICALQMethod : V101_250208A_8260.m
Data File : V01250208A05.D Operator : VOA101:PID
Date Inj'd : 2/8/2025 2:22 am Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 2/11/2025 7:40 am

Compound #42: tert-Amyl methyl ether



Original Peak Response = 6413



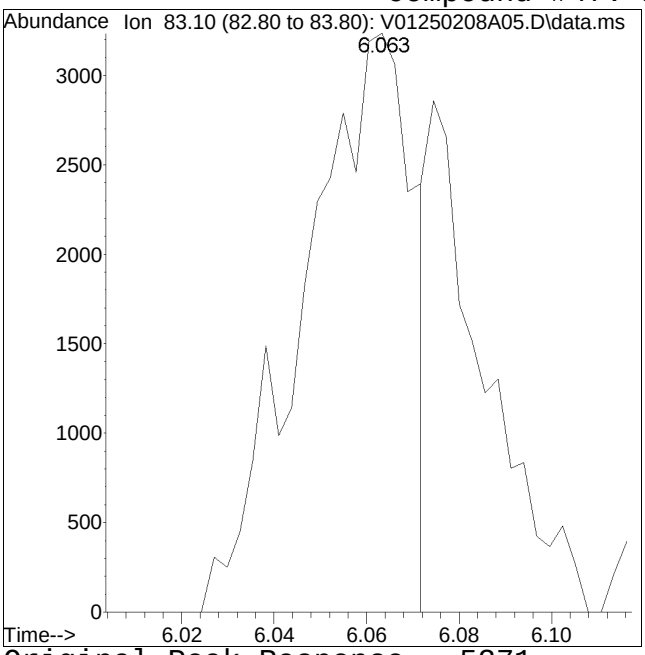
Manual Peak Response = 12241 M1

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

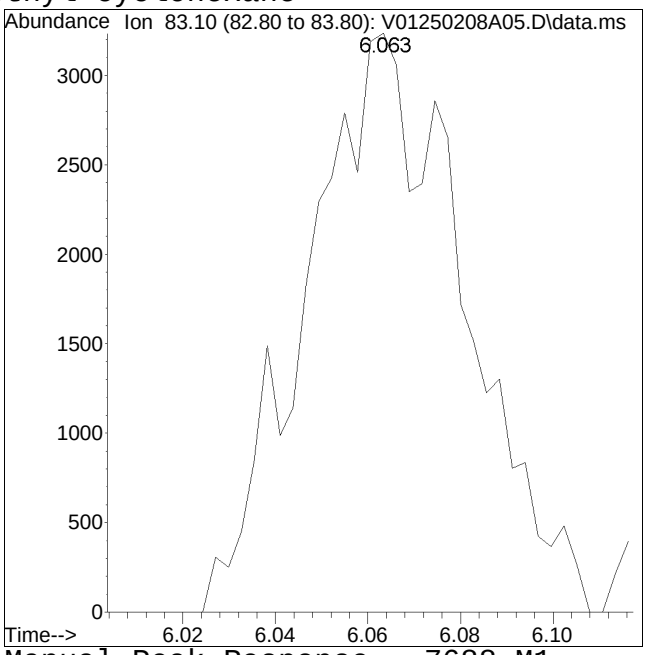
Manual Integration Report

Data Path : K:\VOA101\2025\250208AICALQMethod : V101_250208A_8260.m
Data File : V01250208A05.D Operator : VOA101:PID
Date Inj'd : 2/8/2025 2:22 am Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 2/11/2025 7:40 am

Compound #47: Methyl cyclohexane



Original Peak Response = 5271



Manual Peak Response = 7688 M1

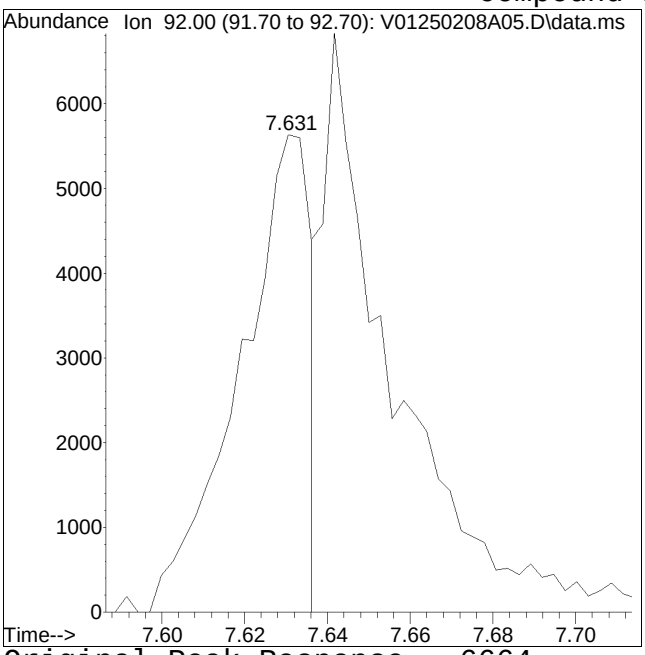
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

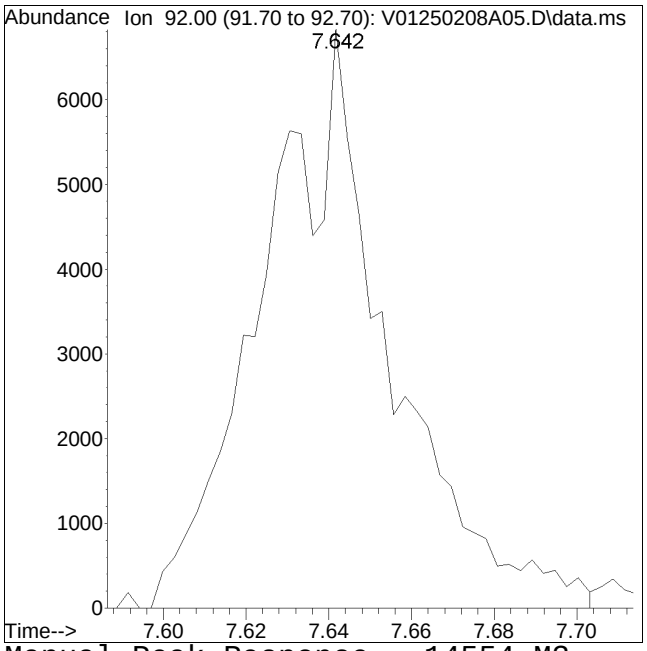
Data Path : K:\VOA101\2025\250208AICALQ
Data File : V01250208A05.D
Date Inj'd : 2/8/2025 2:22 am
Sample : I8260STD0.5PPB

Method : V101_250208A_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 2/11/2025 7:40 am

Compound #61: Toluene



Original Peak Response = 6664



Manual Peak Response = 14554 M3

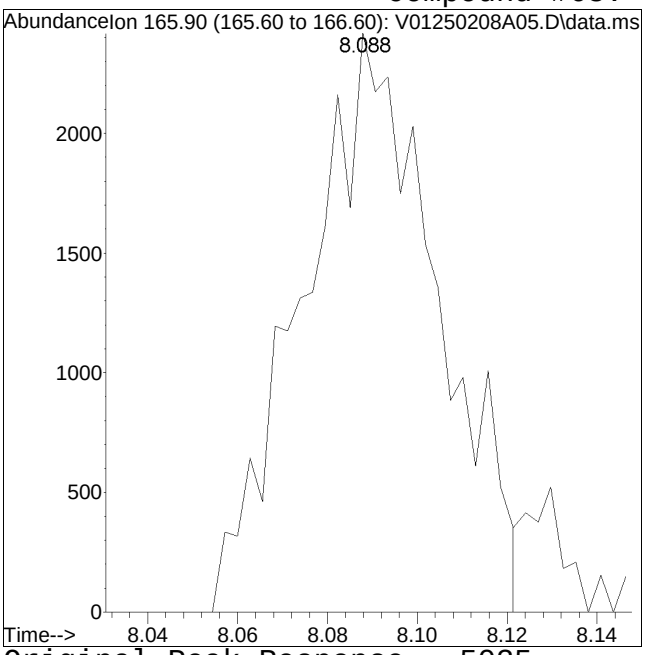
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

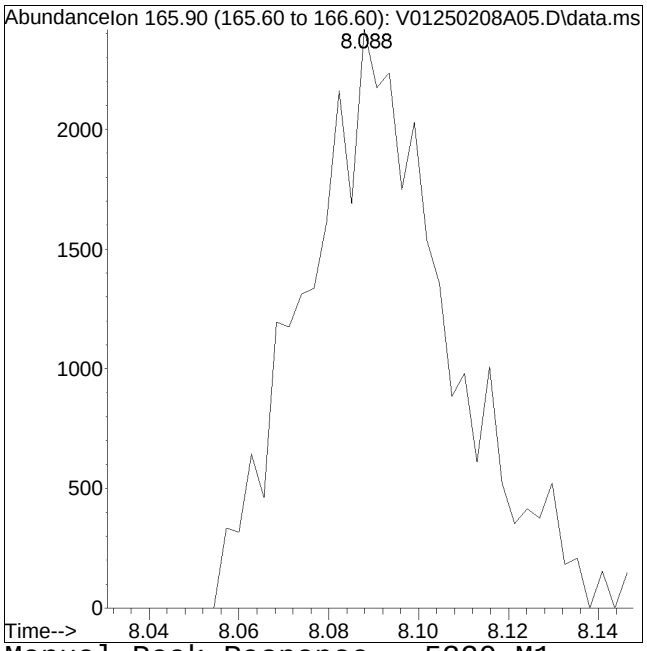
Data Path : K:\VOA101\2025\250208AICALQ
Data File : V01250208A05.D
Date Inj'd : 2/8/2025 2:22 am
Sample : I8260STD0.5PPB

Method : V101_250208A_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 2/11/2025 7:40 am

Compound #63: Tetrachloroethene



Original Peak Response = 5035



Manual Peak Response = 5320 M1

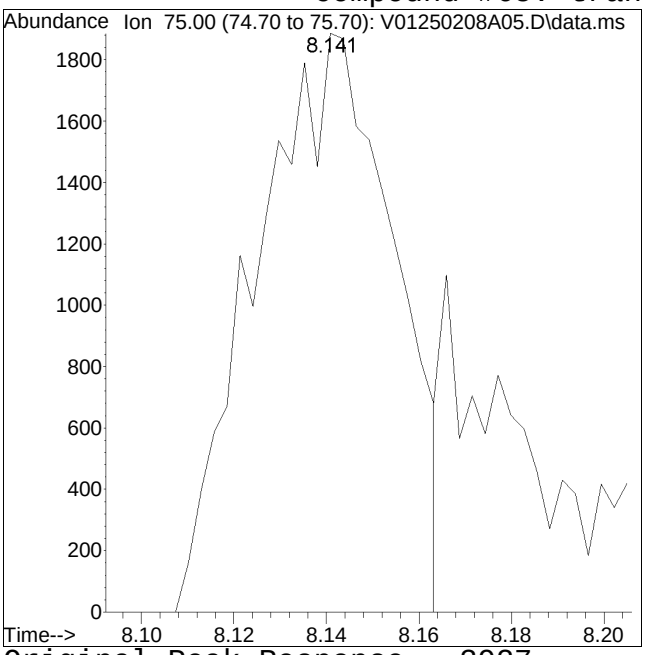
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

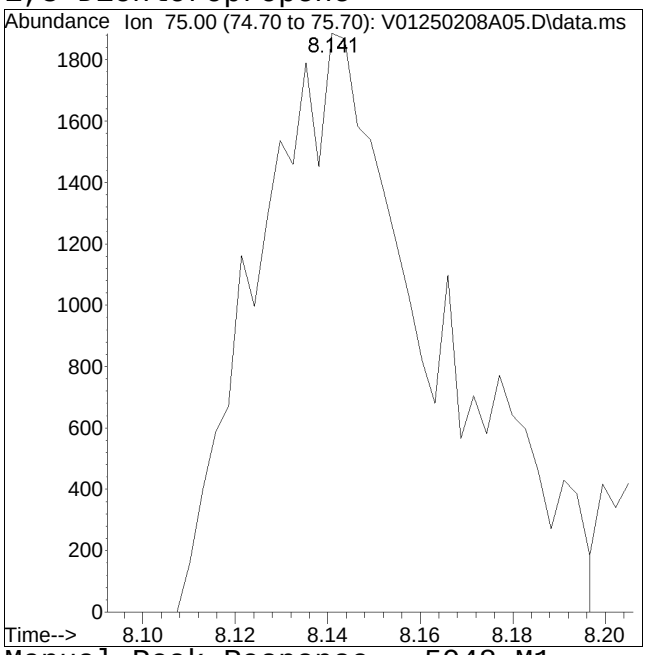
Data Path : K:\VOA101\2025\250208AICALQ
Data File : V01250208A05.D
Date Inj'd : 2/8/2025 2:22 am
Sample : I8260STD0.5PPB

Method : V101_250208A_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 2/11/2025 7:40 am

Compound #65: trans-1,3-Dichloropropene



Original Peak Response = 3927



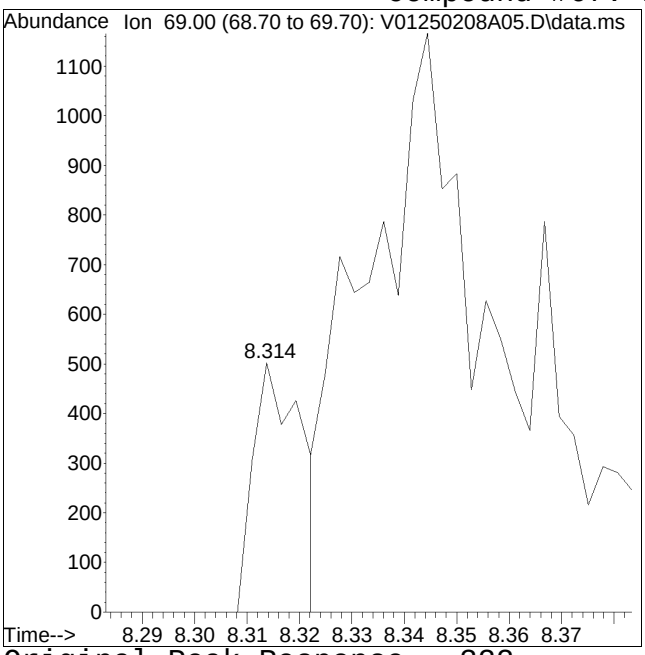
Manual Peak Response = 5048 M1

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

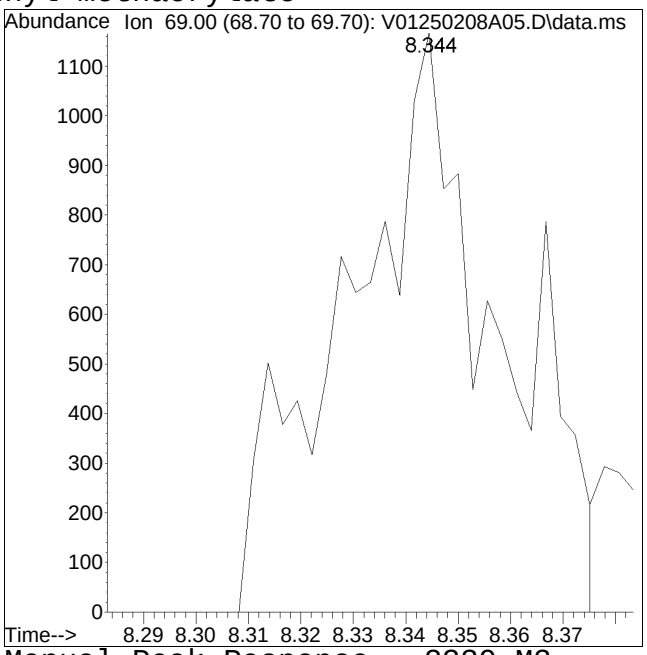
Manual Integration Report

Data Path : K:\VOA101\2025\250208AICALQMethod : V101_250208A_8260.m
Data File : V01250208A05.D Operator : VOA101:PID
Date Inj'd : 2/8/2025 2:22 am Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 2/11/2025 7:40 am

Compound #67: Ethyl methacrylate



Original Peak Response = 322



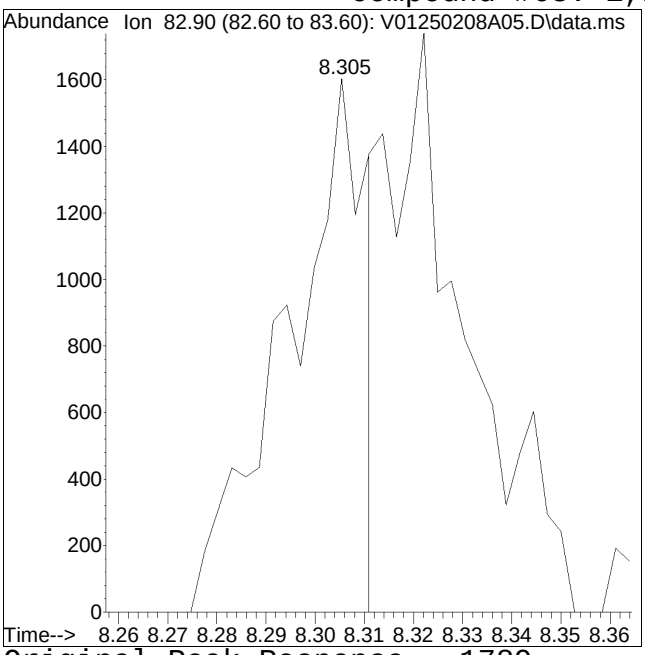
Manual Peak Response = 2339 M3

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

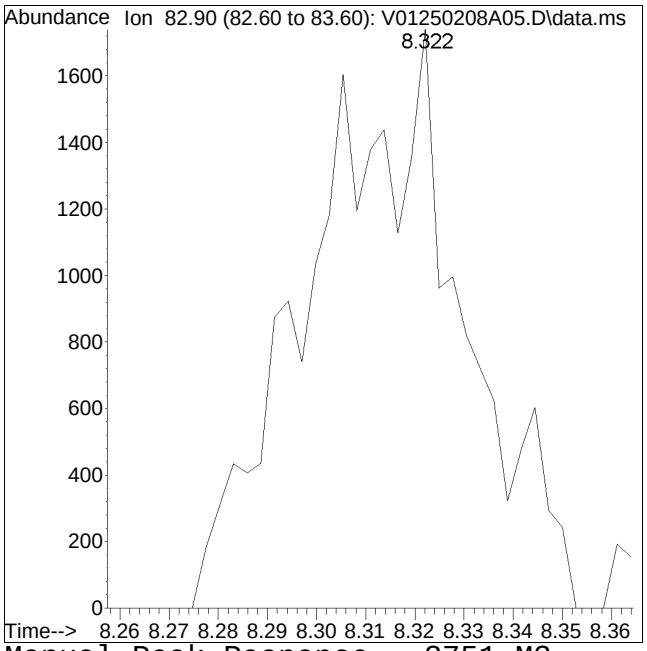
Manual Integration Report

Data Path : K:\VOA101\2025\250208AICALQMethod : V101_250208A_8260.m
Data File : V01250208A05.D Operator : VOA101:PID
Date Inj'd : 2/8/2025 2:22 am Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 2/11/2025 7:40 am

Compound #68: 1,1,2-Trichloroethane



Original Peak Response = 1789



Manual Peak Response = 3751 M3

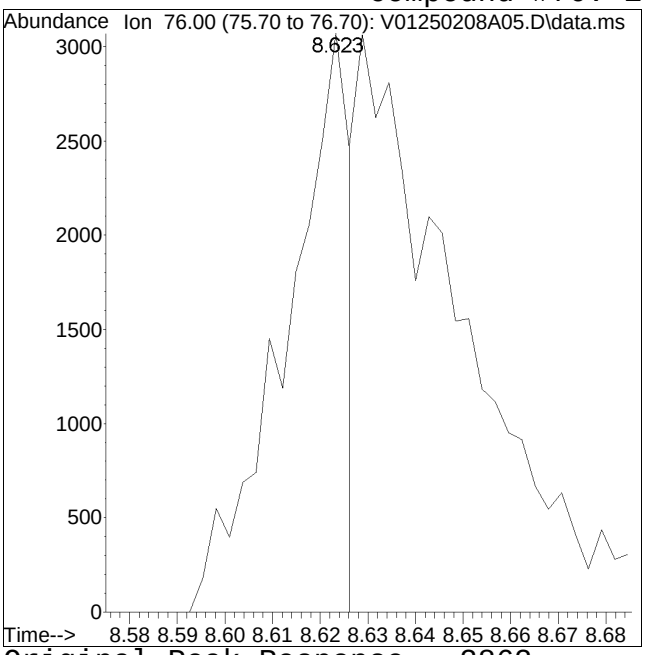
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

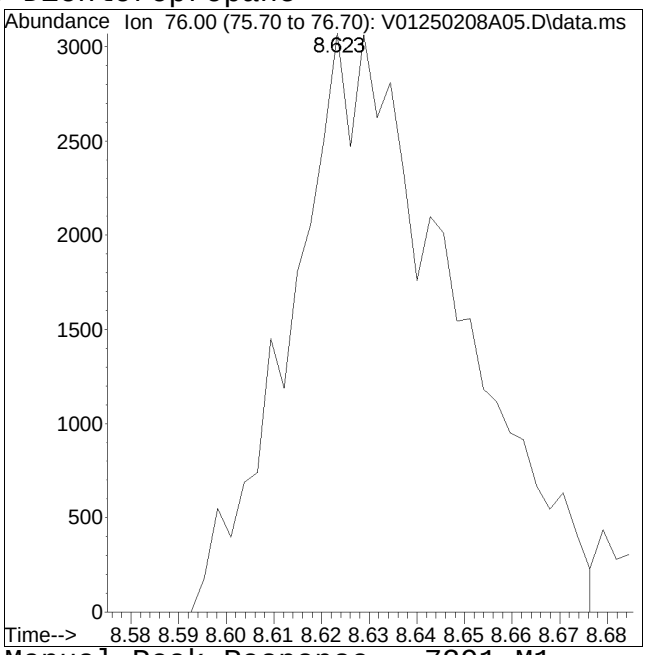
Data Path : K:\VOA101\2025\250208AICALQ
Data File : V01250208A05.D
Date Inj'd : 2/8/2025 2:22 am
Sample : I8260STD0.5PPB

Method : V101_250208A_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 2/11/2025 7:40 am

Compound #70: 1,3-Dichloropropane



Original Peak Response = 2862



Manual Peak Response = 7291 M1

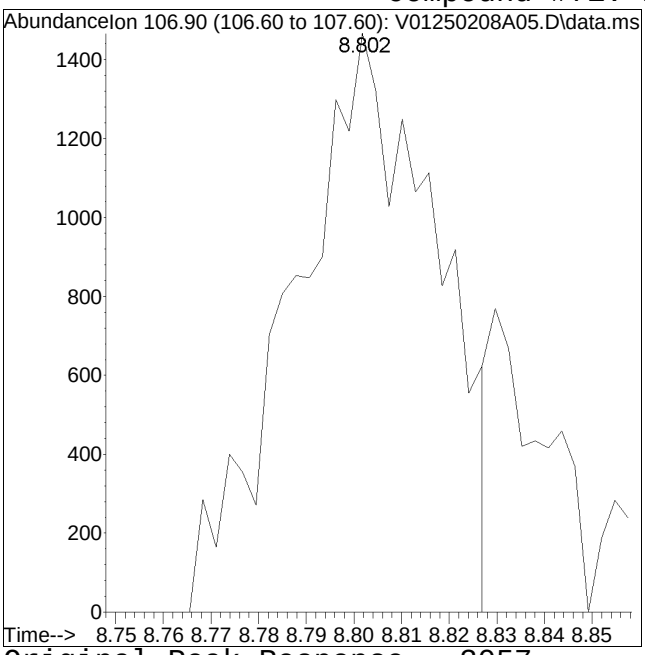
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

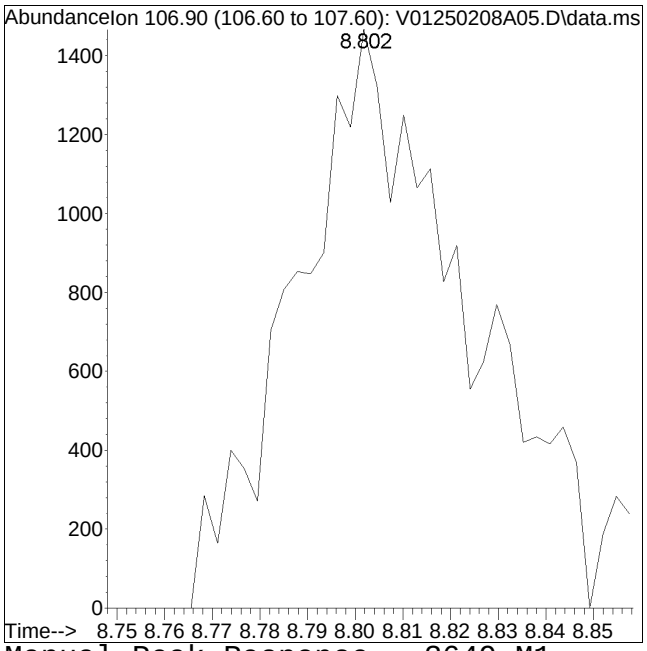
Data Path : K:\VOA101\2025\250208AICALQ
Data File : V01250208A05.D
Date Inj'd : 2/8/2025 2:22 am
Sample : I8260STD0.5PPB

Method : V101_250208A_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 2/11/2025 7:40 am

Compound #71: 1,2-Dibromoethane



Original Peak Response = 3057



Manual Peak Response = 3649 M1

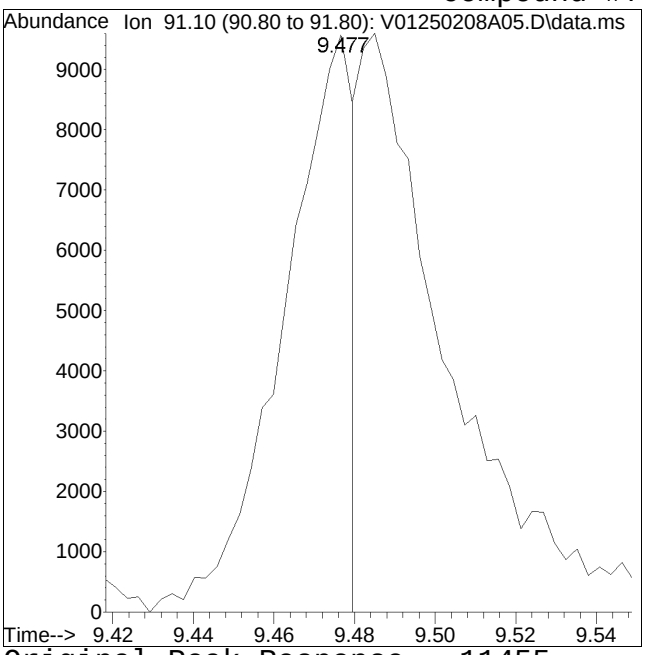
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

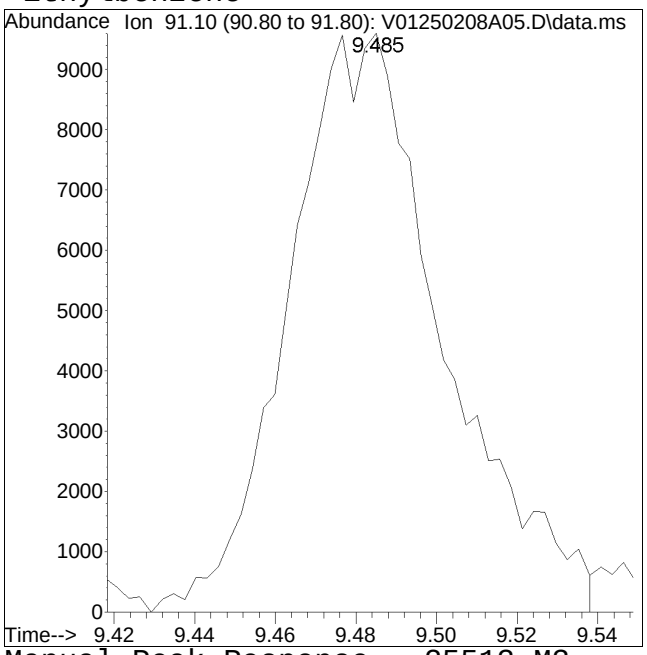
Manual Integration Report

Data Path : K:\VOA101\2025\250208AICALQ
Data File : V01250208A05.D
Date Inj'd : 2/8/2025 2:22 am
Sample : I8260STD0.5PPB

Method : V101_250208A_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 2/11/2025 7:40 am

Compound #74: Ethylbenzene





Original Peak Response = 11455 Manual Peak Response = 25513 M3

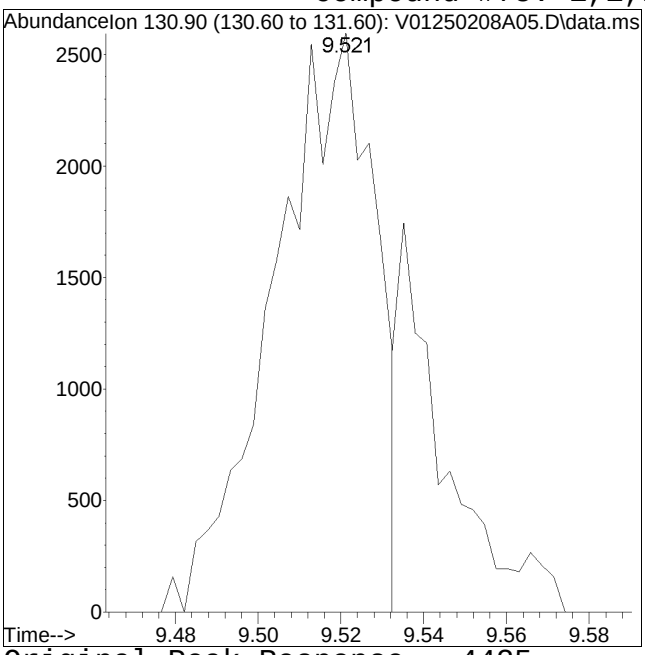
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

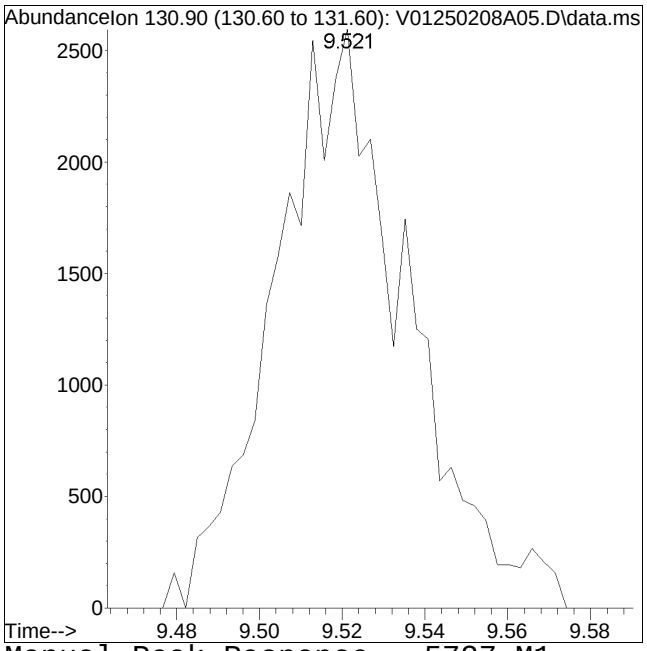
Data Path : K:\VOA101\2025\250208AICALQ
Data File : V01250208A05.D
Date Inj'd : 2/8/2025 2:22 am
Sample : I8260STD0.5PPB

Method : V101_250208A_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 2/11/2025 7:40 am

Compound #75: 1,1,1,2-Tetrachloroethane



Original Peak Response = 4425



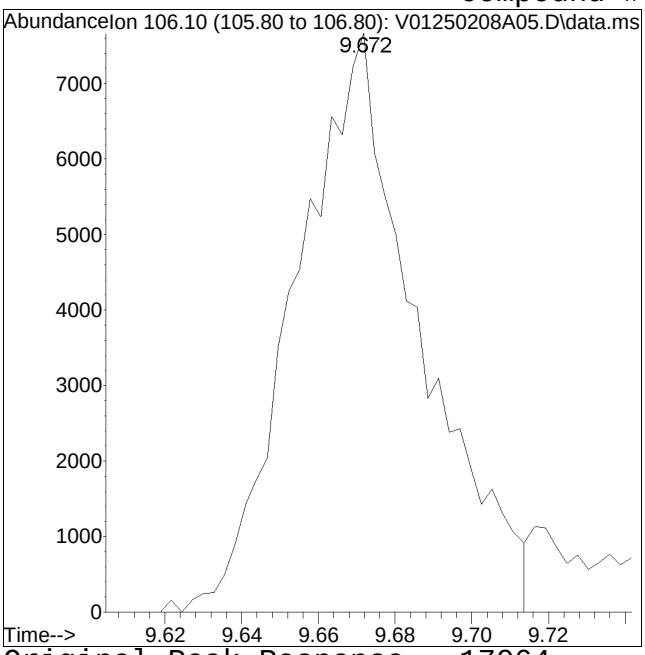
Manual Peak Response = 5727 M1

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

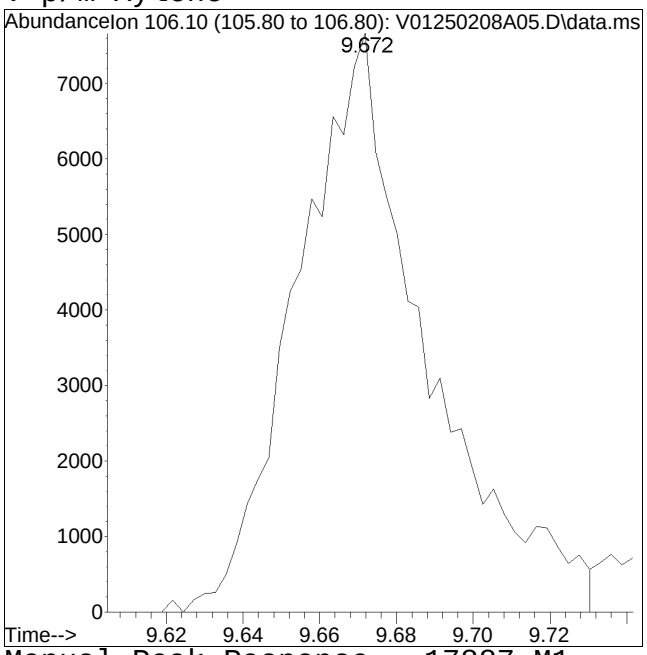
Manual Integration Report

Data Path : K:\VOA101\2025\250208AICALQMethod : V101_250208A_8260.m
Data File : V01250208A05.D Operator : VOA101:PID
Date Inj'd : 2/8/2025 2:22 am Instrument : VOA 101
Sample : I8260STD0.5PPB Quant Date : 2/11/2025 7:40 am

Compound #76: p/m Xylene



Original Peak Response = 17064



Manual Peak Response = 17887 M1

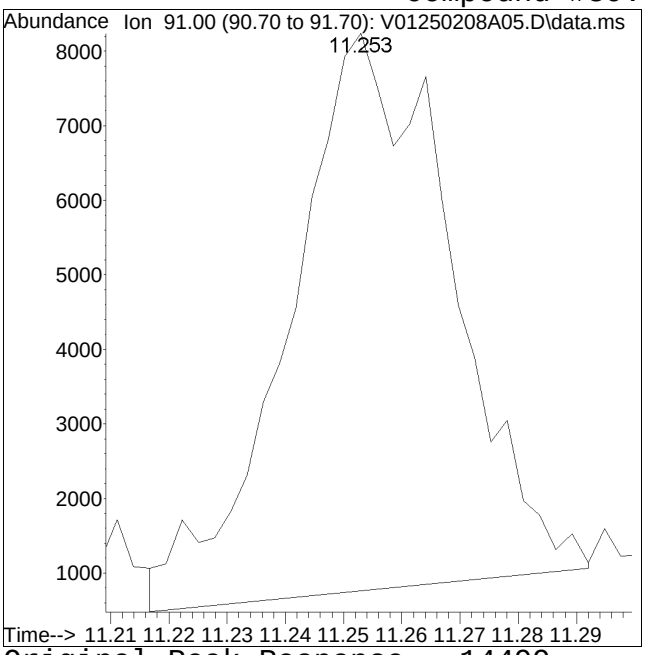
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

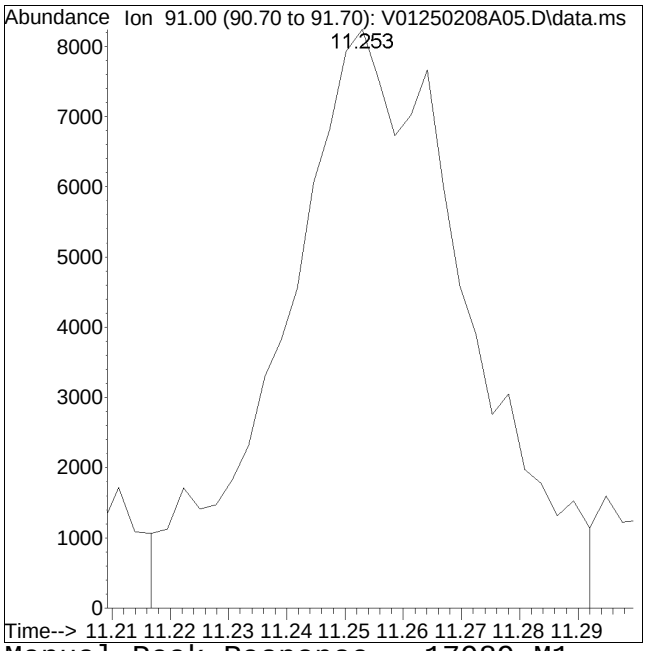
Data Path : K:\VOA101\2025\250208AICALQ
Data File : V01250208A05.D
Date Inj'd : 2/8/2025 2:22 am
Sample : I8260STD0.5PPB

Method : V101_250208A_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 2/11/2025 7:40 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 14499



Manual Peak Response = 17989 M1

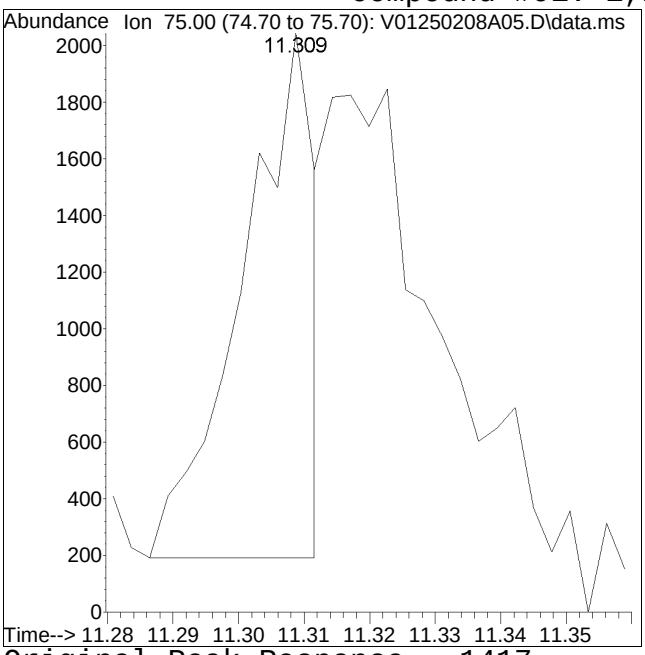
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

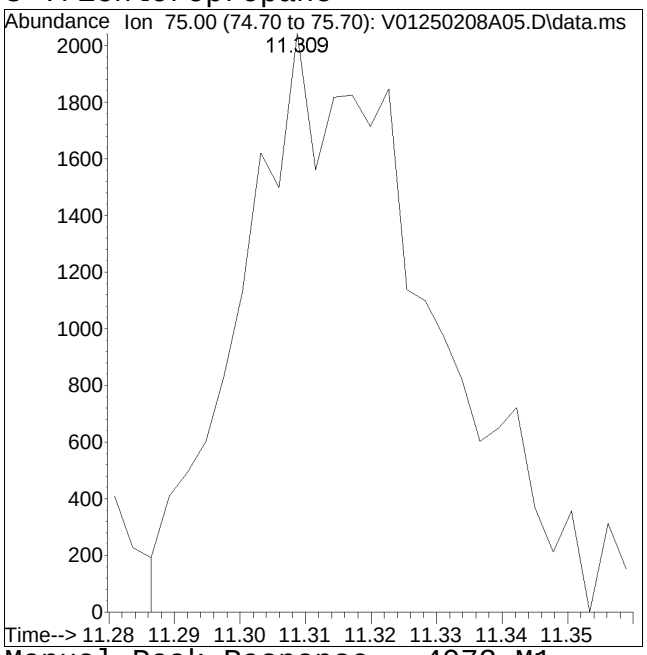
Data Path : K:\VOA101\2025\250208AICALQ
Data File : V01250208A05.D
Date Inj'd : 2/8/2025 2:22 am
Sample : I8260STD0.5PPB

Method : V101_250208A_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 2/11/2025 7:40 am

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 1417



Manual Peak Response = 4073 M1

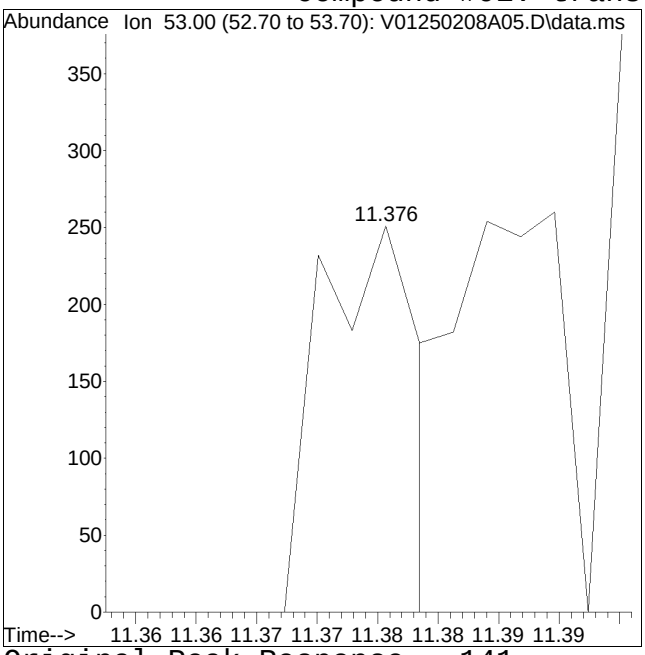
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

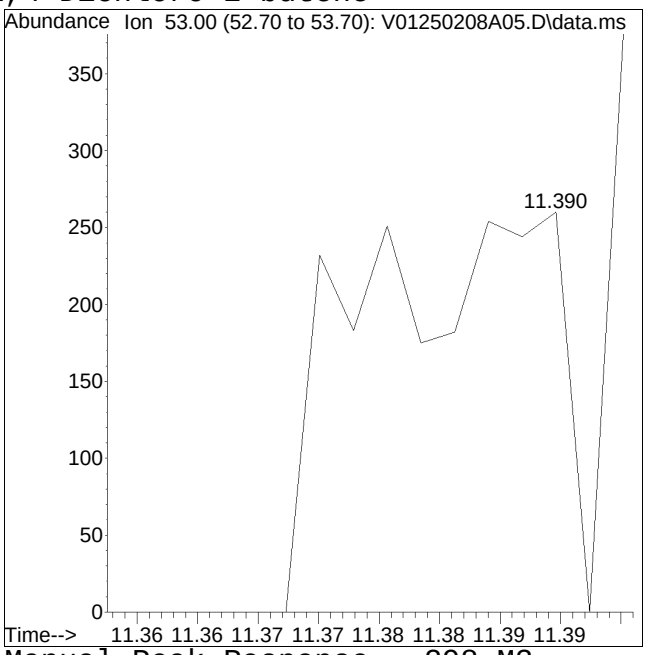
Data Path : K:\VOA101\2025\250208AICALQ
Data File : V01250208A05.D
Date Inj'd : 2/8/2025 2:22 am
Sample : I8260STD0.5PPB

Method : V101_250208A_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 2/11/2025 7:40 am

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



Original Peak Response = 141



Manual Peak Response = 298 M3

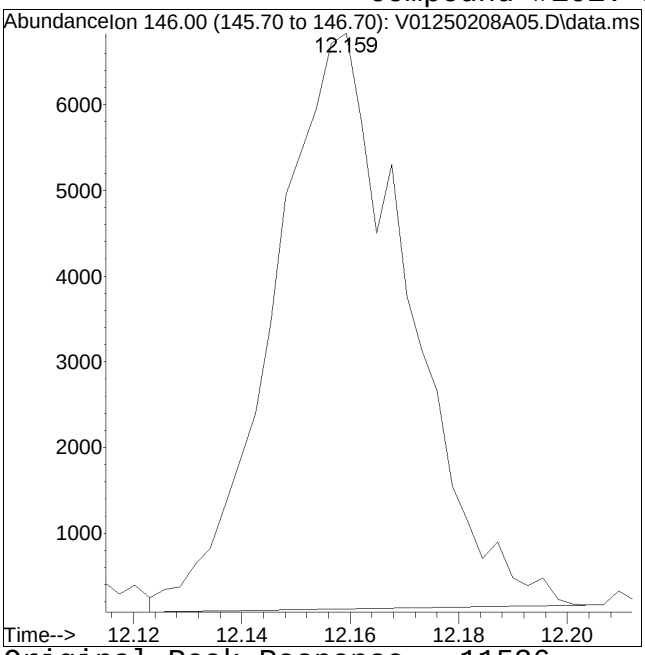
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

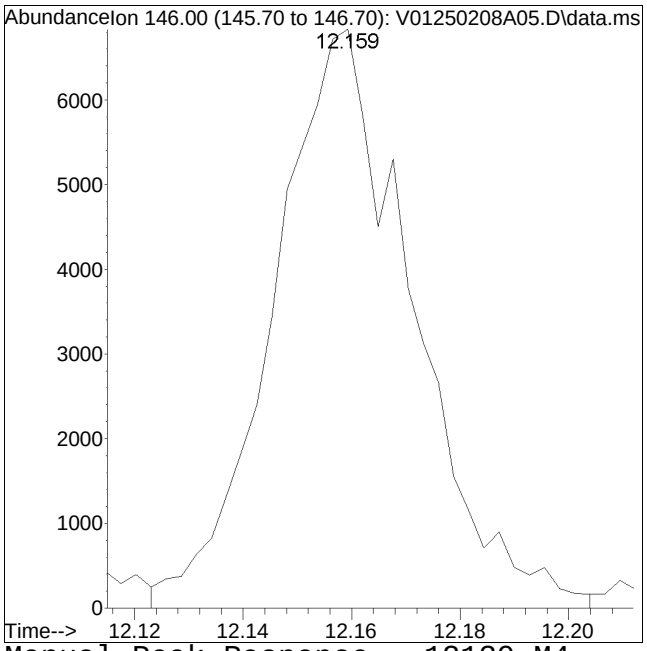
Data Path : K:\VOA101\2025\250208AICALQ
Data File : V01250208A05.D
Date Inj'd : 2/8/2025 2:22 am
Sample : I8260STD0.5PPB

Method : V101_250208A_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 2/11/2025 7:40 am

Compound #101: 1,4-Dichlorobenzene



Original Peak Response = 11536



Manual Peak Response = 12130 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2025\250208AICAL\
Data File : V01250208A07.D
Acq On : 8 Feb 2025 3:14 am
Operator : VOA101:PID
Sample : I8260STD2PPB
Misc : WG2028963,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 11 07:40:43 2025
Quant Method : K:\VOA101\2025\250208AICAL\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Feb 11 07:39:26 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2025\250208AICAL\V01250208A09.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.896	96	546831	10.000	ug/L	0.00
Standard Area 1 = 578930			Recovery = 94.46%			
59) Chlorobenzene-d5	9.410	117	402316	10.000	ug/L	0.00
Standard Area 1 = 424320			Recovery = 94.81%			
79) 1,4-Dichlorobenzene-d4	12.140	152	218035	10.000	ug/L	0.00
Standard Area 1 = 231124			Recovery = 94.34%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.098	113	138231	9.943	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.43%			
43) 1,2-Dichloroethane-d4	5.614	65	161803	10.147	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.47%			
60) Toluene-d8	7.572	98	538341	10.072	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.72%			
83) 4-Bromofluorobenzene	10.921	95	213902	10.020	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.20%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.621	85	28291	1.945	ug/L	99
3) Chloromethane	1.805	50	53722	1.996	ug/L	98
4) Vinyl chloride	1.872	62	32852	1.938	ug/L	100
5) Bromomethane	2.173	94	5569	1.411	ug/L	95
6) Chloroethane	2.285	64	16420	2.033	ug/L	92
7) Trichlorofluoromethane	2.418	101	35851	2.029	ug/L	96
8) Ethyl ether	2.711	74	8548	1.898	ug/L #	56
10) 1,1-Dichloroethene	2.890	96	23537	1.978	ug/L	84
11) Carbon disulfide	2.920	76	75245	1.909	ug/L	97
12) Freon-113	2.929	101	23058	1.902	ug/L #	63
13) Iodomethane	3.024	142	10340	1.162	ug/L	82
14) Acrolein	3.224	56	3094M3	1.767	ug/L	
15) Methylene chloride	3.431	84	27663	1.948	ug/L	75
17) Acetone	3.484	43	8056	2.111	ug/L #	78
18) trans-1,2-Dichloroethene	3.581	96	27318	2.056	ug/L	90
19) Methyl acetate	3.601	43	12886	1.875	ug/L #	87
20) Methyl tert-butyl ether	3.679	73	51398	1.848	ug/L #	77
21) tert-Butyl alcohol	3.779	59	5895	8.388	ug/L #	79
22) Diisopropyl ether	4.030	45	105954	1.898	ug/L #	89
23) 1,1-Dichloroethane	4.153	63	56641	1.982	ug/L	98
24) Halothane	4.206	117	19569	2.020	ug/L #	64

Data Path : K:\VOA101\2025\250208AICAL\
Data File : V01250208A07.D
Acq On : 8 Feb 2025 3:14 am
Operator : VOA101:PID
Sample : I8260STD2PPB
Misc : WG2028963,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 11 07:40:43 2025
Quant Method : K:\VOA101\2025\250208AICAL\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Feb 11 07:39:26 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2025\250208AICAL\V01250208A09.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.200	53	5885M1	1.788	ug/L		
26) Ethyl tert-butyl ether	4.371	59	74872	1.843	ug/L	#	86
27) Vinyl acetate	4.396	43	48388	1.716	ug/L	#	94
28) cis-1,2-Dichloroethene	4.663	96	28408	1.953	ug/L		87
29) 2,2-Dichloropropane	4.755	77	33873	1.930	ug/L		84
30) Bromochloromethane	4.856	128	12144	2.117	ug/L	#	70
31) Cyclohexane	4.856	56	55161	1.836	ug/L		83
32) Chloroform	4.928	83	46121	1.952	ug/L		97
33) Ethyl acetate	5.045	43	13659	1.493	ug/L	#	83
34) Carbon tetrachloride	5.051	117	34101	1.979	ug/L		96
35) Tetrahydrofuran	5.082	42	5623M1	1.981	ug/L		
37) 1,1,1-Trichloroethane	5.121	97	40096	1.979	ug/L	#	94
39) 2-Butanone	5.227	43	6692M1	1.704	ug/L		
40) 1,1-Dichloropropene	5.243	75	33200	1.877	ug/L		98
41) Benzene	5.486	78	102255	1.976	ug/L		93
42) tert-Amyl methyl ether	5.592	73	48607	1.747	ug/L	#	73
44) 1,2-Dichloroethane	5.684	62	34011	1.989	ug/L		74
47) Methyl cyclohexane	6.066	83	41052	1.768	ug/L	#	71
48) Trichloroethene	6.080	95	28610	2.002	ug/L	#	78
50) Dibromomethane	6.518	93	12857	1.954	ug/L	#	78
51) 1,2-Dichloropropane	6.613	63	30955	1.960	ug/L		95
54) Bromodichloromethane	6.693	83	33357	1.902	ug/L		97
57) 1,4-Dioxane	6.900	88	25640M1	364.909	ug/L		
58) cis-1,3-Dichloropropene	7.379	75	30057M3	1.665	ug/L		
61) Toluene	7.636	92	62570	1.947	ug/L		99
62) 4-Methyl-2-pentanone	8.074	58	4594M3	1.478	ug/L		
63) Tetrachloroethene	8.091	166	26024	1.981	ug/L	#	74
65) trans-1,3-Dichloropropene	8.121	75	23550	1.644	ug/L		97
67) Ethyl methacrylate	8.319	69	14362M1	1.438	ug/L		
68) 1,1,2-Trichloroethane	8.303	83	16126M1	2.003	ug/L		
69) Chlorodibromomethane	8.514	129	19642	1.767	ug/L		93
70) 1,3-Dichloropropane	8.623	76	30653	1.860	ug/L		100
71) 1,2-Dibromoethane	8.796	107	15788M1	1.808	ug/L		
72) 2-Hexanone	9.100	43	7642M1	1.409	ug/L		
73) Chlorobenzene	9.432	112	69977	1.962	ug/L	#	64
74) Ethylbenzene	9.474	91	115953	1.868	ug/L		99
75) 1,1,1,2-Tetrachloroethane	9.513	131	23371	1.870	ug/L	#	79
76) p/m Xylene	9.661	106	90546	3.823	ug/L		99
77) o Xylene	10.202	106	86948	3.802	ug/L		99
78) Styrene	10.277	104	125852	3.590	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2025\250208AICAL\
Data File : V01250208A07.D
Acq On : 8 Feb 2025 3:14 am
Operator : VOA101:PID
Sample : I8260STD2PPB
Misc : WG2028963,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 11 07:40:43 2025
Quant Method : K:\VOA101\2025\250208AICAL\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Feb 11 07:39:26 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2025\250208AICAL\V01250208A09.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) Bromoform	10.302	173	10787	1.778	ug/L		98
82) Isopropylbenzene	10.595	105	112480	1.872	ug/L		99
84) Bromobenzene	11.041	156	26167M3	1.930	ug/L		
85) n-Propylbenzene	11.080	91	135665	1.914	ug/L		99
86) 1,4-Dichlorobutane	11.094	55	35339	1.918	ug/L		96
87) 1,1,2,2-Tetrachloroethane	11.175	83	21110	1.944	ug/L		98
88) 4-Ethyltoluene	11.208	105	108921	1.869	ug/L		99
89) 2-Chlorotoluene	11.250	91	85575M1	1.995	ug/L		
90) 1,3,5-Trimethylbenzene	11.306	105	92807	1.924	ug/L		95
91) 1,2,3-Trichloropropane	11.309	75	16796M1	1.994	ug/L		
92) trans-1,4-Dichloro-2-b...	11.373	53	3564	1.694	ug/L	#	23
93) 4-Chlorotoluene	11.437	91	79979	1.876	ug/L		96
94) tert-Butylbenzene	11.646	119	76611	1.843	ug/L		99
97) 1,2,4-Trimethylbenzene	11.727	105	84146	1.841	ug/L		100
98) sec-Butylbenzene	11.841	105	107929	1.857	ug/L		98
99) p-Isopropyltoluene	11.997	119	88724	1.795	ug/L		98
100) 1,3-Dichlorobenzene	12.067	146	47256	1.916	ug/L		98
101) 1,4-Dichlorobenzene	12.154	146	48774	1.929	ug/L		95
102) p-Diethylbenzene	12.371	119	48210	1.721	ug/L		98
103) n-Butylbenzene	12.430	91	70230	1.764	ug/L		97
104) 1,2-Dichlorobenzene	12.583	146	41689	1.908	ug/L		98
105) 1,2,4,5-Tetramethylben...	13.169	119	59634	1.599	ug/L		98
106) 1,2-Dibromo-3-chloropr...	13.367	155	1788	1.578	ug/L		87
107) 1,3,5-Trichlorobenzene	13.400	180	23953	1.789	ug/L		97
108) Hexachlorobutadiene	13.972	225	8855	1.810	ug/L		96
109) 1,2,4-Trichlorobenzene	14.002	180	17598	1.702	ug/L		96
110) Naphthalene	14.298	128	28965	1.533	ug/L		100
111) 1,2,3-Trichlorobenzene	14.465	180	13159	1.665	ug/L	#	93

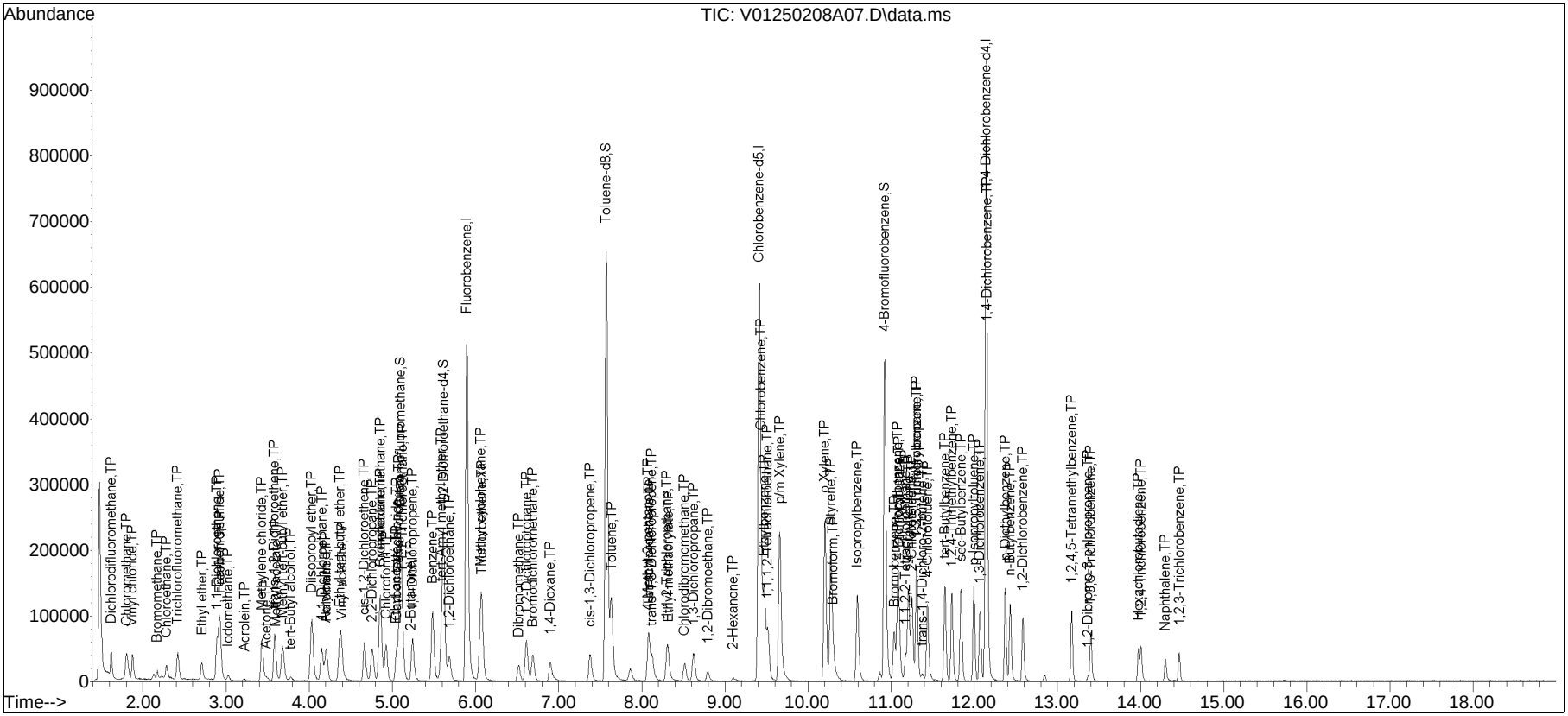
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2025\250208AICAL\
Data File : V01250208A07.D
Acq On : 8 Feb 2025 3:14 am
Operator : VOA101:PID
Sample : I8260STD2PPB
Misc : WG2028963,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 11 07:40:43 2025
Quant Method : K:\VOA101\2025\250208AICAL\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Feb 11 07:39:26 2025
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE208A09.D•

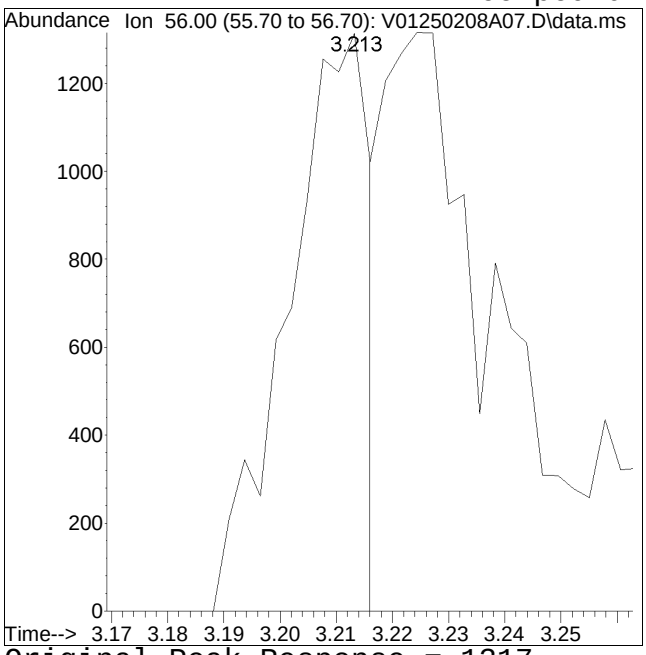


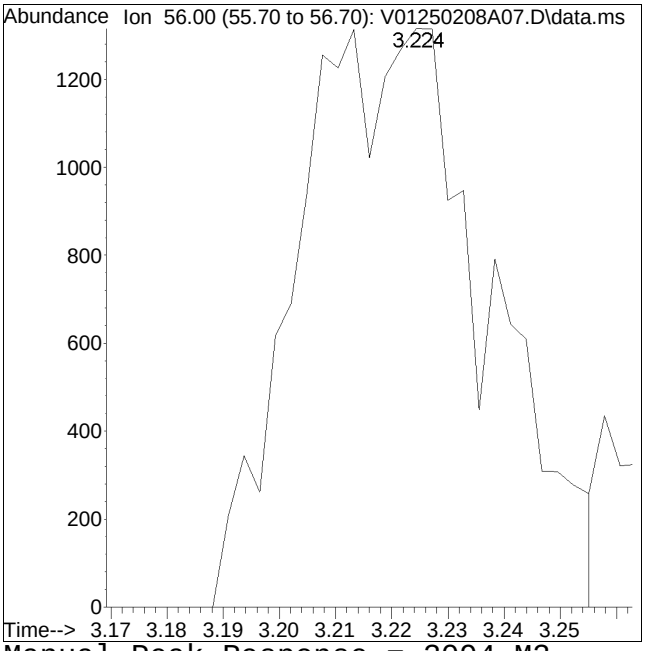
Manual Integration Report

Data Path : K:\VOA101\2025\250208AICALQ
Data File : V01250208A07.D
Date Inj'd : 2/8/2025 3:14 am
Sample : I8260STD2PPB

Method : V101_250208A_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 2/11/2025 7:40 am

Compound #14: Acrolein





Original Peak Response = 1317 Manual Peak Response = 3094 M3

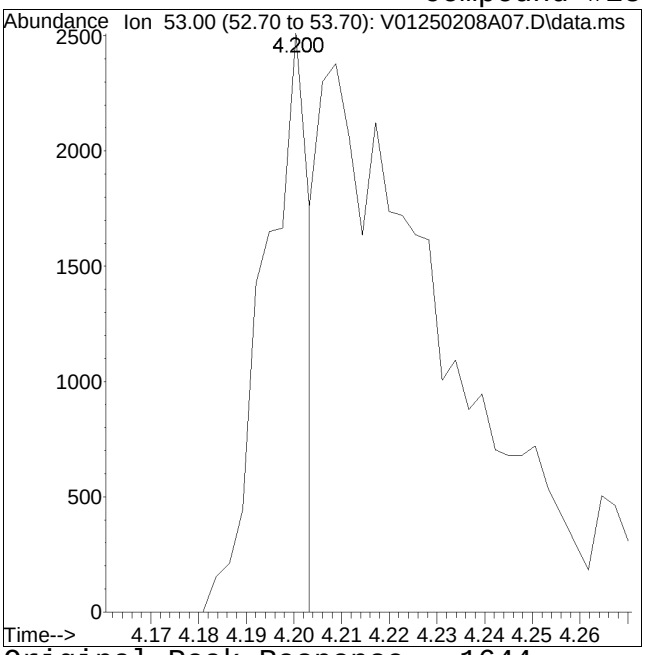
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

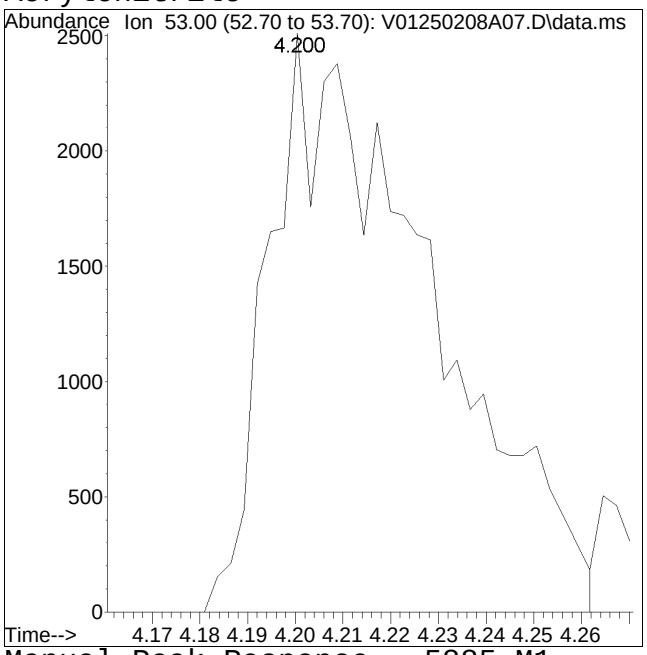
Data Path : K:\VOA101\2025\250208AICALQ
Data File : V01250208A07.D
Date Inj'd : 2/8/2025 3:14 am
Sample : I8260STD2PPB

Method : V101_250208A_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 2/11/2025 7:40 am

Compound #25: Acrylonitrile



Original Peak Response = 1644



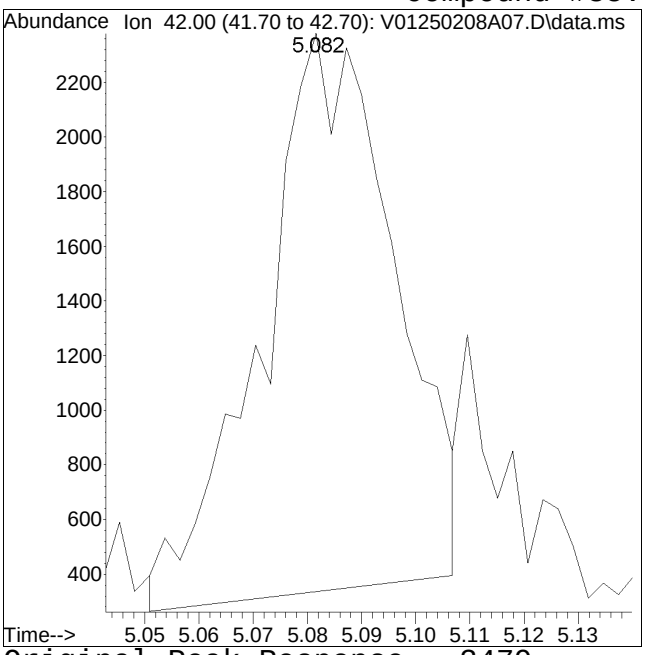
Manual Peak Response = 5885 M1

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

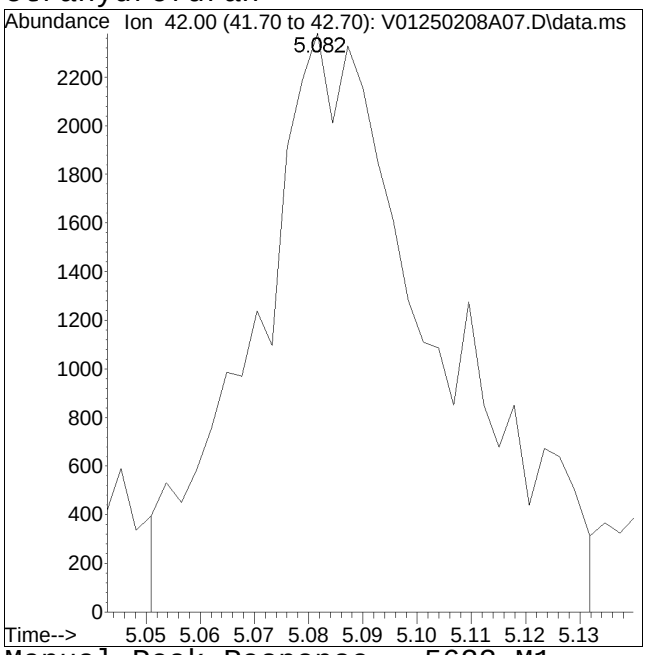
Manual Integration Report

Data Path : K:\VOA101\2025\250208AICALQMethod : V101_250208A_8260.m
Data File : V01250208A07.D Operator : VOA101:PID
Date Inj'd : 2/8/2025 3:14 am Instrument : VOA 101
Sample : I8260STD2PPB Quant Date : 2/11/2025 7:40 am

Compound #35: Tetrahydrofuran



Original Peak Response = 3479



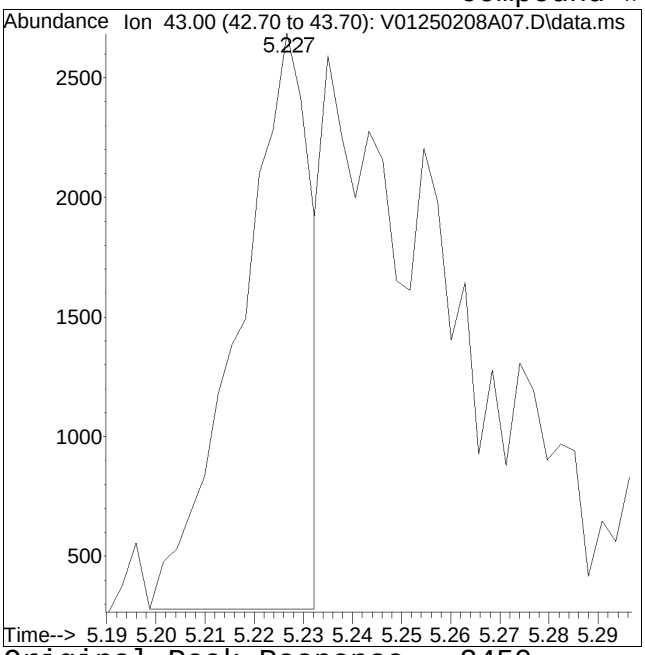
Manual Peak Response = 5623 M1

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

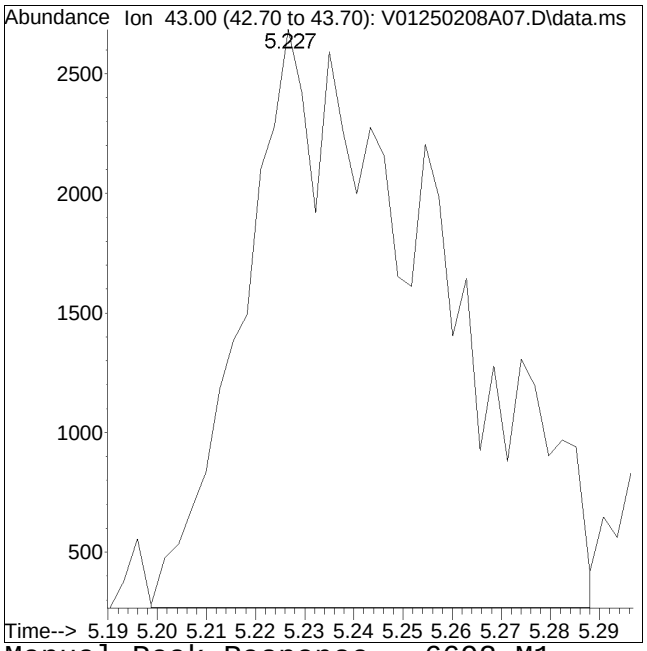
Manual Integration Report

Data Path : K:\VOA101\2025\250208AICALQMethod : V101_250208A_8260.m
Data File : V01250208A07.D Operator : VOA101:PID
Date Inj'd : 2/8/2025 3:14 am Instrument : VOA 101
Sample : I8260STD2PPB Quant Date : 2/11/2025 7:40 am

Compound #39: 2-Butanone



Original Peak Response = 2450



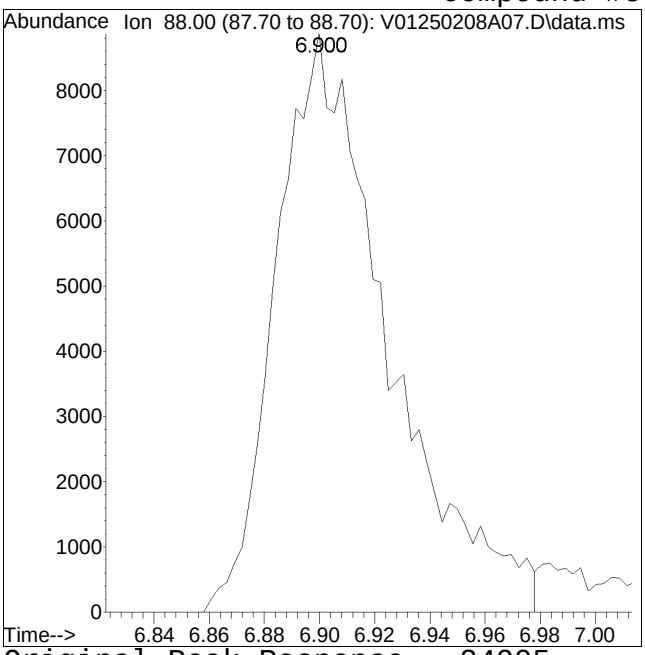
Manual Peak Response = 6692 M1

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

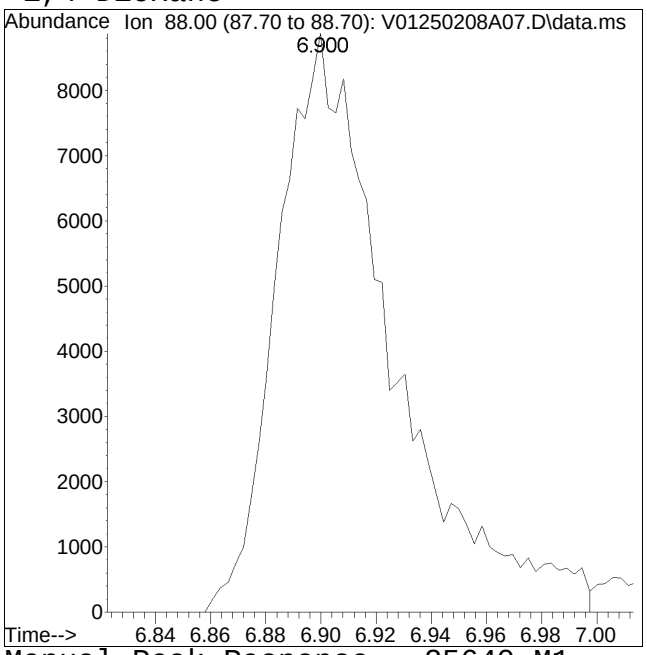
Manual Integration Report

Data Path : K:\VOA101\2025\250208AICALQMethod : V101_250208A_8260.m
Data File : V01250208A07.D Operator : VOA101:PID
Date Inj'd : 2/8/2025 3:14 am Instrument : VOA 101
Sample : I8260STD2PPB Quant Date : 2/11/2025 7:40 am

Compound #57: 1,4-Dioxane



Original Peak Response = 24905



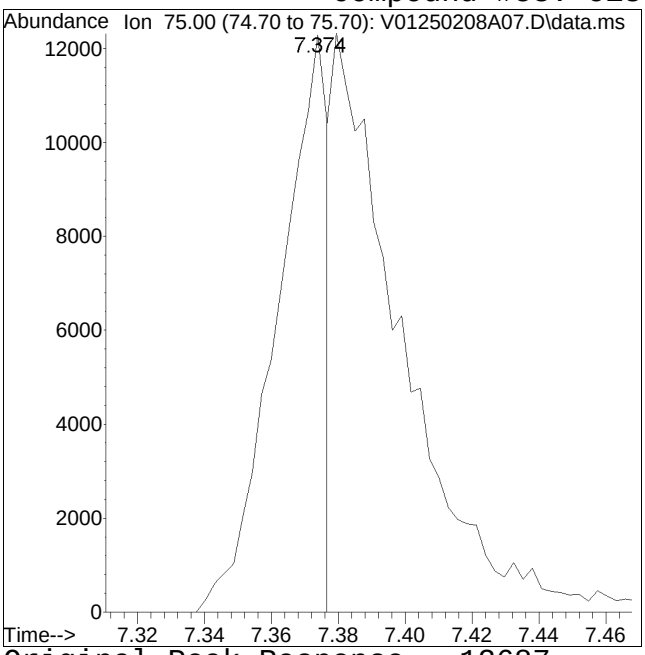
Manual Peak Response = 25640 M1

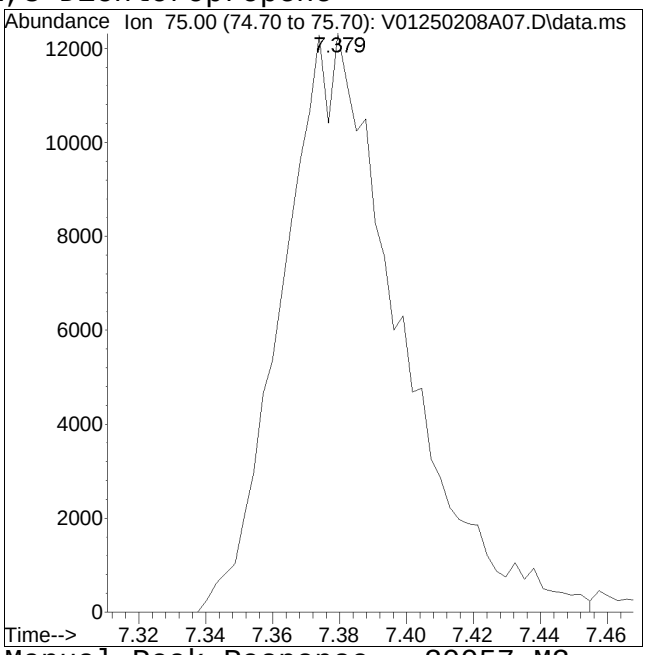
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : K:\VOA101\2025\250208AICALQMethod : V101_250208A_8260.m
Data File : V01250208A07.D Operator : VOA101:PID
Date Inj'd : 2/8/2025 3:14 am Instrument : VOA 101
Sample : I8260STD2PPB Quant Date : 2/11/2025 7:40 am

Compound #58: cis-1,3-Dichloropropene





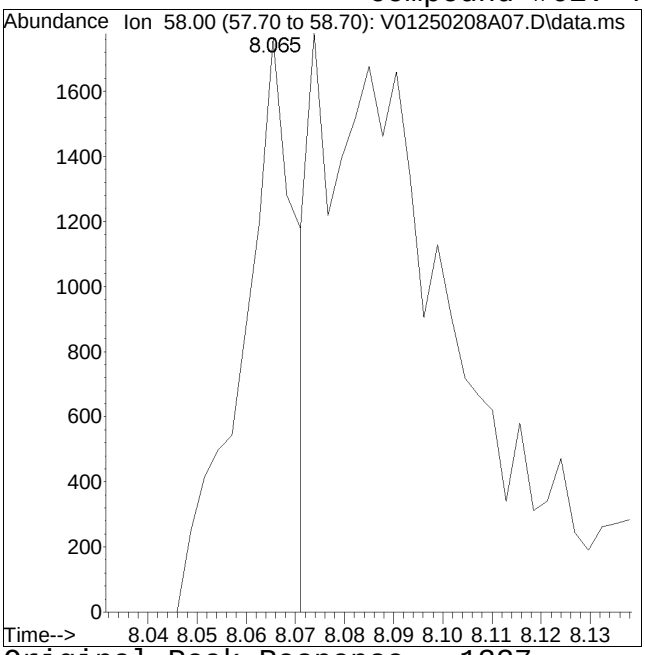
Original Peak Response = 12687 Manual Peak Response = 30057 M3

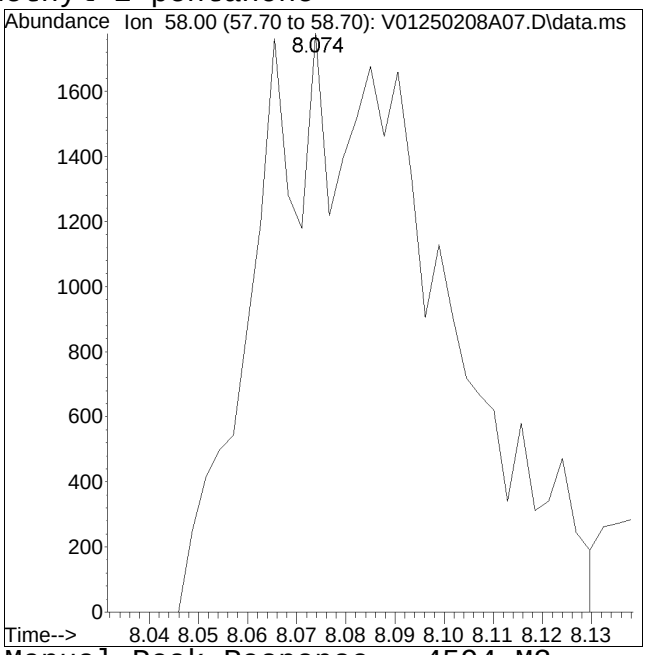
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : K:\VOA101\2025\250208AICALQMethod : V101_250208A_8260.m
Data File : V01250208A07.D Operator : VOA101:PID
Date Inj'd : 2/8/2025 3:14 am Instrument : VOA 101
Sample : I8260STD2PPB Quant Date : 2/11/2025 7:40 am

Compound #62: 4-Methyl-2-pentanone





Original Peak Response = 1337 Manual Peak Response = 4594 M3

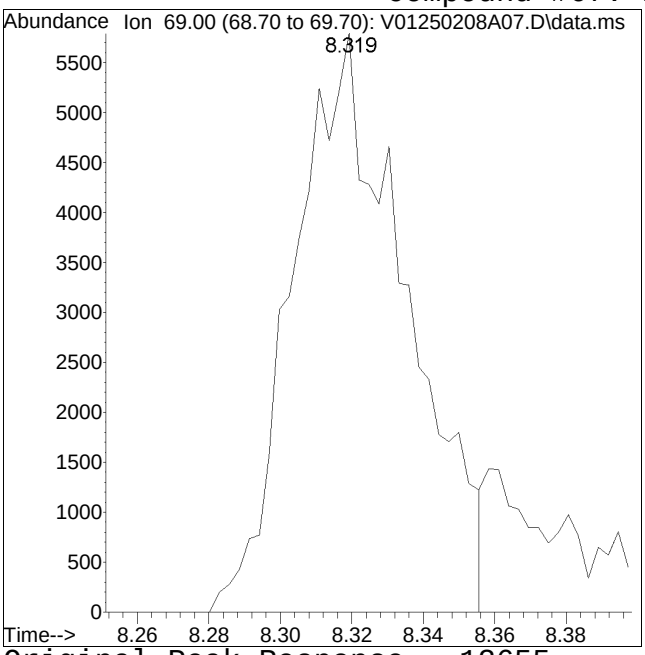
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

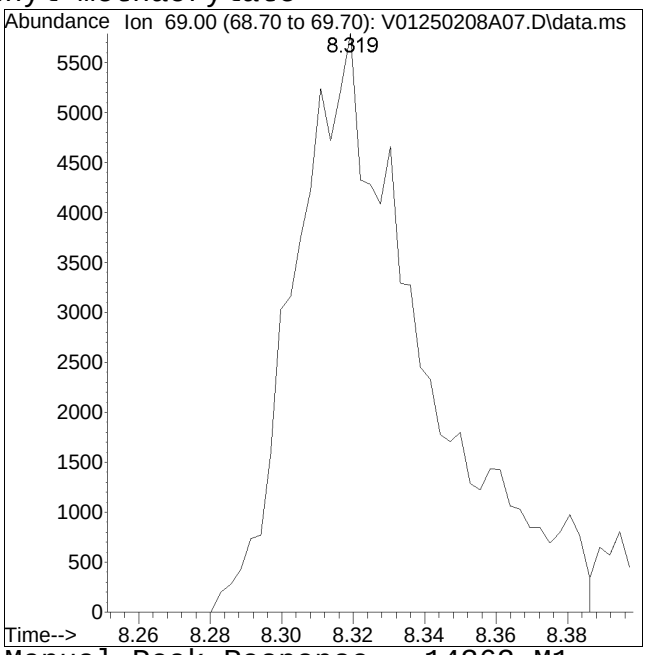
Data Path : K:\VOA101\2025\250208AICALQ
Data File : V01250208A07.D
Date Inj'd : 2/8/2025 3:14 am
Sample : I8260STD2PPB

Method : V101_250208A_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 2/11/2025 7:40 am

Compound #67: Ethyl methacrylate



Original Peak Response = 12655



Manual Peak Response = 14362 M1

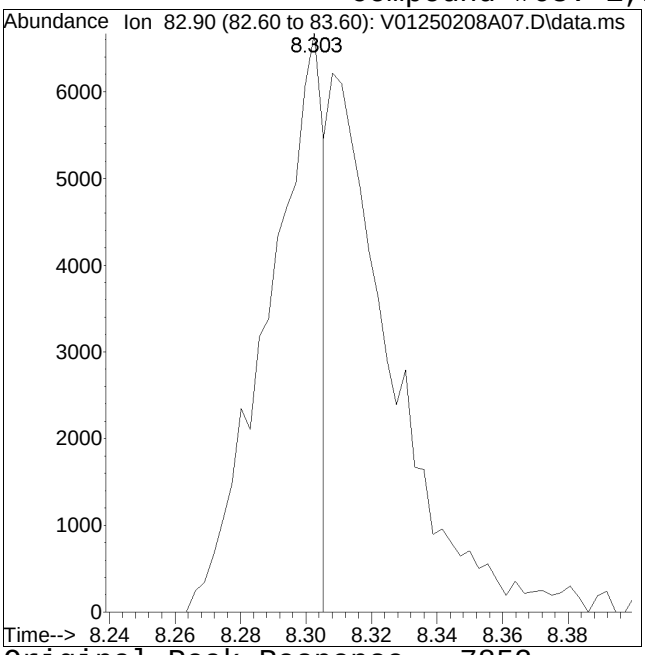
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

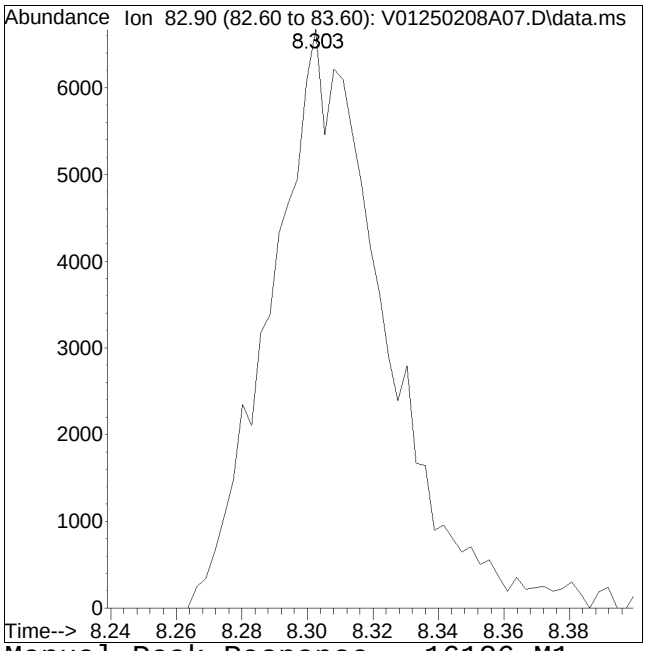
Data Path : K:\VOA101\2025\250208AICALQ
Data File : V01250208A07.D
Date Inj'd : 2/8/2025 3:14 am
Sample : I8260STD2PPB

Method : V101_250208A_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 2/11/2025 7:40 am

Compound #68: 1,1,2-Trichloroethane



Original Peak Response = 7852



Manual Peak Response = 16126 M1

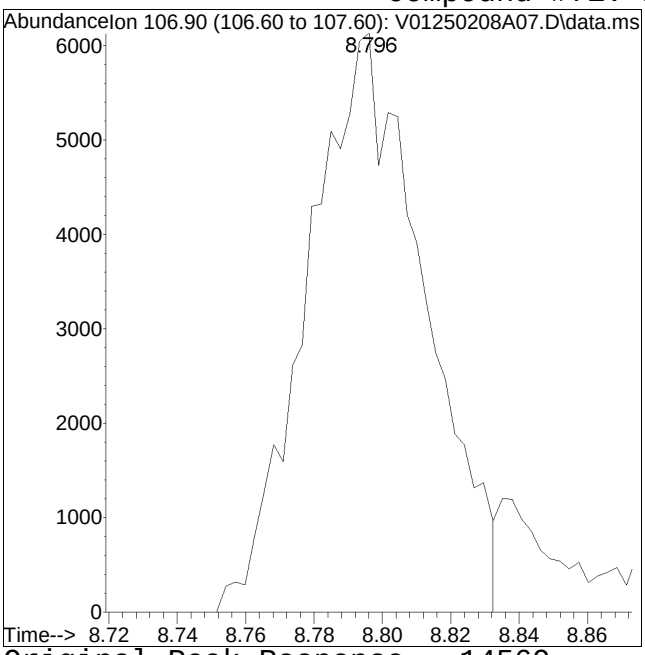
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

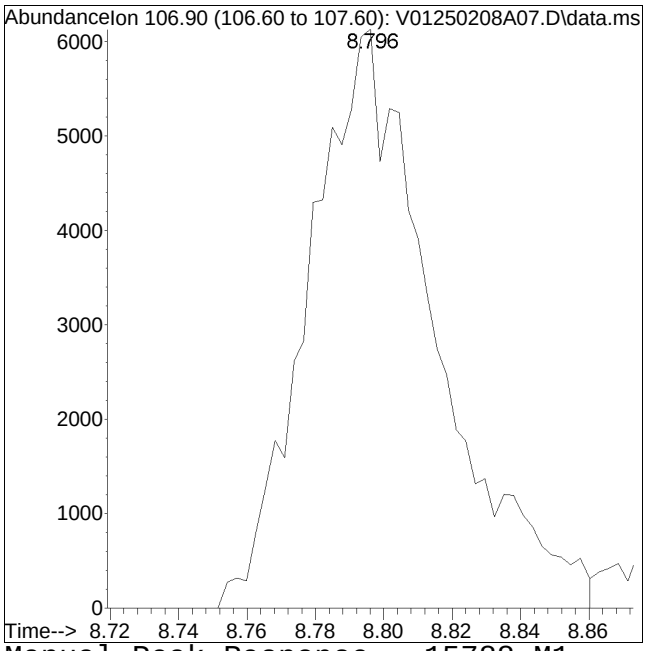
Data Path : K:\VOA101\2025\250208AICALQ
Data File : V01250208A07.D
Date Inj'd : 2/8/2025 3:14 am
Sample : I8260STD2PPB

Method : V101_250208A_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 2/11/2025 7:40 am

Compound #71: 1,2-Dibromoethane



Original Peak Response = 14569



Manual Peak Response = 15788 M1

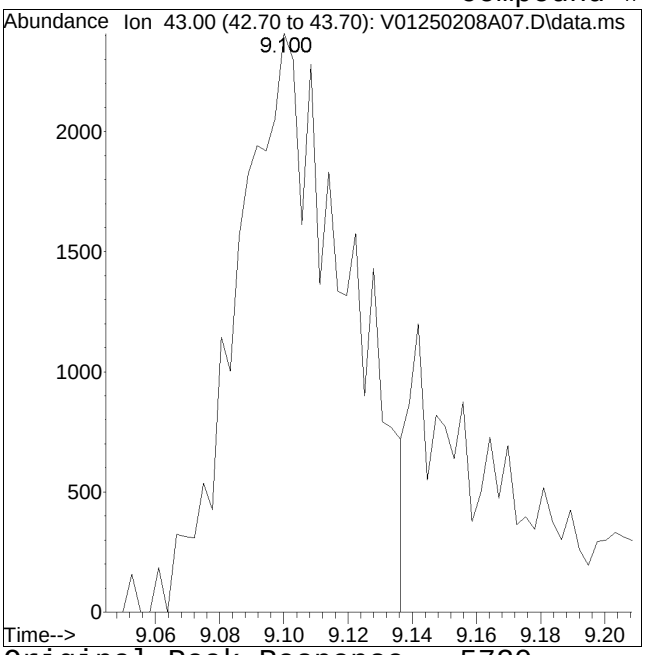
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

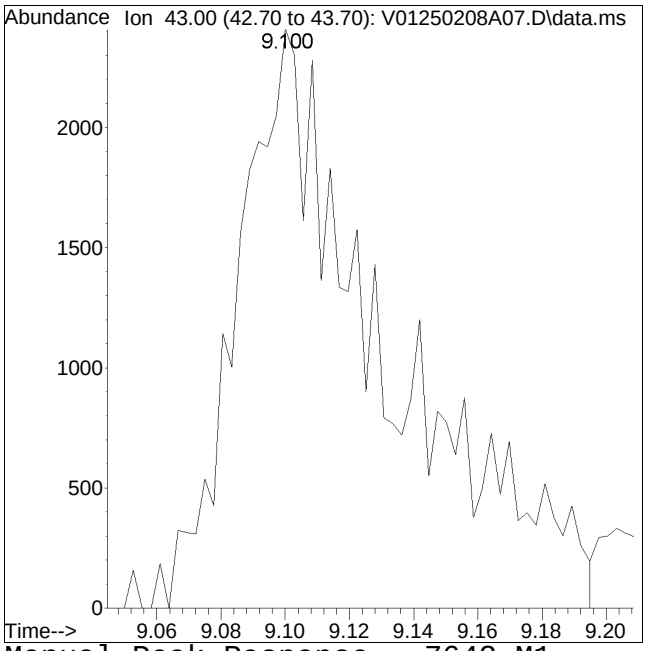
Data Path : K:\VOA101\2025\250208AICALQ
Data File : V01250208A07.D
Date Inj'd : 2/8/2025 3:14 am
Sample : I8260STD2PPB

Method : V101_250208A_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 2/11/2025 7:40 am

Compound #72: 2-Hexanone



Original Peak Response = 5720



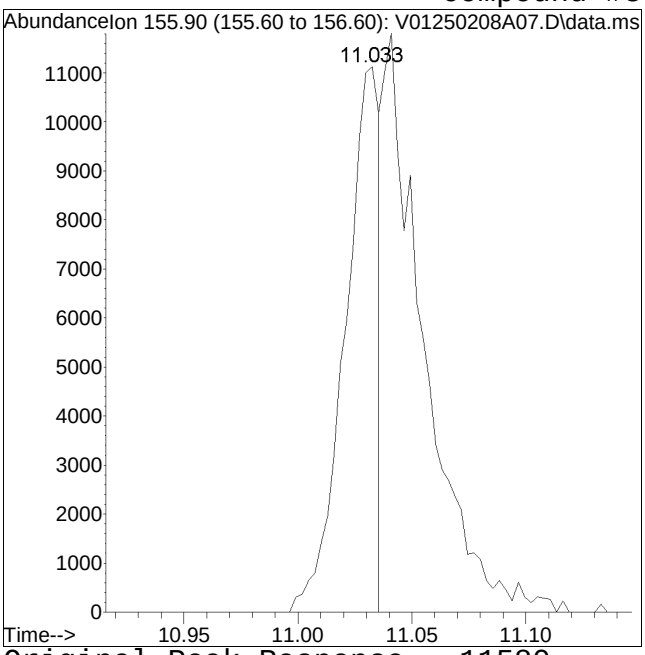
Manual Peak Response = 7642 M1

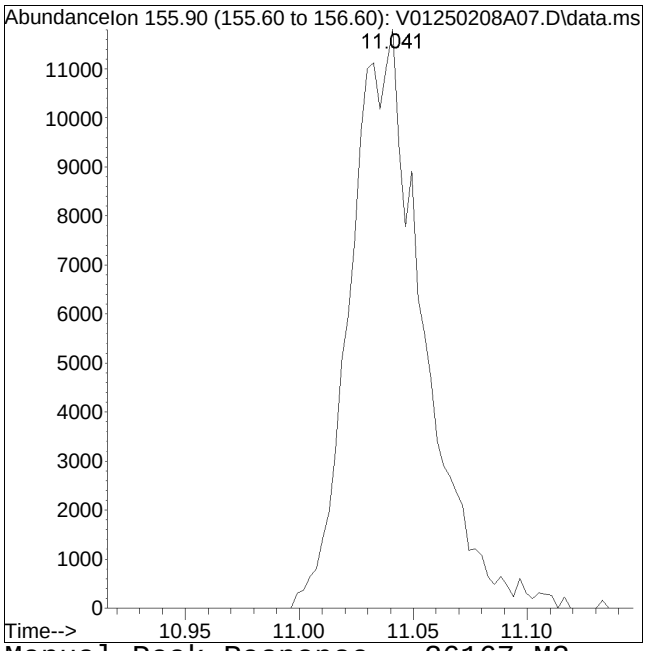
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : K:\VOA101\2025\250208AICALQMethod : V101_250208A_8260.m
Data File : V01250208A07.D Operator : VOA101:PID
Date Inj'd : 2/8/2025 3:14 am Instrument : VOA 101
Sample : I8260STD2PPB Quant Date : 2/11/2025 7:40 am

Compound #84: Bromobenzene





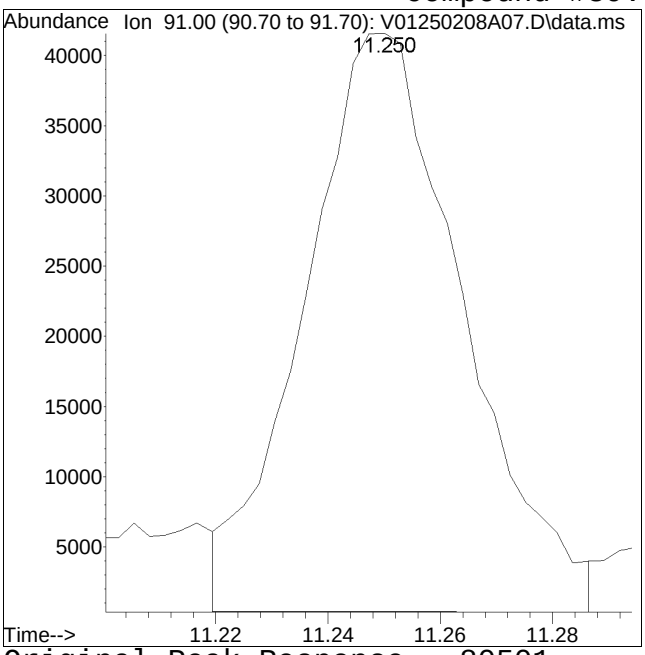
Original Peak Response = 11580 Manual Peak Response = 26167 M3

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

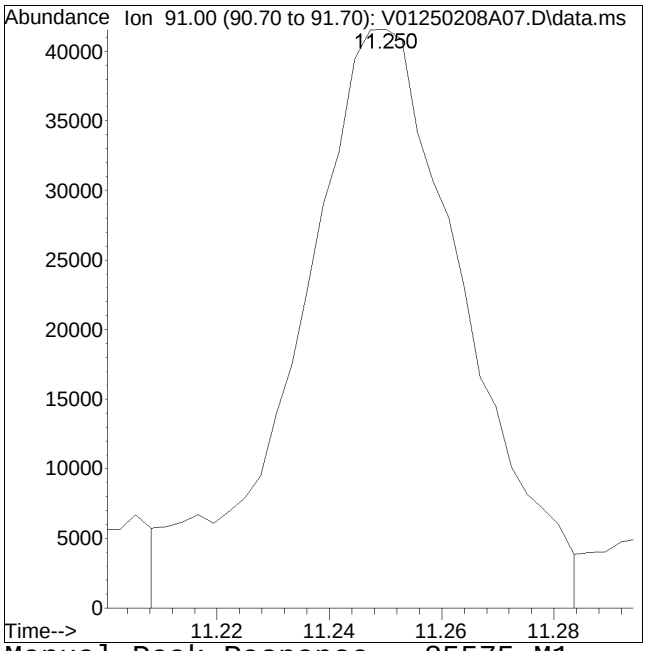
Manual Integration Report

Data Path : K:\VOA101\2025\250208AICALQMethod : V101_250208A_8260.m
Data File : V01250208A07.D Operator : VOA101:PID
Date Inj'd : 2/8/2025 3:14 am Instrument : VOA 101
Sample : I8260STD2PPB Quant Date : 2/11/2025 7:40 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 80501



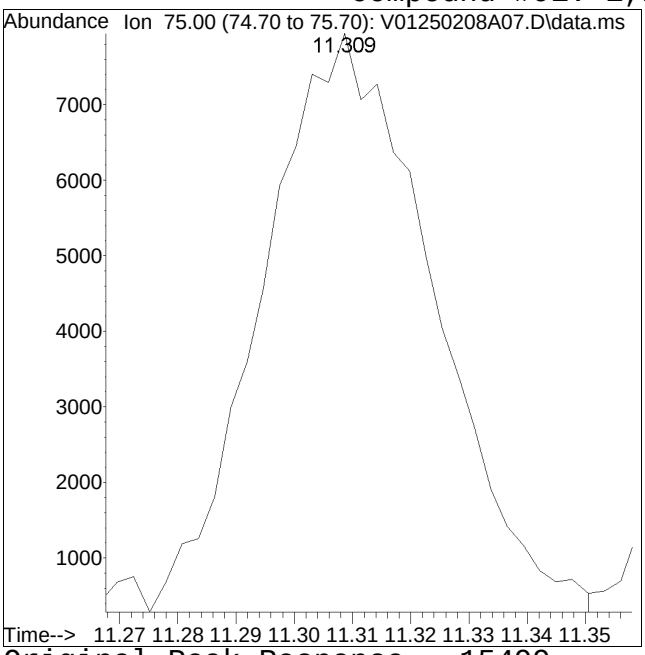
Manual Peak Response = 85575 M1

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

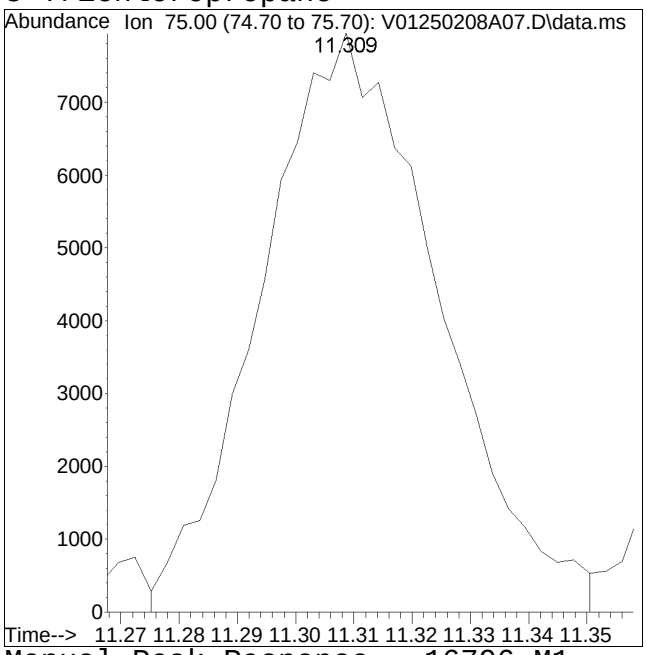
Manual Integration Report

Data Path : K:\VOA101\2025\250208AICALQMethod : V101_250208A_8260.m
Data File : V01250208A07.D Operator : VOA101:PID
Date Inj'd : 2/8/2025 3:14 am Instrument : VOA 101
Sample : I8260STD2PPB Quant Date : 2/11/2025 7:40 am

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 15499



Manual Peak Response = 16796 M1

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2025\250208AICAL\
Data File : V01250208A09.D
Acq On : 8 Feb 2025 4:07 am
Operator : VOA101:PID
Sample : I8260STD10PPB
Misc : WG2028963,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 11 07:40:51 2025
Quant Method : K:\VOA101\2025\250208AICAL\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Feb 11 07:39:26 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2025\250208AICAL\V01250208A09.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.899	96	578930	10.000	ug/L	0.00
Standard Area 1 = 578930			Recovery = 100.00%			
59) Chlorobenzene-d5	9.410	117	424320	10.000	ug/L	0.00
Standard Area 1 = 424320			Recovery = 100.00%			
79) 1,4-Dichlorobenzene-d4	12.140	152	231124	10.000	ug/L	0.00
Standard Area 1 = 231124			Recovery = 100.00%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.099	113	146664	9.965	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.65%			
43) 1,2-Dichloroethane-d4	5.614	65	166783	9.879	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.79%			
60) Toluene-d8	7.572	98	566440	10.048	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.48%			
83) 4-Bromofluorobenzene	10.921	95	223811	9.891	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.91%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.618	85	161603	10.492	ug/L	98
3) Chloromethane	1.805	50	271883	9.539	ug/L	97
4) Vinyl chloride	1.875	62	179418	10.000	ug/L	98
5) Bromomethane	2.173	94	32413	7.755	ug/L	98
6) Chloroethane	2.285	64	86114	10.070	ug/L	97
7) Trichlorofluoromethane	2.419	101	193037	10.320	ug/L	99
8) Ethyl ether	2.706	74	45429	9.528	ug/L #	64
10) 1,1-Dichloroethene	2.893	96	125284	9.945	ug/L	84
11) Carbon disulfide	2.923	76	402924	9.656	ug/L	99
12) Freon-113	2.929	101	133189	10.380	ug/L #	73
13) Iodomethane	3.027	142	64652	6.862	ug/L	99
14) Acrolein	3.205	56	18252	9.845	ug/L	100
15) Methylene chloride	3.431	84	145469	9.677	ug/L	78
17) Acetone	3.478	43	27092	6.707	ug/L	93
18) trans-1,2-Dichloroethene	3.584	96	141333	10.047	ug/L	88
19) Methyl acetate	3.595	43	71046	9.764	ug/L #	89
20) Methyl tert-butyl ether	3.679	73	284073	9.646	ug/L #	88
21) tert-Butyl alcohol	3.777	59	35365	47.534	ug/L #	72
22) Diisopropyl ether	4.028	45	594600	10.058	ug/L	91
23) 1,1-Dichloroethane	4.150	63	303189	10.023	ug/L	98
24) Halothane	4.201	117	105293	10.267	ug/L	100

Data Path : K:\VOA101\2025\250208AICAL\
Data File : V01250208A09.D
Acq On : 8 Feb 2025 4:07 am
Operator : VOA101:PID
Sample : I8260STD10PPB
Misc : WG2028963,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 11 07:40:51 2025
Quant Method : K:\VOA101\2025\250208AICAL\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Feb 11 07:39:26 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2025\250208AICAL\V01250208A09.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.198	53	34784	9.980	ug/L		94
26) Ethyl tert-butyl ether	4.373	59	422443	9.822	ug/L		95
27) Vinyl acetate	4.379	43	300289	10.058	ug/L	#	95
28) cis-1,2-Dichloroethene	4.661	96	152624	9.908	ug/L		87
29) 2,2-Dichloropropane	4.761	77	182840	9.842	ug/L		87
30) Bromochloromethane	4.853	128	62830	10.347	ug/L	#	72
31) Cyclohexane	4.856	56	333761	10.490	ug/L		84
32) Chloroform	4.923	83	254458	10.171	ug/L		99
33) Ethyl acetate	5.032	43	99619	10.288	ug/L	#	94
34) Carbon tetrachloride	5.057	117	186817	10.239	ug/L		96
35) Tetrahydrofuran	5.085	42	31136M1	10.359	ug/L		
37) 1,1,1-Trichloroethane	5.115	97	219734	10.242	ug/L	#	95
39) 2-Butanone	5.216	43	39405	9.479	ug/L	#	50
40) 1,1-Dichloropropene	5.238	75	194192	10.372	ug/L		98
41) Benzene	5.481	78	560226	10.226	ug/L		92
42) tert-Amyl methyl ether	5.589	73	281607	9.560	ug/L	#	80
44) 1,2-Dichloroethane	5.684	62	183619	10.143	ug/L		100
47) Methyl cyclohexane	6.063	83	253926	10.328	ug/L	#	78
48) Trichloroethene	6.075	95	150618	9.953	ug/L		97
50) Dibromomethane	6.515	93	69778	10.017	ug/L		96
51) 1,2-Dichloropropane	6.613	63	164665	9.849	ug/L		97
54) Bromodichloromethane	6.685	83	183822	9.902	ug/L		98
57) 1,4-Dioxane	6.897	88	39345M1	528.911	ug/L		
58) cis-1,3-Dichloropropene	7.371	75	183203	9.587	ug/L		94
61) Toluene	7.633	92	339417	10.012	ug/L		99
62) 4-Methyl-2-pentanone	8.063	58	29370	8.957	ug/L	#	87
63) Tetrachloroethene	8.077	166	140245	10.121	ug/L		96
65) trans-1,3-Dichloropropene	8.113	75	147703	9.779	ug/L		94
67) Ethyl methacrylate	8.303	69	102034	9.688	ug/L		94
68) 1,1,2-Trichloroethane	8.303	83	85830	10.110	ug/L		99
69) Chlorodibromomethane	8.512	129	115589	9.858	ug/L		97
70) 1,3-Dichloropropane	8.618	76	176279	10.140	ug/L		100
71) 1,2-Dibromoethane	8.788	107	93076	10.105	ug/L		99
72) 2-Hexanone	9.081	43	49673M1	8.685	ug/L		
73) Chlorobenzene	9.429	112	378561	10.062	ug/L		99
74) Ethylbenzene	9.468	91	674209	10.300	ug/L		99
75) 1,1,1,2-Tetrachloroethane	9.516	131	132829	10.075	ug/L		99
76) p/m Xylene	9.655	106	520114	20.823	ug/L		97
77) o Xylene	10.202	106	502822	20.849	ug/L		98
78) Styrene	10.269	104	776093	20.992	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2025\250208AICAL\
Data File : V01250208A09.D
Acq On : 8 Feb 2025 4:07 am
Operator : VOA101:PID
Sample : I8260STD10PPB
Misc : WG2028963,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 11 07:40:51 2025
Quant Method : K:\VOA101\2025\250208AICAL\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Feb 11 07:39:26 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2025\250208AICAL\V01250208A09.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) Bromoform	10.299	173	61868	9.618	ug/L	99
82) Isopropylbenzene	10.592	105	643966	10.108	ug/L	100
84) Bromobenzene	11.036	156	144751	10.073	ug/L	99
85) n-Propylbenzene	11.075	91	765056	10.184	ug/L	100
86) 1,4-Dichlorobutane	11.091	55	195258	9.999	ug/L	97
87) 1,1,2,2-Tetrachloroethane	11.169	83	112967	9.812	ug/L	100
88) 4-Ethyltoluene	11.203	105	621481	10.060	ug/L	99
89) 2-Chlorotoluene	11.245	91	453811M4	9.983	ug/L	
90) 1,3,5-Trimethylbenzene	11.300	105	509324	9.962	ug/L	99
91) 1,2,3-Trichloropropane	11.306	75	87732M1	9.826	ug/L	
92) trans-1,4-Dichloro-2-b...	11.367	53	22399M1	10.043	ug/L	
93) 4-Chlorotoluene	11.429	91	449178	9.941	ug/L	98
94) tert-Butylbenzene	11.646	119	444766	10.093	ug/L	99
97) 1,2,4-Trimethylbenzene	11.727	105	492430	10.161	ug/L	99
98) sec-Butylbenzene	11.839	105	622627	10.108	ug/L	97
99) p-Isopropyltoluene	11.992	119	527814	10.071	ug/L	97
100) 1,3-Dichlorobenzene	12.062	146	259697	9.936	ug/L	98
101) 1,4-Dichlorobenzene	12.157	146	259537	9.685	ug/L	97
102) p-Diethylbenzene	12.369	119	293844	9.898	ug/L	98
103) n-Butylbenzene	12.427	91	420305	9.960	ug/L	99
104) 1,2-Dichlorobenzene	12.580	146	228741	9.877	ug/L	98
105) 1,2,4,5-Tetramethylben...	13.169	119	388935	9.839	ug/L	97
106) 1,2-Dibromo-3-chloropr...	13.370	155	11949	9.951	ug/L	98
107) 1,3,5-Trichlorobenzene	13.398	180	137278	9.671	ug/L	98
108) Hexachlorobutadiene	13.975	225	50373	9.713	ug/L	96
109) 1,2,4-Trichlorobenzene	14.000	180	104032	9.491	ug/L	98
110) Naphthalene	14.293	128	184129	9.192	ug/L	100
111) 1,2,3-Trichlorobenzene	14.460	180	79429	9.480	ug/L	98

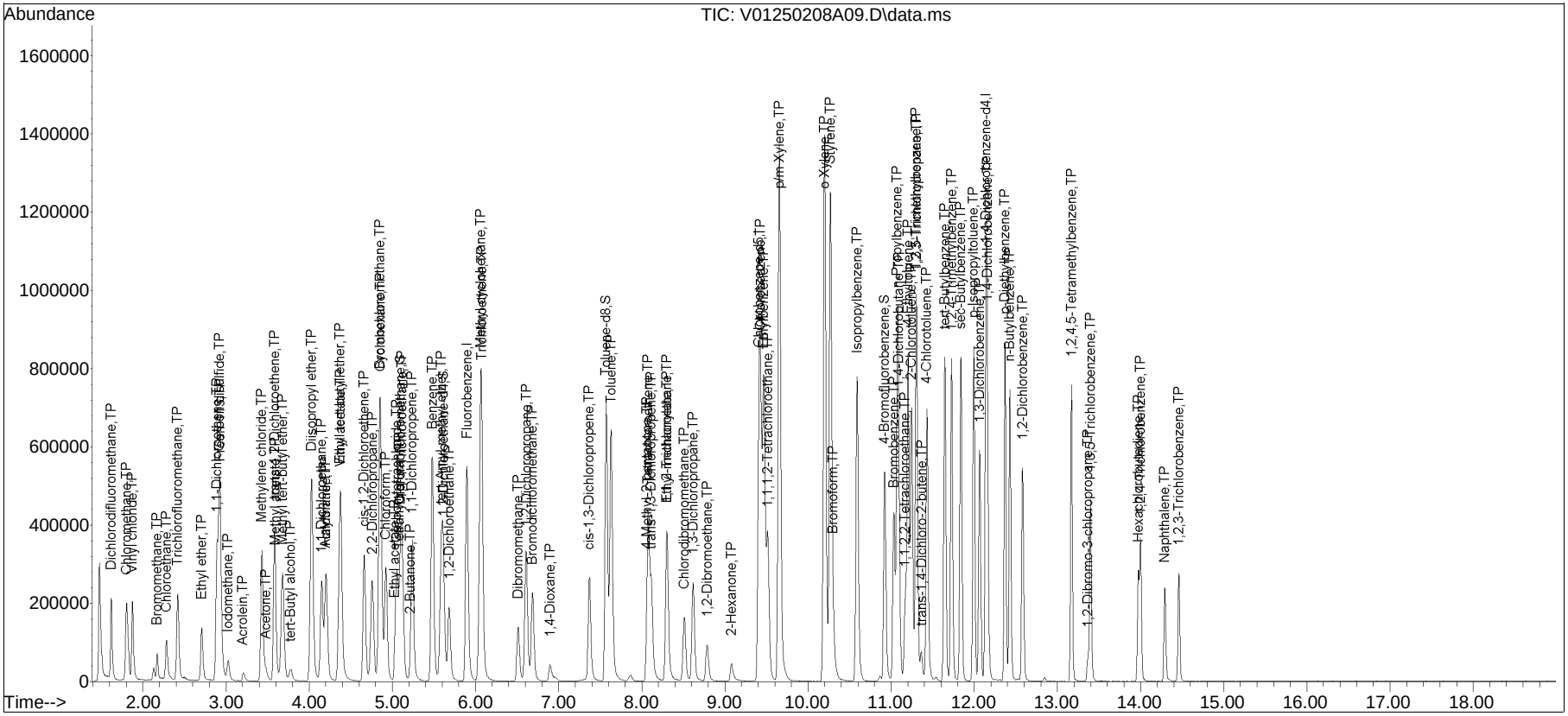
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2025\250208AICAL\
Data File : V01250208A09.D
Acq On : 8 Feb 2025 4:07 am
Operator : VOA101:PID
Sample : I8260STD10PPB
Misc : WG2028963,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 11 07:40:51 2025
Quant Method : K:\VOA101\2025\250208AICAL\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Feb 11 07:39:26 2025
Response via : Initial Calibration

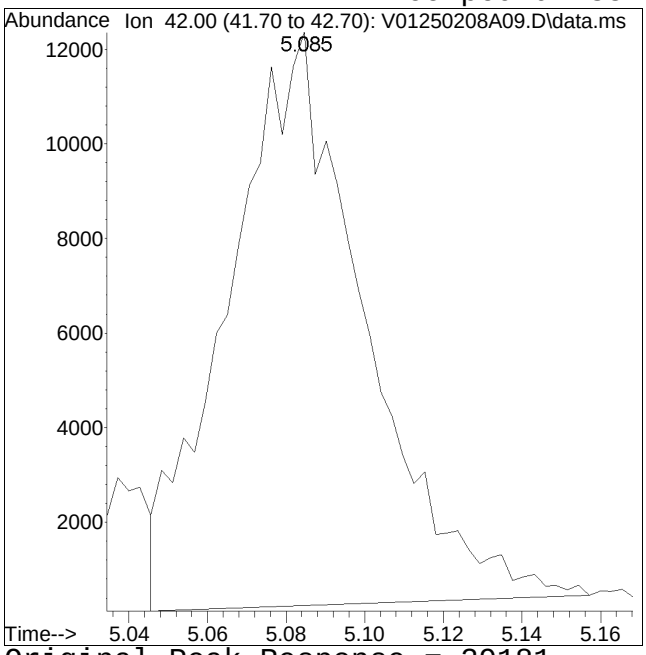
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE208A09.D•

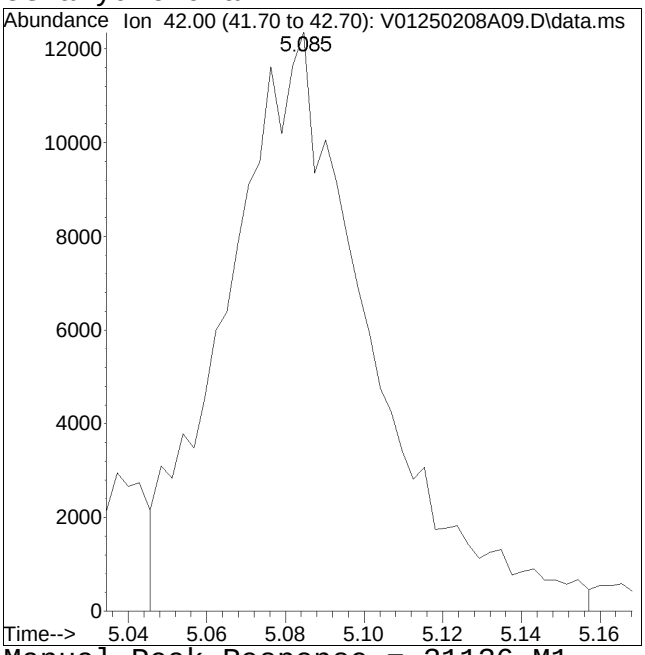


Manual Integration Report

Data Path : K:\VOA101\2025\250208AICALQMethod : V101_250208A_8260.m
Data File : V01250208A09.D Operator : VOA101:PID
Date Inj'd : 2/8/2025 4:07 am Instrument : VOA 101
Sample : I8260STD10PPB Quant Date : 2/11/2025 7:40 am

Compound #35: Tetrahydrofuran





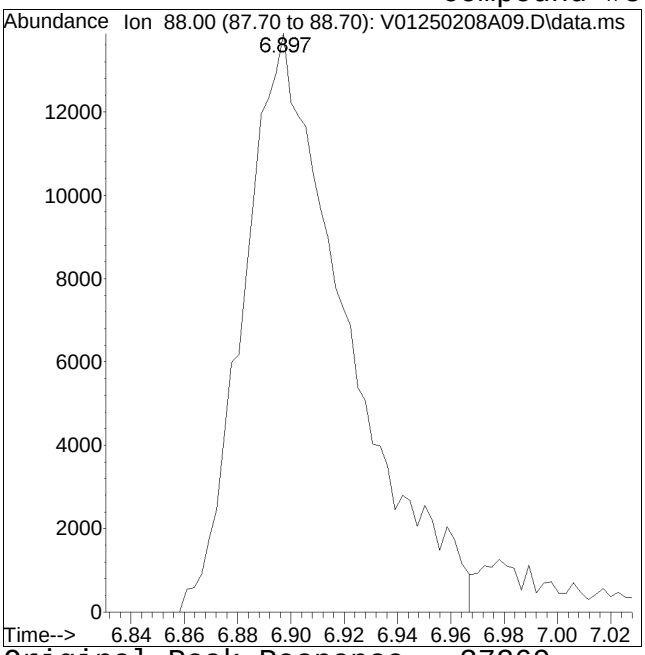
Original Peak Response = 29181 Manual Peak Response = 31136 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

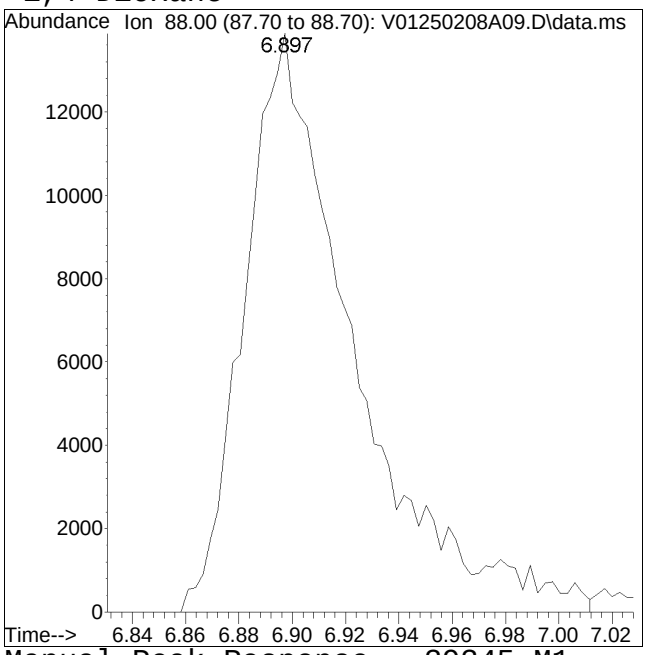
Data Path : K:\VOA101\2025\250208AICALQ
Data File : V01250208A09.D
Date Inj'd : 2/8/2025 4:07 am
Sample : I8260STD10PPB

Method : V101_250208A_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 2/11/2025 7:40 am

Compound #57: 1,4-Dioxane



Original Peak Response = 37260



Manual Peak Response = 39345 M1

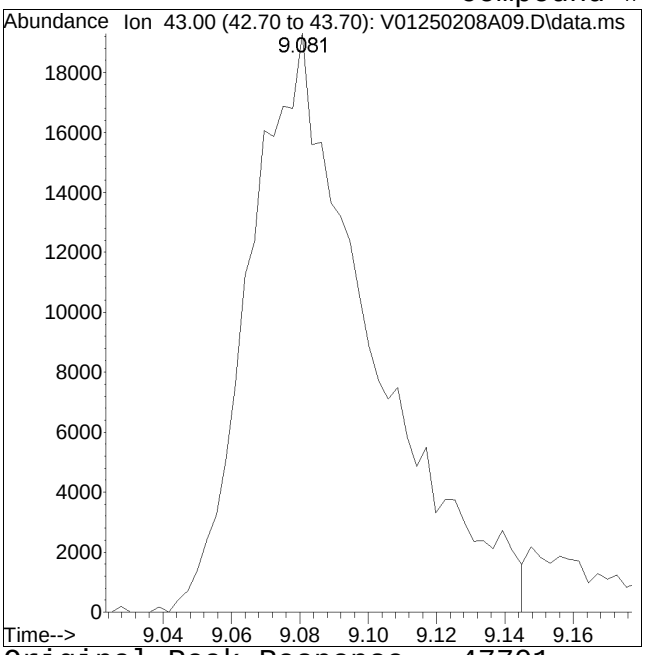
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

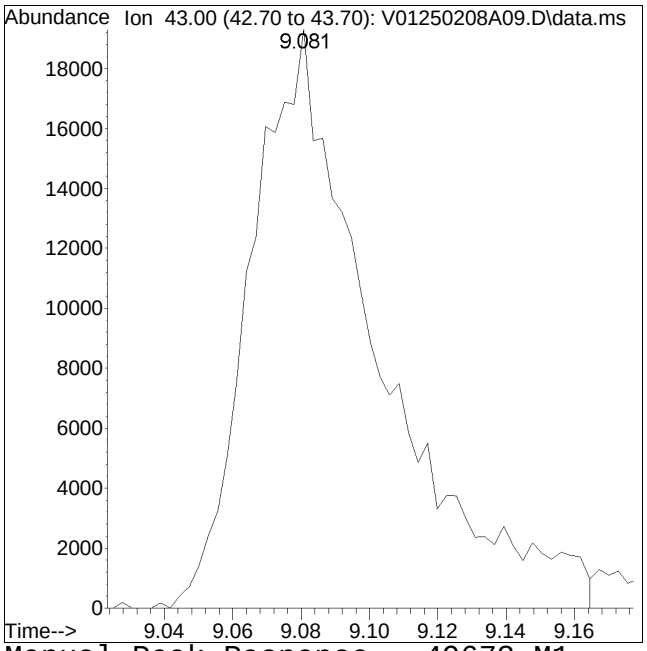
Data Path : K:\VOA101\2025\250208AICALQ
Data File : V01250208A09.D
Date Inj'd : 2/8/2025 4:07 am
Sample : I8260STD10PPB

Method : V101_250208A_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 2/11/2025 7:40 am

Compound #72: 2-Hexanone



Original Peak Response = 47701



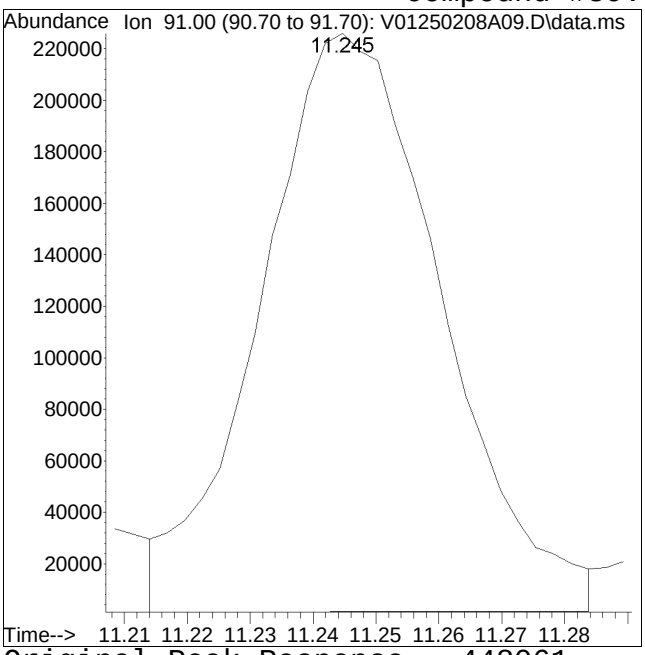
Manual Peak Response = 49673 M1

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

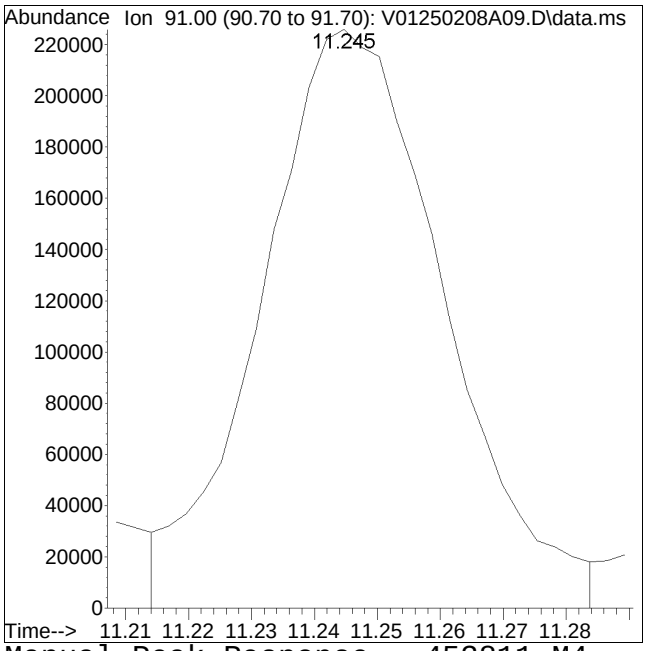
Manual Integration Report

Data Path : K:\VOA101\2025\250208AICALQMethod : V101_250208A_8260.m
Data File : V01250208A09.D Operator : VOA101:PID
Date Inj'd : 2/8/2025 4:07 am Instrument : VOA 101
Sample : I8260STD10PPB Quant Date : 2/11/2025 7:40 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 448061



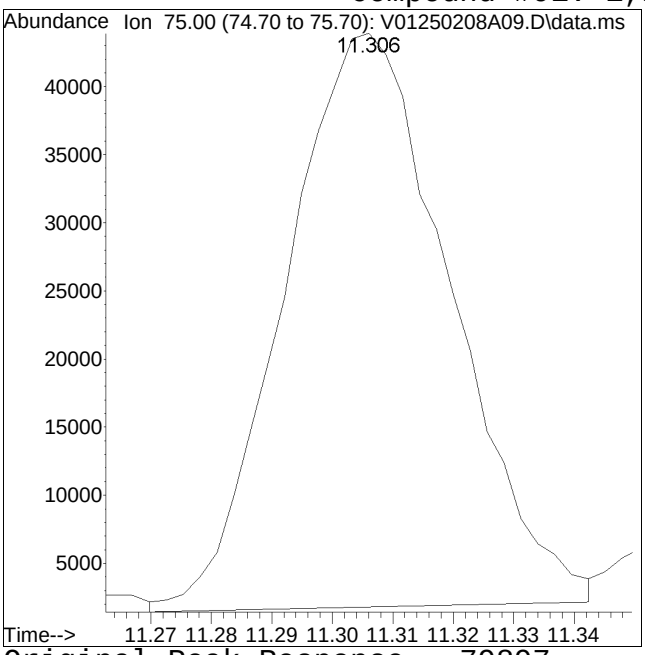
Manual Peak Response = 453811 M4

M4 = Poor automated baseline construction.

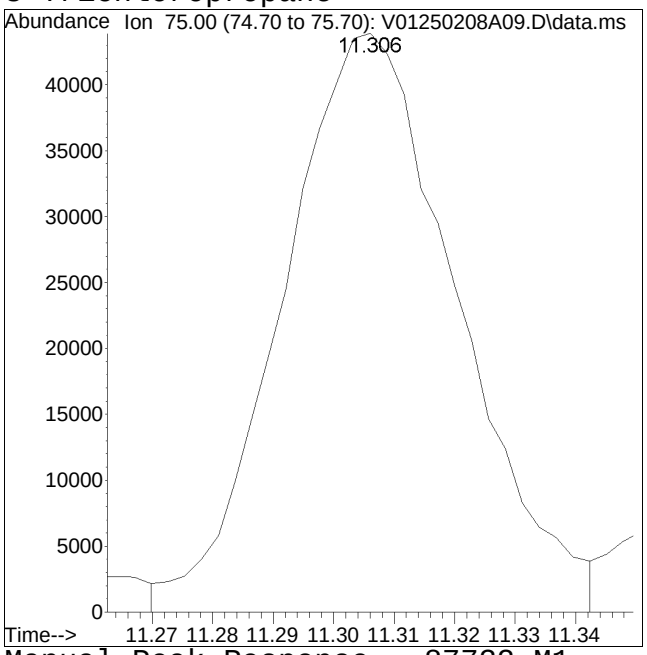
Manual Integration Report

Data Path : K:\VOA101\2025\250208AICALQMethod : V101_250208A_8260.m
Data File : V01250208A09.D Operator : VOA101:PID
Date Inj'd : 2/8/2025 4:07 am Instrument : VOA 101
Sample : I8260STD10PPB Quant Date : 2/11/2025 7:40 am

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 79897



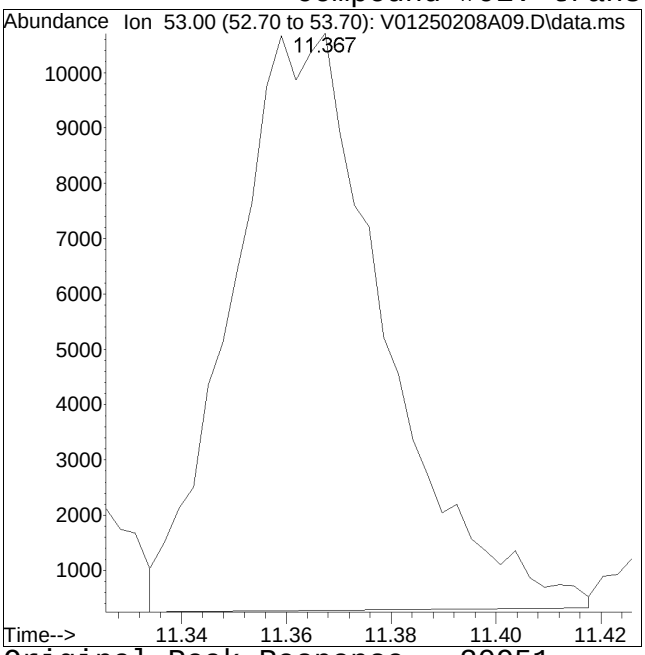
Manual Peak Response = 87732 M1

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

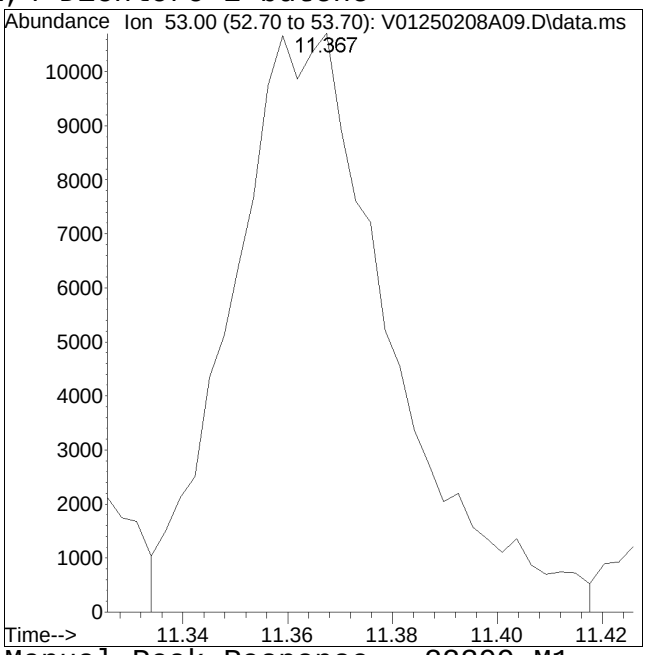
Manual Integration Report

Data Path : K:\VOA101\2025\250208AICALQMethod : V101_250208A_8260.m
Data File : V01250208A09.D Operator : VOA101:PID
Date Inj'd : 2/8/2025 4:07 am Instrument : VOA 101
Sample : I8260STD10PPB Quant Date : 2/11/2025 7:40 am

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



Original Peak Response = 20951



Manual Peak Response = 22399 M1

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2025\250208AICAL\
Data File : V01250208A10.D
Acq On : 8 Feb 2025 4:33 am
Operator : VOA101:PID
Sample : I8260STD30PPB
Misc : WG2028963,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 11 07:40:58 2025
Quant Method : K:\VOA101\2025\250208AICAL\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Feb 11 07:39:26 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2025\250208AICAL\V01250208A09.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.893	96	582695	10.000	ug/L	0.00
Standard Area 1 = 578930			Recovery = 100.65%			
59) Chlorobenzene-d5	9.410	117	437142	10.000	ug/L	0.00
Standard Area 1 = 424320			Recovery = 103.02%			
79) 1,4-Dichlorobenzene-d4	12.143	152	237049	10.000	ug/L	0.00
Standard Area 1 = 231124			Recovery = 102.56%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.099	113	151849	10.250	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.50%			
43) 1,2-Dichloroethane-d4	5.612	65	172771	10.168	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.68%			
60) Toluene-d8	7.575	98	582286	10.026	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.26%			
83) 4-Bromofluorobenzene	10.921	95	230114	9.915	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.15%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.618	85	525679	33.910	ug/L	100
3) Chloromethane	1.805	50	863112	30.088	ug/L	98
4) Vinyl chloride	1.872	62	587185	32.515	ug/L	99
5) Bromomethane	2.173	94	123247	29.295	ug/L	100
6) Chloroethane	2.282	64	273375	31.762	ug/L	96
7) Trichlorofluoromethane	2.419	101	628253	33.370	ug/L	99
8) Ethyl ether	2.706	74	148240	30.891	ug/L #	67
10) 1,1-Dichloroethene	2.890	96	404988	31.940	ug/L	84
11) Carbon disulfide	2.921	76	1309025	31.169	ug/L	99
12) Freon-113	2.929	101	434581	33.649	ug/L #	74
13) Iodomethane	3.024	142	259832	27.401	ug/L	99
14) Acrolein	3.208	56	61118	32.754	ug/L	99
15) Methylene chloride	3.431	84	451292	29.828	ug/L	77
17) Acetone	3.473	43	83709	20.589	ug/L	99
18) trans-1,2-Dichloroethene	3.582	96	450750	31.835	ug/L	89
19) Methyl acetate	3.590	43	240242	32.803	ug/L #	88
20) Methyl tert-butyl ether	3.679	73	948364	31.994	ug/L #	90
21) tert-Butyl alcohol	3.774	59	117952	157.513	ug/L #	86
22) Diisopropyl ether	4.028	45	1913489	32.160	ug/L	91
23) 1,1-Dichloroethane	4.150	63	971804	31.918	ug/L	97
24) Halothane	4.203	117	332732	32.234	ug/L	99

Data Path : K:\VOA101\2025\250208AICAL\
Data File : V01250208A10.D
Acq On : 8 Feb 2025 4:33 am
Operator : VOA101:PID
Sample : I8260STD30PPB
Misc : WG2028963,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 11 07:40:58 2025
Quant Method : K:\VOA101\2025\250208AICAL\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Feb 11 07:39:26 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2025\250208AICAL\V01250208A09.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.192	53	121676	34.684	ug/L	#	89
26) Ethyl tert-butyl ether	4.368	59	1395347	32.234	ug/L		94
27) Vinyl acetate	4.379	43	1026522	34.160	ug/L		95
28) cis-1,2-Dichloroethene	4.661	96	490003	31.605	ug/L		88
29) 2,2-Dichloropropane	4.758	77	618055	33.053	ug/L		90
30) Bromochloromethane	4.853	128	188014	30.763	ug/L	#	73
31) Cyclohexane	4.853	56	1111402	34.706	ug/L		83
32) Chloroform	4.920	83	793208	31.501	ug/L		98
33) Ethyl acetate	5.029	43	343466	35.240	ug/L	#	93
34) Carbon tetrachloride	5.051	117	626565	34.120	ug/L		97
35) Tetrahydrofuran	5.076	42	101157M1	33.437	ug/L		
37) 1,1,1-Trichloroethane	5.118	97	712899	33.013	ug/L		97
39) 2-Butanone	5.210	43	133278	31.852	ug/L	#	74
40) 1,1-Dichloropropene	5.238	75	632327	33.554	ug/L		100
41) Benzene	5.481	78	1775982	32.209	ug/L		93
42) tert-Amyl methyl ether	5.589	73	959975	32.379	ug/L	#	85
44) 1,2-Dichloroethane	5.679	62	571502	31.366	ug/L		99
47) Methyl cyclohexane	6.061	83	844045	34.107	ug/L	#	79
48) Trichloroethene	6.075	95	484313	31.797	ug/L		97
50) Dibromomethane	6.510	93	222894	31.790	ug/L		97
51) 1,2-Dichloropropane	6.604	63	528496	31.405	ug/L		97
54) Bromodichloromethane	6.685	83	592184	31.694	ug/L		98
57) 1,4-Dioxane	6.897	88	49758	664.570	ug/L	#	75
58) cis-1,3-Dichloropropene	7.366	75	636749	33.106	ug/L		95
61) Toluene	7.628	92	1090877	31.235	ug/L		99
62) 4-Methyl-2-pentanone	8.063	58	110153	32.607	ug/L	#	91
63) Tetrachloroethene	8.080	166	457452	32.045	ug/L		97
65) trans-1,3-Dichloropropene	8.116	75	518390	33.313	ug/L		95
67) Ethyl methacrylate	8.300	69	390394	35.981	ug/L		96
68) 1,1,2-Trichloroethane	8.294	83	275650	31.518	ug/L		99
69) Chlorodibromomethane	8.506	129	388480	32.160	ug/L		98
70) 1,3-Dichloropropane	8.615	76	581180	32.451	ug/L		99
71) 1,2-Dibromoethane	8.782	107	309133	32.578	ug/L		99
72) 2-Hexanone	9.070	43	189601	32.179	ug/L		98
73) Chlorobenzene	9.429	112	1215638	31.363	ug/L		99
74) Ethylbenzene	9.468	91	2162496	32.067	ug/L		99
75) 1,1,1,2-Tetrachloroethane	9.516	131	426296	31.385	ug/L		99
76) p/m Xylene	9.652	106	1677367	65.186	ug/L		97
77) o Xylene	10.199	106	1609430	64.776	ug/L		97
78) Styrene	10.266	104	2521949	66.214	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2025\250208AICAL\
Data File : V01250208A10.D
Acq On : 8 Feb 2025 4:33 am
Operator : VOA101:PID
Sample : I8260STD30PPB
Misc : WG2028963,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 11 07:40:58 2025
Quant Method : K:\VOA101\2025\250208AICAL\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Feb 11 07:39:26 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2025\250208AICAL\V01250208A09.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) Bromoform	10.294	173	210336	31.881	ug/L		99
82) Isopropylbenzene	10.589	105	2090485	31.994	ug/L		99
84) Bromobenzene	11.033	156	456816	30.993	ug/L		99
85) n-Propylbenzene	11.075	91	2461017	31.940	ug/L		100
86) 1,4-Dichlorobutane	11.091	55	626604	31.285	ug/L		97
87) 1,1,2,2-Tetrachloroethane	11.169	83	368528	31.210	ug/L		99
88) 4-Ethyltoluene	11.203	105	2018888	31.863	ug/L		100
89) 2-Chlorotoluene	11.245	91	1441420M1	30.915	ug/L		
90) 1,3,5-Trimethylbenzene	11.303	105	1650718	31.480	ug/L		100
91) 1,2,3-Trichloropropane	11.306	75	286220M1	31.256	ug/L		
92) trans-1,4-Dichloro-2-b...	11.359	53	76970	33.649	ug/L	#	70
93) 4-Chlorotoluene	11.429	91	1457111	31.444	ug/L		97
94) tert-Butylbenzene	11.644	119	1447415	32.026	ug/L		99
97) 1,2,4-Trimethylbenzene	11.722	105	1586394	31.916	ug/L		100
98) sec-Butylbenzene	11.836	105	2034725	32.208	ug/L		98
99) p-Isopropyltoluene	11.992	119	1739828	32.367	ug/L		97
100) 1,3-Dichlorobenzene	12.062	146	834763	31.139	ug/L		98
101) 1,4-Dichlorobenzene	12.157	146	835665	30.405	ug/L		98
102) p-Diethylbenzene	12.369	119	984854	32.346	ug/L		98
103) n-Butylbenzene	12.427	91	1402611	32.407	ug/L		99
104) 1,2-Dichlorobenzene	12.581	146	740692	31.182	ug/L		98
105) 1,2,4,5-Tetramethylben...	13.169	119	1332052	32.854	ug/L		97
106) 1,2-Dibromo-3-chloropr...	13.367	155	42550	34.550	ug/L		100
107) 1,3,5-Trichlorobenzene	13.395	180	460007	31.595	ug/L		98
108) Hexachlorobutadiene	13.975	225	167595	31.507	ug/L		97
109) 1,2,4-Trichlorobenzene	13.997	180	365011	32.469	ug/L		99
110) Naphthalene	14.287	128	696622	33.909	ug/L		100
111) 1,2,3-Trichlorobenzene	14.460	180	274459	31.940	ug/L		99

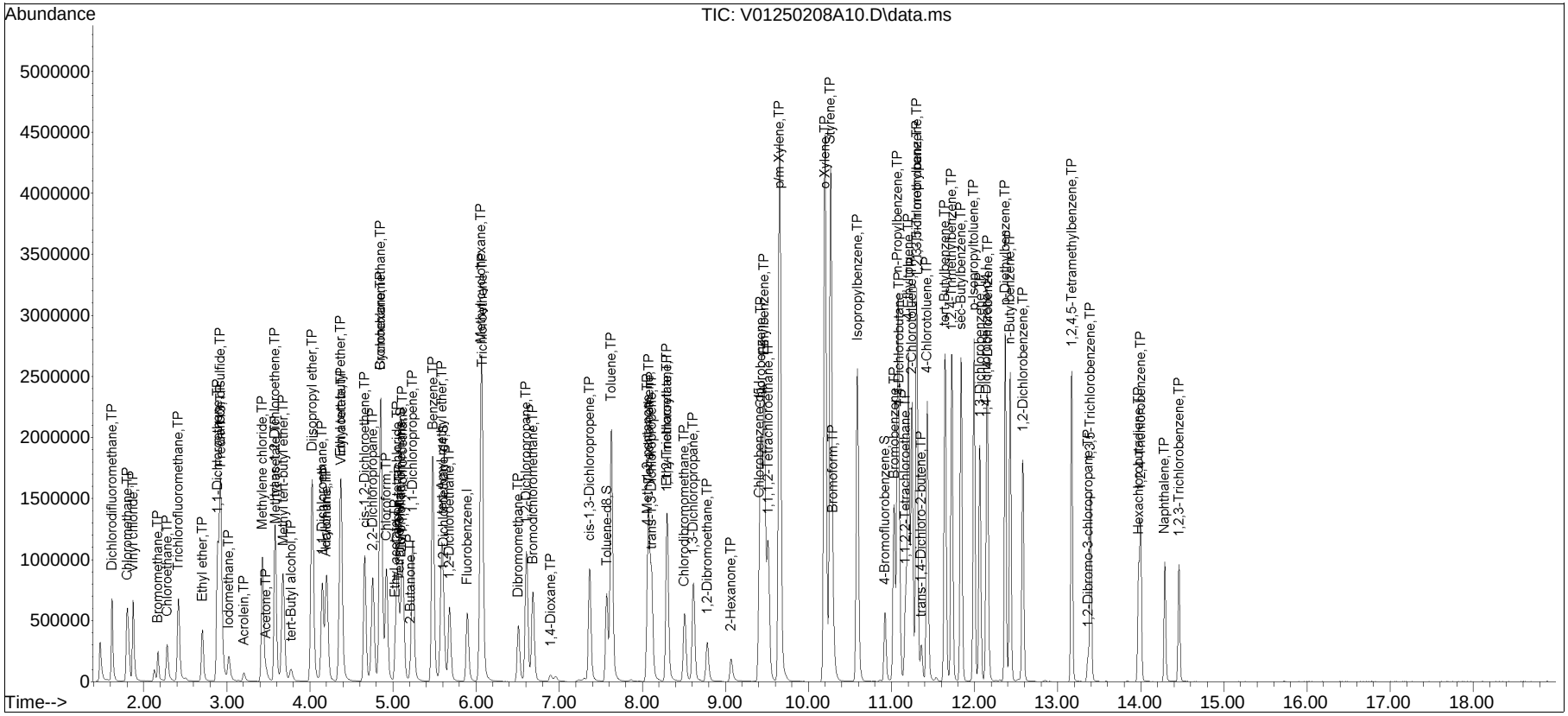
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2025\250208AICAL\
Data File : V01250208A10.D
Acq On : 8 Feb 2025 4:33 am
Operator : VOA101:PID
Sample : I8260STD30PPB
Misc : WG2028963,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 11 07:40:58 2025
Quant Method : K:\VOA101\2025\250208AICAL\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Feb 11 07:39:26 2025
Response via : Initial Calibration

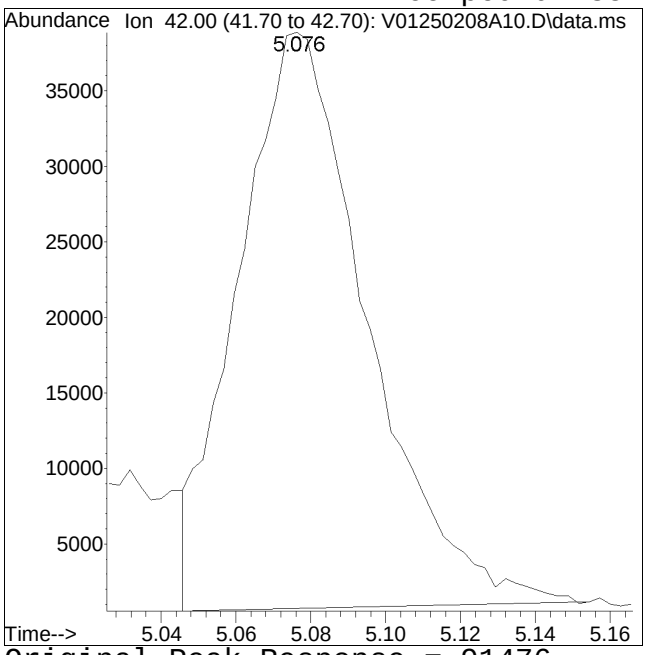
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE208A09.D•

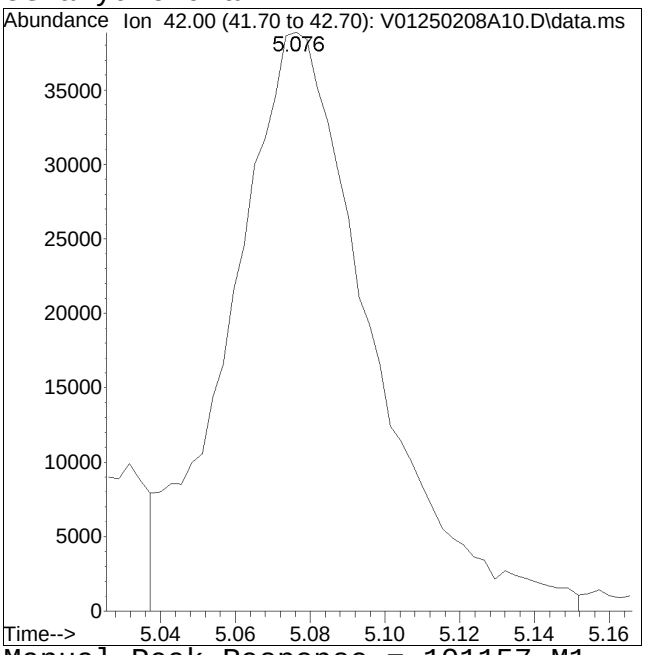


Manual Integration Report

Data Path : K:\VOA101\2025\250208AICALQMethod : V101_250208A_8260.m
Data File : V01250208A10.D Operator : VOA101:PID
Date Inj'd : 2/8/2025 4:33 am Instrument : VOA 101
Sample : I8260STD30PPB Quant Date : 2/11/2025 7:40 am

Compound #35: Tetrahydrofuran





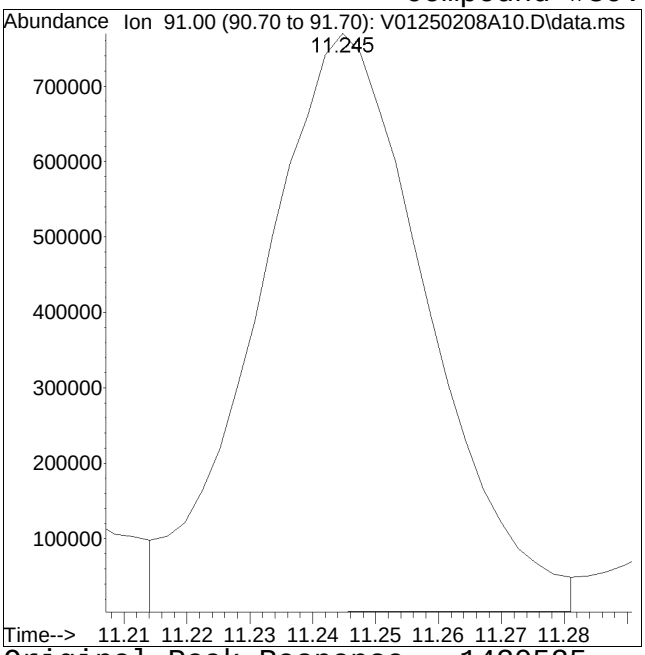
Original Peak Response = 91476 Manual Peak Response = 101157 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

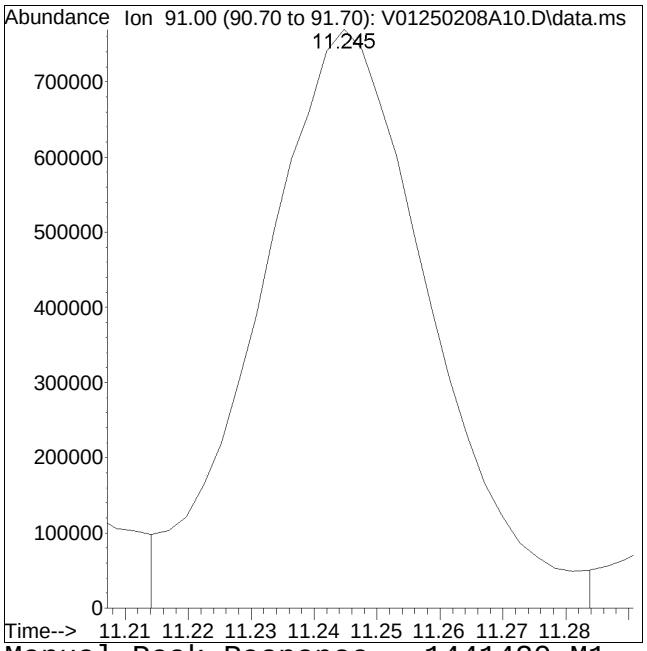
Data Path : K:\VOA101\2025\250208AICALQ
Data File : V01250208A10.D
Date Inj'd : 2/8/2025 4:33 am
Sample : I8260STD30PPB

Method : V101_250208A_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 2/11/2025 7:40 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 1420525



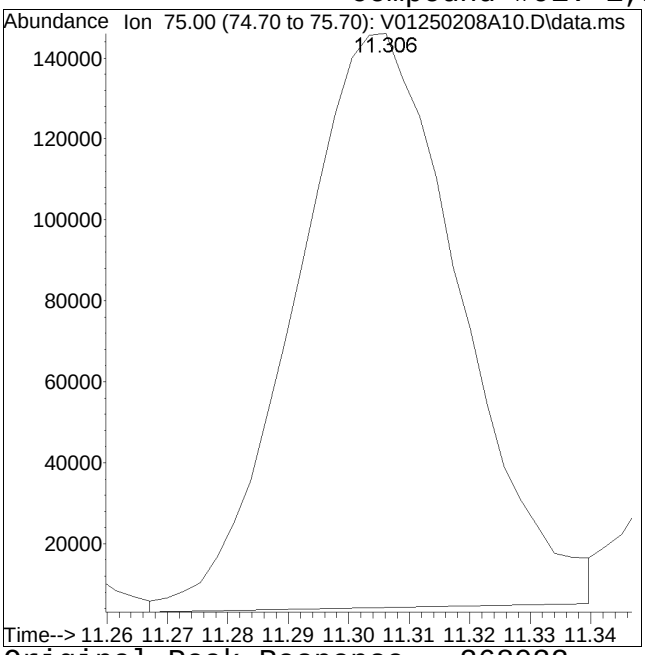
Manual Peak Response = 1441420 M1

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

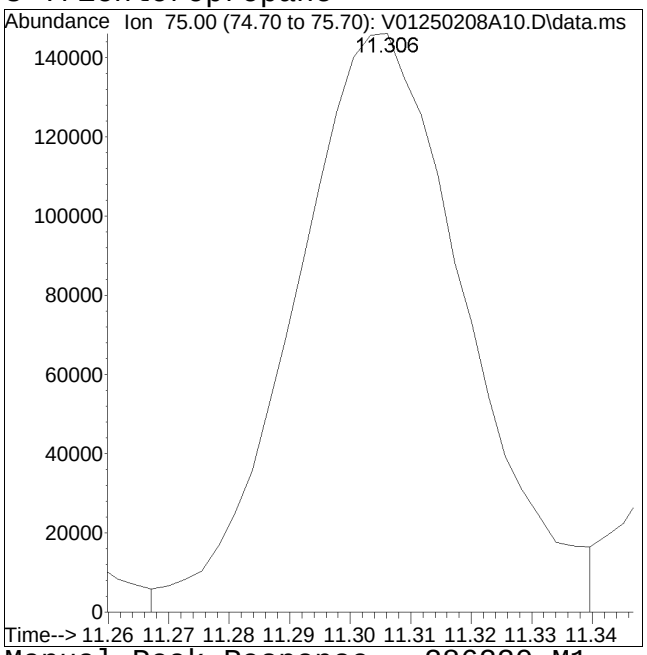
Manual Integration Report

Data Path : K:\VOA101\2025\250208AICALQMethod : V101_250208A_8260.m
Data File : V01250208A10.D Operator : VOA101:PID
Date Inj'd : 2/8/2025 4:33 am Instrument : VOA 101
Sample : I8260STD30PPB Quant Date : 2/11/2025 7:40 am

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 268032



Manual Peak Response = 286220 M1

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2025\250208AICAL\
Data File : V01250208A11.D
Acq On : 8 Feb 2025 4:59 am
Operator : VOA101:PID
Sample : I8260STD80PPB
Misc : WG2028963,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 11 07:41:05 2025
Quant Method : K:\VOA101\2025\250208AICAL\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Feb 11 07:39:26 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2025\250208AICAL\V01250208A09.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.896	96	620723	10.000	ug/L	0.00
Standard Area 1 = 578930			Recovery = 107.22%			
59) Chlorobenzene-d5	9.410	117	463022	10.000	ug/L	0.00
Standard Area 1 = 424320			Recovery = 109.12%			
79) 1,4-Dichlorobenzene-d4	12.140	152	246933	10.000	ug/L	0.00
Standard Area 1 = 231124			Recovery = 106.84%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.099	113	157420	9.975	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.75%			
43) 1,2-Dichloroethane-d4	5.614	65	179099	9.895	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.95%			
60) Toluene-d8	7.572	98	610135	9.919	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.19%			
83) 4-Bromofluorobenzene	10.921	95	239682	9.914	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.14%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.618	85	1395582	84.509	ug/L	100
3) Chloromethane	1.802	50	2450211	80.182	ug/L	97
4) Vinyl chloride	1.872	62	1650014	85.772	ug/L	99
5) Bromomethane	2.173	94	420471	93.822	ug/L	100
6) Chloroethane	2.282	64	740452	80.758	ug/L	96
7) Trichlorofluoromethane	2.419	101	1672996	83.417	ug/L	99
8) Ethyl ether	2.706	74	409022	80.012	ug/L #	69
10) 1,1-Dichloroethene	2.893	96	1126347	83.389	ug/L	85
11) Carbon disulfide	2.921	76	3706618	82.850	ug/L	99
12) Freon-113	2.926	101	1177369	85.577	ug/L #	68
13) Iodomethane	3.027	142	942863	93.339	ug/L	99
14) Acrolein	3.199	56	172109	86.585	ug/L	98
15) Methylene chloride	3.428	84	1236601	76.725	ug/L	78
17) Acetone	3.473	43	212781	49.129	ug/L	99
18) trans-1,2-Dichloroethene	3.582	96	1247699	82.722	ug/L	87
19) Methyl acetate	3.584	43	647104	82.944	ug/L #	88
20) Methyl tert-butyl ether	3.676	73	2628448	83.240	ug/L	91
21) tert-Butyl alcohol	3.771	59	330917	414.834	ug/L #	84
22) Diisopropyl ether	4.025	45	5270266	83.150	ug/L	90
23) 1,1-Dichloroethane	4.148	63	2657564	81.937	ug/L	97
24) Halothane	4.203	117	908751	82.642	ug/L	99

Data Path : K:\VOA101\2025\250208AICAL\
Data File : V01250208A11.D
Acq On : 8 Feb 2025 4:59 am
Operator : VOA101:PID
Sample : I8260STD80PPB
Misc : WG2028963,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 11 07:41:05 2025
Quant Method : K:\VOA101\2025\250208AICAL\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Feb 11 07:39:26 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2025\250208AICAL\V01250208A09.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.192	53	325951	87.220	ug/L		91
26) Ethyl tert-butyl ether	4.368	59	3885600	84.261	ug/L		94
27) Vinyl acetate	4.376	43	2822057	88.157	ug/L		96
28) cis-1,2-Dichloroethene	4.658	96	1344077	81.383	ug/L		88
29) 2,2-Dichloropropane	4.756	77	1677765	84.229	ug/L		92
30) Bromochloromethane	4.848	128	502014	77.107	ug/L	#	76
31) Cyclohexane	4.850	56	2981539	87.402	ug/L		83
32) Chloroform	4.920	83	2205027	82.205	ug/L		99
33) Ethyl acetate	5.026	43	937904	90.335	ug/L	#	94
34) Carbon tetrachloride	5.051	117	1719577	87.904	ug/L		97
35) Tetrahydrofuran	5.071	42	265099M4	82.259	ug/L		
37) 1,1,1-Trichloroethane	5.118	97	1936349	84.174	ug/L		98
39) 2-Butanone	5.205	43	378617	84.941	ug/L	#	50
40) 1,1-Dichloropropene	5.238	75	1722216	85.790	ug/L		100
41) Benzene	5.478	78	4913493	83.652	ug/L		93
42) tert-Amyl methyl ether	5.587	73	2697895	85.424	ug/L	#	88
44) 1,2-Dichloroethane	5.681	62	1543132	79.505	ug/L		99
47) Methyl cyclohexane	6.058	83	2306817	87.505	ug/L	#	79
48) Trichloroethene	6.072	95	1322967	81.536	ug/L		98
50) Dibromomethane	6.510	93	610115	81.686	ug/L		98
51) 1,2-Dichloropropane	6.604	63	1480469	82.584	ug/L		96
54) Bromodichloromethane	6.683	83	1652929	83.047	ug/L		99
57) 1,4-Dioxane	6.897	88	67190	842.415	ug/L	#	84
58) cis-1,3-Dichloropropene	7.366	75	1824482	89.047	ug/L		96
61) Toluene	7.628	92	3045713	82.335	ug/L		98
62) 4-Methyl-2-pentanone	8.057	58	309312	86.444	ug/L		94
63) Tetrachloroethene	8.077	166	1258072	83.203	ug/L		97
65) trans-1,3-Dichloropropene	8.113	75	1469163	89.135	ug/L		95
67) Ethyl methacrylate	8.300	69	1115441	97.060	ug/L		94
68) 1,1,2-Trichloroethane	8.294	83	750819	81.050	ug/L		98
69) Chlorodibromomethane	8.509	129	1091381	85.298	ug/L		98
70) 1,3-Dichloropropane	8.618	76	1577074	83.136	ug/L		99
71) 1,2-Dibromoethane	8.782	107	852350	84.804	ug/L		99
72) 2-Hexanone	9.064	43	550249	88.167	ug/L		99
73) Chlorobenzene	9.429	112	3374306	82.190	ug/L		99
74) Ethylbenzene	9.466	91	6009730	84.135	ug/L		99
75) 1,1,1,2-Tetrachloroethane	9.516	131	1194372	83.018	ug/L		99
76) p/m Xylene	9.655	106	4649697	170.597	ug/L		97
77) o Xylene	10.202	106	4451105	169.134	ug/L		98
78) Styrene	10.269	104	7097515	175.930	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2025\250208AICAL\
Data File : V01250208A11.D
Acq On : 8 Feb 2025 4:59 am
Operator : VOA101:PID
Sample : I8260STD80PPB
Misc : WG2028963,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 11 07:41:05 2025
Quant Method : K:\VOA101\2025\250208AICAL\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Feb 11 07:39:26 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2025\250208AICAL\V01250208A09.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) Bromoform	10.297	173	585647	85.215	ug/L	100
82) Isopropylbenzene	10.589	105	5814478	85.427	ug/L	99
84) Bromobenzene	11.030	156	1271243	82.797	ug/L	99
85) n-Propylbenzene	11.077	91	6894999	85.904	ug/L	99
86) 1,4-Dichlorobutane	11.091	55	1702597	81.605	ug/L	96
87) 1,1,2,2-Tetrachloroethane	11.167	83	983284	79.940	ug/L	99
88) 4-Ethyltoluene	11.203	105	5672489	85.941	ug/L	99
89) 2-Chlorotoluene	11.248	91	4021649M1	82.802	ug/L	
90) 1,3,5-Trimethylbenzene	11.303	105	4644891	85.034	ug/L	100
91) 1,2,3-Trichloropropane	11.303	75	769324M4	80.649	ug/L	
92) trans-1,4-Dichloro-2-b...	11.359	53	229764M1	96.424	ug/L	
93) 4-Chlorotoluene	11.432	91	4094124	84.812	ug/L	97
94) tert-Butylbenzene	11.643	119	4067048	86.387	ug/L	98
97) 1,2,4-Trimethylbenzene	11.724	105	4488328	86.685	ug/L	100
98) sec-Butylbenzene	11.839	105	5757035	87.482	ug/L	97
99) p-Isopropyltoluene	11.992	119	4959138	88.566	ug/L	97
100) 1,3-Dichlorobenzene	12.062	146	2344847	83.968	ug/L	98
101) 1,4-Dichlorobenzene	12.157	146	2354527	82.239	ug/L	98
102) p-Diethylbenzene	12.369	119	2813943	88.719	ug/L	97
103) n-Butylbenzene	12.427	91	3982992	88.343	ug/L	99
104) 1,2-Dichlorobenzene	12.578	146	2055141	83.056	ug/L	97
105) 1,2,4,5-Tetramethylben...	13.169	119	3804297	90.073	ug/L	97
106) 1,2-Dibromo-3-chloropr...	13.364	155	115459	89.999	ug/L	99
107) 1,3,5-Trichlorobenzene	13.398	180	1300944	85.778	ug/L	97
108) Hexachlorobutadiene	13.969	225	472993	85.361	ug/L	98
109) 1,2,4-Trichlorobenzene	13.994	180	1035301	88.407	ug/L	99
110) Naphthalene	14.287	128	1924098	89.909	ug/L	100
111) 1,2,3-Trichlorobenzene	14.457	180	759583	84.858	ug/L	99

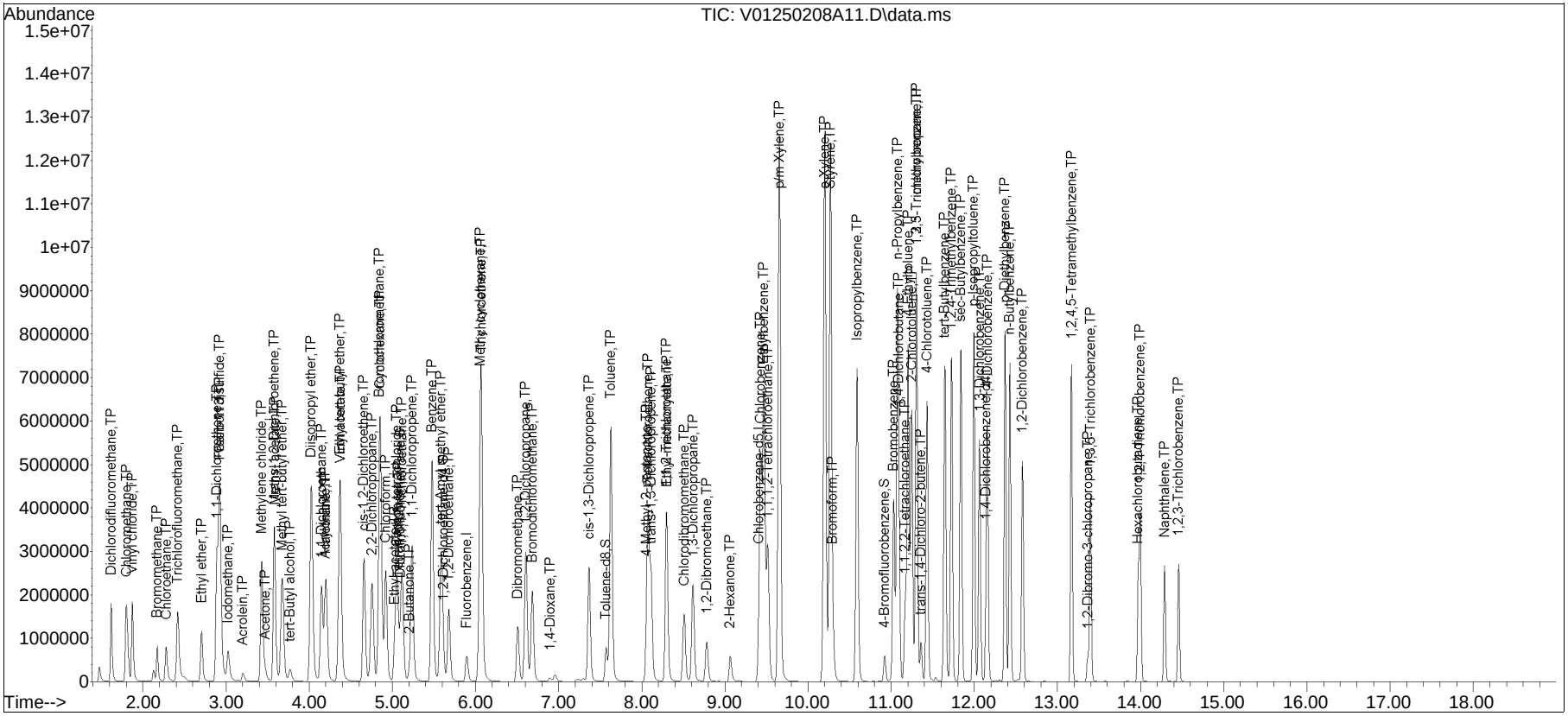
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2025\250208AICAL\
Data File : V01250208A11.D
Acq On : 8 Feb 2025 4:59 am
Operator : VOA101:PID
Sample : I8260STD80PPB
Misc : WG2028963,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 11 07:41:05 2025
Quant Method : K:\VOA101\2025\250208AICAL\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Feb 11 07:39:26 2025
Response via : Initial Calibration

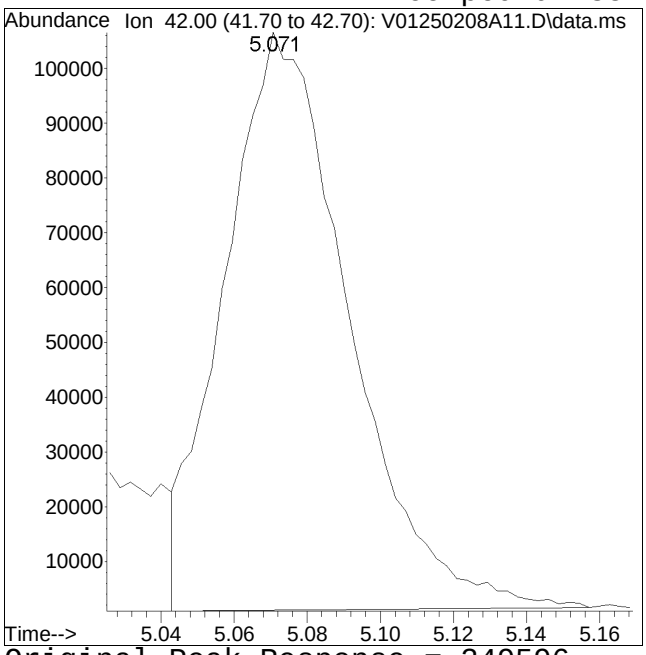
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE208A09.D•



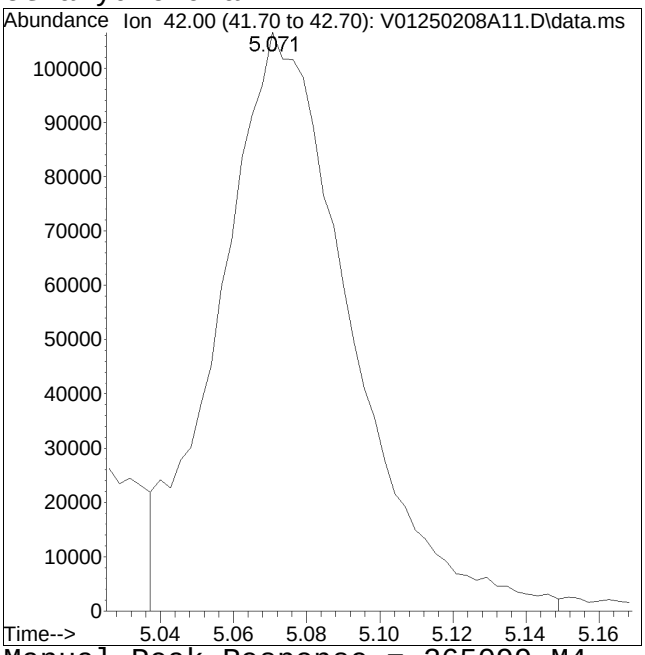
Manual Integration Report

Data Path : K:\VOA101\2025\250208AICALQMethod : V101_250208A_8260.m
Data File : V01250208A11.D Operator : VOA101:PID
Date Inj'd : 2/8/2025 4:59 am Instrument : VOA 101
Sample : I8260STD80PPB Quant Date : 2/11/2025 7:41 am

Compound #35: Tetrahydrofuran



Original Peak Response = 249596



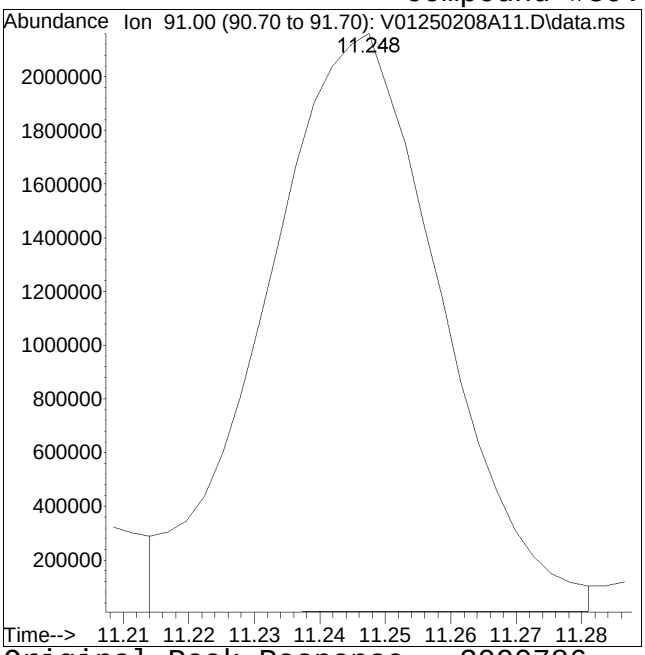
Manual Peak Response = 265099 M4

M4 = Poor automated baseline construction.

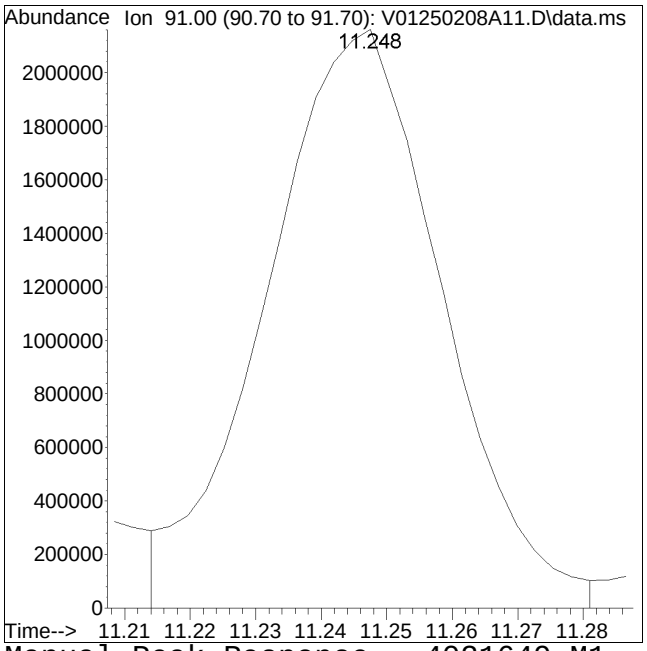
Manual Integration Report

Data Path : K:\VOA101\2025\250208AICALQMethod : V101_250208A_8260.m
Data File : V01250208A11.D Operator : VOA101:PID
Date Inj'd : 2/8/2025 4:59 am Instrument : VOA 101
Sample : I8260STD80PPB Quant Date : 2/11/2025 7:41 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 3990786



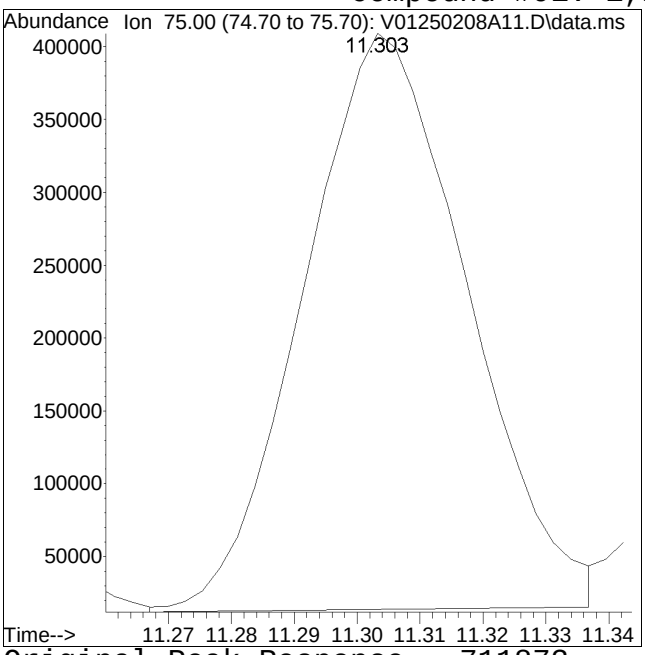
Manual Peak Response = 4021649 M1

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

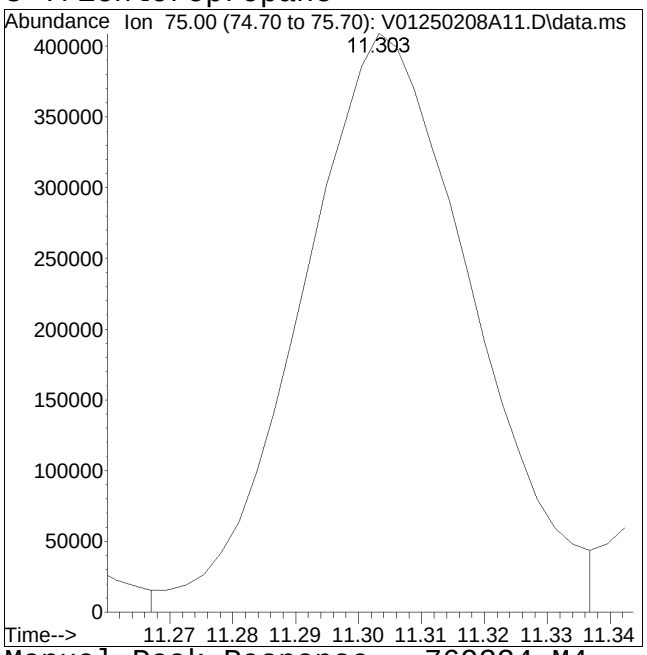
Manual Integration Report

Data Path : K:\VOA101\2025\250208AICALQMethod : V101_250208A_8260.m
Data File : V01250208A11.D Operator : VOA101:PID
Date Inj'd : 2/8/2025 4:59 am Instrument : VOA 101
Sample : I8260STD80PPB Quant Date : 2/11/2025 7:41 am

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 711873



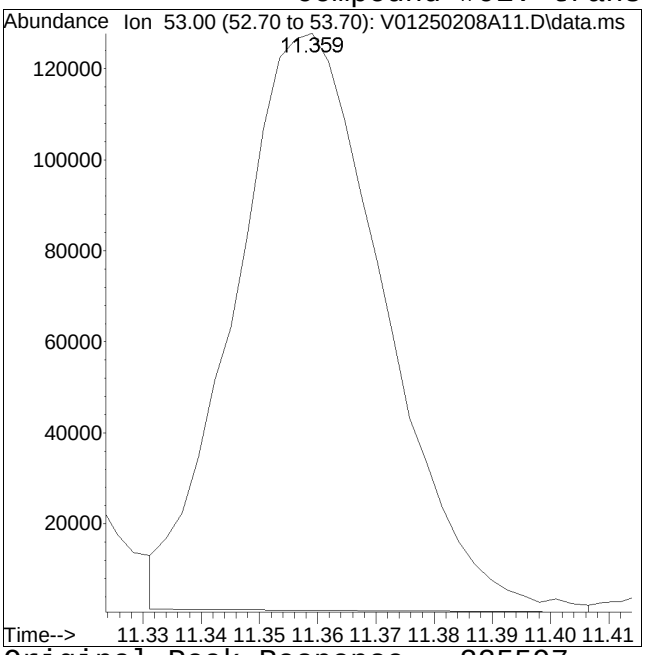
Manual Peak Response = 769324 M4

M4 = Poor automated baseline construction.

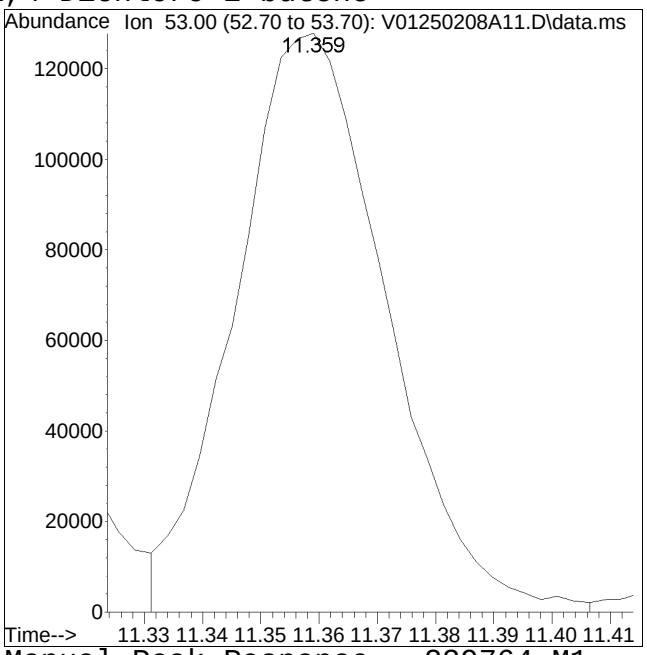
Manual Integration Report

Data Path : K:\VOA101\2025\250208AICALQMethod : V101_250208A_8260.m
Data File : V01250208A11.D Operator : VOA101:PID
Date Inj'd : 2/8/2025 4:59 am Instrument : VOA 101
Sample : I8260STD80PPB Quant Date : 2/11/2025 7:41 am

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



Original Peak Response = 225597



Manual Peak Response = 229764 M1

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2025\250208AICAL\
Data File : V01250208A12.D
Acq On : 8 Feb 2025 5:25 am
Operator : VOA101:PID
Sample : I8260STD120PPB
Misc : WG2028963,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 11 07:41:12 2025
Quant Method : K:\VOA101\2025\250208AICAL\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Feb 11 07:39:26 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2025\250208AICAL\V01250208A09.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.899	96	651251	10.000	ug/L	0.00
Standard Area 1 = 578930			Recovery = 112.49%			
59) Chlorobenzene-d5	9.412	117	481940	10.000	ug/L	0.00
Standard Area 1 = 424320			Recovery = 113.58%			
79) 1,4-Dichlorobenzene-d4	12.140	152	256221	10.000	ug/L	0.00
Standard Area 1 = 231124			Recovery = 110.86%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.098	113	166180	10.037	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.37%			
43) 1,2-Dichloroethane-d4	5.612	65	188449	9.923	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.23%			
60) Toluene-d8	7.572	98	643414	10.049	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.49%			
83) 4-Bromofluorobenzene	10.921	95	249267	9.937	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.37%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.618	85	2198992	126.917	ug/L	99
3) Chloromethane	1.802	50	3888939	121.297	ug/L	97
4) Vinyl chloride	1.872	62	2756906	136.593	ug/L	99
5) Bromomethane	2.173	94	718530	152.813	ug/L	99
6) Chloroethane	2.279	64	1160113	120.597	ug/L	97
7) Trichlorofluoromethane	2.419	101	2648818	125.881	ug/L	99
8) Ethyl ether	2.706	74	652371	121.634	ug/L	71
10) 1,1-Dichloroethene	2.893	96	1790277	126.330	ug/L	85
11) Carbon disulfide	2.920	76	5944523	126.644	ug/L	99
12) Freon-113	2.926	101	1861913	128.989	ug/L #	66
13) Iodomethane	3.026	142	1732129	163.435	ug/L	99
14) Acrolein	3.199	56	273870	131.320	ug/L	96
15) Methylene chloride	3.428	84	1953584	115.528	ug/L	80
17) Acetone	3.473	43	375069	82.540	ug/L	95
18) trans-1,2-Dichloroethene	3.579	96	1986544	125.533	ug/L	89
19) Methyl acetate	3.584	43	1021720	124.823	ug/L #	88
20) Methyl tert-butyl ether	3.673	73	4152060	125.327	ug/L	92
21) tert-Butyl alcohol	3.771	59	534948	639.170	ug/L	87
22) Diisopropyl ether	4.025	45	8159701	122.702	ug/L	90
23) 1,1-Dichloroethane	4.147	63	4157066	122.162	ug/L	98
24) Halothane	4.200	117	1445460	125.289	ug/L	100

Data Path : K:\VOA101\2025\250208AICAL\
Data File : V01250208A12.D
Acq On : 8 Feb 2025 5:25 am
Operator : VOA101:PID
Sample : I8260STD120PPB
Misc : WG2028963,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 11 07:41:12 2025
Quant Method : K:\VOA101\2025\250208AICAL\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Feb 11 07:39:26 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2025\250208AICAL\V01250208A09.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.192	53	511471	130.447	ug/L		93
26) Ethyl tert-butyl ether	4.368	59	6103235	126.148	ug/L		95
27) Vinyl acetate	4.376	43	4374216	130.239	ug/L		96
28) cis-1,2-Dichloroethene	4.658	96	2114870	122.051	ug/L		88
29) 2,2-Dichloropropane	4.755	77	2679782	128.227	ug/L		94
30) Bromochloromethane	4.847	128	769869	112.706	ug/L	#	77
31) Cyclohexane	4.850	56	4693130	131.128	ug/L		83
32) Chloroform	4.920	83	3433683	122.010	ug/L		99
33) Ethyl acetate	5.023	43	1467519	134.720	ug/L	#	93
34) Carbon tetrachloride	5.054	117	2733981	133.208	ug/L		97
35) Tetrahydrofuran	5.073	42	407165M4	120.419	ug/L		
37) 1,1,1-Trichloroethane	5.118	97	3031834	125.618	ug/L		98
39) 2-Butanone	5.204	43	586443	125.399	ug/L	#	45
40) 1,1-Dichloropropene	5.238	75	2723530	129.309	ug/L		99
41) Benzene	5.478	78	7672449	124.501	ug/L		94
42) tert-Amyl methyl ether	5.589	73	4275505	129.030	ug/L	#	90
44) 1,2-Dichloroethane	5.681	62	2376162	116.685	ug/L		99
47) Methyl cyclohexane	6.060	83	3661575	132.385	ug/L	#	80
48) Trichloroethene	6.072	95	2067715	121.462	ug/L		98
50) Dibromomethane	6.507	93	947229	120.876	ug/L		98
51) 1,2-Dichloropropane	6.604	63	2306947	122.655	ug/L		96
54) Bromodichloromethane	6.680	83	2590607	124.057	ug/L		98
57) 1,4-Dioxane	6.900	88	111484	1332.243	ug/L		89
58) cis-1,3-Dichloropropene	7.366	75	2899343	134.874	ug/L		97
61) Toluene	7.630	92	4771666	123.929	ug/L		98
62) 4-Methyl-2-pentanone	8.060	58	495946	133.161	ug/L		96
63) Tetrachloroethene	8.077	166	1986172	126.199	ug/L		97
65) trans-1,3-Dichloropropene	8.110	75	2347678	136.845	ug/L		97
67) Ethyl methacrylate	8.297	69	1768900	147.879	ug/L		94
68) 1,1,2-Trichloroethane	8.297	83	1170878	121.433	ug/L		98
69) Chlorodibromomethane	8.509	129	1721844	129.291	ug/L		98
70) 1,3-Dichloropropane	8.615	76	2455678	124.371	ug/L		100
71) 1,2-Dibromoethane	8.782	107	1334664	127.579	ug/L		100
72) 2-Hexanone	9.064	43	893263	137.510	ug/L		99
73) Chlorobenzene	9.429	112	5280550	123.572	ug/L		99
74) Ethylbenzene	9.468	91	9429412	126.828	ug/L		99
75) 1,1,1,2-Tetrachloroethane	9.516	131	1865071	124.548	ug/L		100
76) p/m Xylene	9.655	106	7267256	256.168	ug/L		97
77) o Xylene	10.202	106	6931963	253.063	ug/L		98
78) Styrene	10.269	104	11056094	263.295	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2025\250208AICAL\
Data File : V01250208A12.D
Acq On : 8 Feb 2025 5:25 am
Operator : VOA101:PID
Sample : I8260STD120PPB
Misc : WG2028963,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 11 07:41:12 2025
Quant Method : K:\VOA101\2025\250208AICAL\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Feb 11 07:39:26 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2025\250208AICAL\V01250208A09.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) Bromoform	10.299	173	915312	128.355	ug/L		100
82) Isopropylbenzene	10.589	105	9144138	129.476	ug/L		99
84) Bromobenzene	11.030	156	1971011	123.720	ug/L		99
85) n-Propylbenzene	11.077	91	10775324	129.382	ug/L		99
86) 1,4-Dichlorobutane	11.094	55	2633342	121.640	ug/L		96
87) 1,1,2,2-Tetrachloroethane	11.169	83	1537246	120.446	ug/L		99
88) 4-Ethyltoluene	11.206	105	8879428	129.651	ug/L		99
89) 2-Chlorotoluene	11.245	91	6210535M1	123.234	ug/L		
90) 1,3,5-Trimethylbenzene	11.303	105	7236930	127.684	ug/L		99
91) 1,2,3-Trichloropropane	11.303	75	1187456M1	119.970	ug/L		
92) trans-1,4-Dichloro-2-b...	11.359	53	368440	149.017	ug/L	#	80
93) 4-Chlorotoluene	11.431	91	6397587	127.726	ug/L		97
94) tert-Butylbenzene	11.646	119	6336620	129.716	ug/L		98
97) 1,2,4-Trimethylbenzene	11.727	105	6999389	130.282	ug/L		99
98) sec-Butylbenzene	11.839	105	9011864	131.977	ug/L		97
99) p-Isopropyltoluene	11.995	119	7732307	133.087	ug/L		97
100) 1,3-Dichlorobenzene	12.062	146	3635939	125.481	ug/L		97
101) 1,4-Dichlorobenzene	12.156	146	3642057	122.598	ug/L		98
102) p-Diethylbenzene	12.371	119	4403670	133.808	ug/L		97
103) n-Butylbenzene	12.427	91	6221460	132.990	ug/L		99
104) 1,2-Dichlorobenzene	12.580	146	3182413	123.951	ug/L		97
105) 1,2,4,5-Tetramethylben...	13.169	119	5950734	135.786	ug/L		97
106) 1,2-Dibromo-3-chloropr...	13.364	155	183697	137.999	ug/L		99
107) 1,3,5-Trichlorobenzene	13.397	180	2013167	127.926	ug/L		98
108) Hexachlorobutadiene	13.975	225	733839	127.635	ug/L		99
109) 1,2,4-Trichlorobenzene	13.997	180	1609483	132.456	ug/L		99
110) Naphthalene	14.287	128	3079172	138.667	ug/L		100
111) 1,2,3-Trichlorobenzene	14.457	180	1193794	128.532	ug/L		99

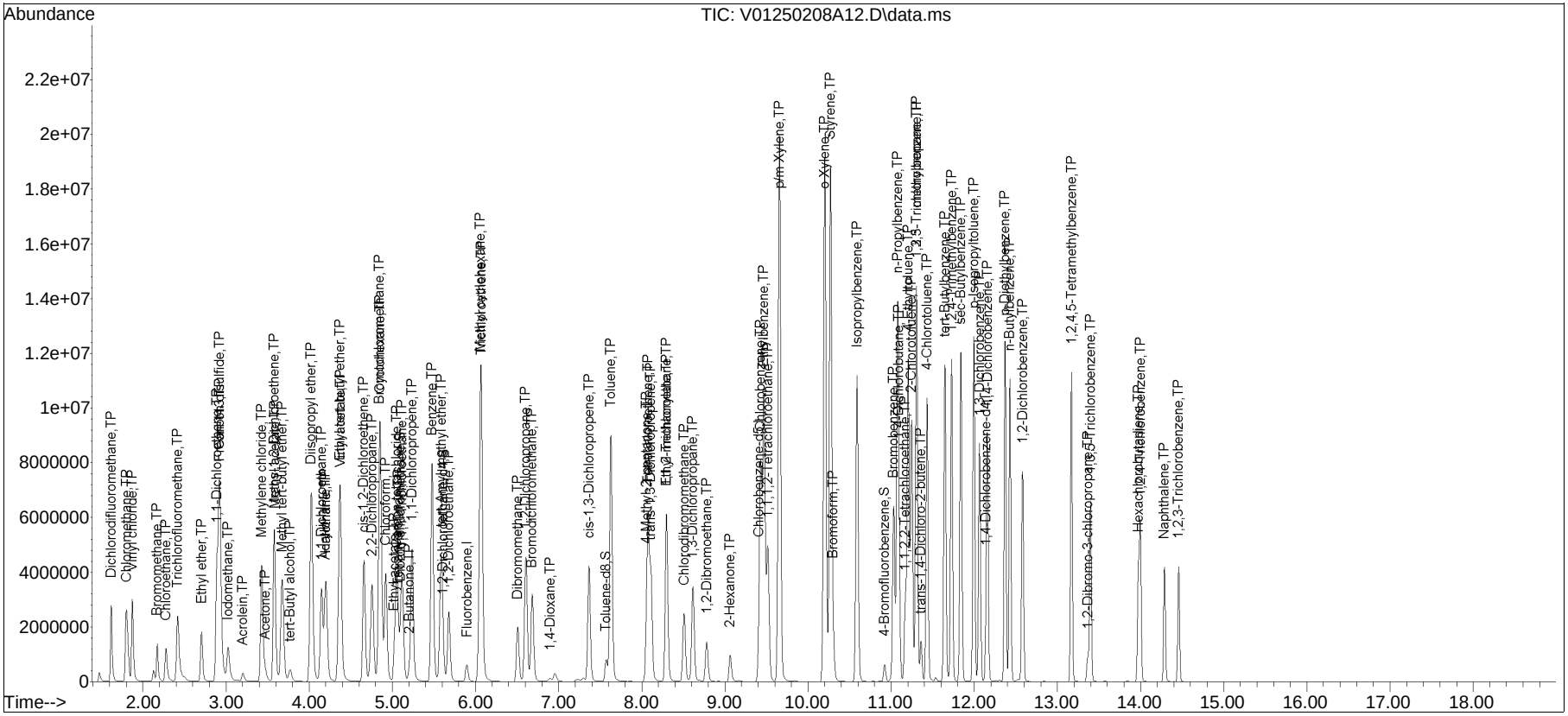
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2025\250208AICAL\
Data File : V01250208A12.D
Acq On : 8 Feb 2025 5:25 am
Operator : VOA101:PID
Sample : I8260STD120PPB
Misc : WG2028963,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 11 07:41:12 2025
Quant Method : K:\VOA101\2025\250208AICAL\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Feb 11 07:39:26 2025
Response via : Initial Calibration

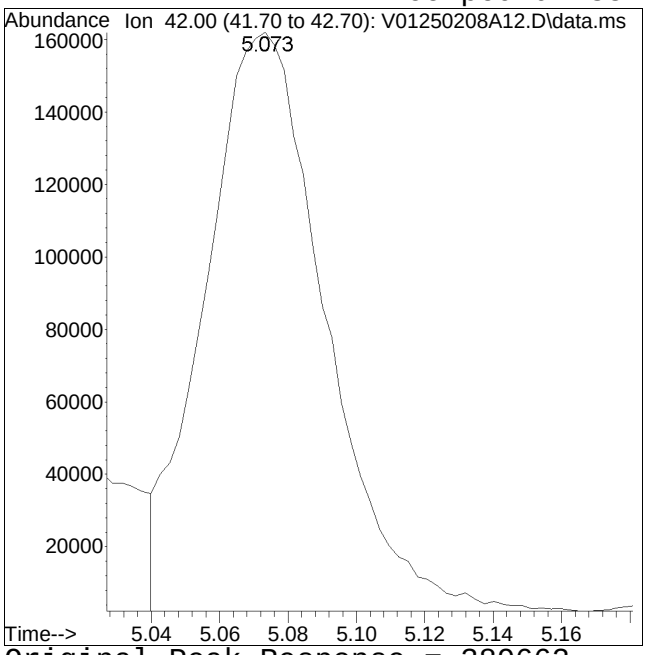
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE208A09.D•



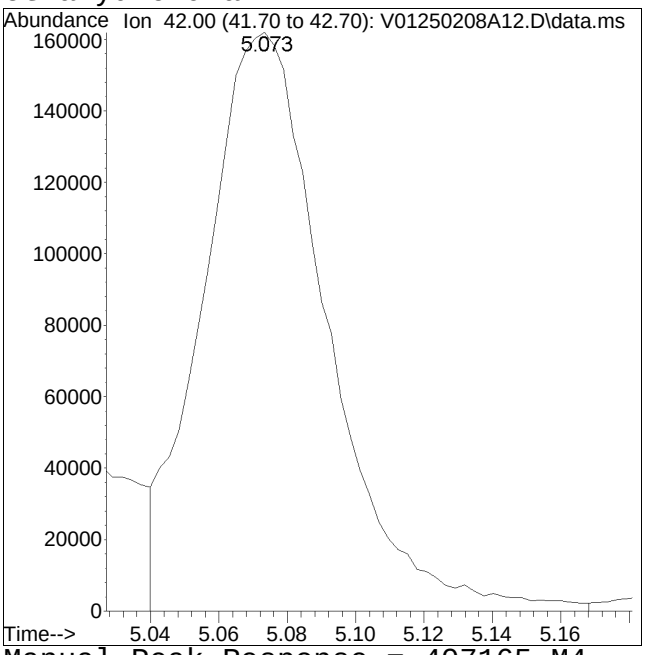
Manual Integration Report

Data Path : K:\VOA101\2025\250208AICALQMethod : V101_250208A_8260.m
Data File : V01250208A12.D Operator : VOA101:PID
Date Inj'd : 2/8/2025 5:25 am Instrument : VOA 101
Sample : I8260STD120PPB Quant Date : 2/11/2025 7:41 am

Compound #35: Tetrahydrofuran



Original Peak Response = 389662



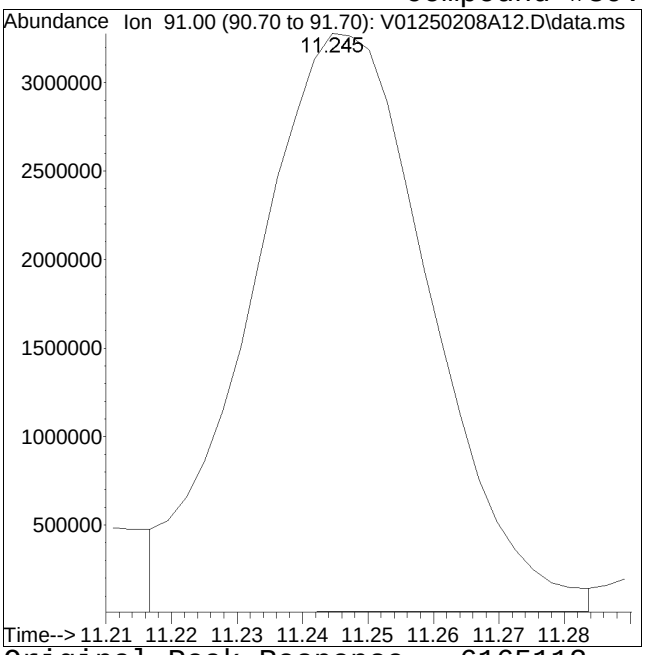
Manual Peak Response = 407165 M4

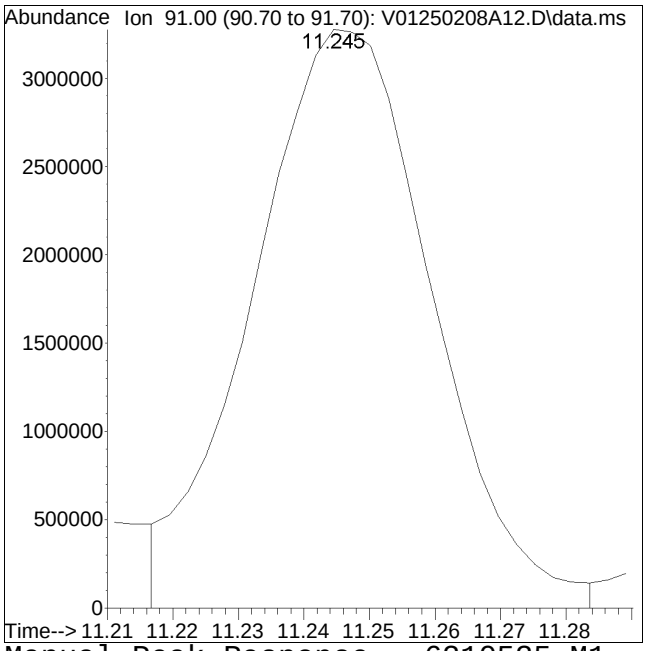
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : K:\VOA101\2025\250208AICALQMethod : V101_250208A_8260.m
Data File : V01250208A12.D Operator : VOA101:PID
Date Inj'd : 2/8/2025 5:25 am Instrument : VOA 101
Sample : I8260STD120PPB Quant Date : 2/11/2025 7:41 am

Compound #89: 2-Chlorotoluene



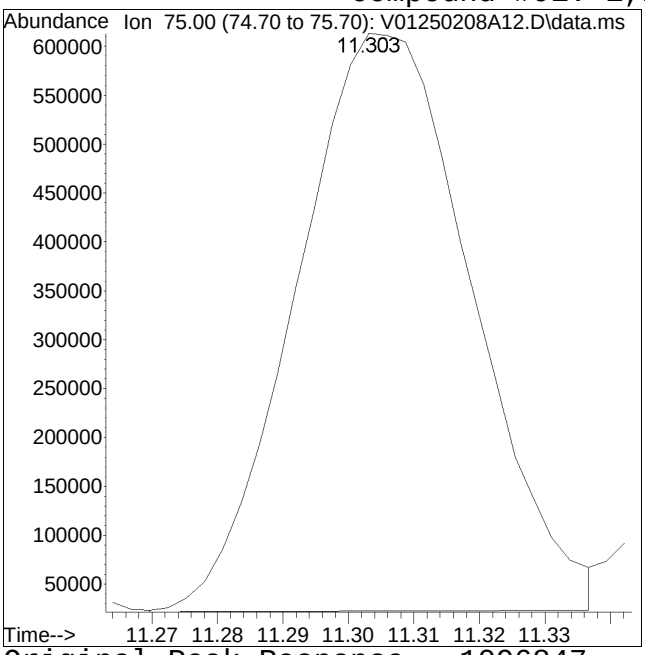


Original Peak Response = 6165112 Manual Peak Response = 6210535 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

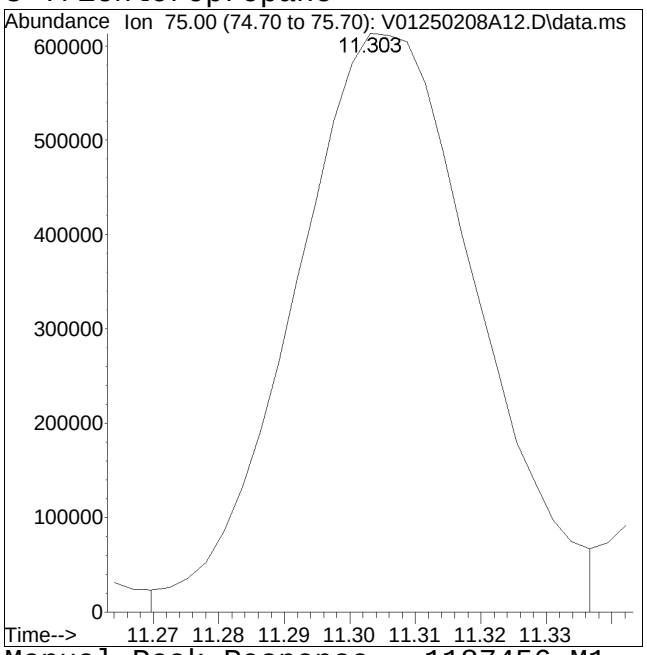
Manual Integration Report

Data Path : K:\VOA101\2025\250208AICALQMethod : V101_250208A_8260.m
Data File : V01250208A12.D Operator : VOA101:PID
Date Inj'd : 2/8/2025 5:25 am Instrument : VOA 101
Sample : I8260STD120PPB Quant Date : 2/11/2025 7:41 am

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 1096847



Manual Peak Response = 1187456 M1

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2025\250208AICAL\
Data File : V01250208A13.D
Acq On : 8 Feb 2025 5:51 am
Operator : VOA101:PID
Sample : I8260STD200PPB
Misc : WG2028963,ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 11 07:41:19 2025
Quant Method : K:\VOA101\2025\250208AICAL\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Feb 11 07:39:26 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2025\250208AICAL\V01250208A09.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.896	96	667772	10.000	ug/L	0.00
Standard Area 1 = 578930			Recovery = 115.35%			
59) Chlorobenzene-d5	9.410	117	493554	10.000	ug/L	0.00
Standard Area 1 = 424320			Recovery = 116.32%			
79) 1,4-Dichlorobenzene-d4	12.140	152	253947	10.000	ug/L	0.00
Standard Area 1 = 231124			Recovery = 109.87%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.099	113	168536	9.927	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.27%			
43) 1,2-Dichloroethane-d4	5.617	65	191464	9.832	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.32%			
60) Toluene-d8	7.572	98	660986	10.080	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.80%			
83) 4-Bromofluorobenzene	10.921	95	255977	10.295	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.95%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.618	85	3665921	206.348	ug/L	99
3) Chloromethane	1.800	50	6642381	202.053	ug/L	97
4) Vinyl chloride	1.872	62	4649919	224.683	ug/L	99
5) Bromomethane	2.173	94	1279071	265.296	ug/L	100
6) Chloroethane	2.271	64	1911508	193.791	ug/L	96
7) Trichlorofluoromethane	2.419	101	4445257	206.028	ug/L	98
8) Ethyl ether	2.706	74	1115575	202.852	ug/L	73
10) 1,1-Dichloroethene	2.893	96	3000810	206.513	ug/L	85
11) Carbon disulfide	2.921	76	10117895	210.221	ug/L	99
12) Freon-113	2.923	101	3109398	210.083	ug/L #	63
13) Iodomethane	3.024	142	3254946	299.523	ug/L	99
14) Acrolein	3.202	56	464589	217.258	ug/L	97
15) Methylene chloride	3.428	84	3299784	190.310	ug/L	81
17) Acetone	3.473	43	546922	117.381	ug/L	98
18) trans-1,2-Dichloroethene	3.579	96	3345075	206.151	ug/L	88
19) Methyl acetate	3.587	43	1649166	196.492	ug/L #	90
20) Methyl tert-butyl ether	3.674	73	7010844	206.381	ug/L	93
21) tert-Butyl alcohol	3.768	59	894727	1042.594	ug/L	88
22) Diisopropyl ether	4.025	45	13583428	199.208	ug/L	90
23) 1,1-Dichloroethane	4.148	63	7033719	201.583	ug/L	97
24) Halothane	4.201	117	2427873	205.236	ug/L	99

Data Path : K:\VOA101\2025\250208AICAL\
Data File : V01250208A13.D
Acq On : 8 Feb 2025 5:51 am
Operator : VOA101:PID
Sample : I8260STD200PPB
Misc : WG2028963,ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 11 07:41:19 2025
Quant Method : K:\VOA101\2025\250208AICAL\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Feb 11 07:39:26 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2025\250208AICAL\V01250208A09.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.192	53	854962	212.657	ug/L		91
26) Ethyl tert-butyl ether	4.368	59	10260121	206.820	ug/L		96
27) Vinyl acetate	4.376	43	7184487	208.620	ug/L		96
28) cis-1,2-Dichloroethene	4.658	96	3628523	204.224	ug/L		90
29) 2,2-Dichloropropane	4.756	77	4489442	209.504	ug/L		96
30) Bromochloromethane	4.850	128	1263476	180.392	ug/L	#	79
31) Cyclohexane	4.853	56	7854216	214.020	ug/L		83
32) Chloroform	4.920	83	5742057	198.986	ug/L		99
33) Ethyl acetate	5.026	43	2403655	215.199	ug/L	#	94
34) Carbon tetrachloride	5.051	117	4492824	213.488	ug/L		96
35) Tetrahydrofuran	5.071	42	640864	184.847	ug/L		99
37) 1,1,1-Trichloroethane	5.118	97	5090061	205.678	ug/L		98
39) 2-Butanone	5.205	43	989312	206.311	ug/L	#	45
40) 1,1-Dichloropropene	5.238	75	4575019	211.841	ug/L		99
41) Benzene	5.478	78	12902605	204.191	ug/L		94
42) tert-Amyl methyl ether	5.589	73	7262112	213.740	ug/L		91
44) 1,2-Dichloroethane	5.679	62	3936976	188.548	ug/L		99
47) Methyl cyclohexane	6.061	83	6169853	217.554	ug/L	#	81
48) Trichloroethene	6.072	95	3470189	198.803	ug/L		97
50) Dibromomethane	6.507	93	1593496	198.315	ug/L		98
51) 1,2-Dichloropropane	6.607	63	3892398	201.830	ug/L		96
54) Bromodichloromethane	6.683	83	4381919	204.646	ug/L		98
57) 1,4-Dioxane	6.894	88	182802	2130.453	ug/L	#	87
58) cis-1,3-Dichloropropene	7.366	75	4933375	223.817	ug/L		98
61) Toluene	7.631	92	8110765	205.694	ug/L		98
62) 4-Methyl-2-pentanone	8.057	58	830264	217.680	ug/L		98
63) Tetrachloroethene	8.077	166	3346983	207.660	ug/L		98
65) trans-1,3-Dichloropropene	8.113	75	4002708	227.825	ug/L		97
67) Ethyl methacrylate	8.297	69	2951470	240.935	ug/L		94
68) 1,1,2-Trichloroethane	8.297	83	1958425	198.331	ug/L		98
69) Chlorodibromomethane	8.509	129	2924805	214.451	ug/L		97
70) 1,3-Dichloropropane	8.615	76	4147585	205.117	ug/L		99
71) 1,2-Dibromoethane	8.782	107	2253318	210.323	ug/L		100
72) 2-Hexanone	9.061	43	1471865	221.249	ug/L		98
73) Chlorobenzene	9.432	112	8921356	203.860	ug/L		99
74) Ethylbenzene	9.468	91	15942825	209.389	ug/L		99
75) 1,1,1,2-Tetrachloroethane	9.516	131	3163839	206.308	ug/L		100
76) p/m Xylene	9.658	106	12056283	414.980	ug/L	#	1
77) o Xylene	10.202	106	11497690	409.866	ug/L	#	1
78) Styrene	10.271	104	18119950	421.363	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2025\250208AICAL\
Data File : V01250208A13.D
Acq On : 8 Feb 2025 5:51 am
Operator : VOA101:PID
Sample : I8260STD200PPB
Misc : WG2028963,ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 11 07:41:19 2025
Quant Method : K:\VOA101\2025\250208AICAL\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Feb 11 07:39:26 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2025\250208AICAL\V01250208A09.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) Bromoform	10.299	173	1542202	218.200	ug/L	100
82) Isopropylbenzene	10.589	105	15410345	220.157	ug/L	99
84) Bromobenzene	11.033	156	3315554	209.980	ug/L	99
85) n-Propylbenzene	11.075	91	17180041	208.132	ug/L	99
86) 1,4-Dichlorobutane	11.094	55	4361320	203.264	ug/L	96
87) 1,1,2,2-Tetrachloroethane	11.172	83	2535011	200.401	ug/L	99
88) 4-Ethyltoluene	11.208	105	14844784	218.694	ug/L	99
89) 2-Chlorotoluene	11.248	91	10636722M1	212.952	ug/L	
90) 1,3,5-Trimethylbenzene	11.309	105	12202570	217.222	ug/L	98
91) 1,2,3-Trichloropropane	11.306	75	1951091M4	198.886	ug/L	
92) trans-1,4-Dichloro-2-b...	11.362	53	634240M4	258.817	ug/L	
93) 4-Chlorotoluene	11.434	91	10700630	215.548	ug/L	96
94) tert-Butylbenzene	11.646	119	10664699	220.270	ug/L	98
97) 1,2,4-Trimethylbenzene	11.727	105	11753687	220.734	ug/L	99
98) sec-Butylbenzene	11.839	105	14962507	221.086	ug/L	97
99) p-Isopropyltoluene	11.998	119	12890099	223.848	ug/L	97
100) 1,3-Dichlorobenzene	12.062	146	6109046	212.719	ug/L	97
101) 1,4-Dichlorobenzene	12.157	146	6095106	207.009	ug/L	98
102) p-Diethylbenzene	12.371	119	7358302	225.588	ug/L	98
103) n-Butylbenzene	12.430	91	10413653	224.596	ug/L	99
104) 1,2-Dichlorobenzene	12.580	146	5312101	208.752	ug/L	97
105) 1,2,4,5-Tetramethylben...	13.172	119	10065376	231.732	ug/L	97
106) 1,2-Dibromo-3-chloropr...	13.364	155	310766	235.548	ug/L	99
107) 1,3,5-Trichlorobenzene	13.398	180	3412621	218.796	ug/L	98
108) Hexachlorobutadiene	13.972	225	1264512	221.903	ug/L	98
109) 1,2,4-Trichlorobenzene	13.997	180	2750362	228.374	ug/L	99
110) Naphthalene	14.287	128	5169428	234.884	ug/L	100
111) 1,2,3-Trichlorobenzene	14.457	180	2015720	218.969	ug/L	99

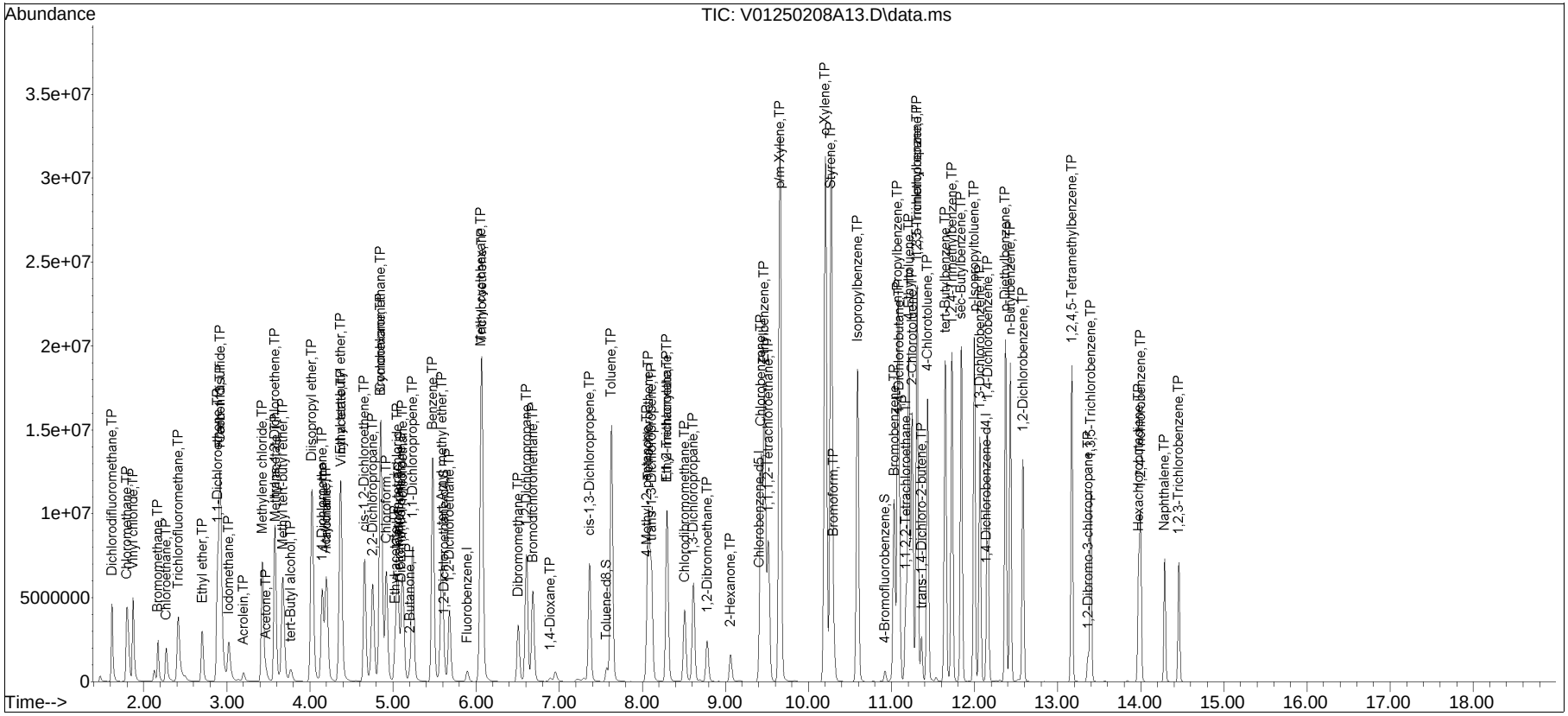
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2025\250208AICAL\
Data File : V01250208A13.D
Acq On : 8 Feb 2025 5:51 am
Operator : VOA101:PID
Sample : I8260STD200PPB
Misc : WG2028963,ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 11 07:41:19 2025
Quant Method : K:\VOA101\2025\250208AICAL\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Feb 11 07:39:26 2025
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE208A09.D•

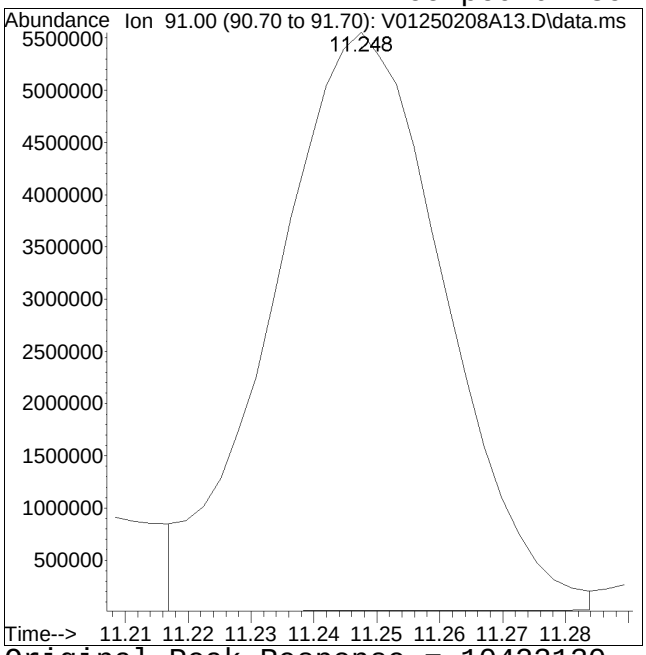


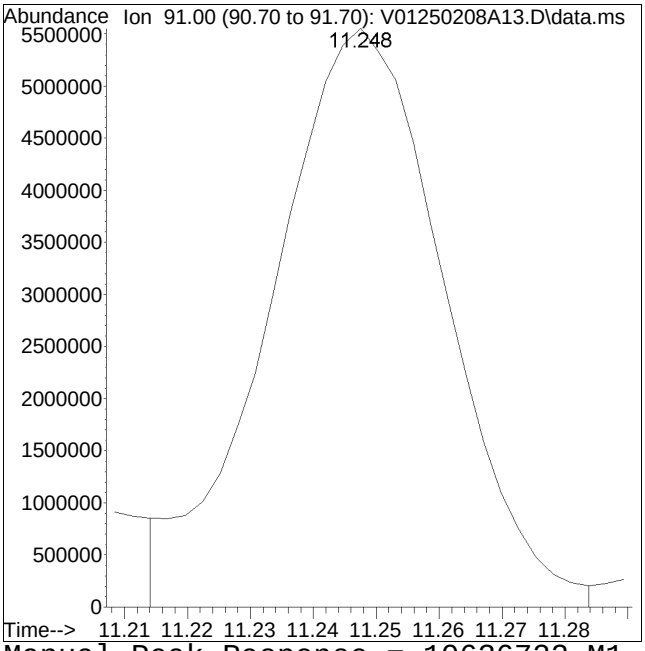
Manual Integration Report

Data Path : K:\VOA101\2025\250208AICALQ
Data File : V01250208A13.D
Date Inj'd : 2/8/2025 5:51 am
Sample : I8260STD200PPB

Method : V101_250208A_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 2/11/2025 7:41 am

Compound #89: 2-Chlorotoluene





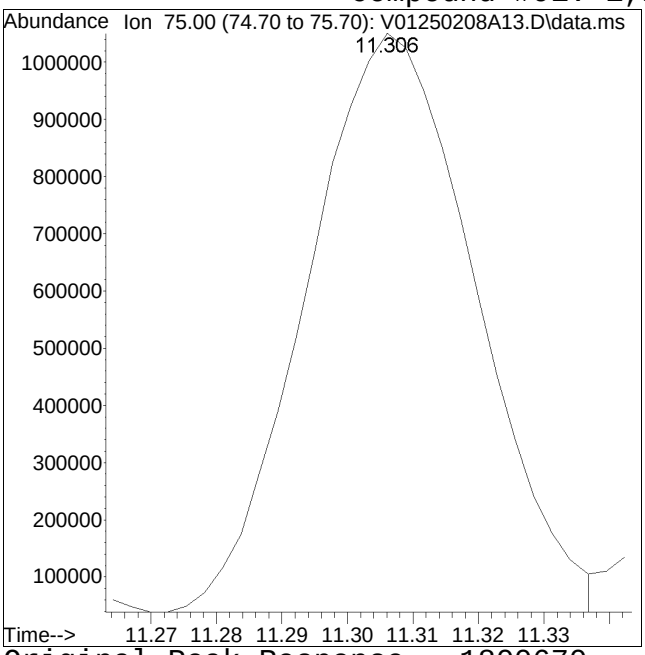
Original Peak Response = 10423130 Manual Peak Response = 10636722 M1

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

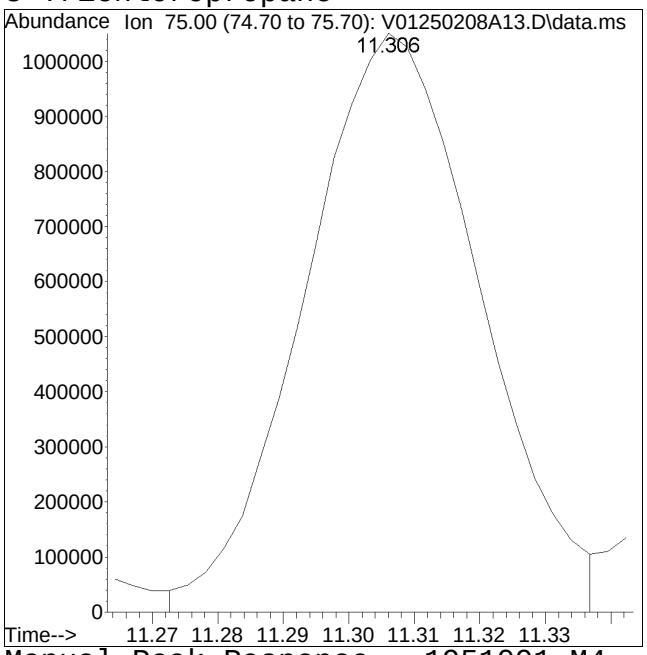
Manual Integration Report

Data Path : K:\VOA101\2025\250208AICALQMethod : V101_250208A_8260.m
Data File : V01250208A13.D Operator : VOA101:PID
Date Inj'd : 2/8/2025 5:51 am Instrument : VOA 101
Sample : I8260STD200PPB Quant Date : 2/11/2025 7:41 am

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 1800670



Manual Peak Response = 1951091 M4

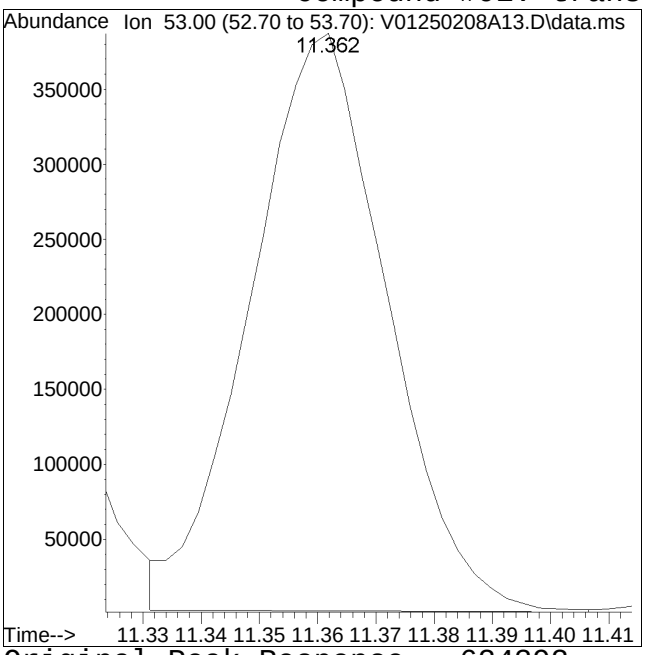
M4 = Poor automated baseline construction.

Manual Integration Report

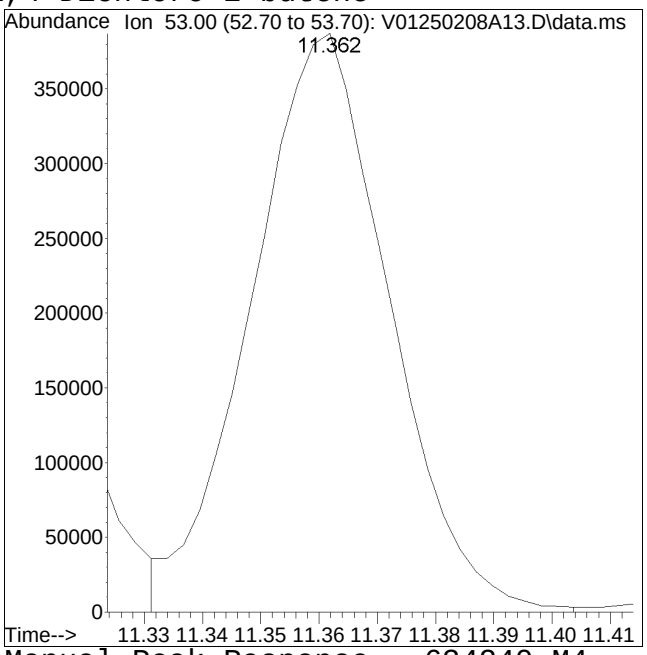
Data Path : K:\VOA101\2025\250208AICALQ
Data File : V01250208A13.D
Date Inj'd : 2/8/2025 5:51 am
Sample : I8260STD200PPB

Method : V101_250208A_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 2/11/2025 7:41 am

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



Original Peak Response = 624392



Manual Peak Response = 634240 M4

M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : K:\VOA101\2025\250208AICAL\
Data File : V01250208A18.D
Acq On : 8 Feb 2025 8:02 am
Operator : VOA101:PID
Sample : C8260STD10PPB
Misc : WG2028963,ICAL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 12 10:30:52 2025
Quant Method : K:\VOA101\2025\250208AICAL\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 12 10:30:07 2025
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	116	0.00
2	TP	Dichlorodifluoromethane	0.266	0.304	-14.3	126	0.00
3	TP	Chloromethane	0.492	0.503	-2.2	124	0.00
4	TP	Vinyl chloride	0.310	0.327	-5.5	122	0.00
5	TP	Bromomethane	* 10.000	9.158	8.4	120	0.00
6	TP	Chloroethane	0.148	0.161	-8.8	125	0.00
7	TP	Trichlorofluoromethane	0.323	0.351	-8.7	122	0.00
8	TP	Ethyl ether	0.082	0.089	-8.5	132	0.00
10	TP	1,1-Dichloroethene	0.218	0.228	-4.6	122	0.00
11	TP	Carbon disulfide	0.721	0.614	14.8	102	0.00
12	TP	Freon-113	0.222	0.239	-7.7	120	0.00
13	TP	Iodomethane	* 10.000	9.017	9.8	129	0.00
14	TP	Acrolein	0.032	0.027	15.6	99	0.00
15	TP	Methylene chloride	0.260	0.252	3.1	116	0.00
17	TP	Acetone	* 10.000	8.268	17.3	105	0.00
18	TP	trans-1,2-Dichloroethene	0.243	0.254	-4.5	120	0.00
19	TP	Methyl acetate	0.126	0.123	2.4	116	0.00
20	TP	Methyl tert-butyl ether	0.509	0.468	8.1	110	0.00
21	TP	tert-Butyl alcohol	0.013	0.012	7.7	116	0.00
22	TP	Diisopropyl ether	1.021	0.948	7.1	107	0.00
23	TP	1,1-Dichloroethane	0.523	0.532	-1.7	117	0.00
24	TP	Halothane	0.177	0.187	-5.6	119	0.00
25	TP	Acrylonitrile	0.060	0.060	0.0	116	0.00
26	TP	Ethyl tert-butyl ether	0.743	0.714	3.9	113	0.00
27	TP	Vinyl acetate	0.516	0.452	12.4	101	0.00
28	TP	cis-1,2-Dichloroethene	0.266	0.262	1.5	115	0.00
29	TP	2,2-Dichloropropane	0.321	0.310	3.4	113	0.00
30	TP	Bromochloromethane	0.105	0.107	-1.9	114	0.00
31	TP	Cyclohexane	0.550	0.551	-0.2	110	0.00
32	TP	Chloroform	0.432	0.440	-1.9	116	0.00
33	TP	Ethyl acetate	0.167	0.166	0.6	111	0.00
34	TP	Carbon tetrachloride	0.315	0.331	-5.1	119	0.00
35	TP	Tetrahydrofuran	0.052	0.051	1.9	110	0.00
36	S	Dibromofluoromethane	0.254	0.248	2.4	113	0.00
37	TP	1,1,1-Trichloroethane	0.371	0.392	-5.7	119	0.00
39	TP	2-Butanone	0.072	0.069	4.2	118	0.00
40	TP	1,1-Dichloropropene	0.323	0.364	-12.7	125	0.00
41	TP	Benzene	0.946	0.987	-4.3	118	0.00
42	TP	tert-Amyl methyl ether	0.509	0.476	6.5	113	0.00

Data Path : K:\VOA101\2025\250208AICAL\
Data File : V01250208A18.D
Acq On : 8 Feb 2025 8:02 am
Operator : VOA101:PID
Sample : C8260STD10PPB
Misc : WG2028963,ICAL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 12 10:30:52 2025
Quant Method : K:\VOA101\2025\250208AICAL\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 12 10:30:07 2025
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43	S	1,2-Dichloroethane-d4	0.292	0.278	4.8	111	0.00
44	TP	1,2-Dichloroethane	0.312	0.303	2.9	111	0.00
47	TP	Methyl cyclohexane	0.425	0.437	-2.8	115	0.00
48	TP	Trichloroethene	0.261	0.269	-3.1	120	0.00
50	TP	Dibromomethane	0.120	0.117	2.5	112	0.00
51	TP	1,2-Dichloropropane	0.289	0.286	1.0	116	0.00
54	TP	Bromodichloromethane	0.321	0.302	5.9	110	0.00
57	TP	1,4-Dioxane	0.00128	0.00135#	-5.5	115	0.00
58	TP	cis-1,3-Dichloropropene	* 10.000	9.332	6.7	121	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	113	0.00
60	S	Toluene-d8	1.329	1.353	-1.8	115	0.00
61	TP	Toluene	0.799	0.885	-10.8	126	0.00
62	TP	4-Methyl-2-pentanone	0.077	0.068	11.7	112	0.00
63	TP	Tetrachloroethene	0.320	0.355	-10.9	122	0.00
65	TP	trans-1,3-Dichloropropene	* 10.000	9.952	0.5	121	0.00
67	TP	Ethyl methacrylate	0.270	0.276	-2.2	130	0.00
68	TP	1,1,2-Trichloroethane	0.200	0.209	-4.5	117	0.00
69	TP	Chlorodibromomethane	0.276	0.279	-1.1	116	0.00
70	TP	1,3-Dichloropropane	0.410	0.426	-3.9	116	0.00
71	TP	1,2-Dibromoethane	0.217	0.217	0.0	112	0.00
72	TP	2-Hexanone	0.135	0.118	12.6	114	0.00
73	TP	Chlorobenzene	0.887	0.941	-6.1	120	0.00
74	TP	Ethylbenzene	1.543	1.622	-5.1	116	0.00
75	TP	1,1,1,2-Tetrachloroethane	0.311	0.308	1.0	111	0.00
76	TP	p/m Xylene	0.589	0.636	-8.0	118	0.00
77	TP	o Xylene	0.568	0.597	-5.1	114	0.00
78	TP	Styrene	0.871	0.933	-7.1	116	0.00
79	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	108	0.00
80	TP	Bromoform	0.278	0.284	-2.2	115	0.00
82	TP	Isopropylbenzene	2.756	2.667	3.2	104	0.00
83	S	4-Bromofluorobenzene	0.979	0.984	-0.5	110	0.00
84	TP	Bromobenzene	0.622	0.644	-3.5	112	0.00
85	TP	n-Propylbenzene	3.228	3.535	-9.5	116	0.00
86	TP	1,4-Dichlorobutane	0.845	0.935	-10.7	120	0.00
87	TP	1,1,2,2-Tetrachloroethane	0.488	0.500	-2.5	111	0.00
88	TP	4-Ethyltoluene	2.673	2.896	-8.3	117	0.00
89	TP	2-Chlorotoluene	1.967	2.017	-2.5	111	0.00

Data Path : K:\VOA101\2025\250208AICAL\
Data File : V01250208A18.D
Acq On : 8 Feb 2025 8:02 am
Operator : VOA101:PID
Sample : C8260STD10PPB
Misc : WG2028963,ICAL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 12 10:30:52 2025
Quant Method : K:\VOA101\2025\250208AICAL\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 12 10:30:07 2025
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
90 TP	1,3,5-Trimethylbenzene	2.212	2.316	-4.7	114	0.00
91 TP	1,2,3-Trichloropropane	0.386	0.385	0.3	110	0.00
92 TP	trans-1,4-Dichloro-2-butene	0.108	0.101	6.5	113	0.00
93 TP	4-Chlorotoluene	1.955	2.075	-6.1	116	0.00
94 TP	tert-Butylbenzene	1.907	2.020	-5.9	114	0.00
97 TP	1,2,4-Trimethylbenzene	2.097	2.264	-8.0	115	0.00
98 TP	sec-Butylbenzene	2.665	2.832	-6.3	114	0.00
99 TP	p-Isopropyltoluene	2.268	2.406	-6.1	114	0.00
100 TP	1,3-Dichlorobenzene	1.131	1.220	-7.9	118	0.00
101 TP	1,4-Dichlorobenzene	1.159	1.209	-4.3	117	0.00
102 TP	p-Diethylbenzene	1.284	1.288	-0.3	110	0.00
103 TP	n-Butylbenzene	1.826	1.990	-9.0	119	0.00
104 TP	1,2-Dichlorobenzene	1.002	1.062	-6.0	116	0.00
105 TP	1,2,4,5-Tetramethylbenzene	1.710	1.731	-1.2	112	0.00
106 TP	1,2-Dibromo-3-chloropropane *	10.000	9.333	6.7	113	0.00
107 TP	1,3,5-Trichlorobenzene	0.614	0.629	-2.4	115	0.00
108 TP	Hexachlorobutadiene	0.224	0.246	-9.8	122	0.00
109 TP	1,2,4-Trichlorobenzene	0.474	0.489	-3.2	118	0.00
110 TP	Naphthalene	0.867	0.878	-1.3	119	0.00
111 TP	1,2,3-Trichlorobenzene	0.362	0.371#	-2.5	117	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 2 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2025\250208AICAL\
Data File : V01250208A18.D
Acq On : 8 Feb 2025 8:02 am
Operator : VOA101:PID
Sample : C8260STD10PPB
Misc : WG2028963,ICAL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 12 10:30:52 2025
Quant Method : K:\VOA101\2025\250208AICAL\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 12 10:30:07 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2025\250208AICAL\V01250208A09.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.896	96	669053	10.000	ug/L	0.00
Standard Area 1 = 578930			Recovery = 115.57%			
59) Chlorobenzene-d5	9.410	117	481294	10.000	ug/L	0.00
Standard Area 1 = 424320			Recovery = 113.43%			
79) 1,4-Dichlorobenzene-d4	12.143	152	250608	10.000	ug/L	0.00
Standard Area 1 = 231124			Recovery = 108.43%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.096	113	166093	9.765	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.65%			
43) 1,2-Dichloroethane-d4	5.614	65	185690	9.518	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.18%			
60) Toluene-d8	7.569	98	651180	10.184	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.84%			
83) 4-Bromofluorobenzene	10.921	95	246605	10.051	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.51%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.618	85	203578	11.437	ug/L	98
3) Chloromethane	1.805	50	336373	10.212	ug/L	99
4) Vinyl chloride	1.872	62	218946	10.559	ug/L	97
5) Bromomethane	2.173	94	38868	9.158	ug/L	95
6) Chloroethane	2.282	64	107542	10.882	ug/L	99
7) Trichlorofluoromethane	2.419	101	234630	10.854	ug/L	99
8) Ethyl ether	2.709	74	59803	10.854	ug/L	92
10) 1,1-Dichloroethene	2.893	96	152666	10.486	ug/L	95
11) Carbon disulfide	2.920	76	410587	8.514	ug/L	99
12) Freon-113	2.929	101	159782	10.775	ug/L	81
13) Iodomethane	3.024	142	83226	9.017	ug/L	99
14) Acrolein	3.205	56	18134M1	8.464	ug/L	
15) Methylene chloride	3.431	84	168356	9.691	ug/L	95
17) Acetone	3.481	43	28503	8.268	ug/L #	69
18) trans-1,2-Dichloroethene	3.579	96	170116	10.464	ug/L	98
19) Methyl acetate	3.593	43	82434	9.803	ug/L	98
20) Methyl tert-butyl ether	3.679	73	313037	9.197	ug/L	97
21) tert-Butyl alcohol	3.771	59	40883M1	47.548	ug/L	
22) Diisopropyl ether	4.028	45	634542	9.288	ug/L	98
23) 1,1-Dichloroethane	4.150	63	355776	10.177	ug/L	99
24) Halothane	4.198	117	125010	10.547	ug/L	98

Data Path : K:\VOA101\2025\250208AICAL\
Data File : V01250208A18.D
Acq On : 8 Feb 2025 8:02 am
Operator : VOA101:PID
Sample : C8260STD10PPB
Misc : WG2028963,ICAL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 12 10:30:52 2025
Quant Method : K:\VOA101\2025\250208AICAL\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 12 10:30:07 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2025\250208AICAL\V01250208A09.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.195	53	40450	10.042	ug/L		99
26) Ethyl tert-butyl ether	4.368	59	477529	9.607	ug/L		95
27) Vinyl acetate	4.382	43	302083	8.755	ug/L		100
28) cis-1,2-Dichloroethene	4.658	96	175497	9.859	ug/L		98
29) 2,2-Dichloropropane	4.758	77	207250	9.653	ug/L		96
30) Bromochloromethane	4.856	128	71838	10.237	ug/L		94
31) Cyclohexane	4.856	56	368350	10.018	ug/L		100
32) Chloroform	4.923	83	294492	10.186	ug/L		99
33) Ethyl acetate	5.031	43	111068	9.925	ug/L	#	95
34) Carbon tetrachloride	5.054	117	221595	10.510	ug/L		97
35) Tetrahydrofuran	5.079	42	34172M1	9.837	ug/L		
37) 1,1,1-Trichloroethane	5.118	97	262580	10.590	ug/L	#	97
39) 2-Butanone	5.221	43	46480	9.674	ug/L		95
40) 1,1-Dichloropropene	5.238	75	243390	11.248	ug/L		98
41) Benzene	5.483	78	660074	10.426	ug/L		98
42) tert-Amyl methyl ether	5.592	73	318230	9.348	ug/L		96
44) 1,2-Dichloroethane	5.681	62	202902	9.720	ug/L		96
47) Methyl cyclohexane	6.063	83	292325	10.288	ug/L		96
48) Trichloroethene	6.077	95	180247	10.306	ug/L		100
50) Dibromomethane	6.509	93	78177	9.711	ug/L		98
51) 1,2-Dichloropropane	6.607	63	191680	9.920	ug/L		98
54) Bromodichloromethane	6.682	83	201920	9.412	ug/L		99
57) 1,4-Dioxane	6.897	88	45068M1	524.236	ug/L		
58) cis-1,3-Dichloropropene	7.371	75	221779	9.332	ug/L		98
61) Toluene	7.630	92	426030	11.080	ug/L		100
62) 4-Methyl-2-pentanone	8.068	58	32794	8.817	ug/L		94
63) Tetrachloroethene	8.082	166	170927	11.092	ug/L		97
65) trans-1,3-Dichloropropene	8.116	75	178452	9.952	ug/L		98
67) Ethyl methacrylate	8.305	69	132746	10.199	ug/L		94
68) 1,1,2-Trichloroethane	8.294	83	100368	10.423	ug/L		98
69) Chlorodibromomethane	8.512	129	134082	10.082	ug/L		99
70) 1,3-Dichloropropane	8.618	76	205012	10.397	ug/L		100
71) 1,2-Dibromoethane	8.785	107	104615	10.013	ug/L		98
72) 2-Hexanone	9.081	43	56721	8.743	ug/L	#	89
73) Chlorobenzene	9.429	112	452664	10.607	ug/L		98
74) Ethylbenzene	9.471	91	780855	10.517	ug/L		100
75) 1,1,1,2-Tetrachloroethane	9.513	131	148008	9.897	ug/L		98
76) p/m Xylene	9.658	106	612331	21.613	ug/L		99
77) o Xylene	10.199	106	574649	21.007	ug/L		97
78) Styrene	10.269	104	898276	21.421	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2025\250208AICAL\
Data File : V01250208A18.D
Acq On : 8 Feb 2025 8:02 am
Operator : VOA101:PID
Sample : C8260STD10PPB
Misc : WG2028963,ICAL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 12 10:30:52 2025
Quant Method : K:\VOA101\2025\250208AICAL\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 12 10:30:07 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2025\250208AICAL\V01250208A09.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) Bromoform	10.296	173	71132	10.198	ug/L	99
82) Isopropylbenzene	10.592	105	668429	9.677	ug/L	99
84) Bromobenzene	11.030	156	161464	10.362	ug/L	100
85) n-Propylbenzene	11.074	91	885980	10.951	ug/L	100
86) 1,4-Dichlorobutane	11.091	55	234301	11.065	ug/L	99
87) 1,1,2,2-Tetrachloroethane	11.169	83	125391	10.247	ug/L	99
88) 4-Ethyltoluene	11.203	105	725710	10.834	ug/L	100
89) 2-Chlorotoluene	11.247	91	505373M1	10.253	ug/L	
90) 1,3,5-Trimethylbenzene	11.300	105	580480	10.471	ug/L	99
91) 1,2,3-Trichloropropane	11.306	75	96577M1	9.976	ug/L	
92) trans-1,4-Dichloro-2-b...	11.362	53	25291M1	9.346	ug/L	
93) 4-Chlorotoluene	11.429	91	520019	10.615	ug/L	99
94) tert-Butylbenzene	11.643	119	506311	10.597	ug/L	99
97) 1,2,4-Trimethylbenzene	11.724	105	567390	10.798	ug/L	98
98) sec-Butylbenzene	11.836	105	709720	10.627	ug/L	100
99) p-Isopropyltoluene	11.992	119	603076	10.612	ug/L	100
100) 1,3-Dichlorobenzene	12.064	146	305797	10.790	ug/L	100
101) 1,4-Dichlorobenzene	12.154	146	302866	10.423	ug/L	99
102) p-Diethylbenzene	12.368	119	322697	10.025	ug/L	100
103) n-Butylbenzene	12.427	91	498598	10.897	ug/L	100
104) 1,2-Dichlorobenzene	12.580	146	266153	10.599	ug/L	99
105) 1,2,4,5-Tetramethylben...	13.166	119	433896	10.123	ug/L	100
106) 1,2-Dibromo-3-chloropr...	13.364	155	13538	9.333	ug/L	96
107) 1,3,5-Trichlorobenzene	13.397	180	157563	10.237	ug/L	97
108) Hexachlorobutadiene	13.975	225	61546	10.944	ug/L	97
109) 1,2,4-Trichlorobenzene	13.997	180	122605	10.316	ug/L	99
110) Naphthalene	14.293	128	219924	10.126	ug/L	100
111) 1,2,3-Trichlorobenzene	14.460	180	93061	10.244	ug/L	99

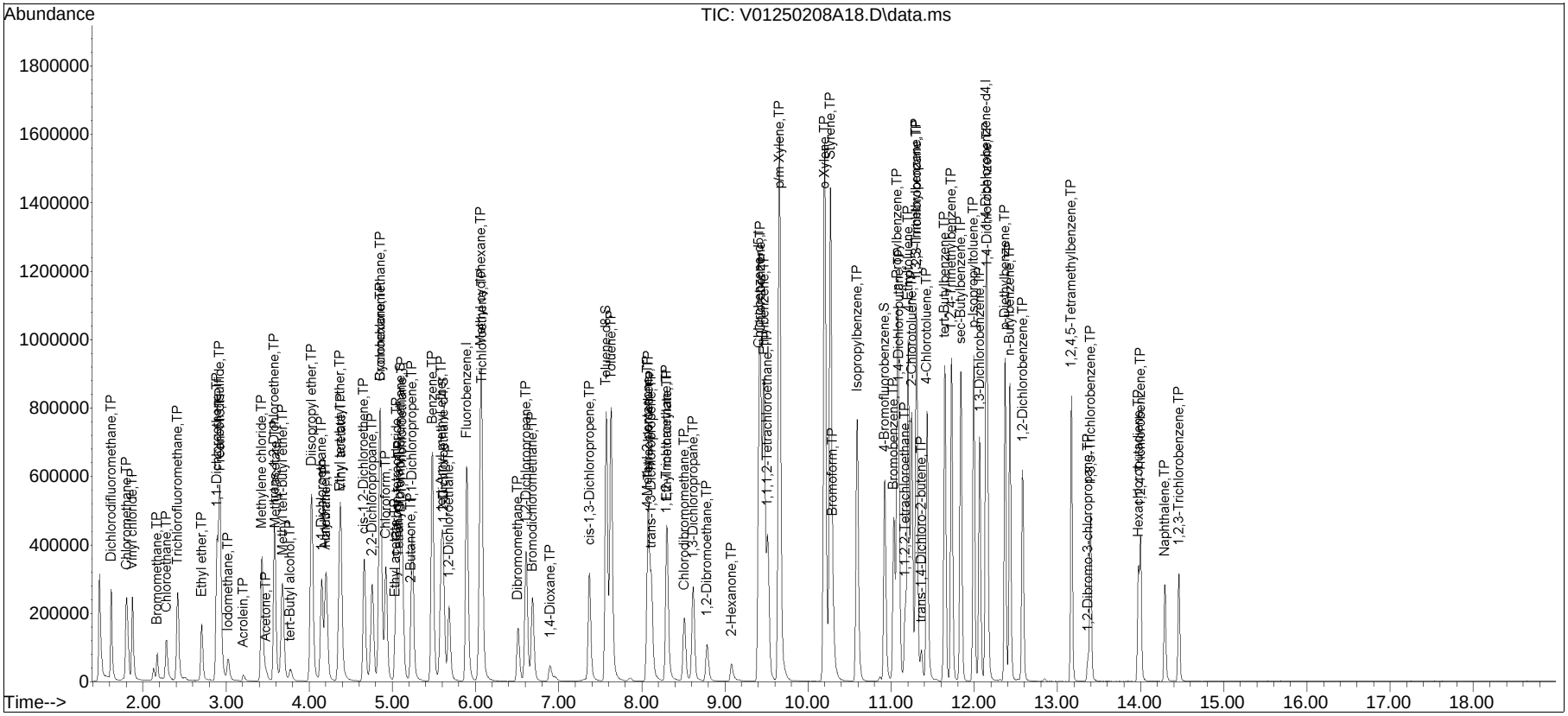
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2025\250208AICAL\
Data File : V01250208A18.D
Acq On : 8 Feb 2025 8:02 am
Operator : VOA101:PID
Sample : C8260STD10PPB
Misc : WG2028963,ICAL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 12 10:30:52 2025
Quant Method : K:\VOA101\2025\250208AICAL\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 12 10:30:07 2025
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE208A09.D•

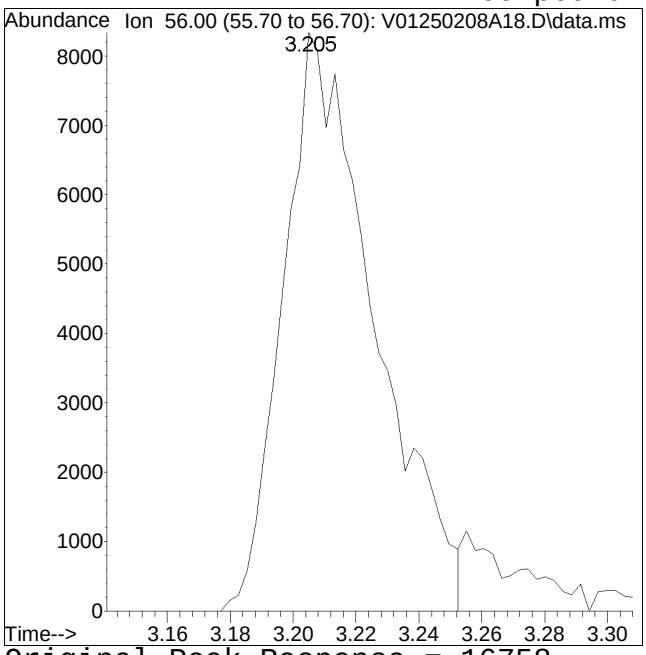


Manual Integration Report

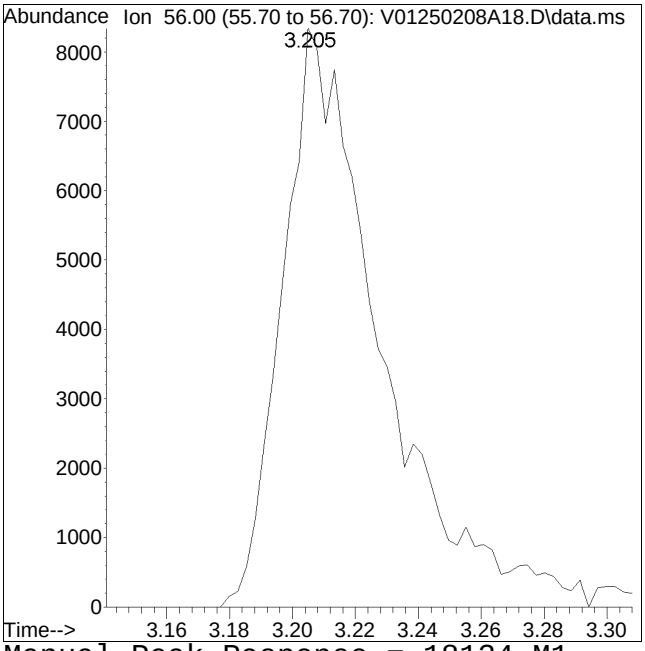
Data Path : K:\VOA101\2025\250208AICALQ
Data File : V01250208A18.D
Date Inj'd : 2/8/2025 8:02 am
Sample : C8260STD10PPB

Method : V101_250208A_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 2/12/2025 10:30 am

Compound #14: Acrolein



Original Peak Response = 16758



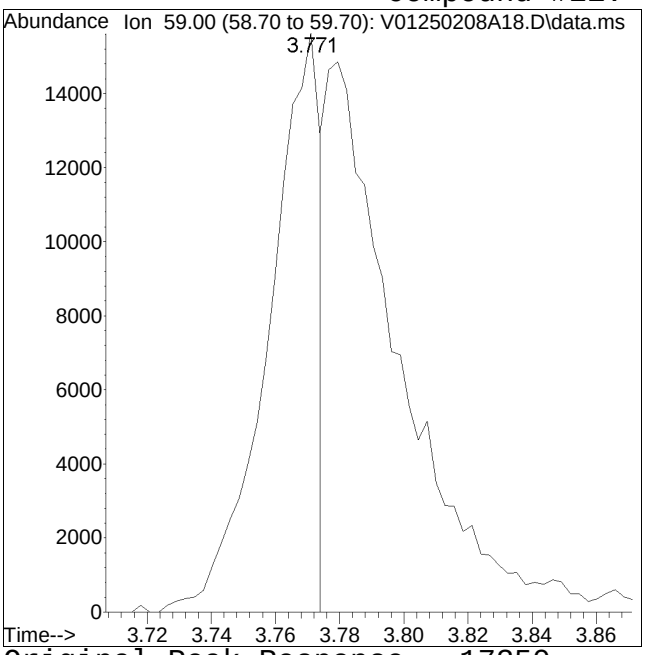
Manual Peak Response = 18134 M1

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

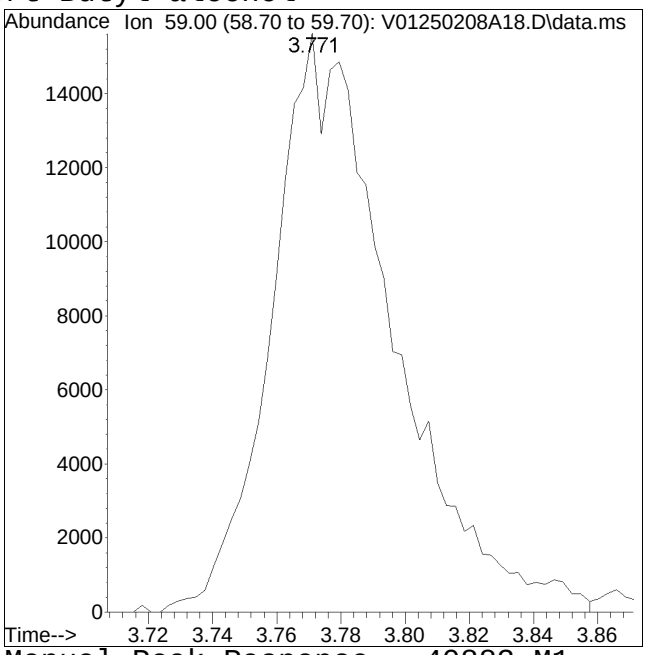
Manual Integration Report

Data Path : K:\VOA101\2025\250208AICALQMethod : V101_250208A_8260.m
Data File : V01250208A18.D Operator : VOA101:PID
Date Inj'd : 2/8/2025 8:02 am Instrument : VOA 101
Sample : C8260STD10PPB Quant Date : 2/12/2025 10:30 am

Compound #21: tert-Butyl alcohol



Original Peak Response = 17350



Manual Peak Response = 40883 M1

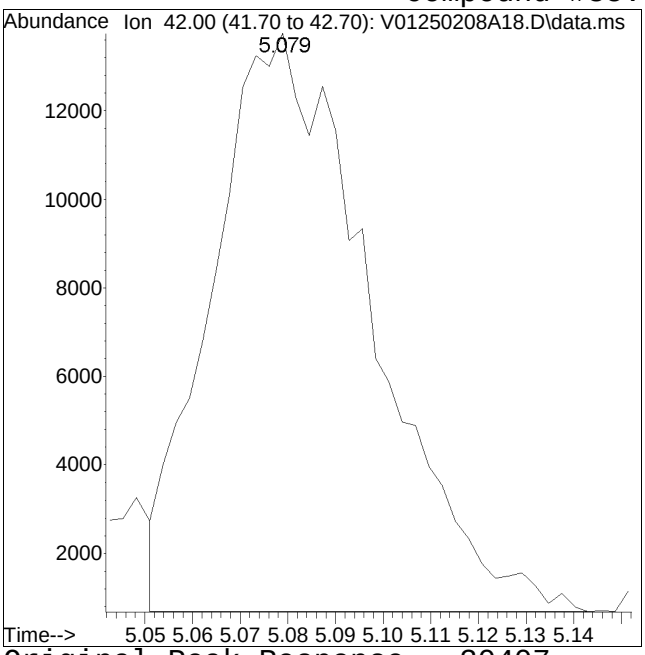
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

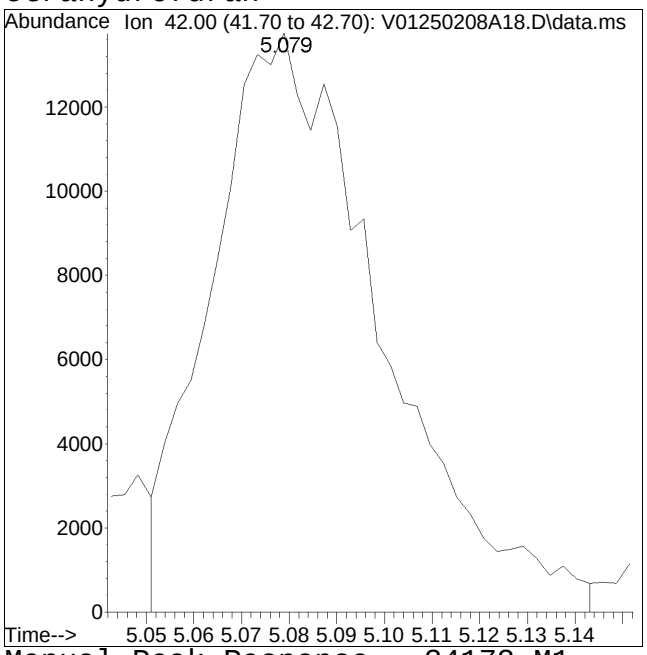
Data Path : K:\VOA101\2025\250208AICALQ
Data File : V01250208A18.D
Date Inj'd : 2/8/2025 8:02 am
Sample : C8260STD10PPB

Method : V101_250208A_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 2/12/2025 10:30 am

Compound #35: Tetrahydrofuran



Original Peak Response = 30407



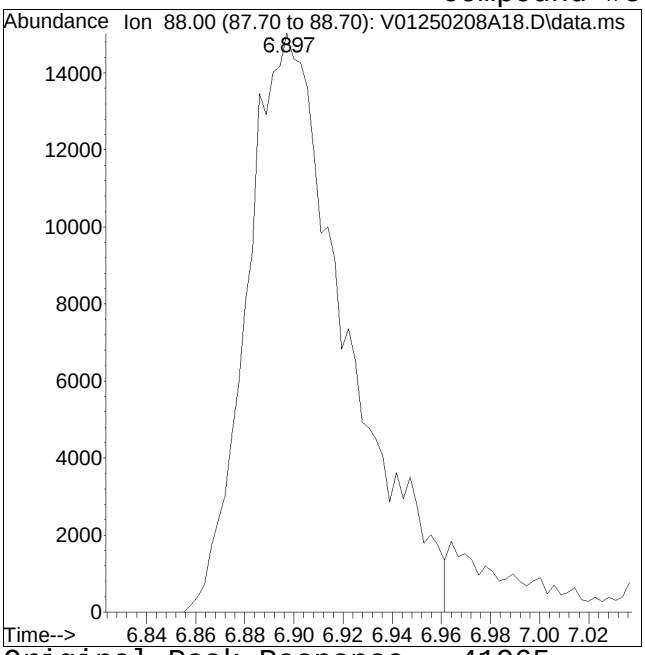
Manual Peak Response = 34172 M1

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

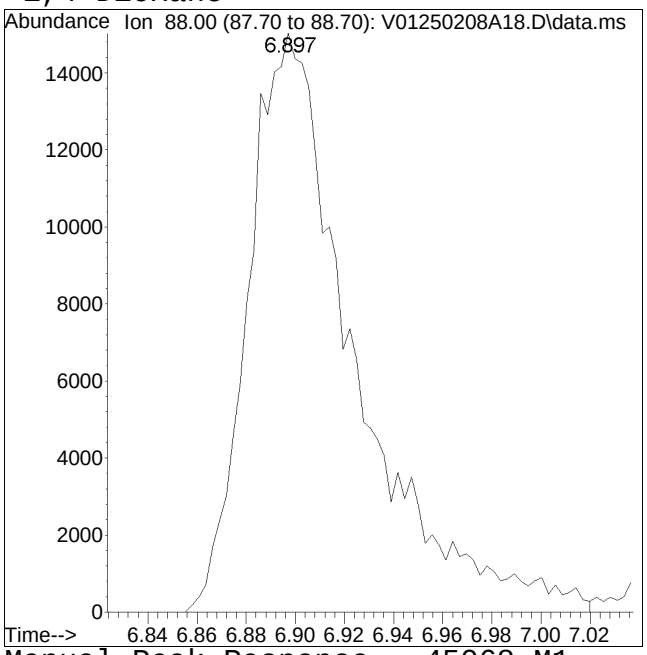
Manual Integration Report

Data Path : K:\VOA101\2025\250208AICALQMethod : V101_250208A_8260.m
Data File : V01250208A18.D Operator : VOA101:PID
Date Inj'd : 2/8/2025 8:02 am Instrument : VOA 101
Sample : C8260STD10PPB Quant Date : 2/12/2025 10:30 am

Compound #57: 1,4-Dioxane



Original Peak Response = 41965



Manual Peak Response = 45068 M1

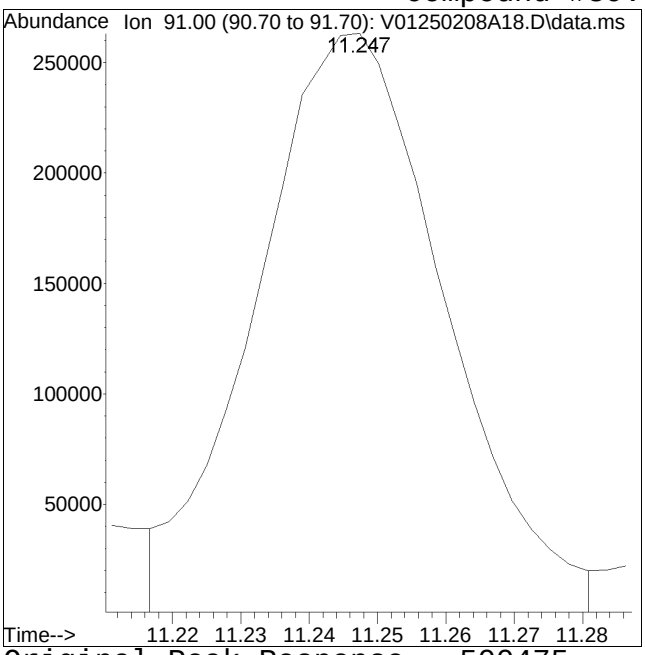
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

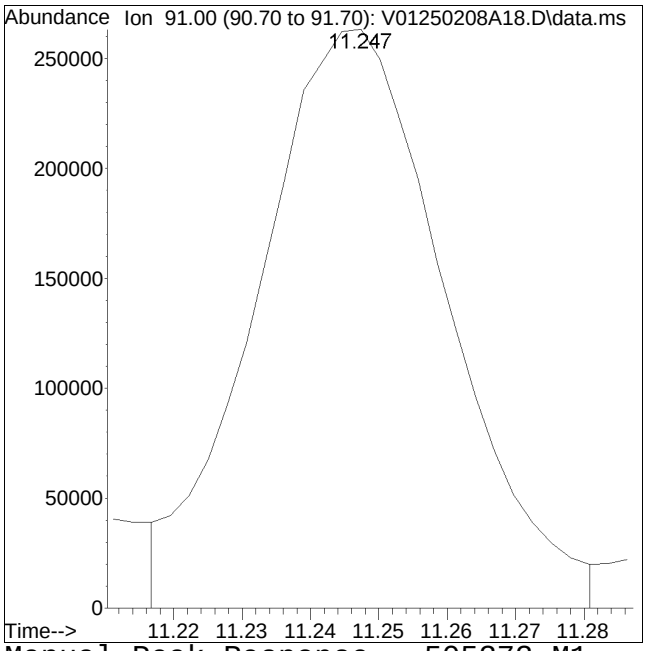
Manual Integration Report

Data Path : K:\VOA101\2025\250208AICALQ
Data File : V01250208A18.D
Date Inj'd : 2/8/2025 8:02 am
Sample : C8260STD10PPB

Method : V101_250208A_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 2/12/2025 10:30 am

Compound #89: 2-Chlorotoluene





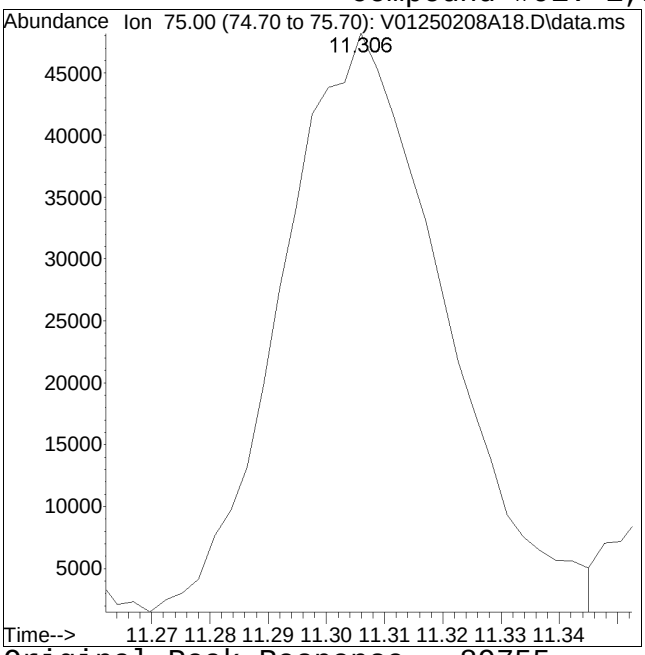
Original Peak Response = 500475 Manual Peak Response = 505373 M1

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

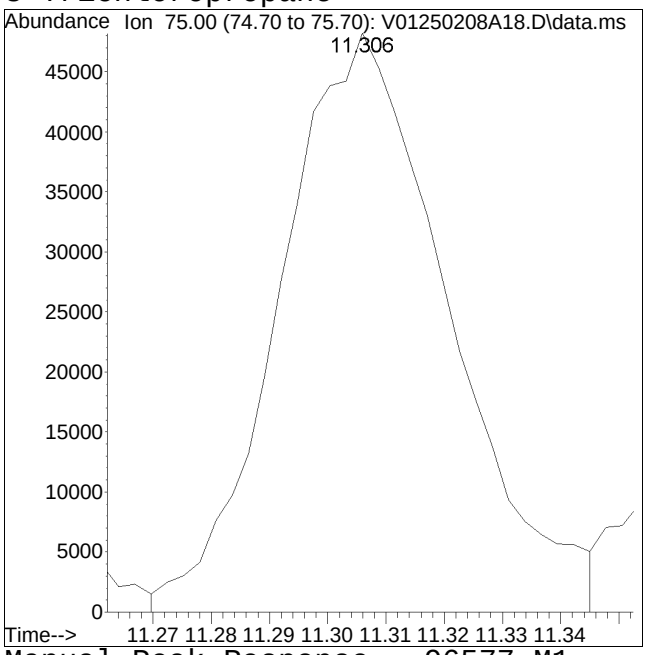
Manual Integration Report

Data Path : K:\VOA101\2025\250208AICALQMethod : V101_250208A_8260.m
Data File : V01250208A18.D Operator : VOA101:PID
Date Inj'd : 2/8/2025 8:02 am Instrument : VOA 101
Sample : C8260STD10PPB Quant Date : 2/12/2025 10:30 am

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 89755



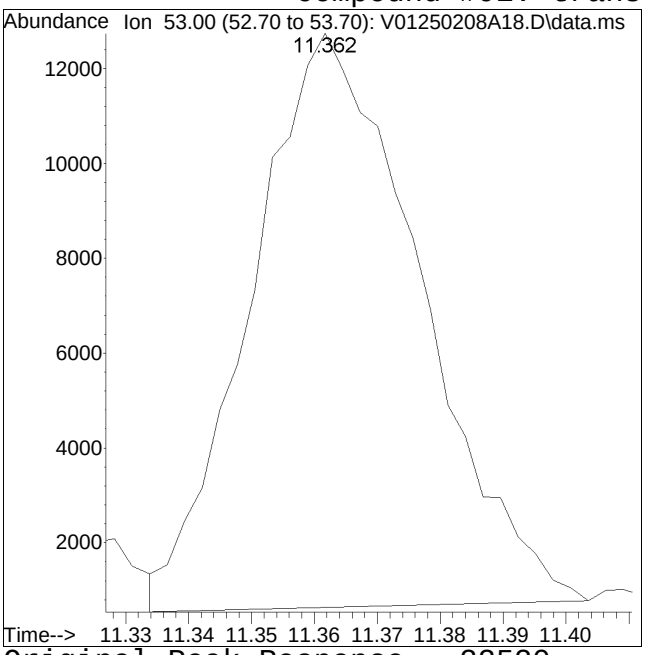
Manual Peak Response = 96577 M1

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

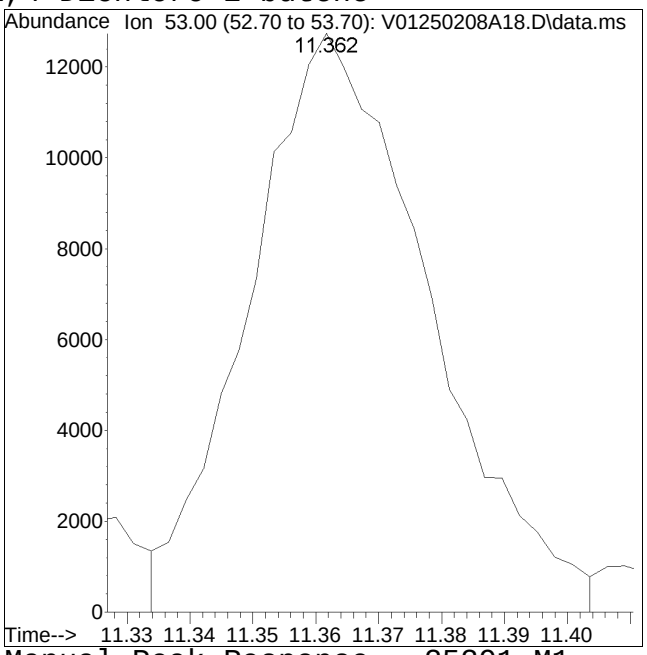
Manual Integration Report

Data Path : K:\VOA101\2025\250208AICALQMethod : V101_250208A_8260.m
Data File : V01250208A18.D Operator : VOA101:PID
Date Inj'd : 2/8/2025 8:02 am Instrument : VOA 101
Sample : C8260STD10PPB Quant Date : 2/12/2025 10:30 am

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



Original Peak Response = 22520



Manual Peak Response = 25291 M1

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

Evaluate Relative Error Report VOA 101

Method Path : K:\VOA101\2025\250208AICAL\
Method File : V101_250208A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed Feb 12 10:30:07 2025

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
5	TP Bromomethane	Q	ug/L	10.0	8.843	-11.6	0.50	0.600	20.0
13	TP Iodomethane	Q	ug/L	10.0	8.238	-17.6	2.00	2.446	22.3
17	TP Acetone	L	ug/L	10.0	9.243	-7.6	0.50	0.551	10.2
58	TP cis-1,3-Dichloropropene	Q	ug/L	10.0	8.916	-10.8	0.19	0.245	28.9
65	TP trans-1,3-Dichloropropene	Q	ug/L	10.0	9.355	-6.4	0.19	0.242	27.4
106	TP 1,2-Dibromo-3-chloropropane	L	ug/L	10.0	8.947	-10.5	0.50	0.625	25.0

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
5	TP Bromomethane	Quadratic	0.999260	0.002570	0.0621267	-0.000958998
13	TP Iodomethane	Quadratic	0.998134	0.004669	0.155195	-0.0193384
17	TP Acetone	Linear	0.995030	0.000000	0.043006	0.00704667
58	TP cis-1,3-Dichloropropene	Quadratic	0.999500	0.000591	0.359926	-0.00491459
65	TP trans-1,3-Dichloropropene	Quadratic	0.999425	0.002736	0.374536	-0.00466702
106	TP 1,2-Dibromo-3-chloropropane	Linear	0.999298	0.000000	0.0602141	-0.00217465

Response Factor Report Elaine

Method Path : K:\Elaine\2025\250220NICAL\
Method File : Elaine_250220N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Mon Feb 24 07:16:52 2025
Response Via : Initial Calibration

Calibration Files
L11 =VE250220N04.D L1 =VE250220N06.D L2 =VE250220N08.D L3 =VE250220N10.D L4 =VE250220N11.D
L6 =VE250220N12.D L8 =VE250220N13.D L10 =VE250220N14.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	----------	----------	ISTD	----------	----------	----------	----------	----------		
2)	TP	Dichlorodifluo...		0.172	0.288	0.300	0.279	0.262	0.254	0.247	0.257	16.40
3)	TP	Chloromethane		0.230	0.249	0.263	0.237	0.222	0.213	0.210	0.232	8.28
4)	TP	Vinyl chloride	0.299	0.242	0.351	0.335	0.313	0.296	0.291	0.283	0.301	11.09
5)	TP	Bromomethane		0.214	0.301	0.289	0.268	0.264	0.262	0.263	0.266	10.33
6)	TP	Chloroethane		0.188	0.260	0.262	0.237	0.228	0.221	0.218	0.231	11.16
7)	TP	Trichlorofluor...		0.418	0.582	0.590	0.540	0.510	0.505	0.490	0.519	11.32
8)	TP	Ethyl ether		0.125	0.163	0.170	0.162	0.157	0.155	0.152	0.155	9.44
10)	TP	1,1-Dichloroet...		0.225	0.309	0.310	0.297	0.281	0.271	0.273	0.281	10.48
11)	TP	Carbon disulfide		0.635	0.883	0.851	0.866	0.802	0.746	0.759	0.792	10.96
12)	TP	Freon-113			0.278	0.284	0.297	0.266	0.243	0.250	0.270	7.73
13)	TP	Iodomethane		0.225	0.284	0.292	0.283	0.278	0.274	0.279	0.273	8.15
14)	TP	Acrolein			0.022	0.022	0.022	0.023	0.023	0.023	0.022	2.96
15)	TP	Methylene chlo...		0.255	0.255	0.249	0.230	0.222	0.218	0.220	0.235	7.00
17)	TP	Acetone			0.049	0.038	0.041	0.039	0.036	0.036	0.040	12.18
18)	TP	trans-1,2-Dich...		0.197	0.243	0.241	0.222	0.216	0.211	0.213	0.220	7.50
19)	TP	Methyl acetate			0.113	0.106	0.097	0.095	0.094	0.094	0.100	8.05
21)	TP	Methyl tert-bu...		0.423	0.489	0.519	0.539	0.559	0.551	0.555	0.519	9.43
22)	TP	tert-Butyl alc...			0.007	0.010	0.010	0.010	0.010	0.009	0.009#	12.17
24)	TP	Diisopropyl ether		0.479	0.558	0.583	0.576	0.599	0.595	0.609	0.571	7.74
25)	TP	1,1-Dichloroet...		0.391	0.456	0.441	0.413	0.391	0.378	0.380	0.407	7.57
26)	TP	Halothane		0.115	0.179	0.182	0.172	0.166	0.162	0.163	0.163	13.84
27)	TP	Acrylonitrile			0.052	0.055	0.051	0.050	0.048	0.050	0.051	5.22
28)	TP	Ethyl tert-but...		0.432	0.519	0.544	0.555	0.596	0.603	0.630	0.554	11.94
29)	TP	Vinyl acetate			0.346	0.382	0.415	0.410	0.444	0.431	0.405	8.81
30)	TP	cis-1,2-Dichlo...		0.235	0.287	0.279	0.259	0.249	0.243	0.244	0.257	7.60
31)	TP	2,2-Dichloropr...		0.295	0.377	0.359	0.352	0.336	0.322	0.321	0.337	8.14
33)	TP	Bromochloromet...		0.108	0.128	0.127	0.117	0.114	0.111	0.115	0.117	6.70
34)	TP	Cyclohexane		0.281	0.387	0.429	0.410	0.388	0.379	0.376	0.378	12.40
35)	TP	Chloroform		0.388	0.455	0.437	0.404	0.386	0.372	0.380	0.403	7.76
36)	TP	Ethyl acetate			0.118	0.131	0.137	0.140	0.136	0.135	0.133	5.81

Response Factor Report Elaine

Method Path : K:\Elaine\2025\250220NICAL\
Method File : Elaine_250220N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Mon Feb 24 07:16:52 2025
Response Via : Initial Calibration

Calibration Files
L11 =VE250220N04.D L1 =VE250220N06.D L2 =VE250220N08.D L3 =VE250220N10.D L4 =VE250220N11.D
L6 =VE250220N12.D L8 =VE250220N13.D L10 =VE250220N14.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
37)	TP	Carbon tetrach...	0.256	0.223	0.316	0.331	0.326	0.314	0.304	0.317	0.298	12.75
38)	TP	Tetrahydrofuran			0.044	0.046	0.042	0.040	0.039	0.041	0.042	6.02
39)	S	Dibromofluorom...	0.301	0.300	0.285	0.282	0.266	0.255	0.247	0.248	0.273	8.04
40)	TP	1,1,1-Trichlor...		0.243	0.358	0.374	0.356	0.335	0.326	0.329	0.332	12.85
42)	TP	2-Butanone			0.052	0.055	0.058	0.059	0.055	0.056	0.056	4.70
43)	TP	1,1-Dichloropr...		0.205	0.271	0.284	0.290	0.283	0.275	0.277	0.269	10.84
45)	TP	Benzene	0.921	0.740	0.889	0.905	0.906	0.908	0.902	0.930	0.888	6.86
46)	TP	tert-Amyl meth...		0.469	0.492	0.518	0.517	0.545	0.551	0.577	0.524	7.02
47)	S	1,2-Dichloroet...	0.304	0.300	0.301	0.299	0.289	0.266	0.275	0.278	0.289	4.98
48)	T	1,2-Dichloroet...	0.265	0.290	0.298	0.299	0.280	0.273	0.268	0.270	0.280	4.86
51)	TP	Methyl cyclohe...		0.255	0.386	0.415	0.411	0.419	0.428	0.445	0.394	16.21
52)	TP	Trichloroethene	0.160	0.159	0.213	0.227	0.233	0.239	0.236	0.256	0.215	16.99
54)	TP	Dibromomethane		0.127	0.143	0.143	0.135	0.133	0.130	0.133	0.135	4.53
55)	TP	1,2-Dichloropr...		0.150	0.207	0.224	0.224	0.223	0.217	0.218	0.209	12.84
57)	TP	2-Chloroethyl ...		0.063	0.067	0.089	0.093	0.100	0.099	0.101	0.087	18.08
58)	TP	Bromodichlorom...		0.253	0.293	0.315	0.318	0.311	0.304	0.309	0.300	7.48
61)	TP	1,4-Dioxane		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001#	11.82
62)	TP	cis-1,3-Dichlo...	0.218	0.241	0.310	0.341	0.367	0.375	0.370	0.378	0.325	19.48
63)	I	Chlorobenzene-d5	----------ISTD----------									
64)	S	Toluene-d8	1.375	1.381	1.352	1.353	1.332	1.298	1.269	1.226	1.323	4.12
65)	TP	Toluene		0.652	0.749	0.792	0.756	0.760	0.753	0.773	0.748	6.00
66)	TP	4-Methyl-2-pen...			0.060	0.063	0.065	0.065	0.065	0.064	0.064	3.59
67)	TP	Tetrachloroethene	0.266	0.232	0.289	0.302	0.300	0.300	0.300	0.312	0.288	9.09
69)	TP	trans-1,3-Dich...	0.286	0.253	0.318	0.362	0.404	0.426	0.420	0.424	0.362	18.89
71)	TP	Ethyl methacry...		0.172	0.229	0.279	0.278	0.275	0.277	0.278	0.255	16.05
72)	TP	1,1,2-Trichlor...		0.146	0.172	0.187	0.194	0.204	0.203	0.208	0.188#	11.86
73)	TP	Chlorodibromom...		0.182	0.210	0.253	0.280	0.300	0.300	0.305	0.261	18.59
74)	TP	1,3-Dichloropr...		0.295	0.369	0.396	0.412	0.422	0.414	0.410	0.388	11.51
75)	TP	1,2-Dibromoethane		0.153	0.194	0.222	0.229	0.237	0.234	0.235	0.215	14.48
77)	TP	2-Hexanone		0.069	0.092	0.109	0.112	0.112	0.108	0.108	0.102	15.65
78)	TP	Chlorobenzene		0.740	0.854	0.883	0.863	0.865	0.864	0.888	0.851	5.92

Method Path : K:\Elaine\2025\250220NICAL\
Method File : Elaine_250220N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Mon Feb 24 07:16:52 2025
Response Via : Initial Calibration

Calibration Files
L11 =VE250220N04.D L1 =VE250220N06.D L2 =VE250220N08.D L3 =VE250220N10.D L4 =VE250220N11.D
L6 =VE250220N12.D L8 =VE250220N13.D L10 =VE250220N14.D

	Compound		L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
79)	TP	Ethylbenzene		1.195	1.460	1.547	1.565	1.559	1.555	1.600	1.497	9.34
80)	TP	1,1,1,2-Tetrac...		0.197	0.239	0.258	0.273	0.291	0.293	0.306	0.265	14.22
81)	TP	p/m Xylene		0.452	0.574	0.596	0.616	0.639	0.665	0.745	0.613	14.67
82)	TP	o Xylene		0.436	0.562	0.586	0.607	0.651	0.678	0.748	0.610	16.18
83)	TP	Styrene		0.729	0.897	0.974	1.044	1.142	1.182	1.302	1.039	18.45
84)	I	1,4-Dichlorobenzene-d4	----------ISTD----------									
85)	TP	Bromoform		0.163	0.206	0.263	0.286	0.314	0.325	0.339	*Q	0.9996
87)	TP	Isopropylbenzene		2.052	2.741	2.957	2.936	2.875	2.892	2.855	2.758	11.57
88)	S	4-Bromofluorob...	0.835	0.818	0.826	0.855	0.819	0.768	0.761	0.719	0.800	5.71
89)	TP	Bromobenzene		0.524	0.632	0.665	0.635	0.615	0.622	0.615	0.615	7.11
90)	TP	n-Propylbenzene		2.524	3.335	3.548	3.498	3.438	3.489	3.441	3.325	10.80
91)	TP	1,4-Dichlorobu...		0.572	0.622	0.675	0.627	0.598	0.589	0.570	0.607	6.15
92)	TP	1,1,2,2-Tetrac...	0.359	0.484	0.484	0.522	0.500	0.472	0.476	0.452	0.469	10.39
93)	TP	4-Ethyltoluene		2.109	2.792	2.980	2.903	2.808	2.841	2.806	2.748	10.55
94)	TP	2-Chlorotoluene		1.567	1.903	2.008	2.031	1.890	1.933	1.875	1.887	8.10
95)	TP	1,3,5-Trimethy...		1.881	2.415	2.558	2.557	2.524	2.582	2.630	2.450	10.59
96)	TP	1,2,3-Trichlor...		0.348	0.390	0.433	0.400	0.398	0.401	0.404	0.396	6.40
97)	TP	trans-1,4-Dich...			0.126	0.140	0.142	0.138	0.137	0.128	0.135	4.89
98)	TP	4-Chlorotoluene		1.671	1.982	2.073	2.015	1.963	2.002	1.999	1.958	6.70
99)	TP	tert-Butylbenzene		1.533	2.026	2.148	2.139	2.119	2.157	2.170	2.042	11.23
102)	TP	1,2,4-Trimethy...		1.742	2.286	2.503	2.536	2.563	2.573	2.583	2.398	12.80
103)	TP	sec-Butylbenzene		2.345	2.992	3.259	3.285	3.242	3.278	3.267	3.096	11.20
104)	TP	p-Isopropyltol...		1.987	2.599	2.810	2.853	2.870	2.891	2.989	2.714	12.59
105)	TP	1,3-Dichlorobe...		1.237	1.314	1.364	1.351	1.352	1.362	1.392	1.339	3.77
106)	TP	1,4-Dichlorobe...		1.171	1.306	1.382	1.355	1.344	1.355	1.413	1.332	5.89
107)	TP	p-Diethylbenzene		1.053	1.474	1.675	1.716	1.727	1.765	1.850	1.609	16.82
108)	TP	n-Butylbenzene		1.566	2.261	2.433	2.538	2.507	2.475	2.517	2.328	14.98
109)	TP	1,2-Dichlorobe...		1.178	1.233	1.301	1.262	1.258	1.261	1.312	1.258	3.54
110)	TP	1,2,4,5-Tetram...		1.774	2.281	2.530	2.598	2.731	2.926	2.926	2.538	16.02
111)	TP	1,2-Dibromo-3-...		0.029	0.052	0.074	0.076	0.075	0.077	0.074	*L	0.9994
112)	TP	1,3,5-Trichlor...		0.759	0.886	0.924	0.943	0.933	0.993	1.009	0.921	8.97

Method Path : K:\Elaine\2025\250220NICAL\
Method File : Elaine_250220N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Mon Feb 24 07:16:52 2025
Response Via : Initial Calibration

Calibration Files
L11 =VE250220N04.D L1 =VE250220N06.D L2 =VE250220N08.D L3 =VE250220N10.D L4 =VE250220N11.D
L6 =VE250220N12.D L8 =VE250220N13.D L10 =VE250220N14.D

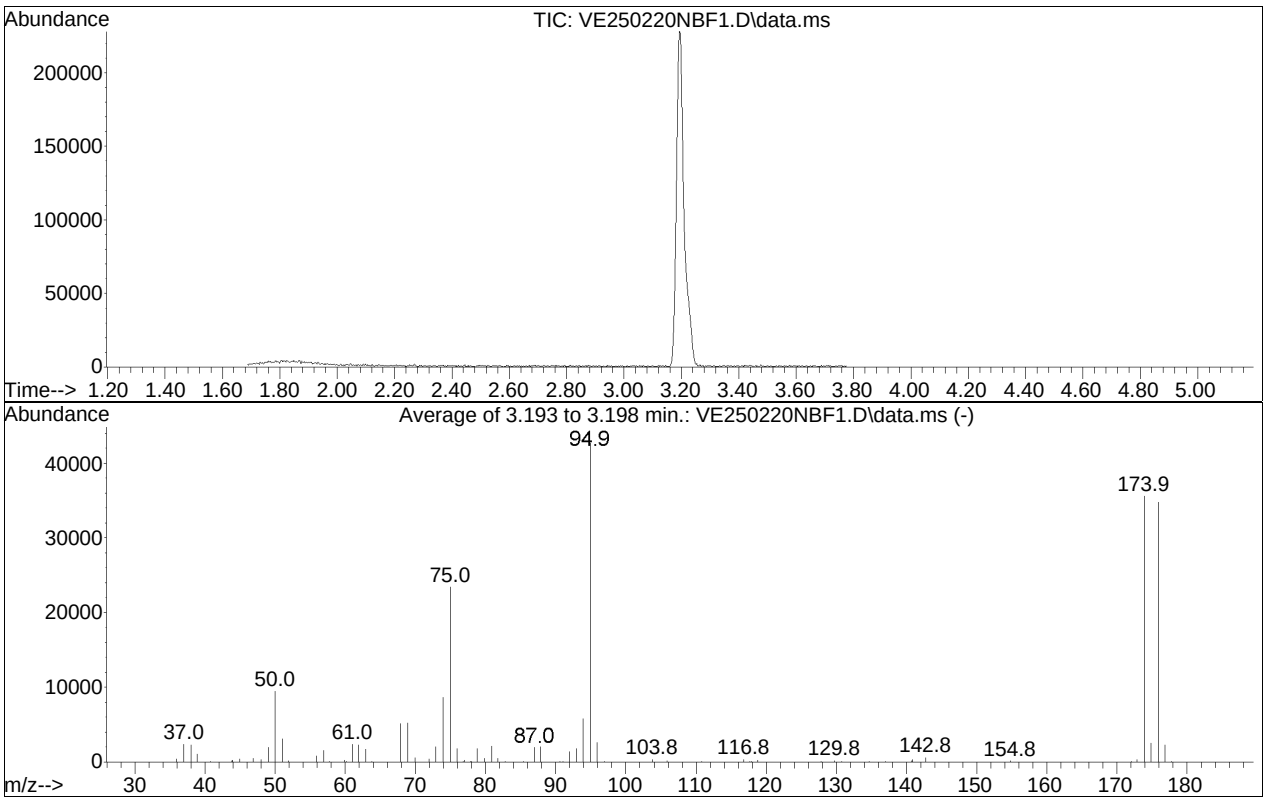
	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
113)	TP Hexachlorobuta...	0.155	0.255	0.265	0.265	0.246	0.256	0.255	0.243	16.11	
114)	TP 1,2,4-Trichlor...	0.702	0.743	0.820	0.813	0.799	0.827	0.847	0.793	6.52	
115)	TP Naphthalene	1.702	1.794	1.965	1.941	1.957	1.955	1.895	1.887	5.37	
116)	TP 1,2,3-Trichlor...	0.670	0.706	0.743	0.735	0.738	0.747	0.754	0.727	4.08	

(#) = Out of Range

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220NBF1.D
Acq On : 20 Feb 2025 10:12 pm
Operator : ELAINE:TMS
Sample : WG2033412-1
Misc : WG2033412
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Mon Feb 24 07:16:52 2025



AutoFind: Scans 541, 542, 543; Background Corrected with Scan 527

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.2	9503	PASS
75	95	30	60	54.9	23467	PASS
95	95	100	100	100.0	42763	PASS
96	95	5	9	6.1	2624	PASS
173	174	0.00	2	1.0	347	PASS
174	95	50	100	83.3	35635	PASS
175	174	5	9	7.1	2533	PASS
176	174	95	101	97.6	34776	PASS
177	176	5	9	6.6	2305	PASS

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N04.D
Acq On : 20 Feb 2025 11:45 pm
Operator : ELAINE:PID
Sample : I8260STD0.19PPB
Misc : WG2033412,ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 24 07:12:09 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-L11_NJnew - L11 new NJ

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.772	96	186191	10.000 ug/L	0.00
Standard Area 1 = 193689			Recovery = 96.13%		
63) Chlorobenzene-d5	9.285	117	147338	10.000 ug/L	0.00
Standard Area 1 = 149882			Recovery = 98.30%		
84) 1,4-Dichlorobenzene-d4	12.035	152	80343	10.000 ug/L	0.00
Standard Area 1 = 78717			Recovery = 102.07%		
System Monitoring Compounds					
39) Dibromofluoromethane	4.977	113	55953	11.011 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.11%		
47) 1,2-Dichloroethane-d4	5.490	65	56550	10.513 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.13%		
64) Toluene-d8	7.450	98	202569	10.391 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.91%		
88) 4-Bromofluorobenzene	10.800	95	67085	10.433 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.33%		
Target Compounds					Qvalue
4) Vinyl chloride	1.764	62	1057	0.188 ug/L	78
37) Carbon tetrachloride	4.932	117	906	0.163 ug/L #	59
45) Benzene	5.365	78	3259M6	0.197 ug/L	
48) 1,2-Dichloroethane	5.574	62	937M3	0.180 ug/L	
52) Trichloroethene	5.945	95	567M6	0.141 ug/L	
62) cis-1,3-Dichloropropene	7.241	75	772M3	0.128 ug/L	
67) Tetrachloroethene	7.950	166	746M4	0.176 ug/L	
69) trans-1,3-Dichloropropene	7.989	75	800M6	0.150 ug/L	
92) 1,1,2,2-Tetrachloroethane	11.059	83	548	0.146 ug/L #	82

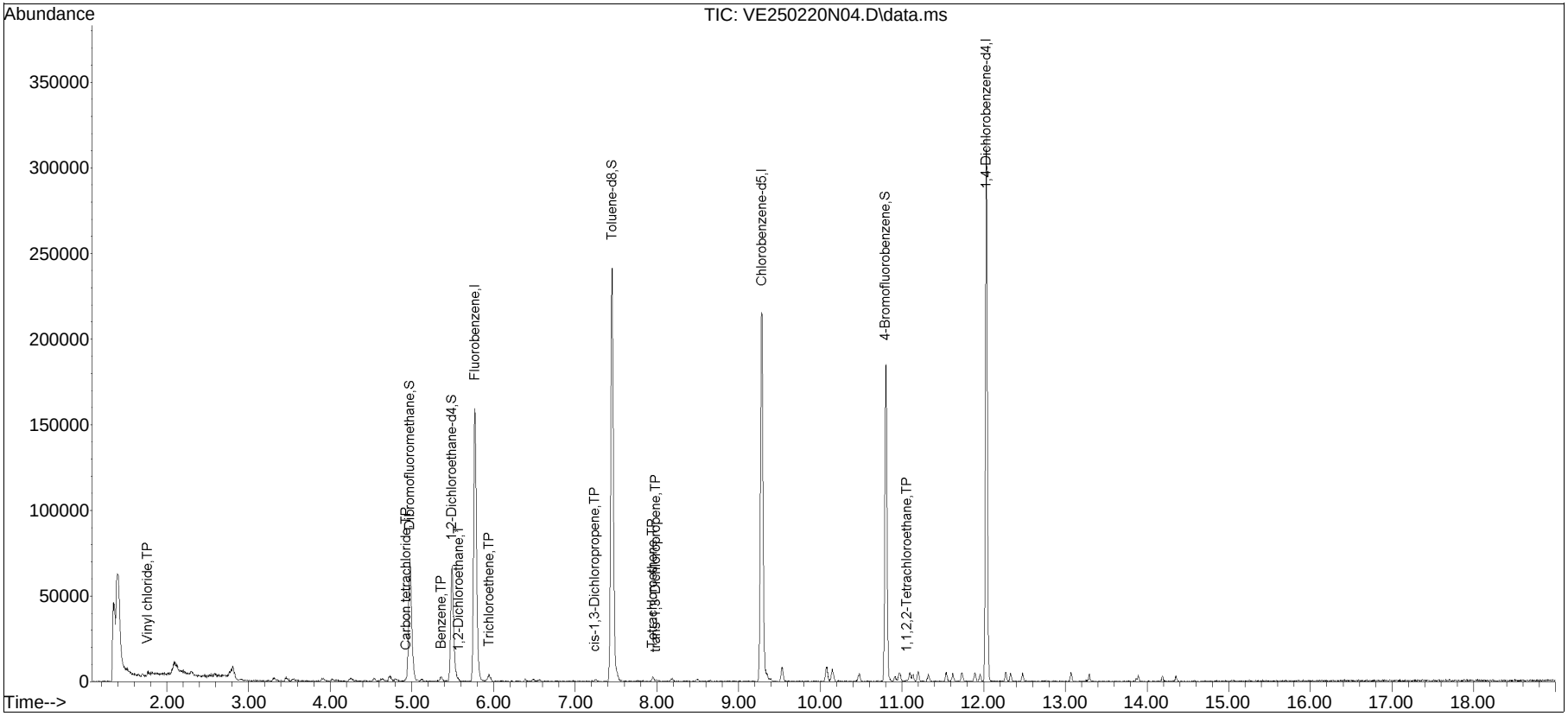
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N04.D
Acq On : 20 Feb 2025 11:45 pm
Operator : ELAINE:PID
Sample : I8260STD0.19PPB
Misc : WG2033412,ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 24 07:12:09 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

Sub List : 8260-L11_NJnew - L11 new NJCAL\VE250220N10.D•

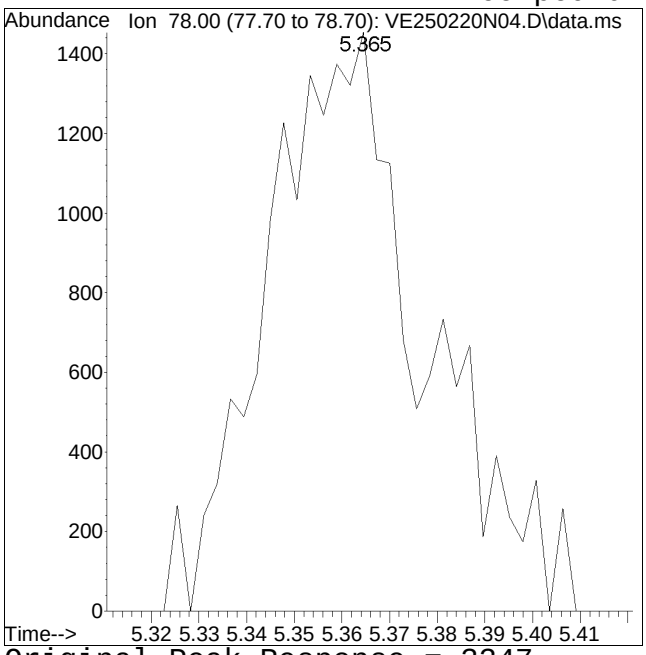


Manual Integration Report

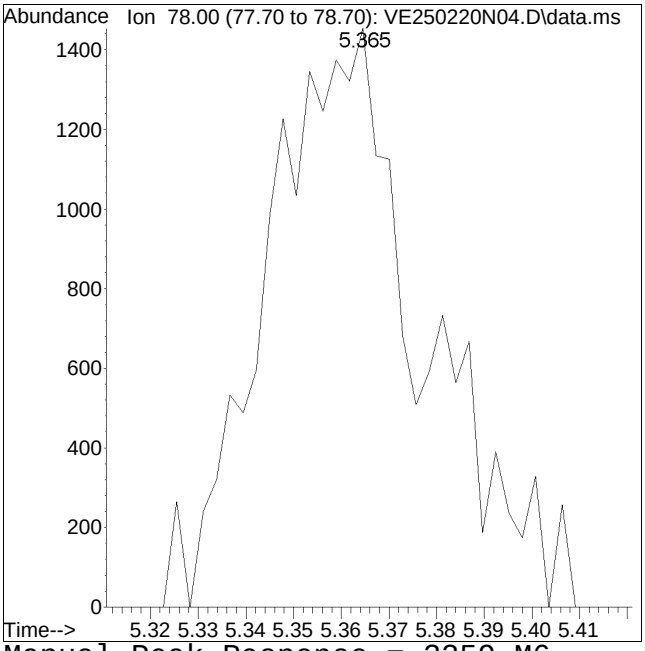
Data Path : K:\Elaine\2025\250220NICALQ
Data File : VE250220N04.D
Date Inj'd : 2/20/2025 11:45 pm
Sample : I8260STD0.19PPB

Method : Elaine_250220N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 2/24/2025 7:12 am

Compound #45: Benzene



Original Peak Response = 3347



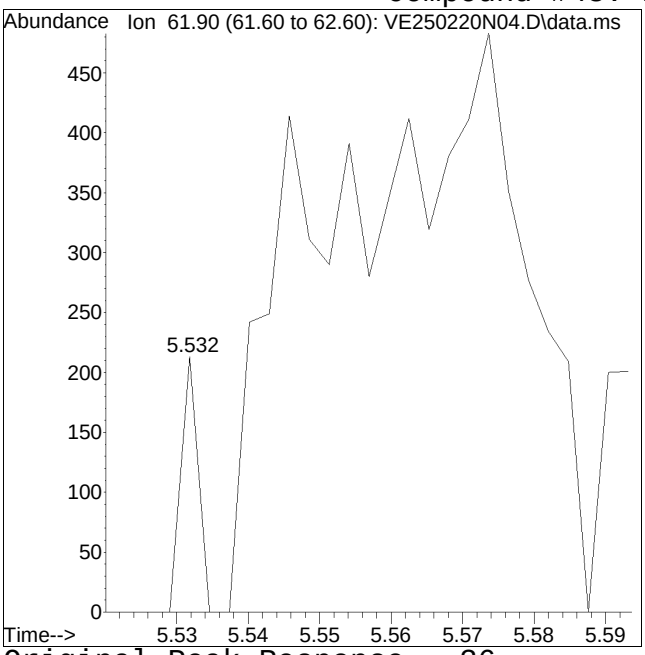
Manual Peak Response = 3259 M6

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

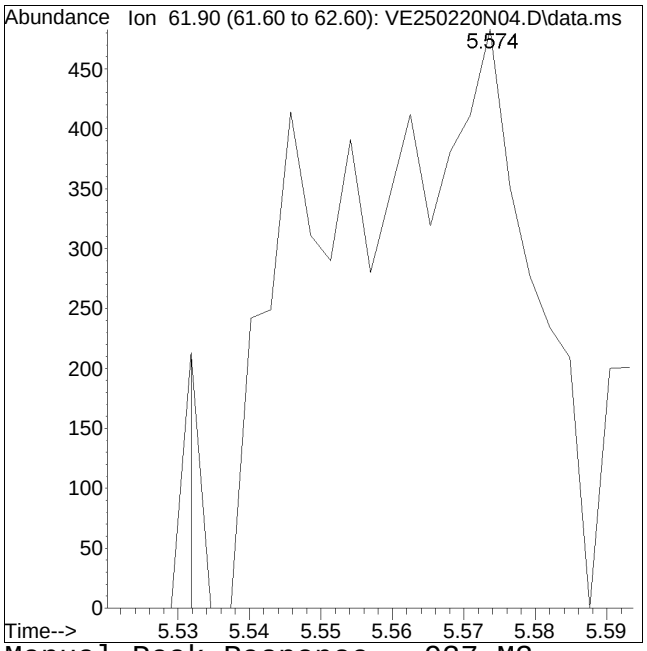
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N04.D Operator : ELAINE:PID
Date Inj'd : 2/20/2025 11:45 pm Instrument : Elaine
Sample : I8260STD0.19PPB Quant Date : 2/24/2025 7:12 am

Compound #48: 1,2-Dichloroethane



Original Peak Response = 36



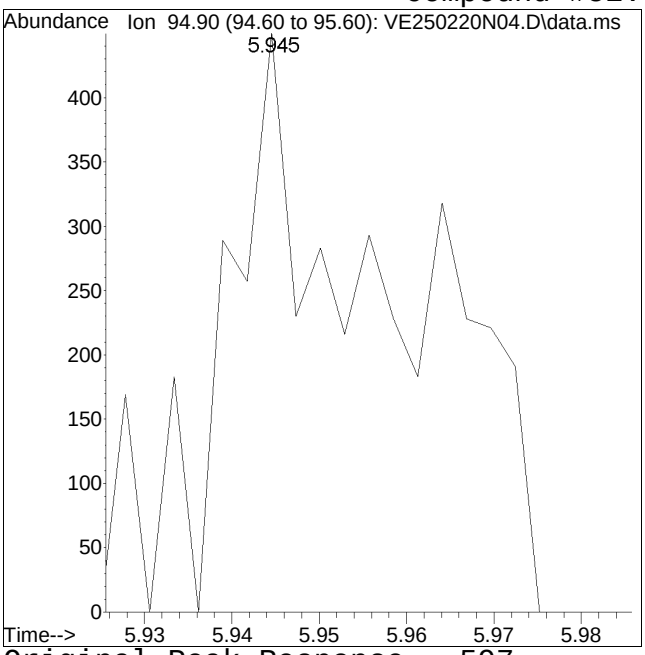
Manual Peak Response = 937 M3

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

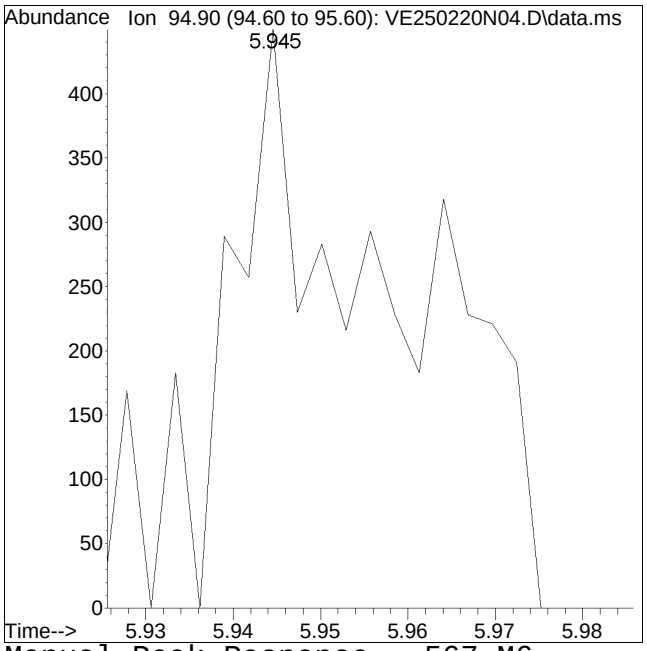
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N04.D Operator : ELAINE:PID
Date Inj'd : 2/20/2025 11:45 pm Instrument : Elaine
Sample : I8260STD0.19PPB Quant Date : 2/24/2025 7:12 am

Compound #52: Trichloroethene



Original Peak Response = 597



Manual Peak Response = 567 M6

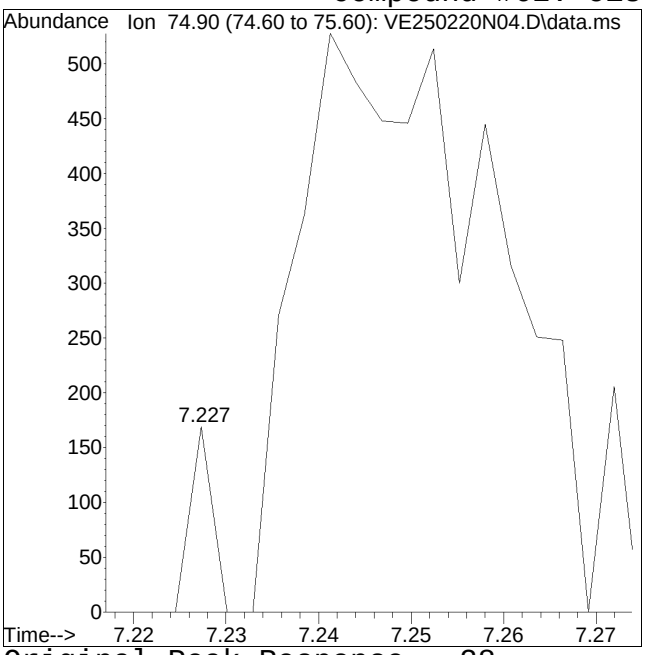
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

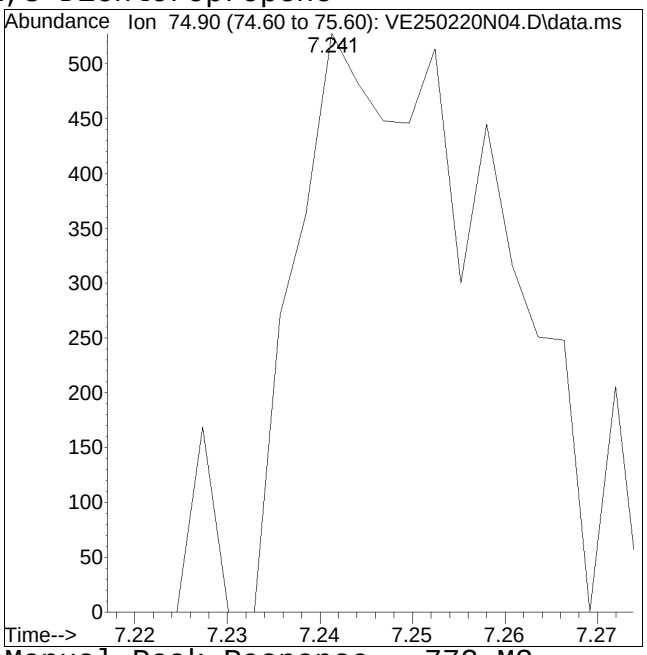
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQ
Data File : VE250220N04.D
Date Inj'd : 2/20/2025 11:45 pm
Sample : I8260STD0.19PPB

Method : Elaine_250220N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 2/24/2025 7:12 am

Compound #62: cis-1,3-Dichloropropene





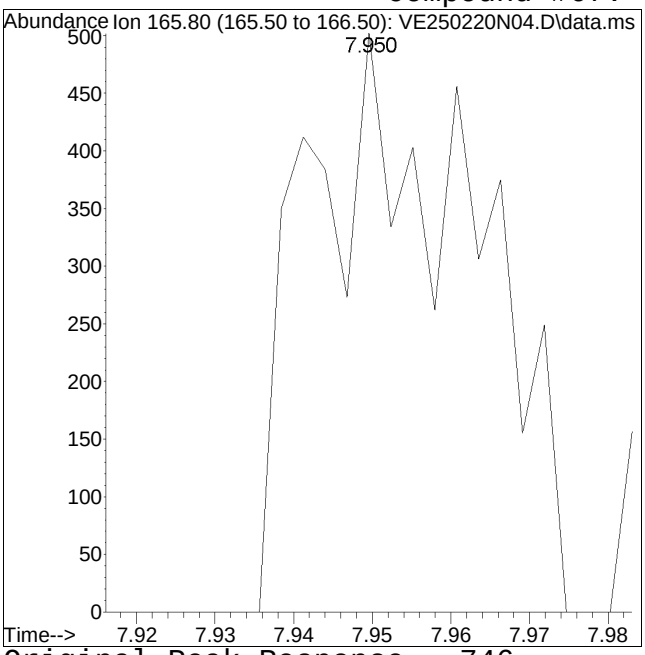
Original Peak Response = 28 Manual Peak Response = 772 M3

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

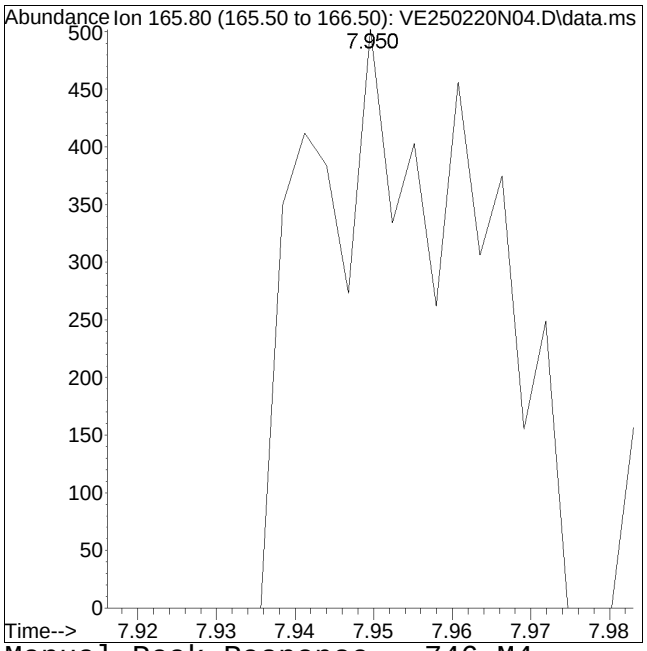
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N04.D Operator : ELAINE:PID
Date Inj'd : 2/20/2025 11:45 pm Instrument : Elaine
Sample : I8260STD0.19PPB Quant Date : 2/24/2025 7:12 am

Compound #67: Tetrachloroethene



Original Peak Response = 746



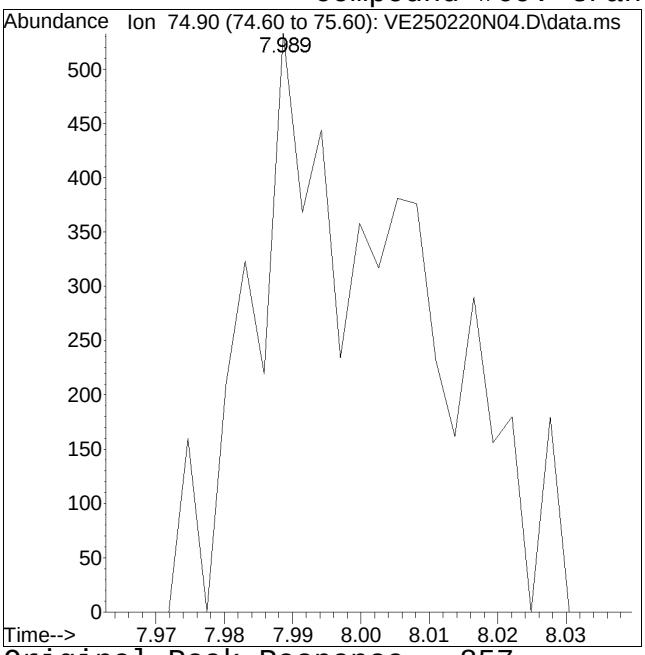
Manual Peak Response = 746 M4

M4 = Poor automated baseline construction.

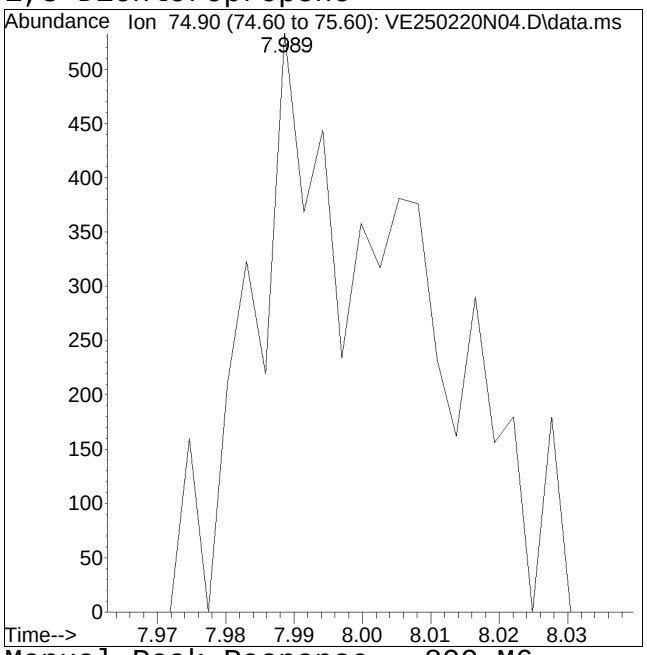
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N04.D Operator : ELAINE:PID
Date Inj'd : 2/20/2025 11:45 pm Instrument : Elaine
Sample : I8260STD0.19PPB Quant Date : 2/24/2025 7:12 am

Compound #69: trans-1,3-Dichloropropene



Original Peak Response = 857



Manual Peak Response = 800 M6

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

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N06.D
Acq On : 21 Feb 2025 12:33 am
Operator : ELAINE:PID
Sample : I8260STD0.5PPB
Misc : WG2033412,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 24 07:12:18 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.772	96	186026	10.000 ug/L	0.00
Standard Area 1 = 193689			Recovery = 96.04%		
63) Chlorobenzene-d5	9.286	117	147295	10.000 ug/L	0.00
Standard Area 1 = 149882			Recovery = 98.27%		
84) 1,4-Dichlorobenzene-d4	12.032	152	79184	10.000 ug/L	0.00
Standard Area 1 = 78717			Recovery = 100.59%		
System Monitoring Compounds					
39) Dibromofluoromethane	4.977	113	55801	10.991 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.91%		
47) 1,2-Dichloroethane-d4	5.490	65	55883	10.398 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.98%		
64) Toluene-d8	7.453	98	203378	10.436 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.36%		
88) 4-Bromofluorobenzene	10.803	95	64801	10.226 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.26%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.522	85	1596	0.333 ug/L	95
3) Chloromethane	1.698	50	2139	0.496 ug/L	92
4) Vinyl chloride	1.773	62	2248	0.401 ug/L	92
5) Bromomethane	2.063	94	1987	0.402 ug/L	84
6) Chloroethane	2.180	64	1749M6	0.408 ug/L	
7) Trichlorofluoromethane	2.314	101	3888	0.402 ug/L	89
8) Ethyl ether	2.590	74	1159	0.403 ug/L #	66
10) 1,1-Dichloroethene	2.777	96	2094	0.401 ug/L	95
11) Carbon disulfide	2.796	76	5905	0.401 ug/L	93
12) Freon-113	2.807	101	1260	0.270 ug/L	99
13) Iodomethane	2.911	142	2090	0.411 ug/L	83
14) Acrolein	0.000		0	N.D. d	
15) Methylene chloride	3.315	84	2368	0.541 ug/L	96
17) Acetone	0.000		0	N.D. d	
18) trans-1,2-Dichloroethene	3.460	96	1828	0.446 ug/L	93
19) Methyl acetate	0.000		0	N.D. d	
21) Methyl tert-butyl ether	3.552	73	3939	0.408 ug/L #	95
22) tert-Butyl alcohol	0.000		0	N.D. d	
24) Diisopropyl ether	3.912	45	4451	0.419 ug/L	93
25) 1,1-Dichloroethane	4.026	63	3634	0.480 ug/L #	53
26) Halothane	4.090	117	1068	0.353 ug/L #	56

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N06.D
Acq On : 21 Feb 2025 12:33 am
Operator : ELAINE:PID
Sample : I8260STD0.5PPB
Misc : WG2033412,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 24 07:12:18 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	0.000		0	N.D.	d		
28) Ethyl tert-butyl ether	4.252	59	4015	0.390	ug/L		96
29) Vinyl acetate	0.000		0	N.D.	d		
30) cis-1,2-Dichloroethene	4.550	96	2186	0.458	ug/L		89
31) 2,2-Dichloropropane	4.642	77	2745M6	0.437	ug/L		
33) Bromochloromethane	4.729	128	1007M1	0.462	ug/L		
34) Cyclohexane	4.734	56	2612	0.371	ug/L		91
35) Chloroform	4.810	83	3609	0.481	ug/L	#	94
36) Ethyl acetate	0.000		0	N.D.	d		
37) Carbon tetrachloride	4.924	117	2078	0.374	ug/L	#	59
38) Tetrahydrofuran	0.000		0	N.D.	d		
40) 1,1,1-Trichloroethane	4.997	97	2264M6	0.367	ug/L		
42) 2-Butanone	0.000		0	N.D.	d		
43) 1,1-Dichloropropene	5.128	75	1905	0.380	ug/L	#	49
45) Benzene	5.354	78	6883	0.417	ug/L	#	64
46) tert-Amyl methyl ether	5.471	73	4359	0.447	ug/L	#	67
48) 1,2-Dichloroethane	5.563	62	2700	0.518	ug/L	#	51
51) Methyl cyclohexane	5.945	83	2373	0.324	ug/L		98
52) Trichloroethene	5.956	95	1475	0.368	ug/L		97
54) Dibromomethane	6.385	93	1185	0.473	ug/L		93
55) 1,2-Dichloropropane	6.497	63	1391	0.358	ug/L	#	40
57) 2-Chloroethyl vinyl ether	7.180	63	588	0.362	ug/L	#	77
58) Bromodichloromethane	6.564	83	2351	0.421	ug/L	#	93
61) 1,4-Dioxane	6.773	88	1716M6	85.728	ug/L		
62) cis-1,3-Dichloropropene	7.244	75	2239M6	0.370	ug/L		
65) Toluene	7.509	92	4800	0.436	ug/L		95
66) 4-Methyl-2-pentanone	0.000		0	N.D.	d		
67) Tetrachloroethene	7.958	166	1709	0.403	ug/L		93
69) trans-1,3-Dichloropropene	8.000	75	1866	0.350	ug/L		84
71) Ethyl methacrylate	8.178	69	1268M6	0.337	ug/L		
72) 1,1,2-Trichloroethane	8.173	83	1072	0.388	ug/L		92
73) Chlorodibromomethane	8.388	129	1343	0.349	ug/L		91
74) 1,3-Dichloropropane	8.505	76	2172	0.380	ug/L		90
75) 1,2-Dibromoethane	8.652	107	1126	0.356	ug/L		85
77) 2-Hexanone	8.959	43	510M4	0.341	ug/L		
78) Chlorobenzene	9.302	112	5449	0.435	ug/L	#	76
79) Ethylbenzene	9.344	91	8801	0.399	ug/L		99
80) 1,1,1,2-Tetrachloroethane	9.391	131	1450	0.371	ug/L	#	62
81) p/m Xylene	9.539	106	6660	0.738	ug/L		99
82) o Xylene	10.075	106	6429	0.716	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N06.D
Acq On : 21 Feb 2025 12:33 am
Operator : ELAINE:PID
Sample : I8260STD0.5PPB
Misc : WG2033412,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 24 07:12:18 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
83)	Styrene	10.144	104	10744	0.702	ug/L		100
85)	Bromoform	10.181	173	647M6	0.302	ug/L		
87)	Isopropylbenzene	10.476	105	8126	0.372	ug/L		98
89)	Bromobenzene	10.911	156	2074	0.426	ug/L		90
90)	n-Propylbenzene	10.967	91	9994	0.380	ug/L		100
91)	1,4-Dichlorobutane	10.975	55	2263	0.471	ug/L		97
92)	1,1,2,2-Tetrachloroethane	11.056	83	1915	0.516	ug/L	#	91
93)	4-Ethyltoluene	11.098	105	8349	0.384	ug/L		99
94)	2-Chlorotoluene	11.132	91	6205M6	0.415	ug/L		
95)	1,3,5-Trimethylbenzene	11.198	105	7446	0.384	ug/L		94
96)	1,2,3-Trichloropropane	11.193	75	1377	0.439	ug/L		91
97)	trans-1,4-Dichloro-2-b...	0.000		0	N.D.	d		
98)	4-Chlorotoluene	11.324	91	6616	0.427	ug/L		99
99)	tert-Butylbenzene	11.533	119	6070	0.375	ug/L		98
102)	1,2,4-Trimethylbenzene	11.620	105	6896	0.363	ug/L		99
103)	sec-Butylbenzene	11.734	105	9285	0.379	ug/L		95
104)	p-Isopropyltoluene	11.890	119	7868	0.366	ug/L		100
105)	1,3-Dichlorobenzene	11.951	146	4898	0.462	ug/L		94
106)	1,4-Dichlorobenzene	12.052	146	4636M3	0.439	ug/L		
107)	p-Diethylbenzene	12.269	119	4171	0.327	ug/L		97
108)	n-Butylbenzene	12.328	91	6201	0.336	ug/L		99
109)	1,2-Dichlorobenzene	12.476	146	4662	0.468	ug/L		90
110)	1,2,4,5-Tetramethylben...	13.064	119	7024	0.350	ug/L		98
111)	1,2-Dibromo-3-chloropr...	13.259	155	114	0.221	ug/L		86
112)	1,3,5-Trichlorobenzene	13.293	180	3006	0.412	ug/L		97
113)	Hexachlorobutadiene	13.870	225	615	0.320	ug/L	#	85
114)	1,2,4-Trichlorobenzene	13.895	180	2779	0.442	ug/L		97
115)	Naphthalene	14.185	128	6738	0.451	ug/L		100
116)	1,2,3-Trichlorobenzene	14.355	180	2651	0.460	ug/L		96

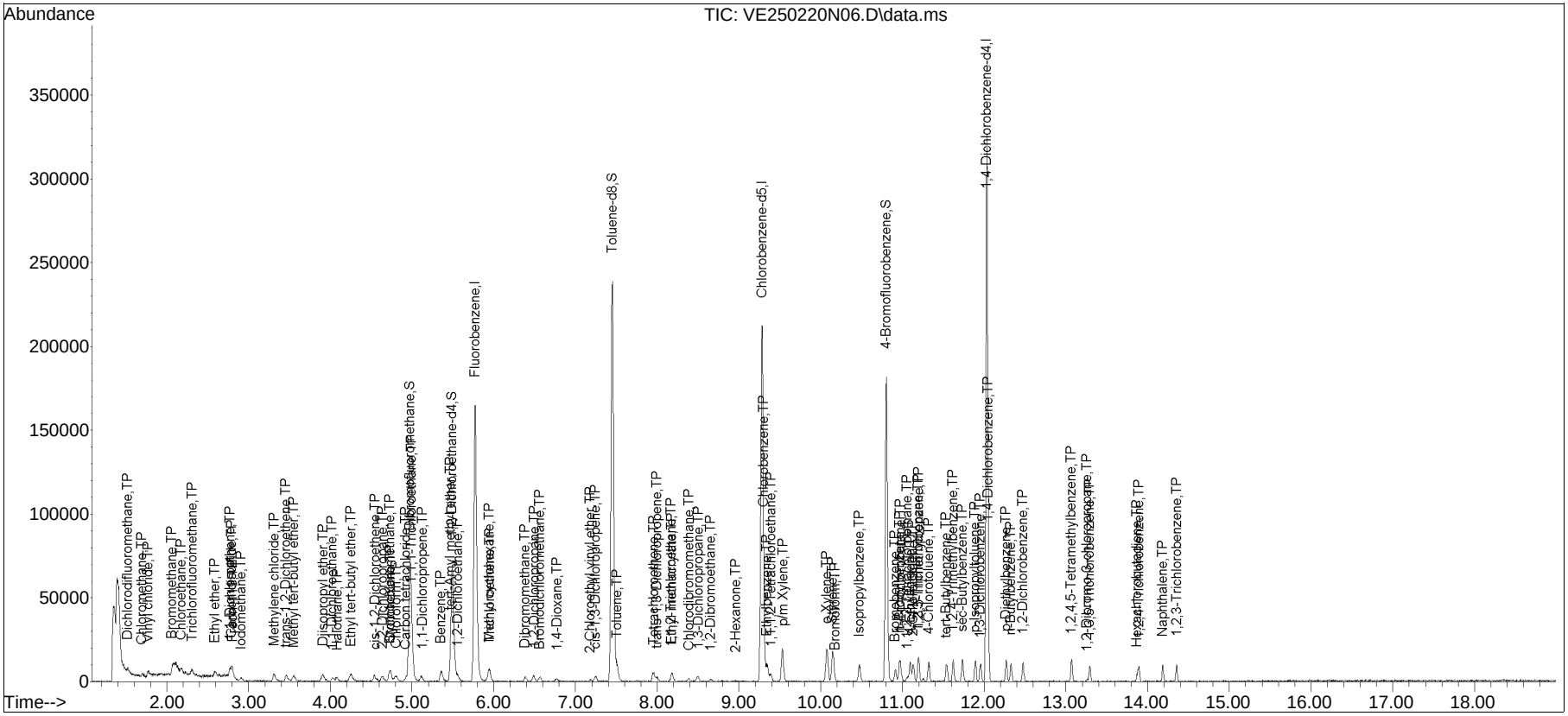
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N06.D
Acq On : 21 Feb 2025 12:33 am
Operator : ELAINE:PID
Sample : I8260STD0.5PPB
Misc : WG2033412,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 24 07:12:18 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

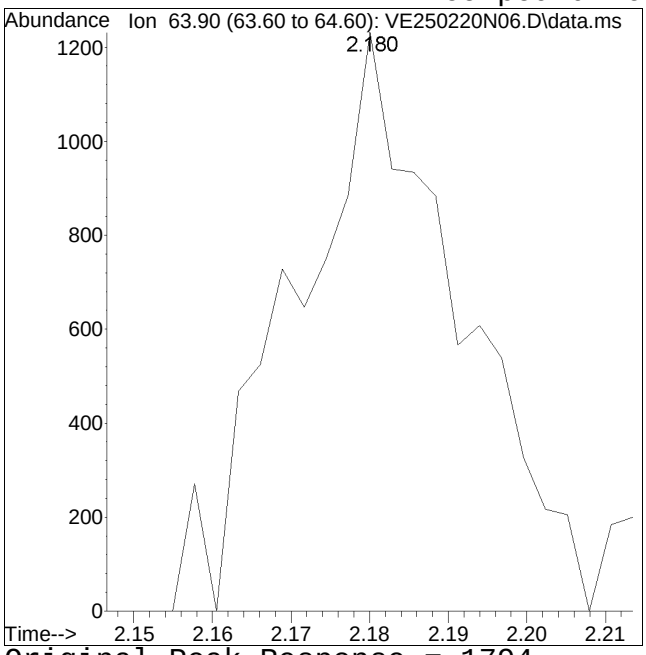
Sub List : 8260-Curve - Megamix plus Diox\VE250220N10.D•



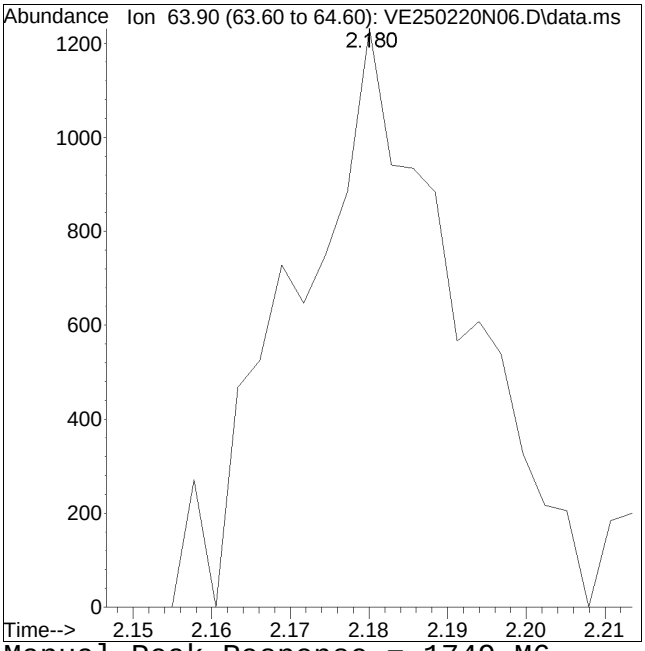
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N06.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 12:33 am Instrument : Elaine
Sample : I8260STD0.5PPB Quant Date : 2/24/2025 7:12 am

Compound #6: Chloroethane



Original Peak Response = 1794



Manual Peak Response = 1749 M6

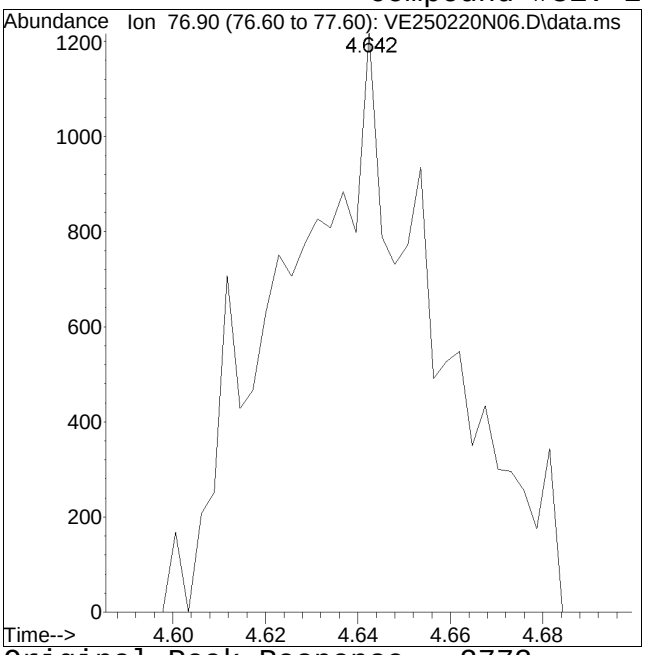
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

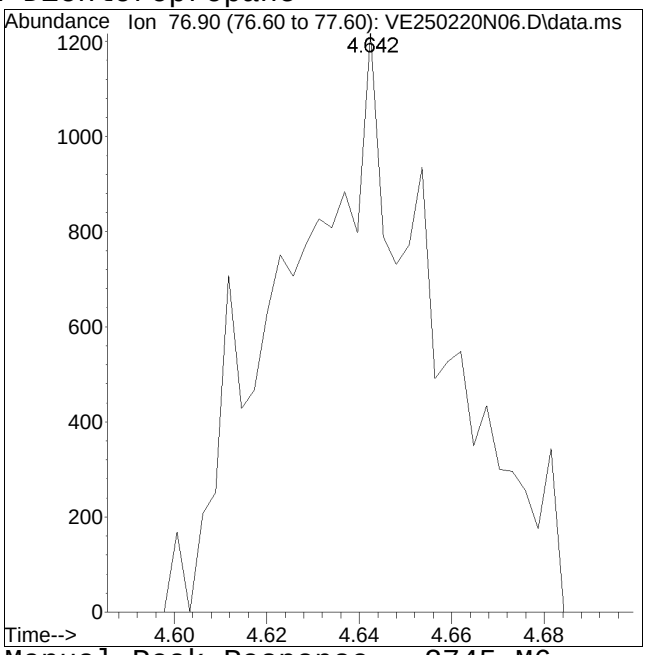
Data Path : K:\Elaine\2025\250220NICALQ
Data File : VE250220N06.D
Date Inj'd : 2/21/2025 12:33 am
Sample : I8260STD0.5PPB

Method : Elaine_250220N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 2/24/2025 7:12 am

Compound #31: 2,2-Dichloropropane



Original Peak Response = 2773



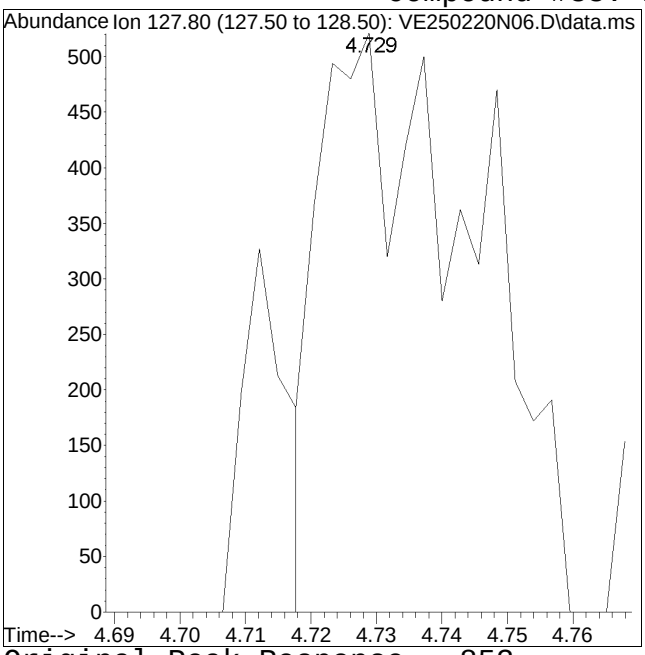
Manual Peak Response = 2745 M6

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

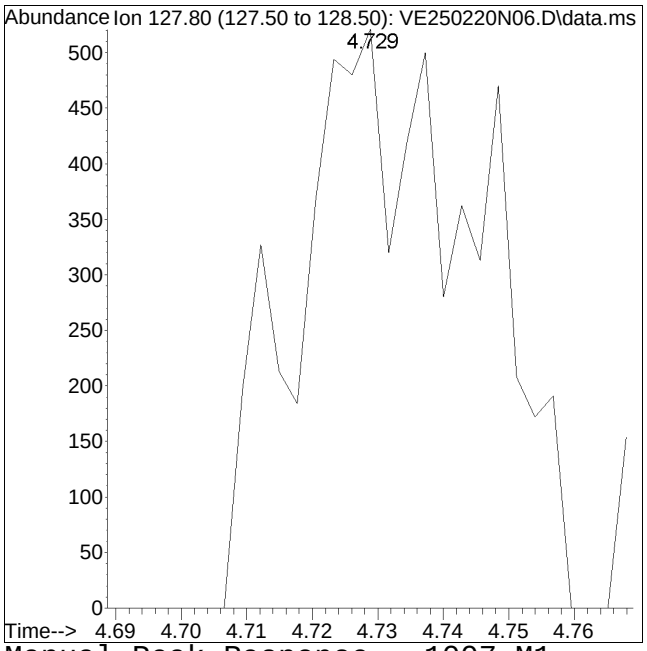
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N06.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 12:33 am Instrument : Elaine
Sample : I8260STD0.5PPB Quant Date : 2/24/2025 7:12 am

Compound #33: Bromochloromethane



Original Peak Response = 853



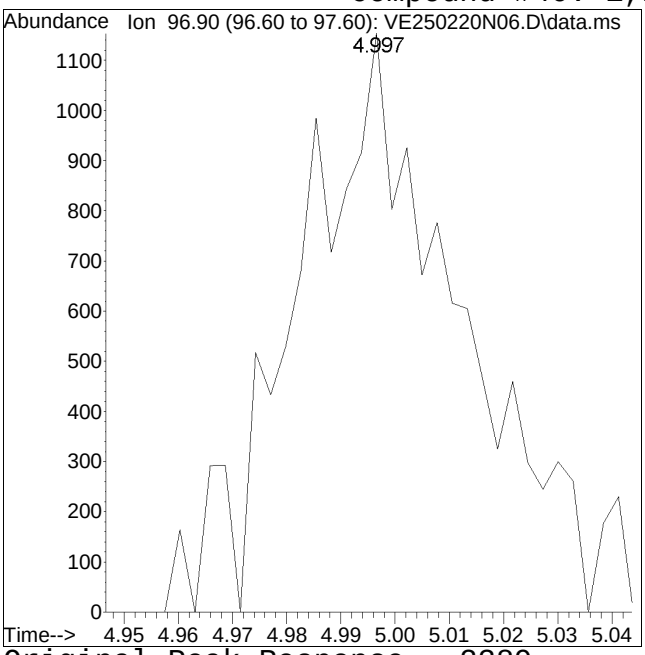
Manual Peak Response = 1007 M1

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

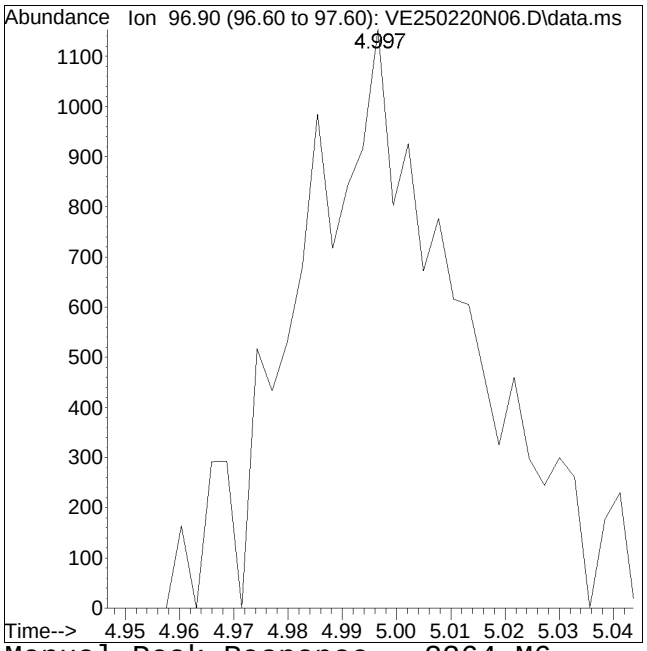
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N06.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 12:33 am Instrument : Elaine
Sample : I8260STD0.5PPB Quant Date : 2/24/2025 7:12 am

Compound #40: 1,1,1-Trichloroethane



Original Peak Response = 2389



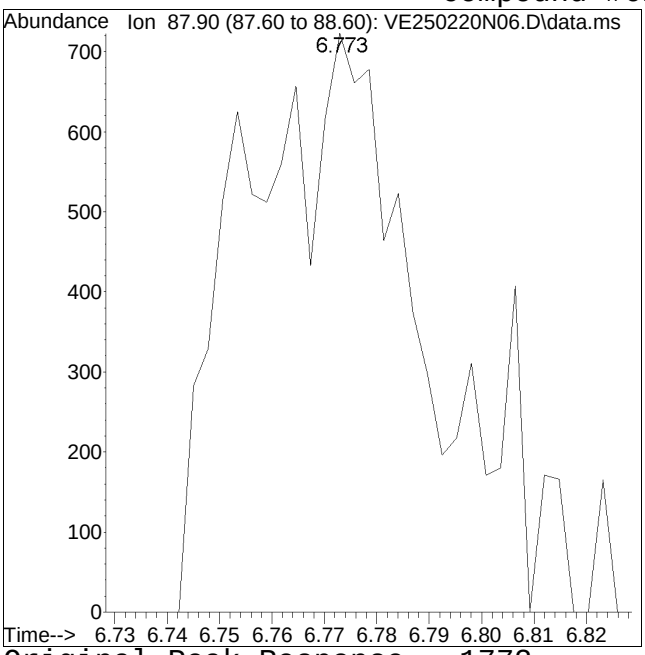
Manual Peak Response = 2264 M6

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

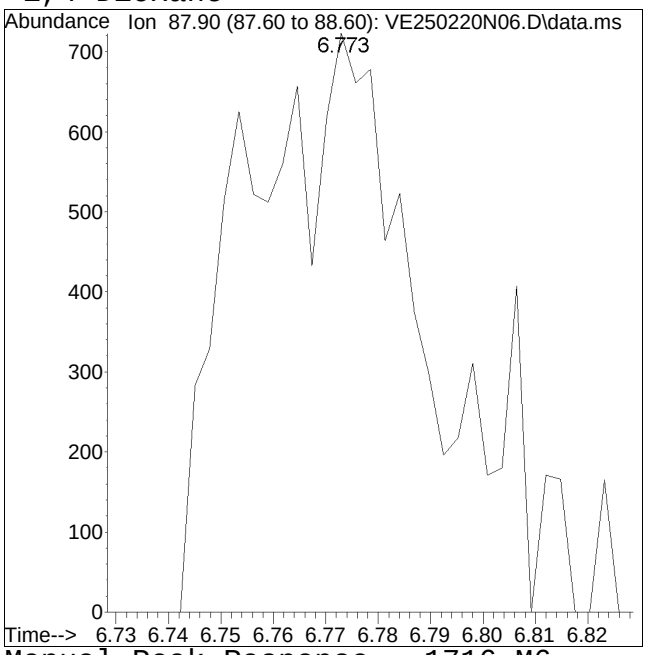
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N06.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 12:33 am Instrument : Elaine
Sample : I8260STD0.5PPB Quant Date : 2/24/2025 7:12 am

Compound #61: 1,4-Dioxane



Original Peak Response = 1772



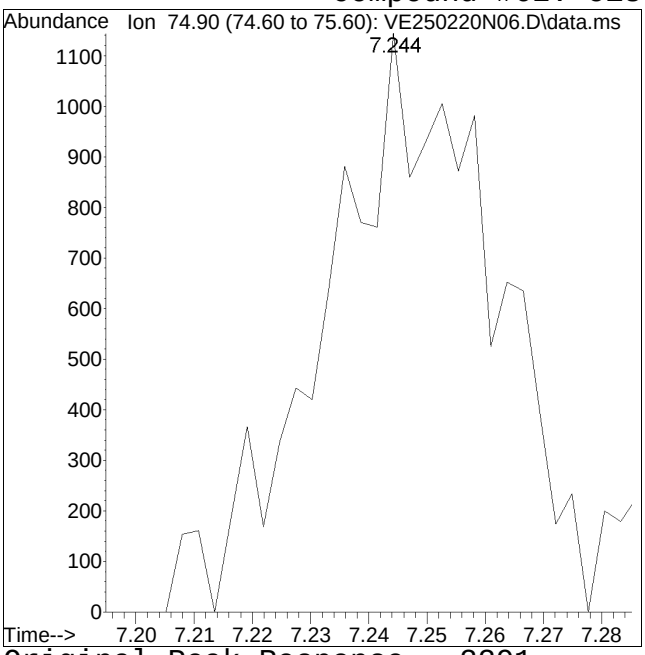
Manual Peak Response = 1716 M6

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

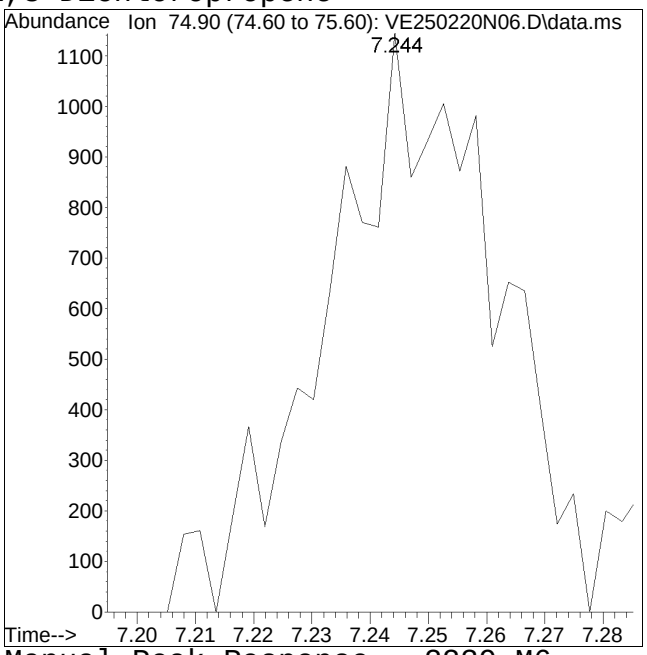
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N06.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 12:33 am Instrument : Elaine
Sample : I8260STD0.5PPB Quant Date : 2/24/2025 7:12 am

Compound #62: cis-1,3-Dichloropropene



Original Peak Response = 2291



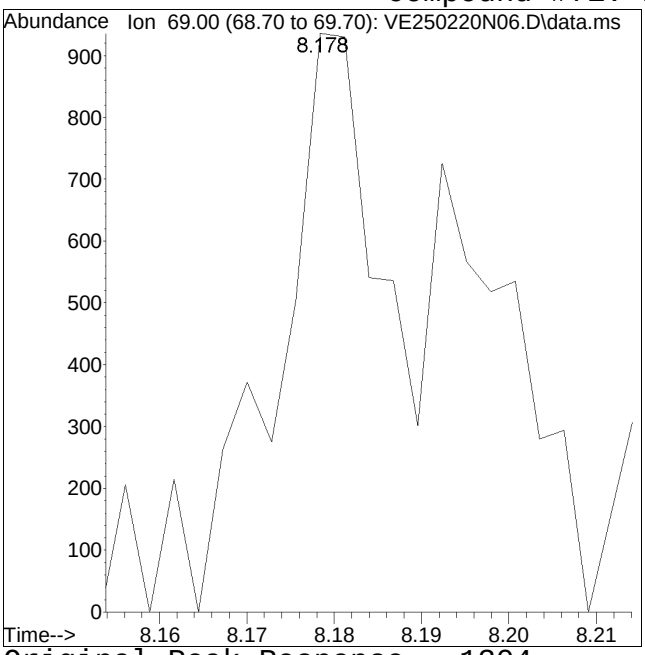
Manual Peak Response = 2239 M6

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

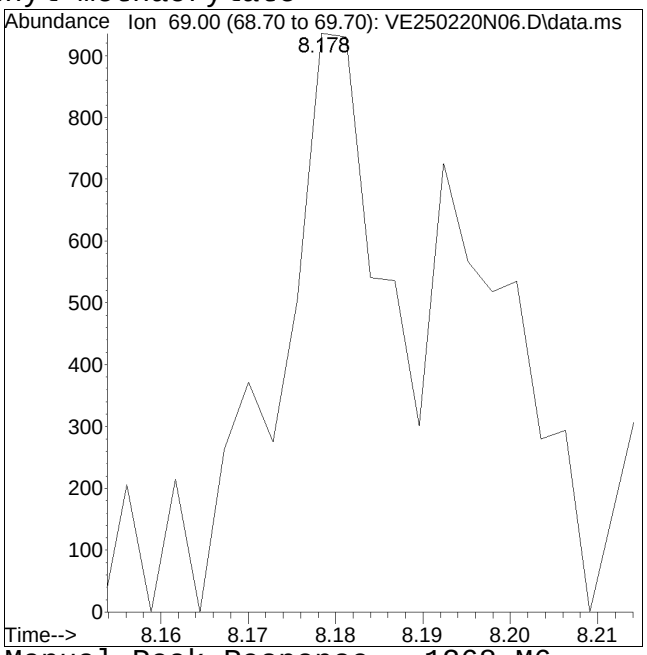
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N06.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 12:33 am Instrument : Elaine
Sample : I8260STD0.5PPB Quant Date : 2/24/2025 7:12 am

Compound #71: Ethyl methacrylate



Original Peak Response = 1304



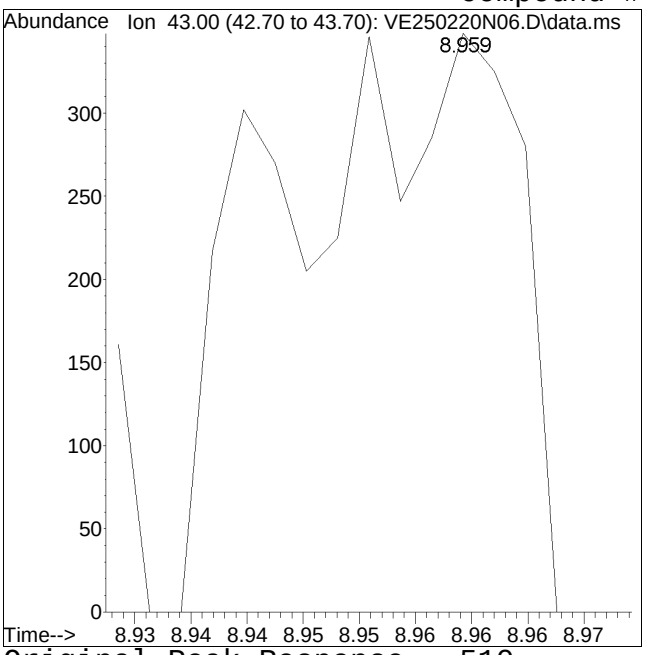
Manual Peak Response = 1268 M6

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

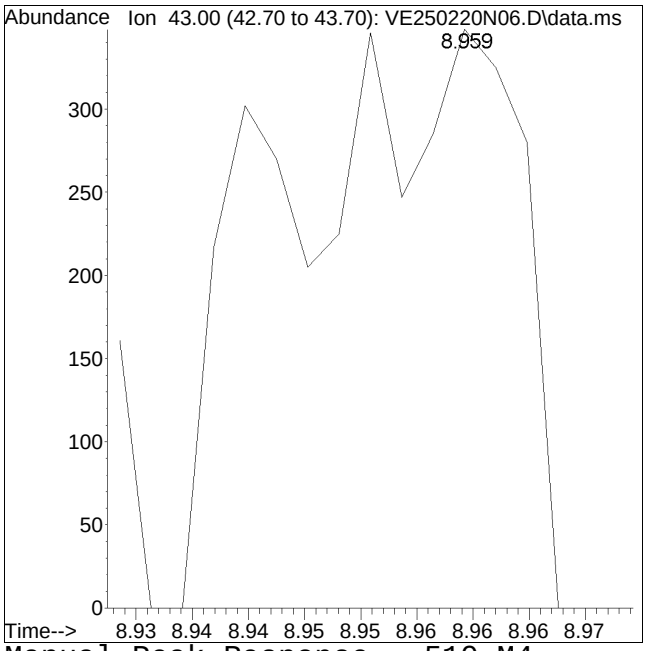
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N06.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 12:33 am Instrument : Elaine
Sample : I8260STD0.5PPB Quant Date : 2/24/2025 7:12 am

Compound #77: 2-Hexanone



Original Peak Response = 510



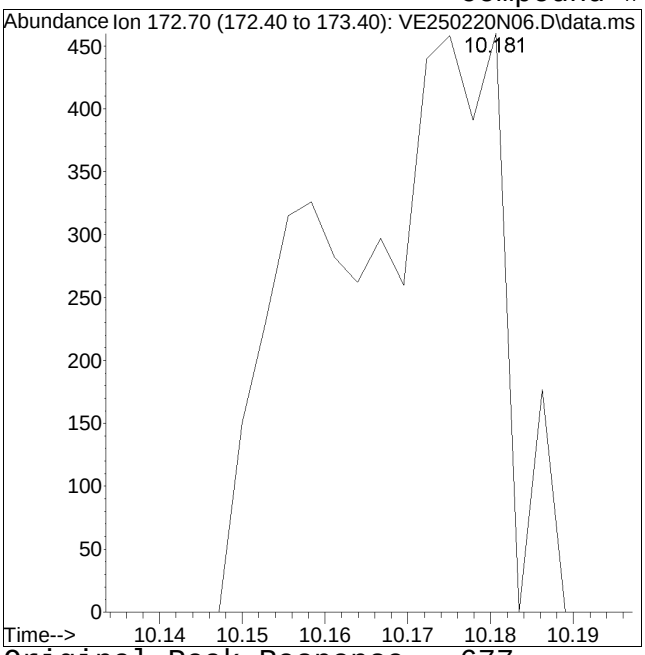
Manual Peak Response = 510 M4

M4 = Poor automated baseline construction.

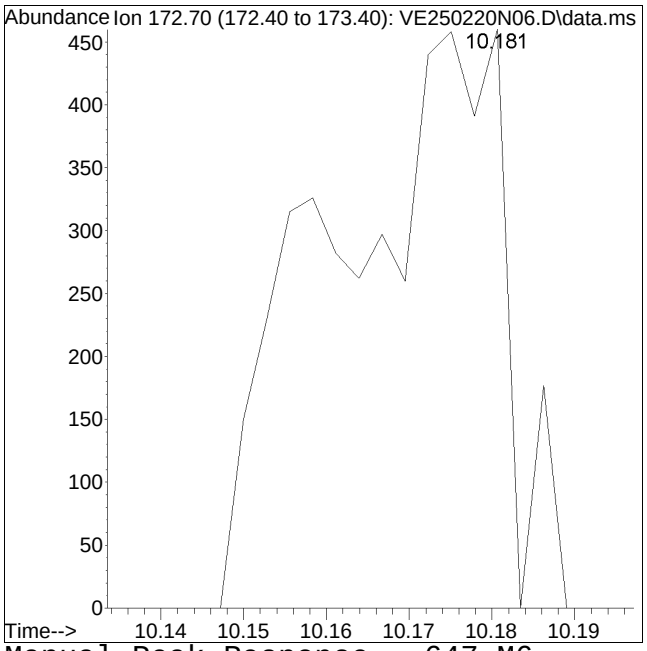
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N06.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 12:33 am Instrument : Elaine
Sample : I8260STD0.5PPB Quant Date : 2/24/2025 7:12 am

Compound #85: Bromoform



Original Peak Response = 677



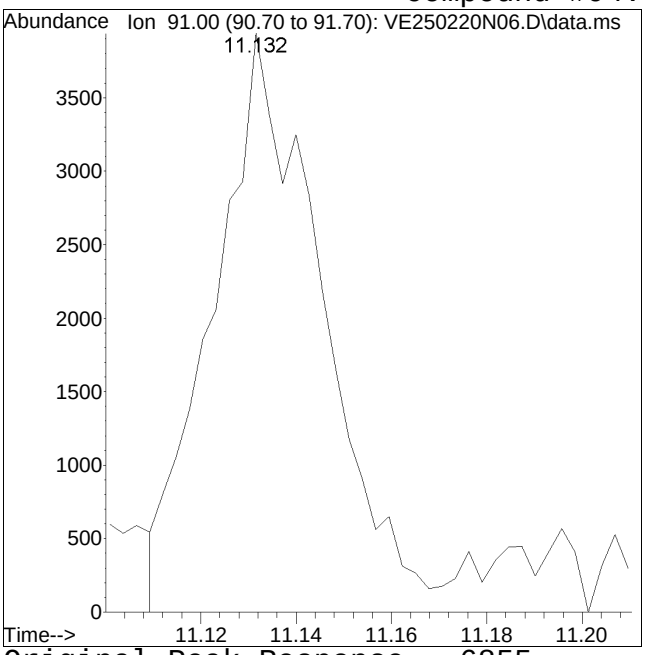
Manual Peak Response = 647 M6

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

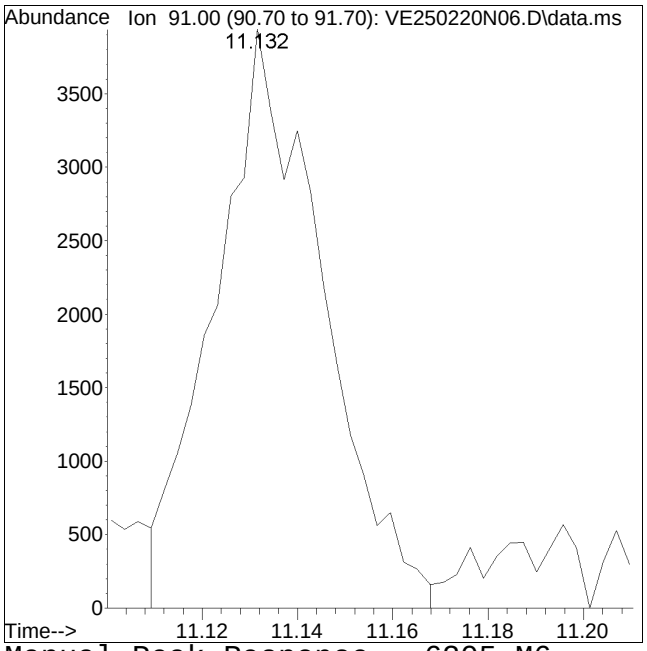
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N06.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 12:33 am Instrument : Elaine
Sample : I8260STD0.5PPB Quant Date : 2/24/2025 7:12 am

Compound #94: 2-Chlorotoluene



Original Peak Response = 6855



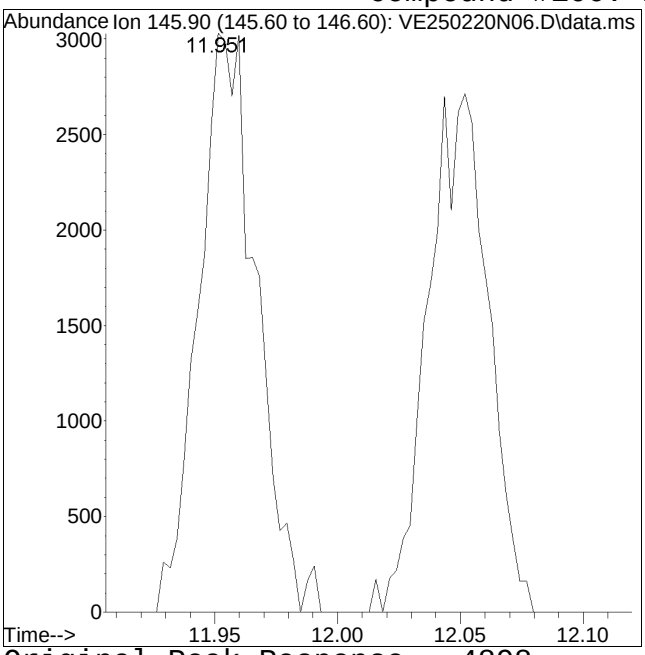
Manual Peak Response = 6205 M6

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

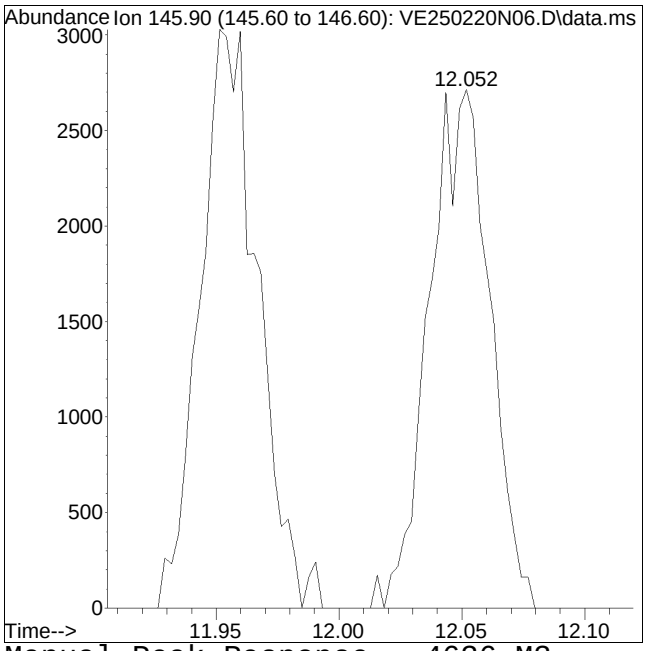
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N06.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 12:33 am Instrument : Elaine
Sample : I8260STD0.5PPB Quant Date : 2/24/2025 7:12 am

Compound #106: 1,4-Dichlorobenzene



Original Peak Response = 4898



Manual Peak Response = 4636 M3

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

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N08.D
Acq On : 21 Feb 2025 1:22 am
Operator : ELAINE:PID
Sample : I8260STD2PPB
Misc : WG2033412,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 24 07:12:26 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.772	96	189076	10.000	ug/L	0.00
Standard Area 1 = 193689			Recovery = 97.62%			
63) Chlorobenzene-d5	9.280	117	151127	10.000	ug/L	0.00
Standard Area 1 = 149882			Recovery = 100.83%			
84) 1,4-Dichlorobenzene-d4	12.032	152	80379	10.000	ug/L	0.00
Standard Area 1 = 78717			Recovery = 102.11%			
System Monitoring Compounds						
39) Dibromofluoromethane	4.980	113	53811	10.428	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.28%			
47) 1,2-Dichloroethane-d4	5.493	65	56957	10.427	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.27%			
64) Toluene-d8	7.451	98	204258	10.215	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.15%			
88) 4-Bromofluorobenzene	10.802	95	66366	10.317	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.17%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.522	85	10872	2.235	ug/L	98
3) Chloromethane	1.703	50	9412	2.146	ug/L	95
4) Vinyl chloride	1.767	62	13282	2.332	ug/L	94
5) Bromomethane	2.066	94	11377	2.263	ug/L	98
6) Chloroethane	2.180	64	9849	2.259	ug/L	97
7) Trichlorofluoromethane	2.308	101	22007	2.241	ug/L	96
8) Ethyl ether	2.590	74	6155	2.104	ug/L	94
10) 1,1-Dichloroethene	2.771	96	11683	2.200	ug/L	99
11) Carbon disulfide	2.802	76	33380	2.230	ug/L	100
12) Freon-113	2.813	101	10506	2.218	ug/L	99
13) Iodomethane	2.905	142	10728	2.075	ug/L	97
14) Acrolein	3.089	56	817	1.927	ug/L #	80
15) Methylene chloride	3.315	84	9628	2.162	ug/L	95
17) Acetone	3.351	43	1861M6	2.460	ug/L	
18) trans-1,2-Dichloroethene	3.460	96	9174	2.203	ug/L	96
19) Methyl acetate	3.468	43	4290M6	2.274	ug/L	
21) Methyl tert-butyl ether	3.558	73	18485	1.882	ug/L #	96
22) tert-Butyl alcohol	3.652	59	1354	7.573	ug/L #	100
24) Diisopropyl ether	3.915	45	21101	1.954	ug/L	97
25) 1,1-Dichloroethane	4.026	63	17250	2.241	ug/L	96
26) Halothane	4.087	117	6782	2.203	ug/L	94

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N08.D
Acq On : 21 Feb 2025 1:22 am
Operator : ELAINE:PID
Sample : I8260STD2PPB
Misc : WG2033412,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 24 07:12:26 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.073	53	1973	2.046	ug/L		96
28) Ethyl tert-butyl ether	4.249	59	19618	1.873	ug/L		97
29) Vinyl acetate	4.260	43	13077	1.710	ug/L		97
30) cis-1,2-Dichloroethene	4.545	96	10852	2.236	ug/L		90
31) 2,2-Dichloropropane	4.642	77	14253	2.234	ug/L	#	99
33) Bromochloromethane	4.726	128	4856	2.193	ug/L		97
34) Cyclohexane	4.734	56	14652	2.048	ug/L		98
35) Chloroform	4.804	83	17215	2.258	ug/L		97
36) Ethyl acetate	4.904	43	4471M6	1.781	ug/L		
37) Carbon tetrachloride	4.921	117	11949M6	2.118	ug/L		
38) Tetrahydrofuran	4.944	42	1673M6	2.112	ug/L		
40) 1,1,1-Trichloroethane	4.999	97	13544	2.160	ug/L		97
42) 2-Butanone	5.086	43	1954	1.854	ug/L	#	58
43) 1,1-Dichloropropene	5.116	75	10238	2.010	ug/L		99
45) Benzene	5.362	78	33614	2.003	ug/L		99
46) tert-Amyl methyl ether	5.471	73	18621	1.879	ug/L		98
48) 1,2-Dichloroethane	5.563	62	11254	2.123	ug/L		98
51) Methyl cyclohexane	5.936	83	14595	1.958	ug/L		98
52) Trichloroethene	5.950	95	8036	1.973	ug/L		98
54) Dibromomethane	6.385	93	5416	2.126	ug/L		96
55) 1,2-Dichloropropane	6.494	63	7832	1.983	ug/L		96
57) 2-Chloroethyl vinyl ether	7.183	63	2542	1.538	ug/L	#	83
58) Bromodichloromethane	6.564	83	11063	1.949	ug/L		99
61) 1,4-Dioxane	6.773	88	7631	375.081	ug/L		98
62) cis-1,3-Dichloropropene	7.244	75	11717	1.907	ug/L		99
65) Toluene	7.509	92	22633	2.002	ug/L		98
66) 4-Methyl-2-pentanone	7.939	58	1800	1.867	ug/L	#	93
67) Tetrachloroethene	7.955	166	8743	2.011	ug/L		97
69) trans-1,3-Dichloropropene	7.986	75	9600	1.757	ug/L		96
71) Ethyl methacrylate	8.181	69	6907	1.790	ug/L		91
72) 1,1,2-Trichloroethane	8.176	83	5212	1.836	ug/L		98
73) Chlorodibromomethane	8.390	129	6338	1.605	ug/L		99
74) 1,3-Dichloropropane	8.499	76	11141	1.899	ug/L		97
75) 1,2-Dibromoethane	8.655	107	5864	1.805	ug/L		96
77) 2-Hexanone	8.956	43	2775	1.807	ug/L	#	83
78) Chlorobenzene	9.305	112	25806	2.007	ug/L		94
79) Ethylbenzene	9.341	91	44125	1.950	ug/L		100
80) 1,1,1,2-Tetrachloroethane	9.389	131	7217	1.801	ug/L		98
81) p/m Xylene	9.531	106	34715	3.750	ug/L		97
82) o Xylene	10.077	106	33959	3.685	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N08.D
Acq On : 21 Feb 2025 1:22 am
Operator : ELAINE:PID
Sample : I8260STD2PPB
Misc : WG2033412,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 24 07:12:26 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
83) Styrene	10.144	104	54238	3.456	ug/L		98
85) Bromoform	10.175	173	3315	1.522	ug/L		94
87) Isopropylbenzene	10.476	105	44061	1.987	ug/L		100
89) Bromobenzene	10.911	156	10155	2.053	ug/L		100
90) n-Propylbenzene	10.964	91	53605	2.006	ug/L		99
91) 1,4-Dichlorobutane	10.984	55	9999	2.048	ug/L		99
92) 1,1,2,2-Tetrachloroethane	11.059	83	7783	2.067	ug/L		96
93) 4-Ethyltoluene	11.098	105	44887	2.032	ug/L		98
94) 2-Chlorotoluene	11.134	91	30600M6	2.018	ug/L		
95) 1,3,5-Trimethylbenzene	11.196	105	38830	1.972	ug/L		98
96) 1,2,3-Trichloropropane	11.196	75	6270	1.968	ug/L		98
97) trans-1,4-Dichloro-2-b...	11.257	53	2019	1.863	ug/L	#	84
98) 4-Chlorotoluene	11.321	91	31864	2.025	ug/L		99
99) tert-Butylbenzene	11.541	119	32562	1.984	ug/L		99
102) 1,2,4-Trimethylbenzene	11.620	105	36751	1.907	ug/L		98
103) sec-Butylbenzene	11.737	105	48097	1.933	ug/L		98
104) p-Isopropyltoluene	11.893	119	41773	1.915	ug/L		99
105) 1,3-Dichlorobenzene	11.954	146	21128	1.963	ug/L		98
106) 1,4-Dichlorobenzene	12.052	146	20990	1.960	ug/L		97
107) p-Diethylbenzene	12.272	119	23700	1.833	ug/L		97
108) n-Butylbenzene	12.328	91	36341	1.942	ug/L		98
109) 1,2-Dichlorobenzene	12.476	146	19818	1.960	ug/L		98
110) 1,2,4,5-Tetramethylben...	13.070	119	36662	1.797	ug/L		100
111) 1,2-Dibromo-3-chloropr...	13.265	155	830M3	1.582	ug/L		
112) 1,3,5-Trichlorobenzene	13.293	180	14251	1.924	ug/L		97
113) Hexachlorobutadiene	13.873	225	4103	2.104	ug/L		98
114) 1,2,4-Trichlorobenzene	13.890	180	11949	1.874	ug/L		96
115) Naphthalene	14.185	128	28848	1.902	ug/L		100
116) 1,2,3-Trichlorobenzene	14.355	180	11342	1.940	ug/L		99

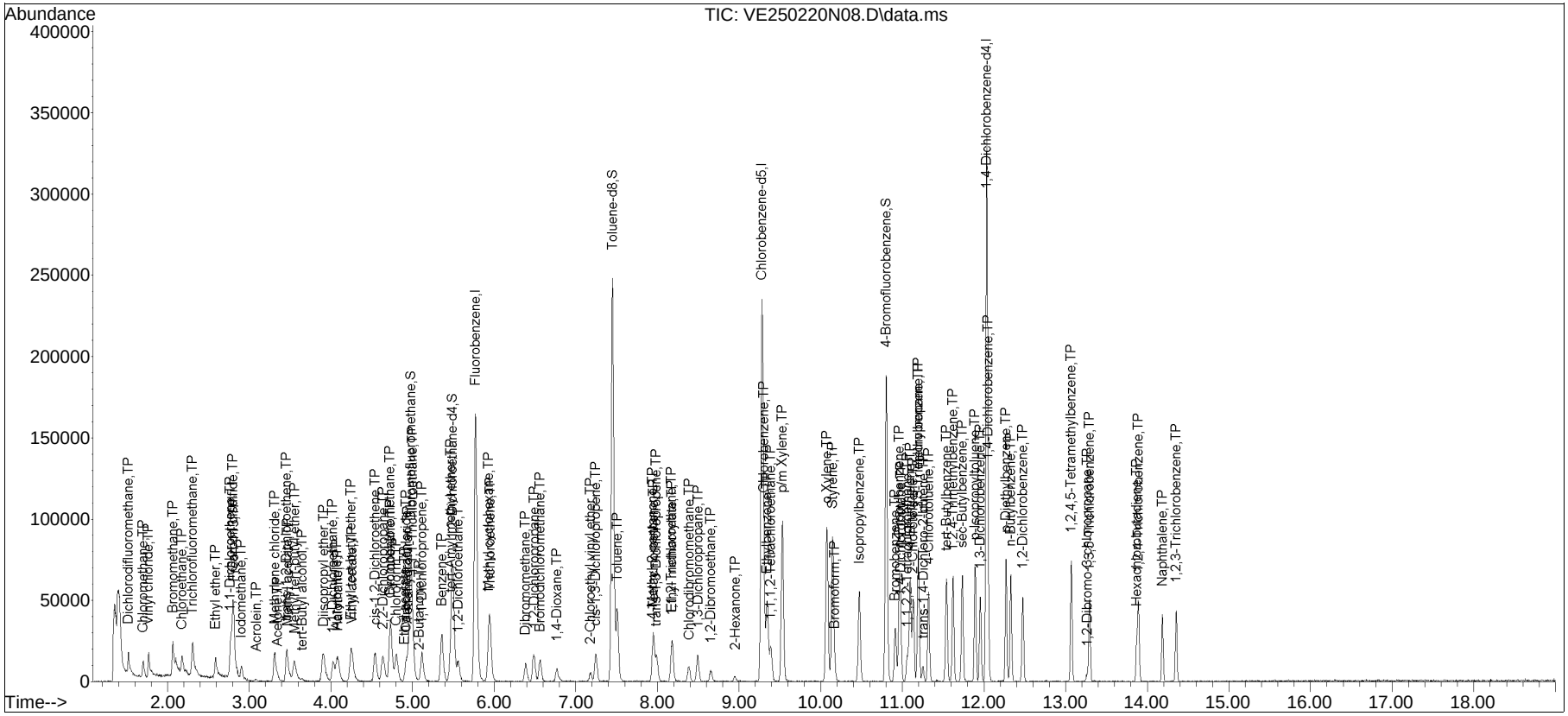
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N08.D
Acq On : 21 Feb 2025 1:22 am
Operator : ELAINE:PID
Sample : I8260STD2PPB
Misc : WG2033412,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 24 07:12:26 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

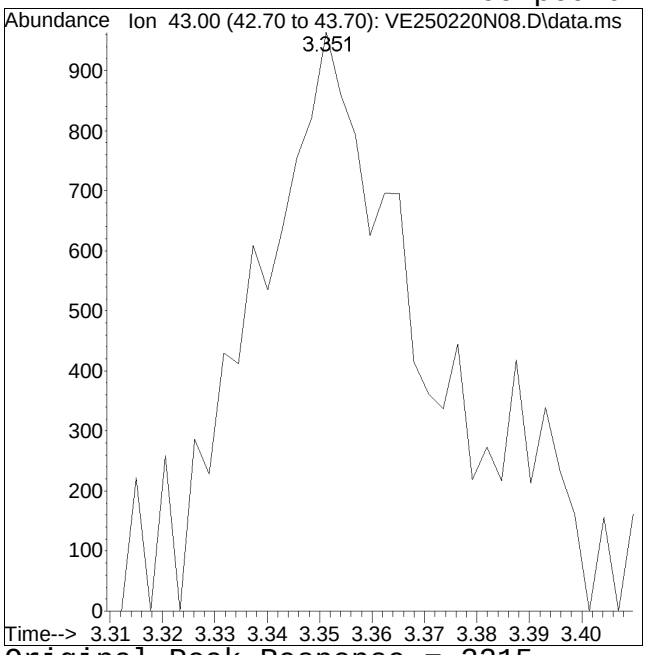
Sub List : 8260-Curve - Megamix plus Diox\VE250220N10.D•



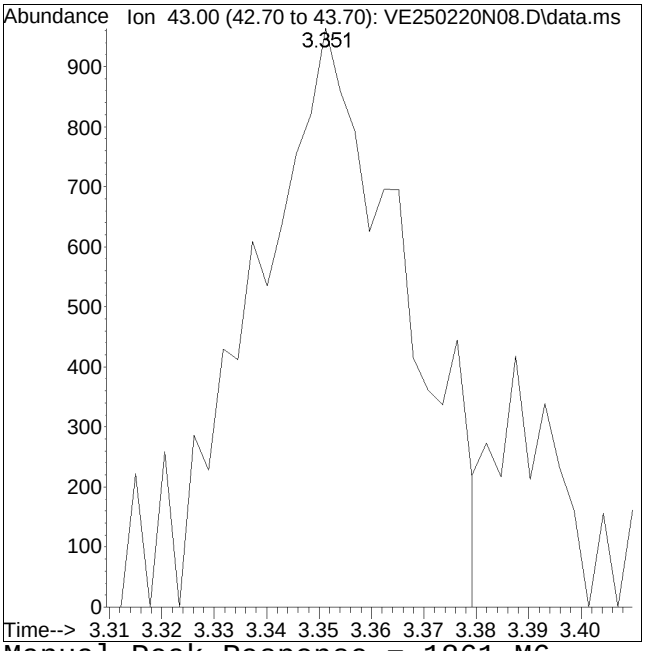
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N08.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 1:22 am Instrument : Elaine
Sample : I8260STD2PPB Quant Date : 2/24/2025 7:12 am

Compound #17: Acetone



Original Peak Response = 2215



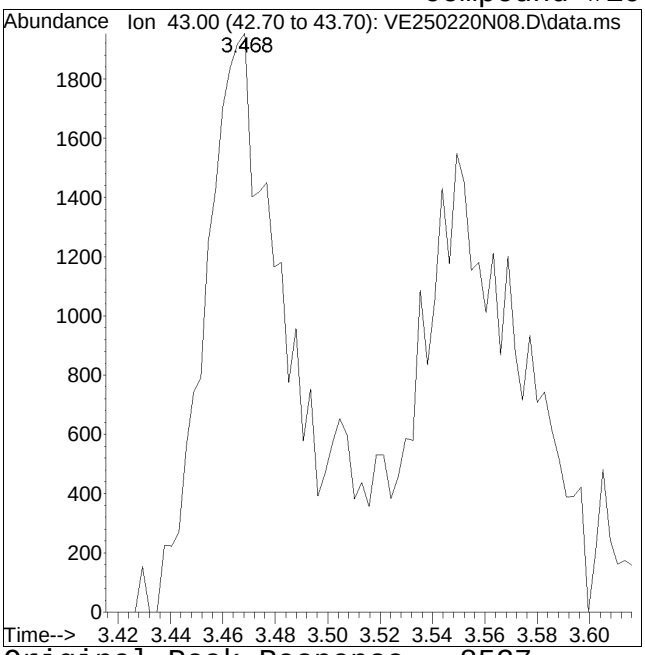
Manual Peak Response = 1861 M6

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

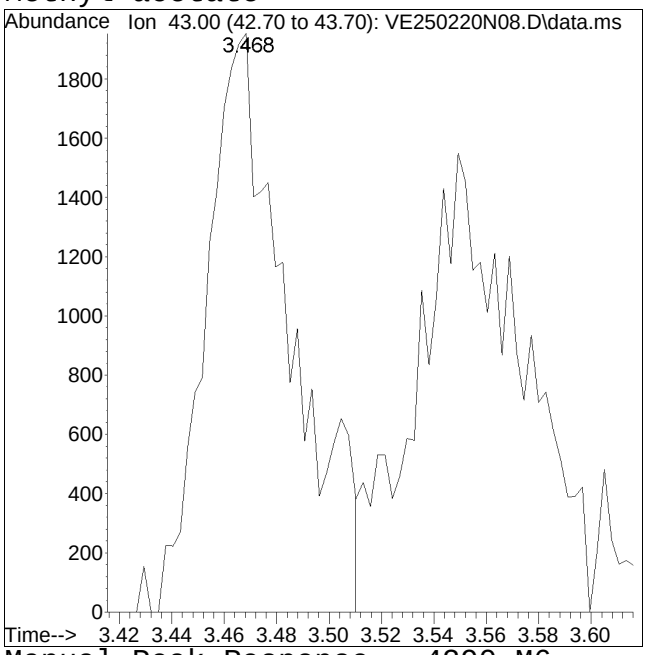
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N08.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 1:22 am Instrument : Elaine
Sample : I8260STD2PPB Quant Date : 2/24/2025 7:12 am

Compound #19: Methyl acetate



Original Peak Response = 8537



Manual Peak Response = 4290 M6

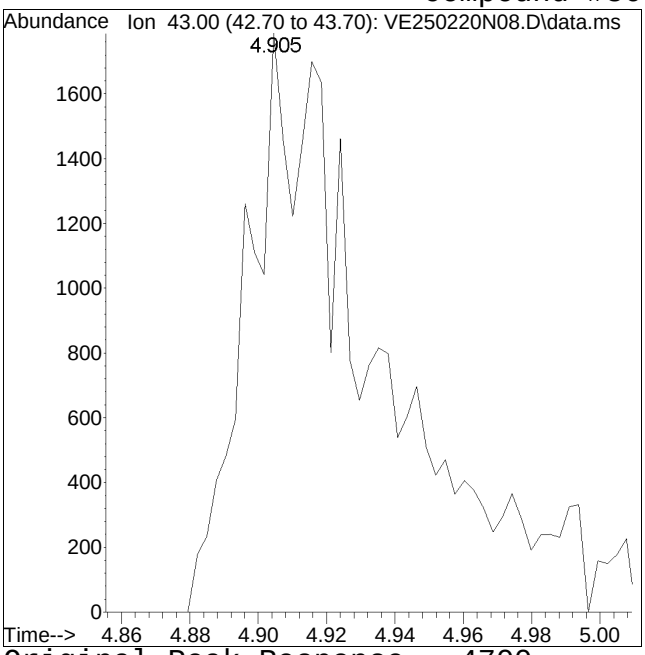
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

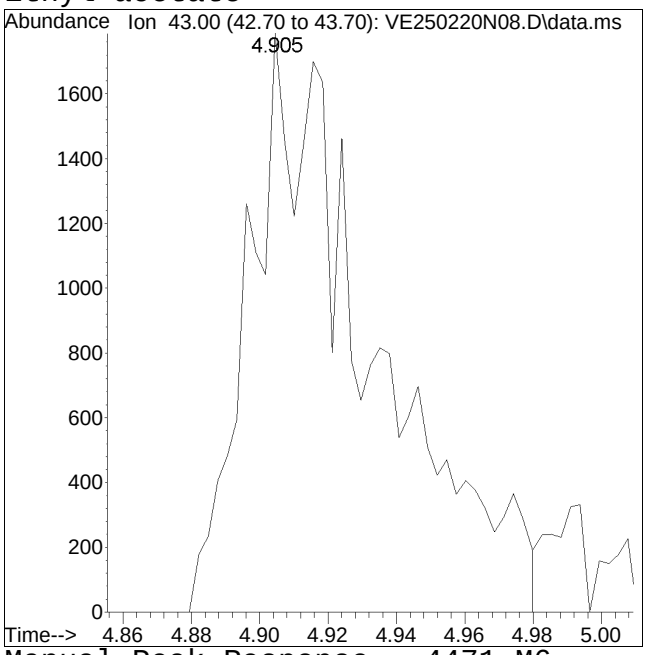
Data Path : K:\Elaine\2025\250220NICALQ
Data File : VE250220N08.D
Date Inj'd : 2/21/2025 1:22 am
Sample : I8260STD2PPB

Method : Elaine_250220N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 2/24/2025 7:12 am

Compound #36: Ethyl acetate



Original Peak Response = 4700



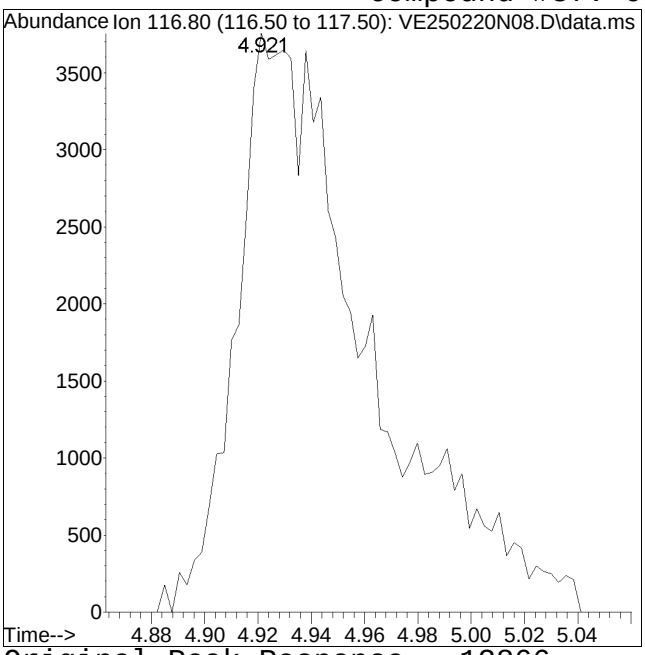
Manual Peak Response = 4471 M6

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

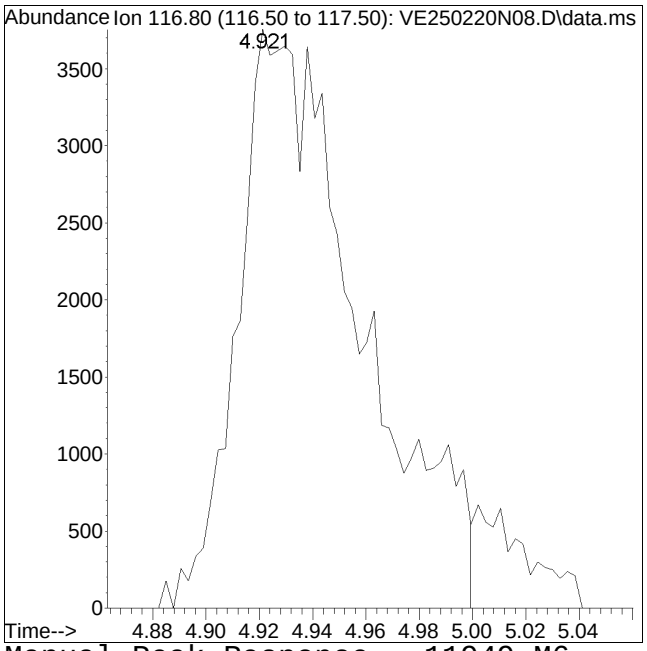
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N08.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 1:22 am Instrument : Elaine
Sample : I8260STD2PPB Quant Date : 2/24/2025 7:12 am

Compound #37: Carbon tetrachloride



Original Peak Response = 12866



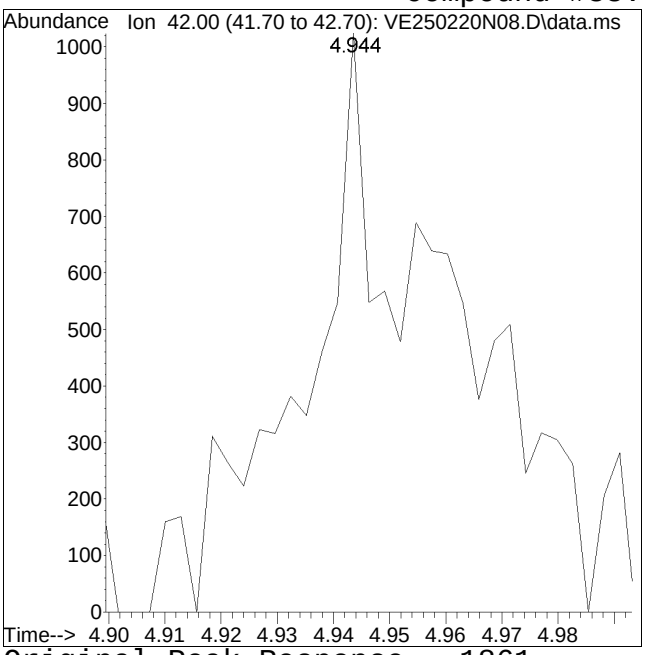
Manual Peak Response = 11949 M6

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

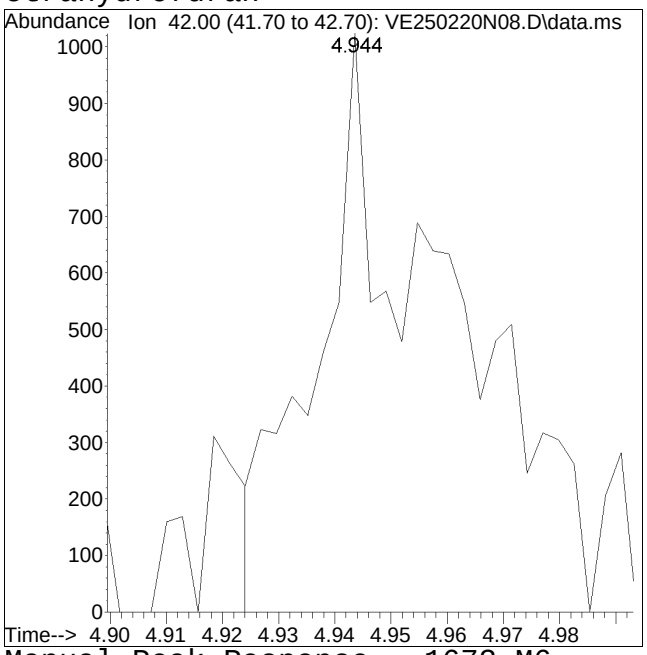
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N08.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 1:22 am Instrument : Elaine
Sample : I8260STD2PPB Quant Date : 2/24/2025 7:12 am

Compound #38: Tetrahydrofuran



Original Peak Response = 1861



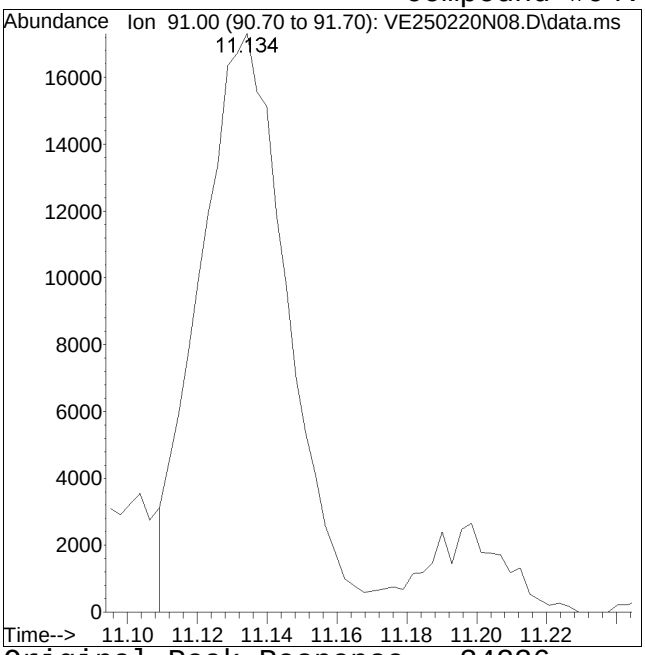
Manual Peak Response = 1673 M6

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

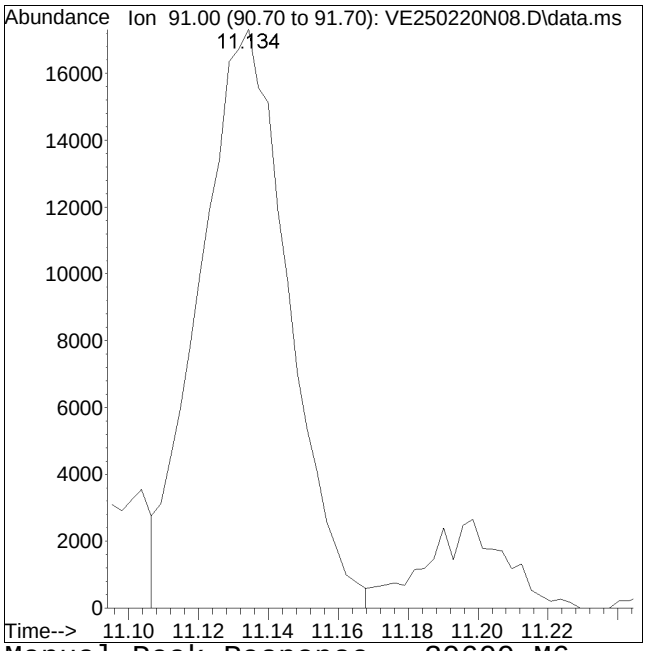
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N08.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 1:22 am Instrument : Elaine
Sample : I8260STD2PPB Quant Date : 2/24/2025 7:12 am

Compound #94: 2-Chlorotoluene



Original Peak Response = 34236



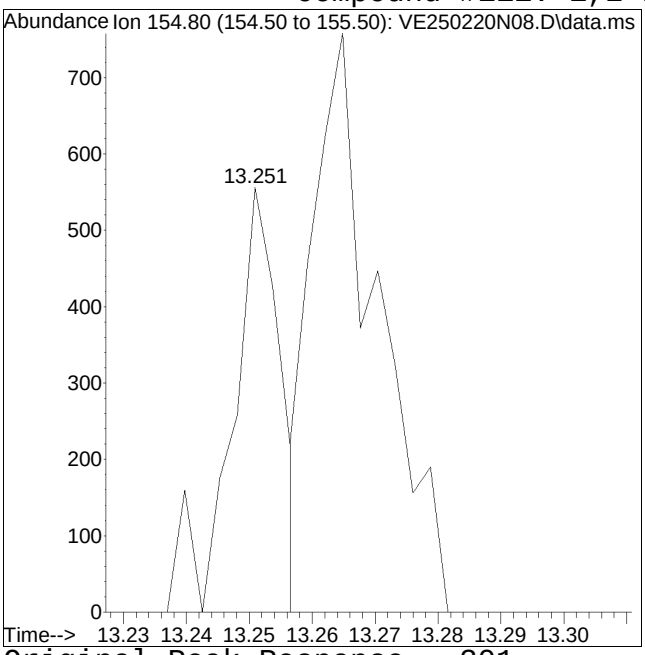
Manual Peak Response = 30600 M6

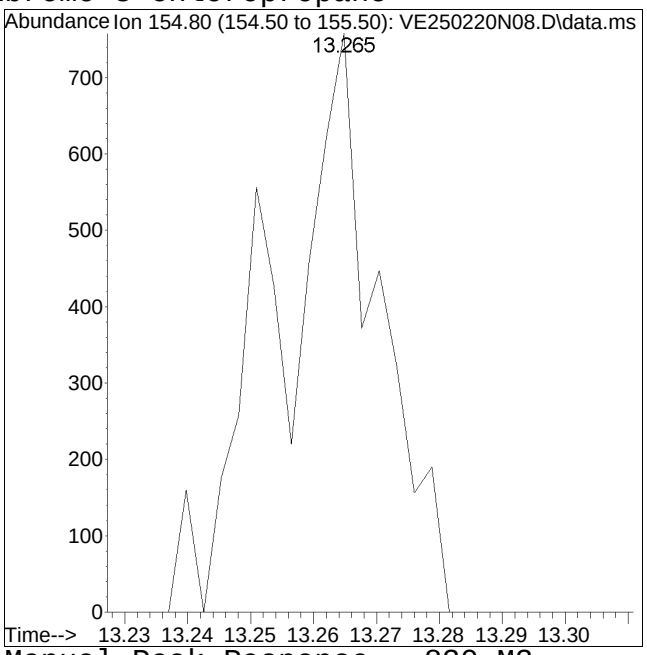
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N08.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 1:22 am Instrument : Elaine
Sample : I8260STD2PPB Quant Date : 2/24/2025 7:12 am

Compound #111: 1,2-Dibromo-3-chloropropane





Original Peak Response = 301 Manual Peak Response = 830 M3

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

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N10.D
Acq On : 21 Feb 2025 2:10 am
Operator : ELAINE:PID
Sample : I8260STD10PPB
Misc : WG2033412,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 24 07:12:33 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.777	96	193689	10.000	ug/L	0.00
Standard Area 1 = 193689			Recovery = 100.00%			
63) Chlorobenzene-d5	9.283	117	149882	10.000	ug/L	0.00
Standard Area 1 = 149882			Recovery = 100.00%			
84) 1,4-Dichlorobenzene-d4	12.035	152	78717	10.000	ug/L	0.00
Standard Area 1 = 78717			Recovery = 100.00%			
System Monitoring Compounds						
39) Dibromofluoromethane	4.980	113	54617	10.332	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.32%			
47) 1,2-Dichloroethane-d4	5.496	65	57838	10.336	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.36%			
64) Toluene-d8	7.450	98	202753	10.224	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.24%			
88) 4-Bromofluorobenzene	10.802	95	67307	10.684	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.84%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.522	85	58044	11.647	ug/L	100
3) Chloromethane	1.703	50	50871	11.323	ug/L	100
4) Vinyl chloride	1.770	62	64901	11.124	ug/L	100
5) Bromomethane	2.066	94	56017	10.877	ug/L	100
6) Chloroethane	2.180	64	50713	11.353	ug/L	100
7) Trichlorofluoromethane	2.314	101	114256	11.359	ug/L	100
8) Ethyl ether	2.595	74	32957	10.998	ug/L	100
10) 1,1-Dichloroethene	2.777	96	60110	11.048	ug/L	100
11) Carbon disulfide	2.802	76	164866	10.751	ug/L	100
12) Freon-113	2.807	101	55013	11.338	ug/L	100
13) Iodomethane	2.908	142	56626	10.692	ug/L	100
14) Acrolein	3.083	56	4190	9.648	ug/L	100
15) Methylene chloride	3.309	84	48133	10.553	ug/L	100
17) Acetone	3.348	43	7430M6	9.588	ug/L	
18) trans-1,2-Dichloroethene	3.463	96	46622	10.929	ug/L	100
19) Methyl acetate	3.463	43	20443M6	10.580	ug/L	
21) Methyl tert-butyl ether	3.549	73	100451	9.985	ug/L #	100
22) tert-Butyl alcohol	3.641	59	9767	53.328	ug/L #	100
24) Diisopropyl ether	3.906	45	112826	10.198	ug/L	100
25) 1,1-Dichloroethane	4.029	63	85391	10.831	ug/L	100
26) Halothane	4.079	117	35270	11.182	ug/L	100

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N10.D
Acq On : 21 Feb 2025 2:10 am
Operator : ELAINE:PID
Sample : I8260STD10PPB
Misc : WG2033412,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 24 07:12:33 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.068	53	10742	10.876	ug/L		100
28) Ethyl tert-butyl ether	4.252	59	105376	9.820	ug/L		100
29) Vinyl acetate	4.255	43	73968	9.441	ug/L		100
30) cis-1,2-Dichloroethene	4.539	96	54077	10.877	ug/L		100
31) 2,2-Dichloropropane	4.637	77	69566	10.643	ug/L	#	100
33) Bromochloromethane	4.726	128	24658	10.871	ug/L		100
34) Cyclohexane	4.734	56	83009	11.324	ug/L		100
35) Chloroform	4.801	83	84572	10.831	ug/L		100
36) Ethyl acetate	4.902	43	25278	9.829	ug/L		100
37) Carbon tetrachloride	4.930	117	64057M6	11.086	ug/L		
38) Tetrahydrofuran	4.949	42	8818M6	10.867	ug/L		
40) 1,1,1-Trichloroethane	4.994	97	72348	11.265	ug/L		100
42) 2-Butanone	5.089	43	10728	9.936	ug/L		100
43) 1,1-Dichloropropene	5.116	75	55003	10.540	ug/L		100
45) Benzene	5.359	78	175231	10.193	ug/L		100
46) tert-Amyl methyl ether	5.471	73	100419	9.890	ug/L		100
48) 1,2-Dichloroethane	5.560	62	57947	10.673	ug/L		100
51) Methyl cyclohexane	5.939	83	80386	10.528	ug/L		100
52) Trichloroethene	5.947	95	43985	10.543	ug/L		100
54) Dibromomethane	6.388	93	27652	10.594	ug/L		100
55) 1,2-Dichloropropane	6.486	63	43479	10.748	ug/L		100
57) 2-Chloroethyl vinyl ether	7.183	63	17143	10.128	ug/L		100
58) Bromodichloromethane	6.558	83	60922	10.480	ug/L		100
61) 1,4-Dioxane	6.767	88	11476	550.638	ug/L		100
62) cis-1,3-Dichloropropene	7.241	75	66017	10.490	ug/L		100
65) Toluene	7.506	92	118730	10.592	ug/L		100
66) 4-Methyl-2-pentanone	7.939	58	9412	9.845	ug/L		100
67) Tetrachloroethene	7.952	166	45236	10.490	ug/L		100
69) trans-1,3-Dichloropropene	7.994	75	54289	10.016	ug/L		100
71) Ethyl methacrylate	8.181	69	41795	10.918	ug/L		100
72) 1,1,2-Trichloroethane	8.173	83	28032	9.959	ug/L		100
73) Chlorodibromomethane	8.382	129	37963	9.691	ug/L		100
74) 1,3-Dichloropropane	8.493	76	59386	10.207	ug/L		100
75) 1,2-Dibromoethane	8.655	107	33291	10.333	ug/L		100
77) 2-Hexanone	8.945	43	16305	10.707	ug/L		100
78) Chlorobenzene	9.302	112	132309	10.376	ug/L		100
79) Ethylbenzene	9.344	91	231940	10.336	ug/L		100
80) 1,1,1,2-Tetrachloroethane	9.386	131	38733	9.744	ug/L		100
81) p/m Xylene	9.531	106	178778	19.473	ug/L		100
82) o Xylene	10.075	106	175705	19.227	ug/L		100

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N10.D
Acq On : 21 Feb 2025 2:10 am
Operator : ELAINE:PID
Sample : I8260STD10PPB
Misc : WG2033412,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 24 07:12:33 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
83) Styrene	10.147	104	292059	18.762	ug/L	100
85) Bromoform	10.172	173	20681	9.697	ug/L	100
87) Isopropylbenzene	10.473	105	232805	10.722	ug/L	100
89) Bromobenzene	10.917	156	52318	10.802	ug/L	100
90) n-Propylbenzene	10.964	91	279283	10.671	ug/L	100
91) 1,4-Dichlorobutane	10.981	55	53152	11.118	ug/L	100
92) 1,1,2,2-Tetrachloroethane	11.062	83	41053	11.132	ug/L	100
93) 4-Ethyltoluene	11.095	105	234606	10.844	ug/L	100
94) 2-Chlorotoluene	11.132	91	158053M3	10.641	ug/L	
95) 1,3,5-Trimethylbenzene	11.196	105	201337	10.441	ug/L	100
96) 1,2,3-Trichloropropane	11.196	75	34097	10.928	ug/L	100
97) trans-1,4-Dichloro-2-b...	11.257	53	10994	10.358	ug/L	100
98) 4-Chlorotoluene	11.318	91	163200	10.589	ug/L	100
99) tert-Butylbenzene	11.541	119	169080	10.521	ug/L	100
102) 1,2,4-Trimethylbenzene	11.620	105	197057	10.439	ug/L	100
103) sec-Butylbenzene	11.734	105	256516	10.527	ug/L	100
104) p-Isopropyltoluene	11.890	119	221227	10.355	ug/L	100
105) 1,3-Dichlorobenzene	11.951	146	107400	10.189	ug/L	100
106) 1,4-Dichlorobenzene	12.049	146	108765	10.371	ug/L	100
107) p-Diethylbenzene	12.269	119	131858	10.412	ug/L	100
108) n-Butylbenzene	12.328	91	191547	10.452	ug/L	100
109) 1,2-Dichlorobenzene	12.473	146	102401	10.342	ug/L	100
110) 1,2,4,5-Tetramethylben...	13.070	119	199183	9.970	ug/L	100
111) 1,2-Dibromo-3-chloropr...	13.256	155	5844	11.371	ug/L	100
112) 1,3,5-Trichlorobenzene	13.293	180	72734	10.030	ug/L	100
113) Hexachlorobutadiene	13.870	225	20898	10.941	ug/L	100
114) 1,2,4-Trichlorobenzene	13.895	180	64569	10.342	ug/L	100
115) Naphthalene	14.185	128	154699	10.414	ug/L	100
116) 1,2,3-Trichlorobenzene	14.355	180	58463	10.213	ug/L	100

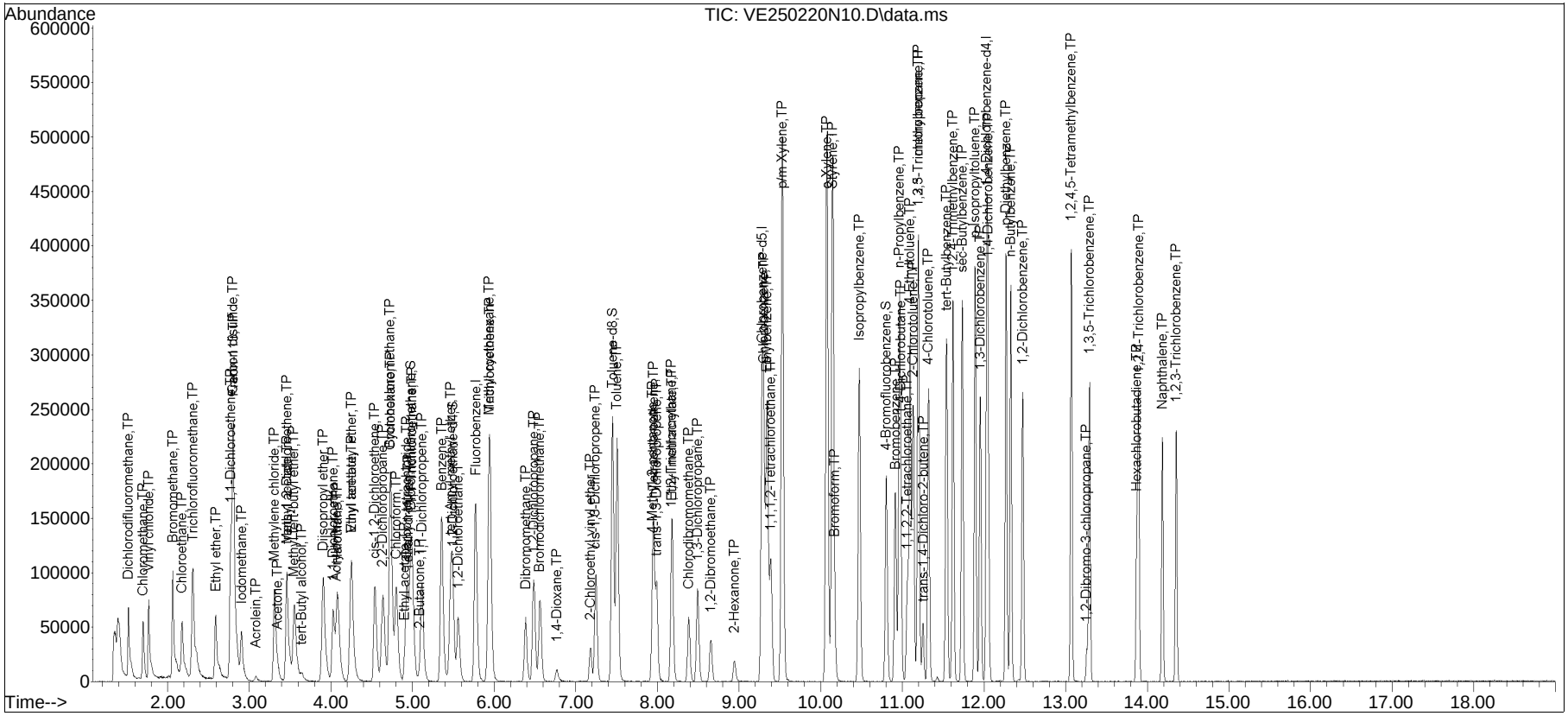
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N10.D
Acq On : 21 Feb 2025 2:10 am
Operator : ELAINE:PID
Sample : I8260STD10PPB
Misc : WG2033412,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 24 07:12:33 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox\VE250220N10.D•

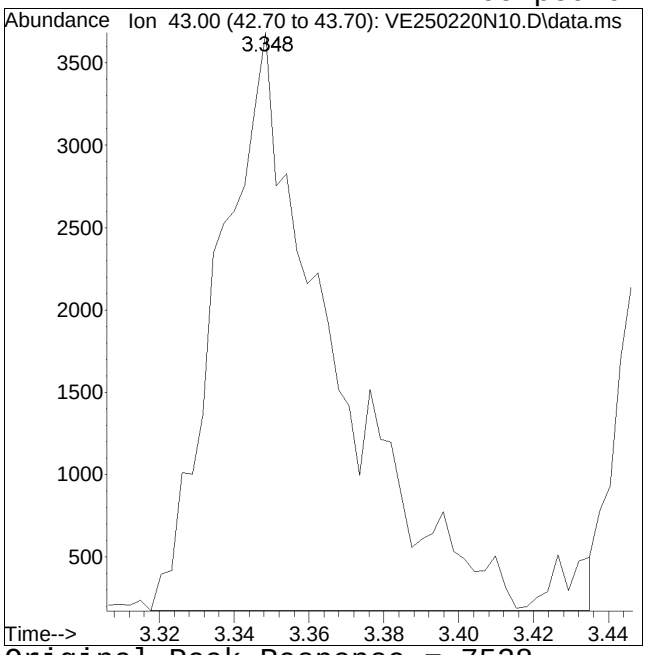


Manual Integration Report

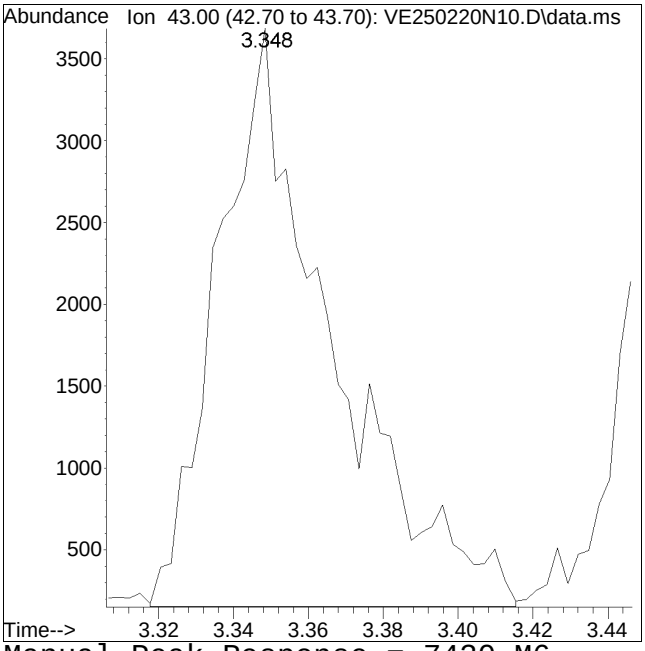
Data Path : K:\Elaine\2025\250220NICALQ
Data File : VE250220N10.D
Date Inj'd : 2/21/2025 2:10 am
Sample : I8260STD10PPB

Method : Elaine_250220N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 2/24/2025 7:12 am

Compound #17: Acetone



Original Peak Response = 7538



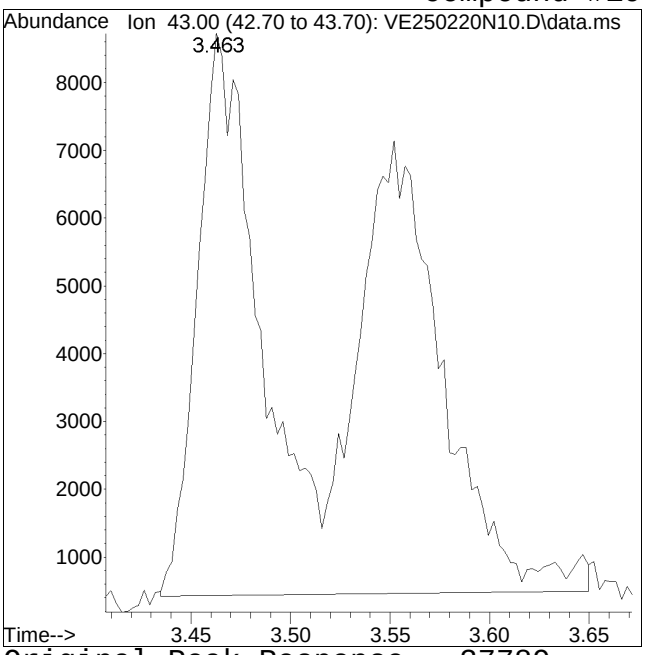
Manual Peak Response = 7430 M6

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

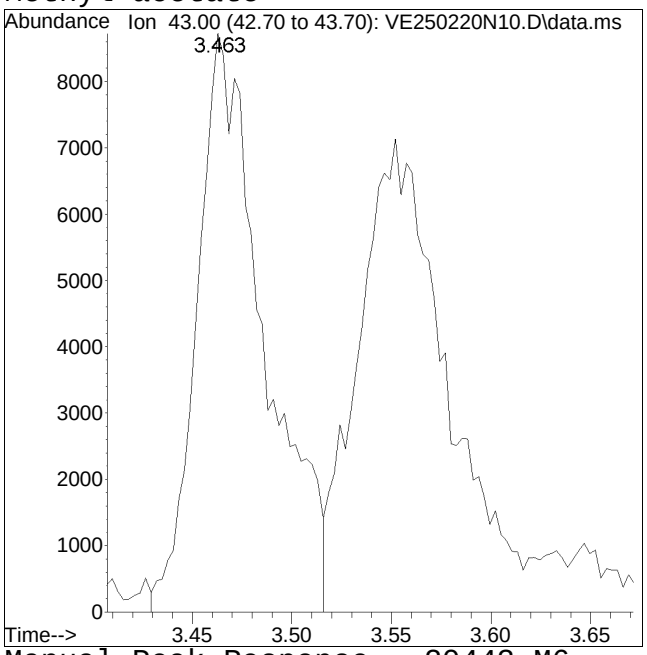
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N10.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 2:10 am Instrument : Elaine
Sample : I8260STD10PPB Quant Date : 2/24/2025 7:12 am

Compound #19: Methyl acetate



Original Peak Response = 37789



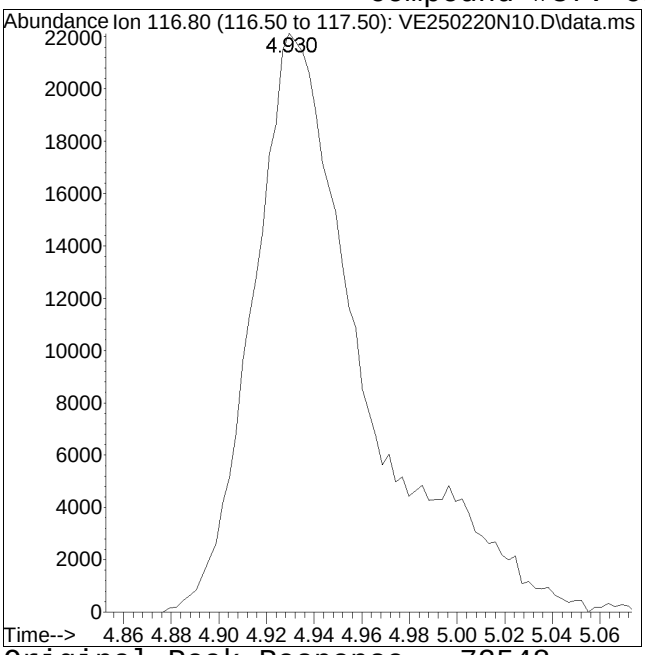
Manual Peak Response = 20443 M6

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

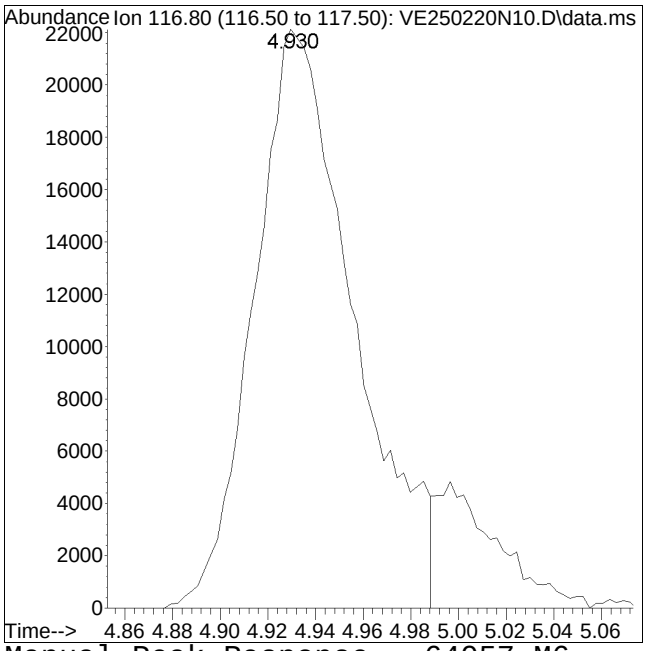
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N10.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 2:10 am Instrument : Elaine
Sample : I8260STD10PPB Quant Date : 2/24/2025 7:12 am

Compound #37: Carbon tetrachloride



Original Peak Response = 72548



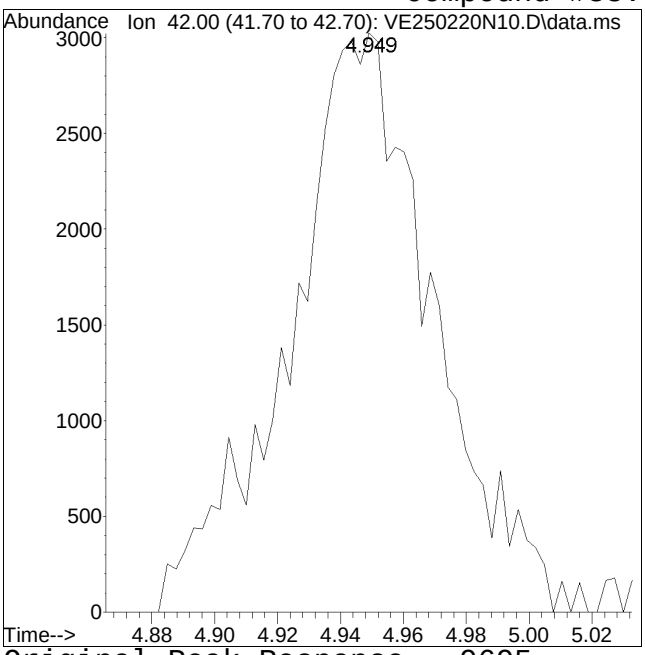
Manual Peak Response = 64057 M6

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

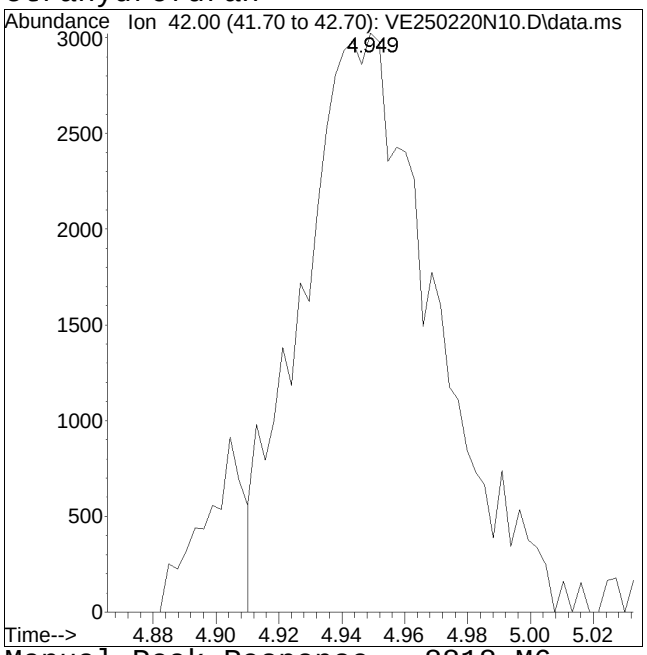
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N10.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 2:10 am Instrument : Elaine
Sample : I8260STD10PPB Quant Date : 2/24/2025 7:12 am

Compound #38: Tetrahydrofuran



Original Peak Response = 9695



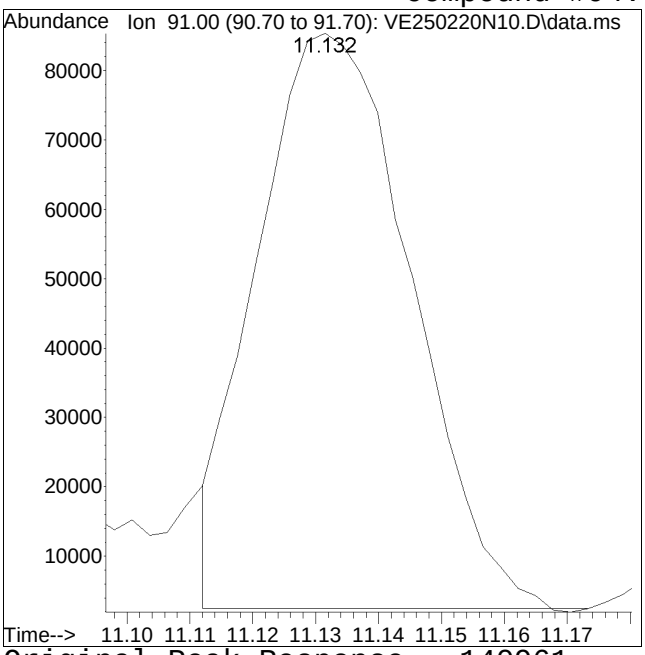
Manual Peak Response = 8818 M6

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

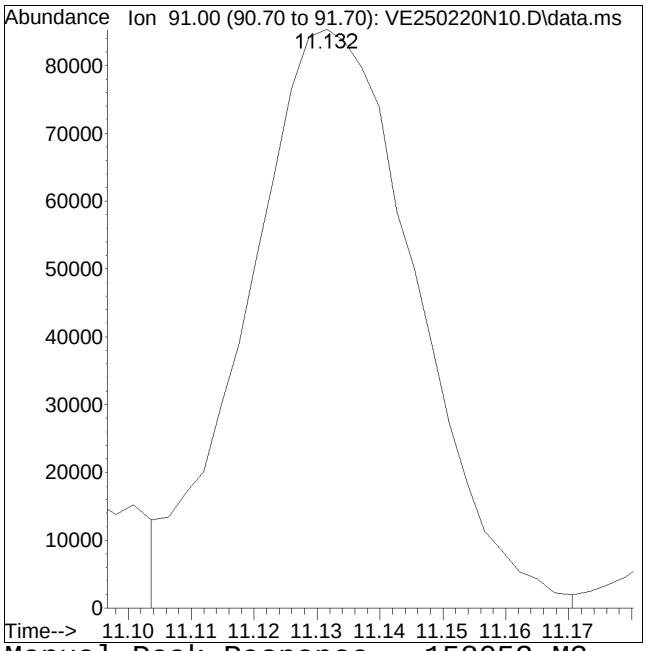
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N10.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 2:10 am Instrument : Elaine
Sample : I8260STD10PPB Quant Date : 2/24/2025 7:12 am

Compound #94: 2-Chlorotoluene



Original Peak Response = 140961



Manual Peak Response = 158053 M3

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

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N11.D
Acq On : 21 Feb 2025 2:34 am
Operator : ELAINE:PID
Sample : I8260STD30PPB
Misc : WG2033412,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 24 07:12:42 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.772	96	205683	10.000 ug/L	0.00
Standard Area 1 = 193689			Recovery = 106.19%		
63) Chlorobenzene-d5	9.283	117	152596	10.000 ug/L	0.00
Standard Area 1 = 149882			Recovery = 101.81%		
84) 1,4-Dichlorobenzene-d4	12.035	152	85348	10.000 ug/L	0.00
Standard Area 1 = 78717			Recovery = 108.42%		
System Monitoring Compounds					
39) Dibromofluoromethane	4.977	113	54802	9.763 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.63%		
47) 1,2-Dichloroethane-d4	5.493	65	59343M6	9.987 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.87%		
64) Toluene-d8	7.453	98	203220	10.066 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.66%		
88) 4-Bromofluorobenzene	10.805	95	69916	10.236 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.36%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.522	85	172447	32.586 ug/L	100
3) Chloromethane	1.703	50	146407	30.688 ug/L	99
4) Vinyl chloride	1.770	62	193115	31.170 ug/L	99
5) Bromomethane	2.066	94	165495	30.262 ug/L	98
6) Chloroethane	2.177	64	146196	30.820 ug/L	99
7) Trichlorofluoromethane	2.308	101	333045	31.180 ug/L	99
8) Ethyl ether	2.593	74	99939	31.404 ug/L	99
10) 1,1-Dichloroethene	2.774	96	183362	31.737 ug/L	100
11) Carbon disulfide	2.805	76	534438	32.819 ug/L	100
12) Freon-113	2.813	101	183553	35.624 ug/L	100
13) Iodomethane	2.908	142	174536	31.035 ug/L	99
14) Acrolein	3.083	56	13880	30.096 ug/L	90
15) Methylene chloride	3.309	84	141680	29.252 ug/L	98
17) Acetone	3.348	43	25167	30.584 ug/L	96
18) trans-1,2-Dichloroethene	3.457	96	137019	30.245 ug/L	99
19) Methyl acetate	3.463	43	59767M6	29.129 ug/L	
21) Methyl tert-butyl ether	3.555	73	332807	31.154 ug/L #	98
22) tert-Butyl alcohol	3.644	59	30910	158.929 ug/L #	100
24) Diisopropyl ether	3.906	45	355170	30.231 ug/L	99
25) 1,1-Dichloroethane	4.029	63	254590	30.410 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N11.D
Acq On : 21 Feb 2025 2:34 am
Operator : ELAINE:PID
Sample : I8260STD30PPB
Misc : WG2033412,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 24 07:12:42 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
26) Halothane	4.085	117	106219	31.712	ug/L		100
27) Acrylonitrile	4.071	53	31485	30.020	ug/L		98
28) Ethyl tert-butyl ether	4.249	59	342240	30.033	ug/L		97
29) Vinyl acetate	4.255	43	255938	30.761	ug/L		99
30) cis-1,2-Dichloroethene	4.539	96	159554	30.220	ug/L		99
31) 2,2-Dichloropropane	4.637	77	216998	31.262	ug/L	#	80
33) Bromochloromethane	4.726	128	72038	29.908	ug/L		98
34) Cyclohexane	4.732	56	253012	32.502	ug/L		97
35) Chloroform	4.804	83	249401	30.077	ug/L		99
36) Ethyl acetate	4.904	43	84380	30.896	ug/L		98
37) Carbon tetrachloride	4.935	117	200913M6	32.742	ug/L		
38) Tetrahydrofuran	4.943	42	25921M6	30.081	ug/L		
40) 1,1,1-Trichloroethane	4.999	97	219632	32.203	ug/L		98
42) 2-Butanone	5.080	43	36068	31.456	ug/L		92
43) 1,1-Dichloropropene	5.114	75	179010	32.304	ug/L		99
45) Benzene	5.359	78	559064	30.624	ug/L		99
46) tert-Amyl methyl ether	5.468	73	319023	29.587	ug/L		98
48) 1,2-Dichloroethane	5.560	62	172477	29.914	ug/L		100
51) Methyl cyclohexane	5.936	83	253699	31.288	ug/L		98
52) Trichloroethene	5.947	95	143818	32.464	ug/L		99
54) Dibromomethane	6.385	93	83191	30.014	ug/L		100
55) 1,2-Dichloropropane	6.486	63	138036	32.134	ug/L		99
57) 2-Chloroethyl vinyl ether	7.180	63	57444	31.957	ug/L		99
58) Bromodichloromethane	6.564	83	196051	31.758	ug/L		99
61) 1,4-Dioxane	6.764	88	15591	704.460	ug/L		99
62) cis-1,3-Dichloropropene	7.247	75	226553	33.900	ug/L		98
65) Toluene	7.506	92	346279	30.342	ug/L		97
66) 4-Methyl-2-pentanone	7.941	58	29821	30.639	ug/L		98
67) Tetrachloroethene	7.952	166	137347	31.284	ug/L		99
69) trans-1,3-Dichloropropene	7.989	75	184993	33.523	ug/L		100
71) Ethyl methacrylate	8.181	69	127411	32.693	ug/L		97
72) 1,1,2-Trichloroethane	8.173	83	88874	31.014	ug/L		98
73) Chlorodibromomethane	8.385	129	128030	32.101	ug/L		99
74) 1,3-Dichloropropane	8.496	76	188564	31.832	ug/L		100
75) 1,2-Dibromoethane	8.650	107	104979	32.004	ug/L		97
77) 2-Hexanone	8.940	43	51491	33.212	ug/L		99
78) Chlorobenzene	9.305	112	395089	30.432	ug/L		99
79) Ethylbenzene	9.344	91	716458	31.359	ug/L		100
80) 1,1,1,2-Tetrachloroethane	9.386	131	125073	30.903	ug/L		100
81) p/m Xylene	9.531	106	563660	60.304	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N11.D
Acq On : 21 Feb 2025 2:34 am
Operator : ELAINE:PID
Sample : I8260STD30PPB
Misc : WG2033412,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 24 07:12:42 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) o Xylene	10.075	106	555358	59.690	ug/L	100
83) Styrene	10.147	104	955496	60.290	ug/L	100
85) Bromoform	10.167	173	73152	31.634	ug/L	96
87) Isopropylbenzene	10.473	105	751644	31.927	ug/L	100
89) Bromobenzene	10.917	156	162571	30.957	ug/L	100
90) n-Propylbenzene	10.967	91	895574	31.561	ug/L	100
91) 1,4-Dichlorobutane	10.978	55	160505	30.965	ug/L	97
92) 1,1,2,2-Tetrachloroethane	11.062	83	128005	32.012	ug/L	98
93) 4-Ethyltoluene	11.095	105	743412	31.691	ug/L	99
94) 2-Chlorotoluene	11.131	91	520115M6	32.297	ug/L	
95) 1,3,5-Trimethylbenzene	11.196	105	654779	31.318	ug/L	99
96) 1,2,3-Trichloropropane	11.193	75	102523M6	30.304	ug/L	
97) trans-1,4-Dichloro-2-b...	11.249	53	36259M6	31.508	ug/L	
98) 4-Chlorotoluene	11.321	91	515948	30.876	ug/L	100
99) tert-Butylbenzene	11.541	119	547761	31.436	ug/L	99
102) 1,2,4-Trimethylbenzene	11.619	105	649332	31.725	ug/L	98
103) sec-Butylbenzene	11.734	105	841185	31.839	ug/L	99
104) p-Isopropyltoluene	11.893	119	730542	31.537	ug/L	100
105) 1,3-Dichlorobenzene	11.957	146	345999	30.276	ug/L	99
106) 1,4-Dichlorobenzene	12.049	146	346972	30.514	ug/L	99
107) p-Diethylbenzene	12.272	119	439353	31.998	ug/L	99
108) n-Butylbenzene	12.328	91	649851	32.705	ug/L	99
109) 1,2-Dichlorobenzene	12.476	146	323248	30.110	ug/L	99
110) 1,2,4,5-Tetramethylben...	13.070	119	665104	30.706	ug/L	100
111) 1,2-Dibromo-3-chloropr...	13.262	155	19507	35.007	ug/L	95
112) 1,3,5-Trichlorobenzene	13.293	180	241520	30.717	ug/L	100
113) Hexachlorobutadiene	13.873	225	67882	32.779	ug/L	98
114) 1,2,4-Trichlorobenzene	13.892	180	208232	30.761	ug/L	98
115) Naphthalene	14.185	128	497091	30.862	ug/L	100
116) 1,2,3-Trichlorobenzene	14.355	180	188075	30.301	ug/L	99

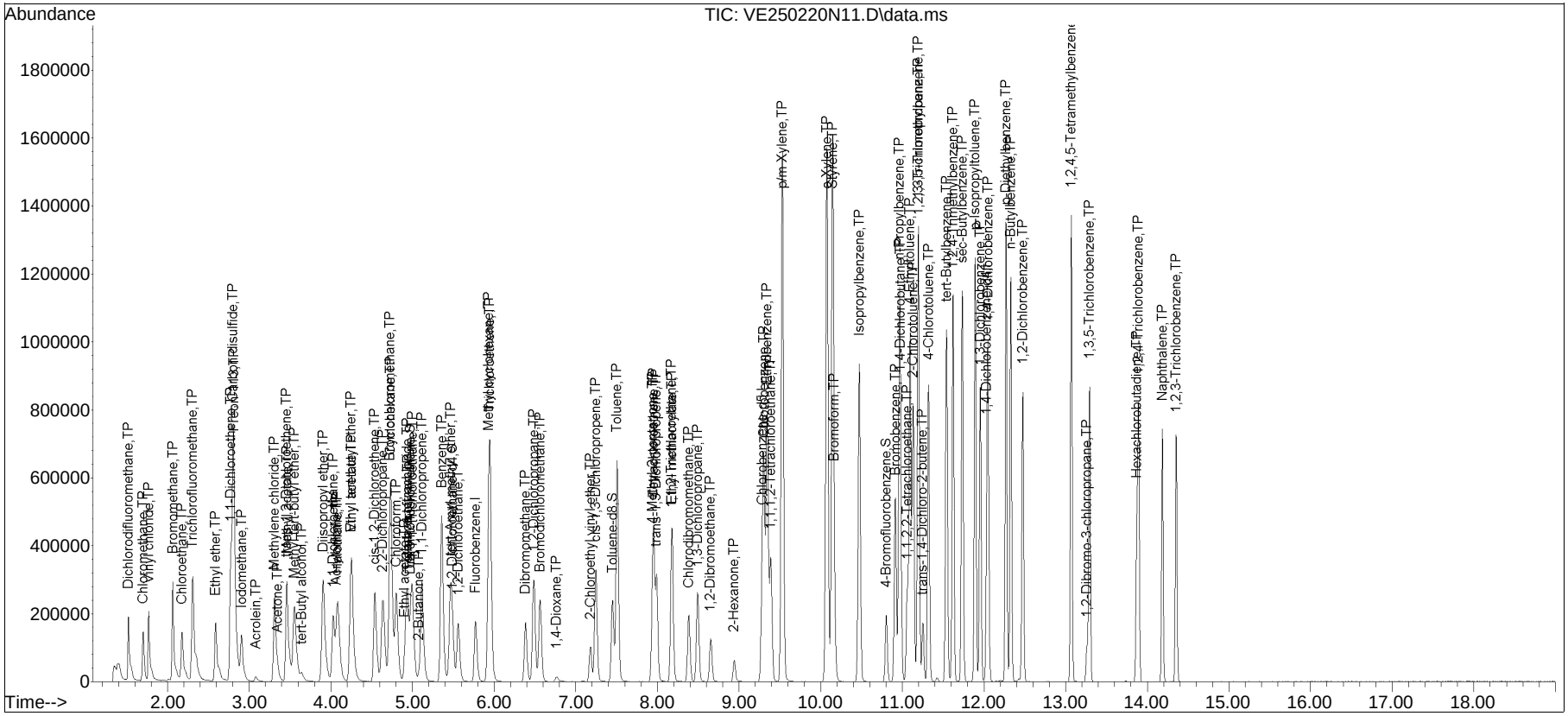
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N11.D
Acq On : 21 Feb 2025 2:34 am
Operator : ELAINE:PID
Sample : I8260STD30PPB
Misc : WG2033412,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 24 07:12:42 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox\VE250220N10.D•

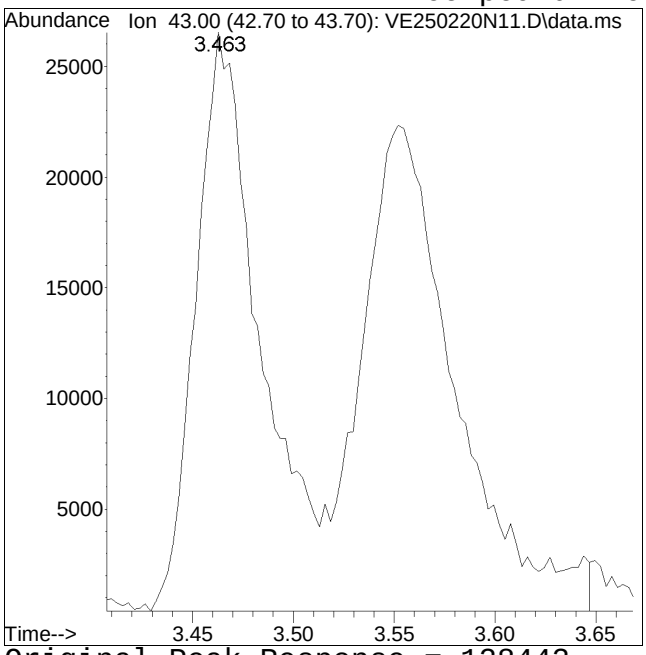


Manual Integration Report

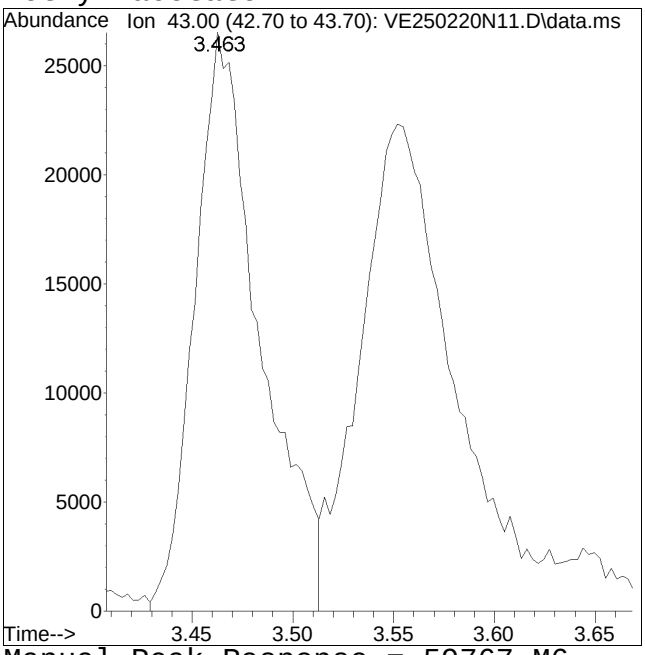
Data Path : K:\Elaine\2025\250220NICALQ
Data File : VE250220N11.D
Date Inj'd : 2/21/2025 2:34 am
Sample : I8260STD30PPB

Method : Elaine_250220N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 2/24/2025 7:12 am

Compound #19: Methyl acetate



Original Peak Response = 128442



Manual Peak Response = 59767 M6

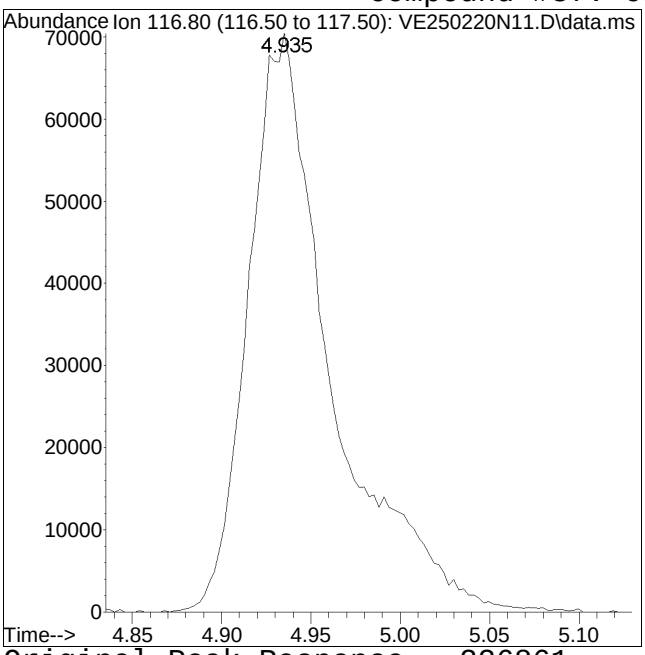
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

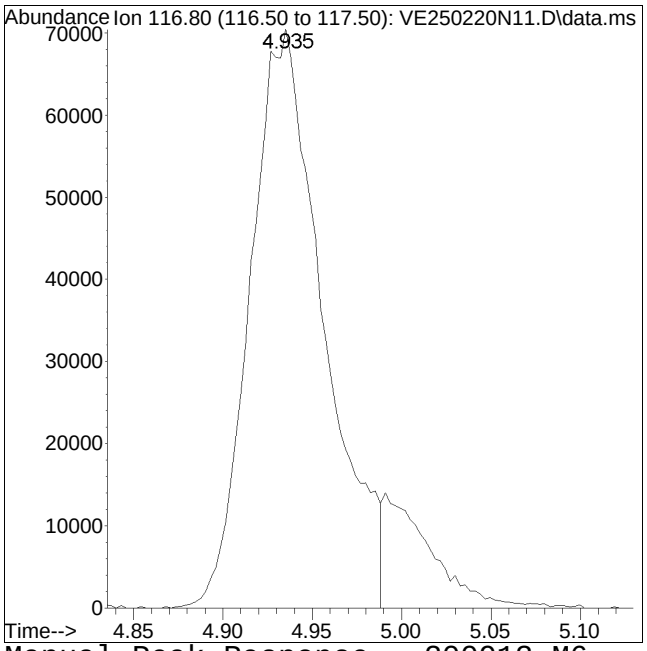
Data Path : K:\Elaine\2025\250220NICALQ
Data File : VE250220N11.D
Date Inj'd : 2/21/2025 2:34 am
Sample : I8260STD30PPB

Method : Elaine_250220N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 2/24/2025 7:12 am

Compound #37: Carbon tetrachloride



Original Peak Response = 226861



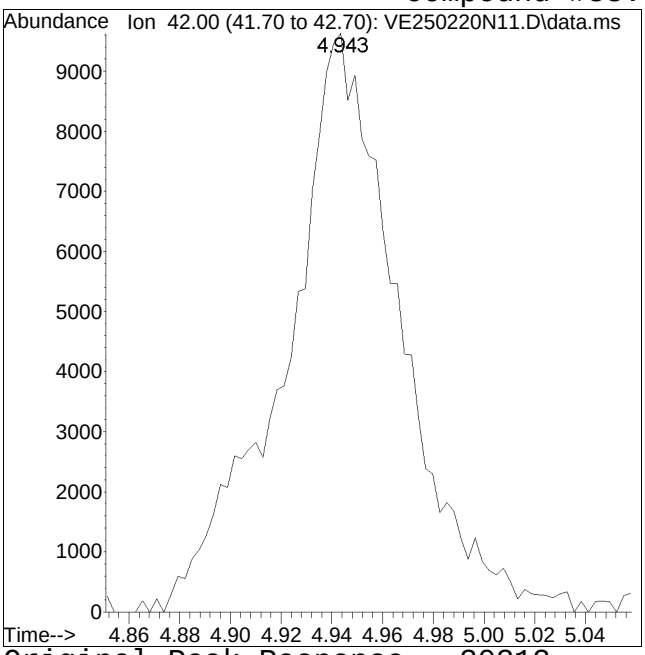
Manual Peak Response = 200913 M6

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

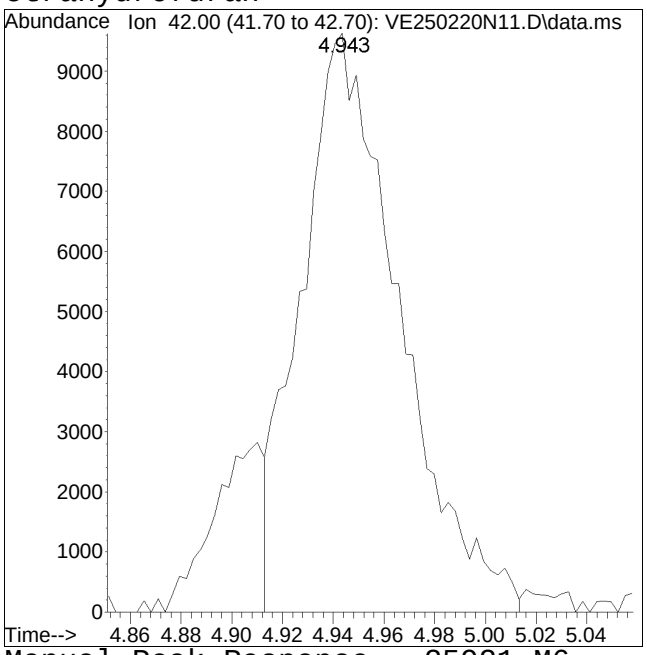
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N11.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 2:34 am Instrument : Elaine
Sample : I8260STD30PPB Quant Date : 2/24/2025 7:12 am

Compound #38: Tetrahydrofuran



Original Peak Response = 30312



Manual Peak Response = 25921 M6

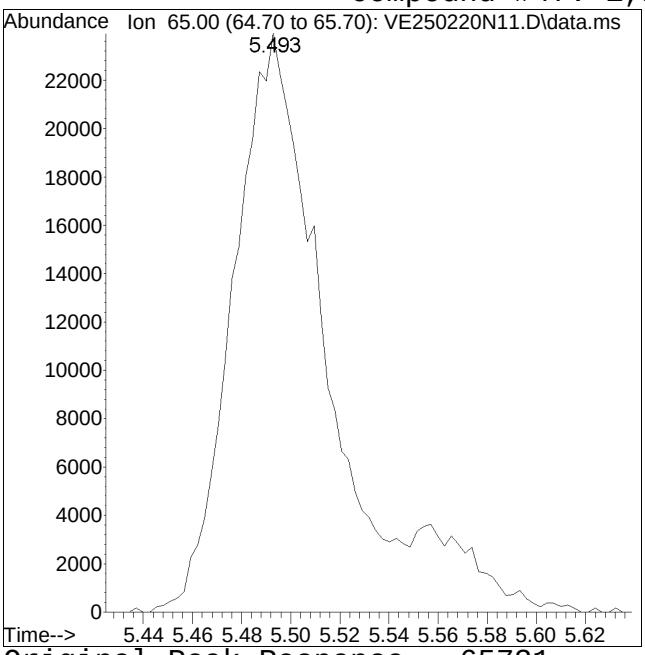
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

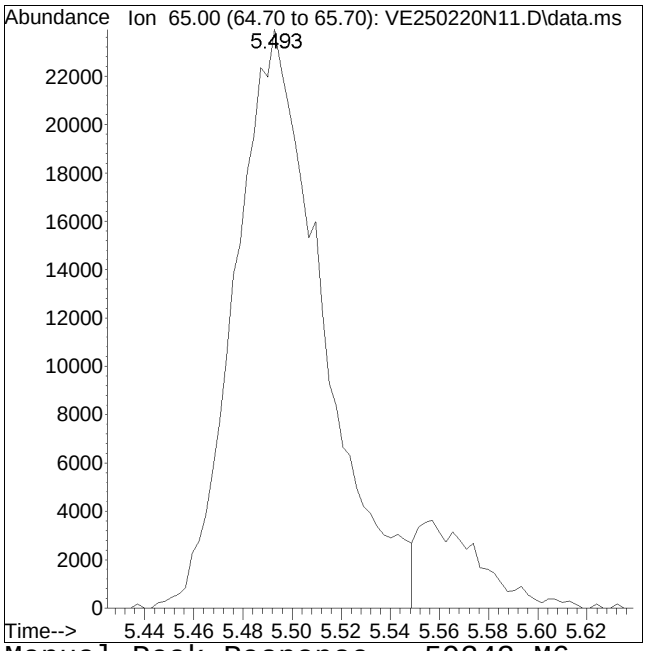
Data Path : K:\Elaine\2025\250220NICALQ
Data File : VE250220N11.D
Date Inj'd : 2/21/2025 2:34 am
Sample : I8260STD30PPB

Method : Elaine_250220N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 2/24/2025 7:12 am

Compound #47: 1,2-Dichloroethane-d4



Original Peak Response = 65731



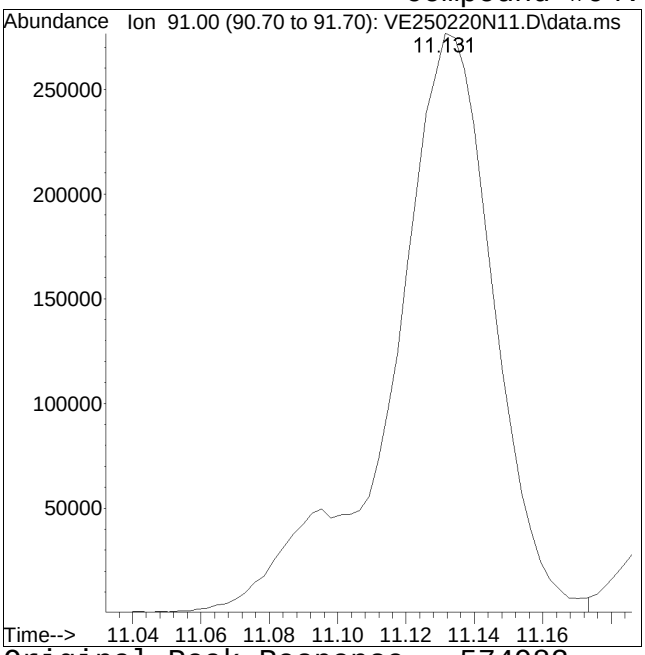
Manual Peak Response = 59343 M6

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

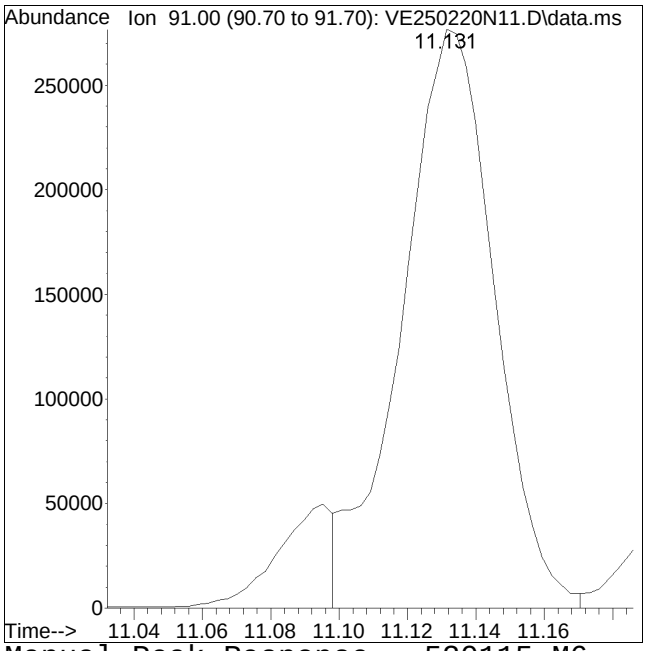
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N11.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 2:34 am Instrument : Elaine
Sample : I8260STD30PPB Quant Date : 2/24/2025 7:12 am

Compound #94: 2-Chlorotoluene



Original Peak Response = 574982



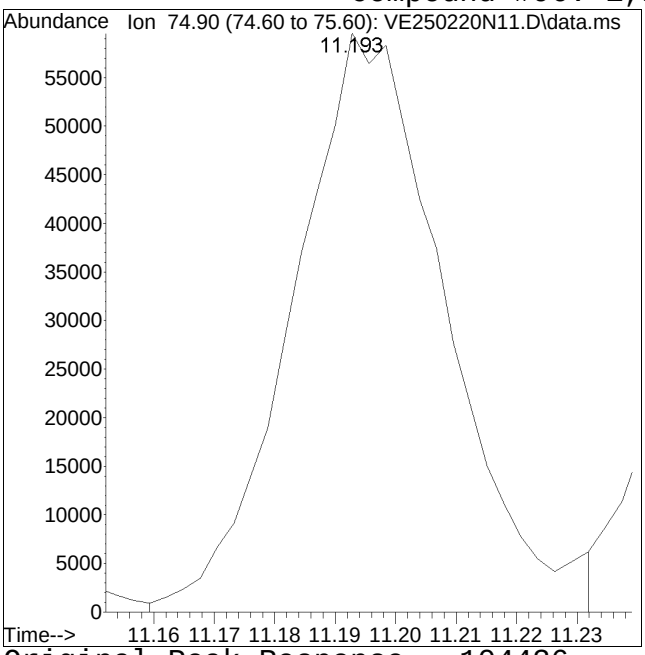
Manual Peak Response = 520115 M6

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

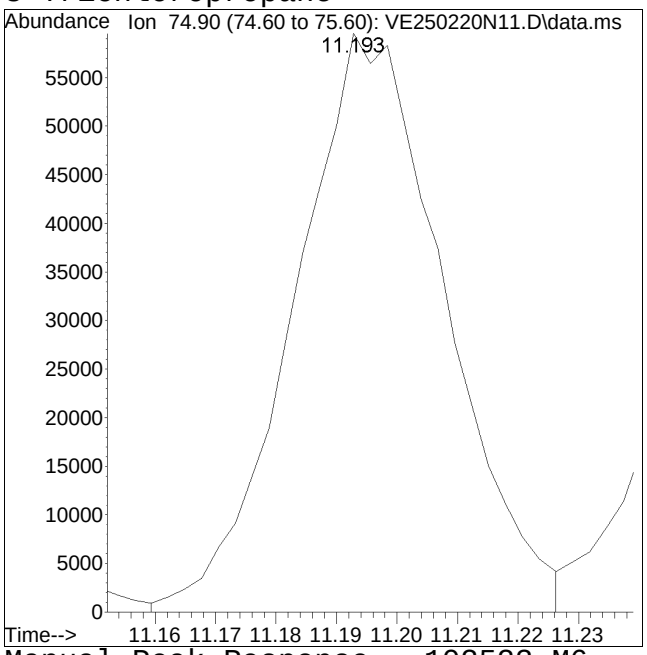
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N11.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 2:34 am Instrument : Elaine
Sample : I8260STD30PPB Quant Date : 2/24/2025 7:12 am

Compound #96: 1,2,3-Trichloropropane



Original Peak Response = 104436



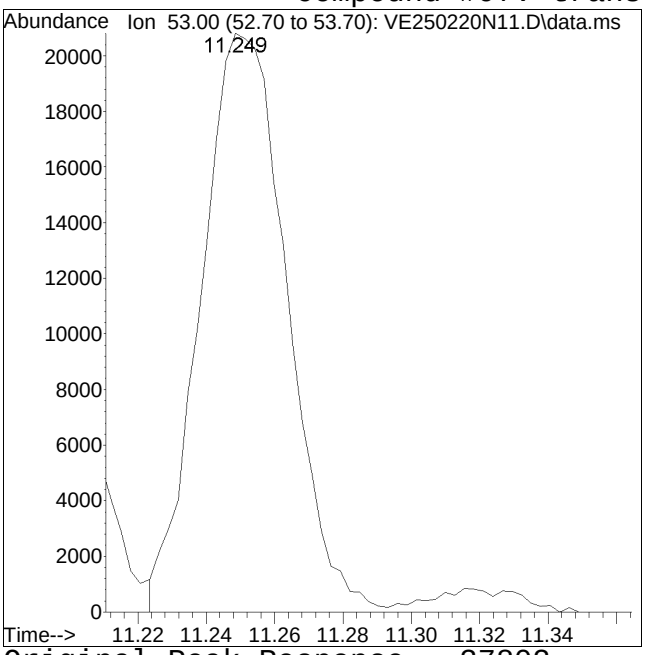
Manual Peak Response = 102523 M6

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

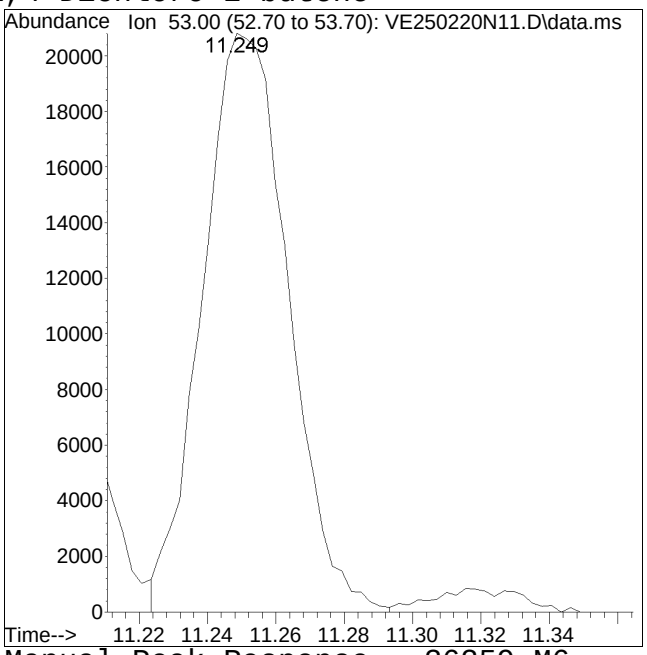
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N11.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 2:34 am Instrument : Elaine
Sample : I8260STD30PPB Quant Date : 2/24/2025 7:12 am

Compound #97: trans-1,4-Dichloro-2-butene



Original Peak Response = 37802



Manual Peak Response = 36259 M6

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

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N12.D
Acq On : 21 Feb 2025 2:58 am
Operator : ELAINE:PID
Sample : I8260STD80PPB
Misc : WG2033412,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 24 07:12:50 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.772	96	219631	10.000 ug/L	0.00
Standard Area 1 = 193689			Recovery = 113.39%		
63) Chlorobenzene-d5	9.285	117	160640	10.000 ug/L	0.00
Standard Area 1 = 149882			Recovery = 107.18%		
84) 1,4-Dichlorobenzene-d4	12.035	152	96080	10.000 ug/L	0.00
Standard Area 1 = 78717			Recovery = 122.06%		
System Monitoring Compounds					
39) Dibromofluoromethane	4.974	113	55908	9.327 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.27%		
47) 1,2-Dichloroethane-d4	5.490	65	58371M6	9.199 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 91.99%		
64) Toluene-d8	7.450	98	208464	9.808 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.08%		
88) 4-Bromofluorobenzene	10.802	95	73832	9.602 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.02%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.522	85	459713	81.352 ug/L	99
3) Chloromethane	1.700	50	390420	76.637 ug/L	100
4) Vinyl chloride	1.770	62	520515	78.680 ug/L	99
5) Bromomethane	2.066	94	464282	79.505 ug/L	97
6) Chloroethane	2.177	64	401065	79.180 ug/L	99
7) Trichlorofluoromethane	2.308	101	896511	78.603 ug/L	99
8) Ethyl ether	2.590	74	276460	81.356 ug/L	98
10) 1,1-Dichloroethene	2.777	96	493854	80.049 ug/L	99
11) Carbon disulfide	2.802	76	1408390	80.993 ug/L	100
12) Freon-113	2.810	101	467399	84.952 ug/L	100
13) Iodomethane	2.908	142	487739	81.220 ug/L	99
14) Acrolein	3.081	56	39924	81.071 ug/L	89
15) Methylene chloride	3.312	84	390740	75.552 ug/L	98
17) Acetone	3.348	43	69319	78.890 ug/L	98
18) trans-1,2-Dichloroethene	3.460	96	379188	78.386 ug/L	99
19) Methyl acetate	3.465	43	167259M6	76.340 ug/L	
21) Methyl tert-butyl ether	3.557	73	981475	86.041 ug/L #	97
22) tert-Butyl alcohol	3.641	59	89040	428.740 ug/L #	100
24) Diisopropyl ether	3.906	45	1053277	83.959 ug/L	100
25) 1,1-Dichloroethane	4.029	63	687632	76.919 ug/L	99

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N12.D
Acq On : 21 Feb 2025 2:58 am
Operator : ELAINE:PID
Sample : I8260STD80PPB
Misc : WG2033412,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 24 07:12:50 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
26) Halothane	4.087	117	292181	81.692	ug/L		99
27) Acrylonitrile	4.071	53	88019	78.594	ug/L		97
28) Ethyl tert-butyl ether	4.249	59	1047020	86.044	ug/L		98
29) Vinyl acetate	4.257	43	719642	80.999	ug/L		99
30) cis-1,2-Dichloroethene	4.539	96	438374	77.757	ug/L		99
31) 2,2-Dichloropropane	4.639	77	590813	79.711	ug/L	#	80
33) Bromochloromethane	4.729	128	199542	77.584	ug/L		96
34) Cyclohexane	4.731	56	680931	81.919	ug/L		97
35) Chloroform	4.801	83	677816	76.551	ug/L		97
36) Ethyl acetate	4.904	43	245169	84.068	ug/L		99
37) Carbon tetrachloride	4.932	117	552273M6	84.286	ug/L		
38) Tetrahydrofuran	4.938	42	69749M6	75.803	ug/L		
40) 1,1,1-Trichloroethane	4.996	97	589057	80.884	ug/L		99
42) 2-Butanone	5.080	43	103241	84.322	ug/L		91
43) 1,1-Dichloropropene	5.116	75	498082	84.174	ug/L		100
45) Benzene	5.356	78	1595682	81.857	ug/L		99
46) tert-Amyl methyl ether	5.468	73	957903	83.198	ug/L		98
48) 1,2-Dichloroethane	5.560	62	478911	77.787	ug/L		99
51) Methyl cyclohexane	5.942	83	736314	85.041	ug/L		99
52) Trichloroethene	5.950	95	420693	88.932	ug/L		100
54) Dibromomethane	6.385	93	232998	78.724	ug/L		99
55) 1,2-Dichloropropane	6.488	63	391502	85.350	ug/L		99
57) 2-Chloroethyl vinyl ether	7.177	63	175228	91.292	ug/L		98
58) Bromodichloromethane	6.561	83	546401	82.890	ug/L		100
61) 1,4-Dioxane	6.773	88	20059	848.782	ug/L		98
62) cis-1,3-Dichloropropene	7.244	75	659537	92.422	ug/L		99
65) Toluene	7.506	92	976238	81.258	ug/L		99
66) 4-Methyl-2-pentanone	7.938	58	84052	82.033	ug/L		100
67) Tetrachloroethene	7.952	166	385382	83.384	ug/L		99
69) trans-1,3-Dichloropropene	7.991	75	547278	94.208	ug/L		98
71) Ethyl methacrylate	8.181	69	353571	86.181	ug/L		92
72) 1,1,2-Trichloroethane	8.175	83	262401	86.984	ug/L		99
73) Chlorodibromomethane	8.385	129	385511	91.819	ug/L		99
74) 1,3-Dichloropropane	8.493	76	541957	86.909	ug/L		100
75) 1,2-Dibromoethane	8.655	107	304481	88.175	ug/L		96
77) 2-Hexanone	8.940	43	144319	88.426	ug/L		96
78) Chlorobenzene	9.302	112	1111159	81.303	ug/L		100
79) Ethylbenzene	9.344	91	2003073	83.284	ug/L		100
80) 1,1,1,2-Tetrachloroethane	9.391	131	373770	87.728	ug/L		100
81) p/m Xylene	9.531	106	1643489	167.026	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N12.D
Acq On : 21 Feb 2025 2:58 am
Operator : ELAINE:PID
Sample : I8260STD80PPB
Misc : WG2033412,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 24 07:12:50 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) o Xylene	10.077	106	1672728	170.782	ug/L	99
83) Styrene	10.147	104	2934436	175.886	ug/L	99
85) Bromoform	10.169	173	241575	92.797	ug/L	98
87) Isopropylbenzene	10.473	105	2209585	83.372	ug/L	100
89) Bromobenzene	10.914	156	472990	80.008	ug/L	100
90) n-Propylbenzene	10.967	91	2642821	82.732	ug/L	100
91) 1,4-Dichlorobutane	10.984	55	459299	78.711	ug/L	97
92) 1,1,2,2-Tetrachloroethane	11.062	83	362822	80.601	ug/L	99
93) 4-Ethyltoluene	11.098	105	2158271	81.729	ug/L	99
94) 2-Chlorotoluene	11.134	91	1452654M6	80.127	ug/L	
95) 1,3,5-Trimethylbenzene	11.198	105	1940135	82.432	ug/L	99
96) 1,2,3-Trichloropropane	11.198	75	305651	80.255	ug/L	98
97) trans-1,4-Dichloro-2-b...	11.254	53	105835	81.695	ug/L	89
98) 4-Chlorotoluene	11.324	91	1508785	80.204	ug/L	99
99) tert-Butylbenzene	11.541	119	1628428	83.016	ug/L	99
102) 1,2,4-Trimethylbenzene	11.622	105	1970352	85.514	ug/L	98
103) sec-Butylbenzene	11.734	105	2492168	83.793	ug/L	100
104) p-Isopropyltoluene	11.893	119	2206039	84.597	ug/L	100
105) 1,3-Dichlorobenzene	11.957	146	1038886	80.752	ug/L	99
106) 1,4-Dichlorobenzene	12.049	146	1032914	80.693	ug/L	99
107) p-Diethylbenzene	12.272	119	1327428	85.878	ug/L	98
108) n-Butylbenzene	12.331	91	1927019	86.149	ug/L	99
109) 1,2-Dichlorobenzene	12.476	146	967189	80.029	ug/L	100
110) 1,2,4,5-Tetramethylben...	13.070	119	2098819	86.074	ug/L	100
111) 1,2-Dibromo-3-chloropr...	13.259	155	57763	92.081	ug/L	91
112) 1,3,5-Trichlorobenzene	13.293	180	717513	81.061	ug/L	100
113) Hexachlorobutadiene	13.875	225	188934	81.043	ug/L	99
114) 1,2,4-Trichlorobenzene	13.895	180	614372	80.620	ug/L	100
115) Naphthalene	14.185	128	1504293	82.962	ug/L	100
116) 1,2,3-Trichlorobenzene	14.355	180	567130	81.166	ug/L	99

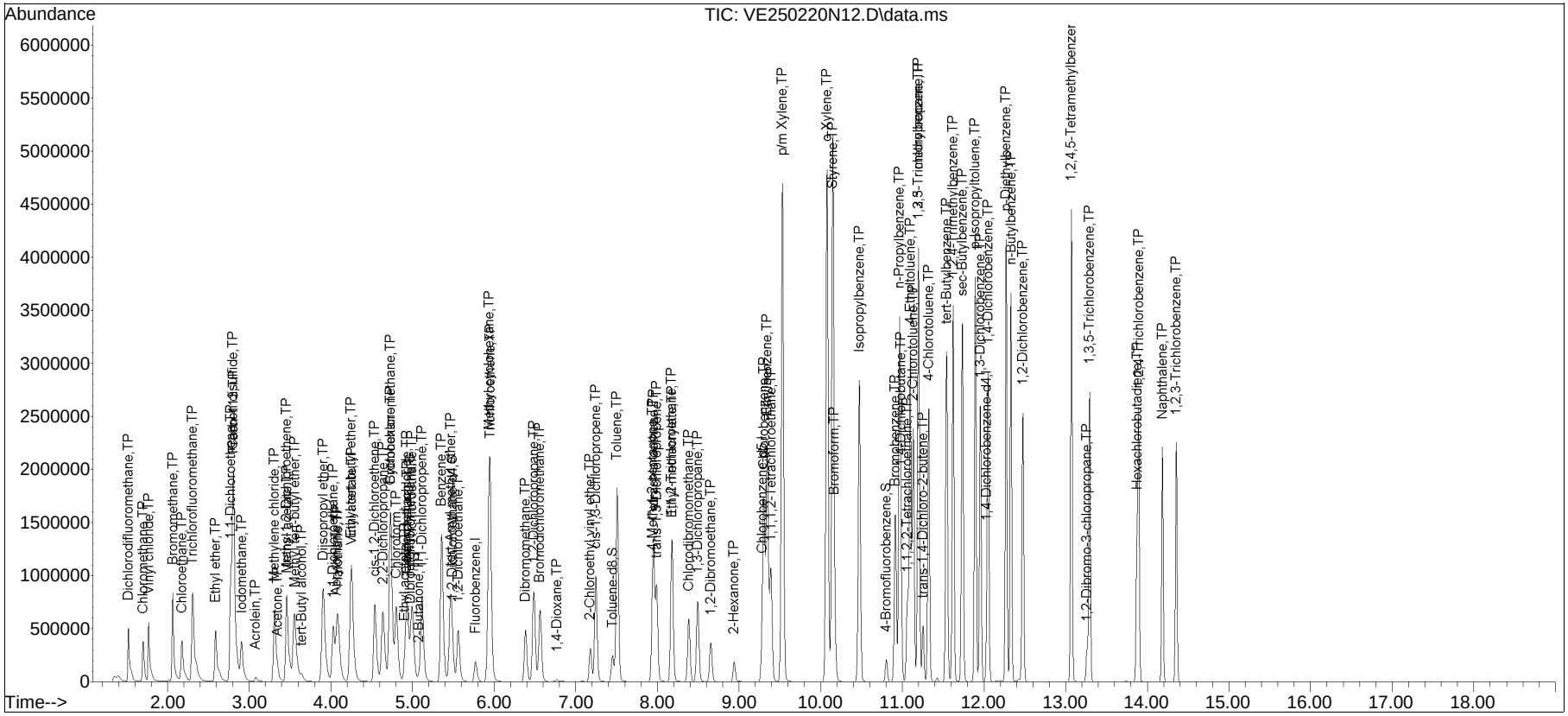
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N12.D
Acq On : 21 Feb 2025 2:58 am
Operator : ELAINE:PID
Sample : I8260STD80PPB
Misc : WG2033412,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 24 07:12:50 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox\VE250220N10.D•

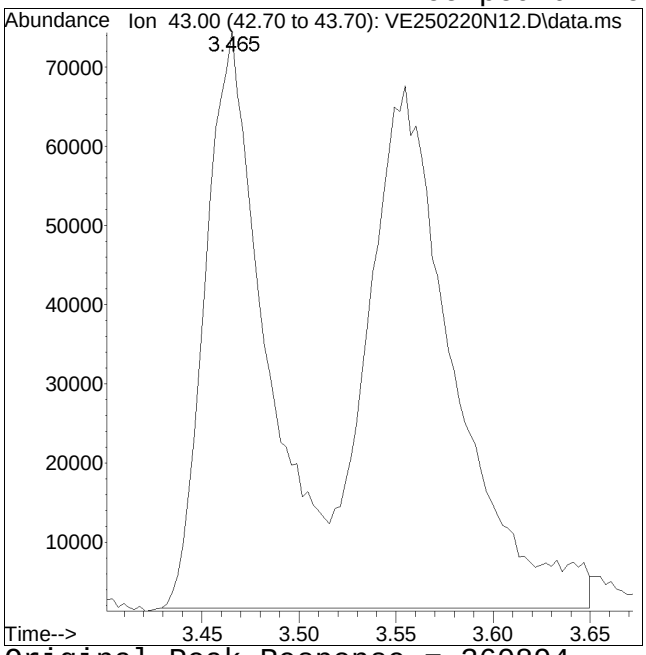


Manual Integration Report

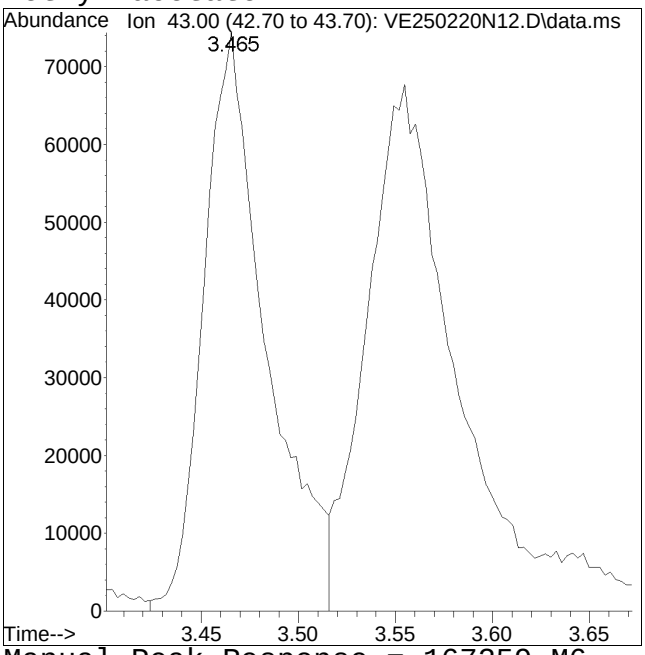
Data Path : K:\Elaine\2025\250220NICALQ
Data File : VE250220N12.D
Date Inj'd : 2/21/2025 2:58 am
Sample : I8260STD80PPB

Method : Elaine_250220N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 2/24/2025 7:12 am

Compound #19: Methyl acetate



Original Peak Response = 360894



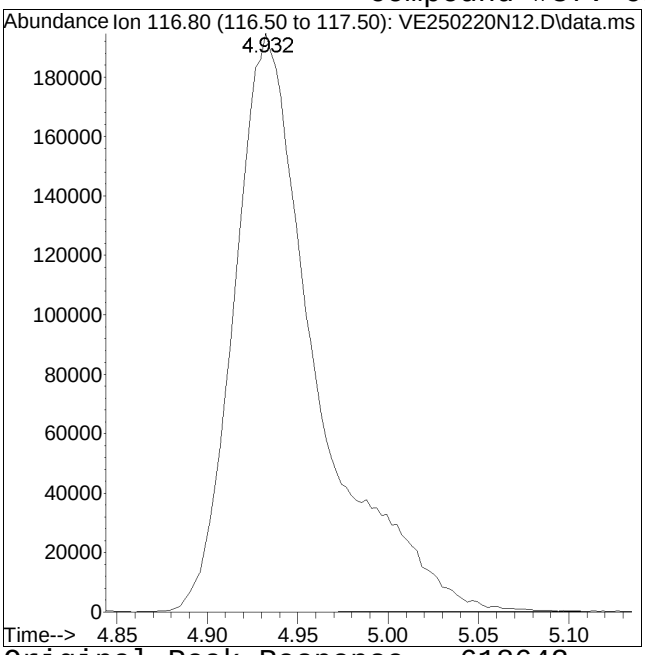
Manual Peak Response = 167259 M6

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

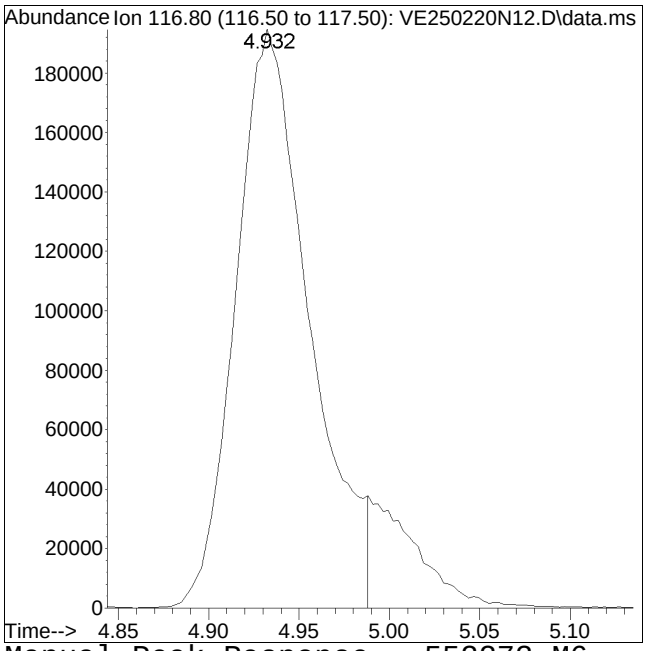
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N12.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 2:58 am Instrument : Elaine
Sample : I8260STD80PPB Quant Date : 2/24/2025 7:12 am

Compound #37: Carbon tetrachloride



Original Peak Response = 618642



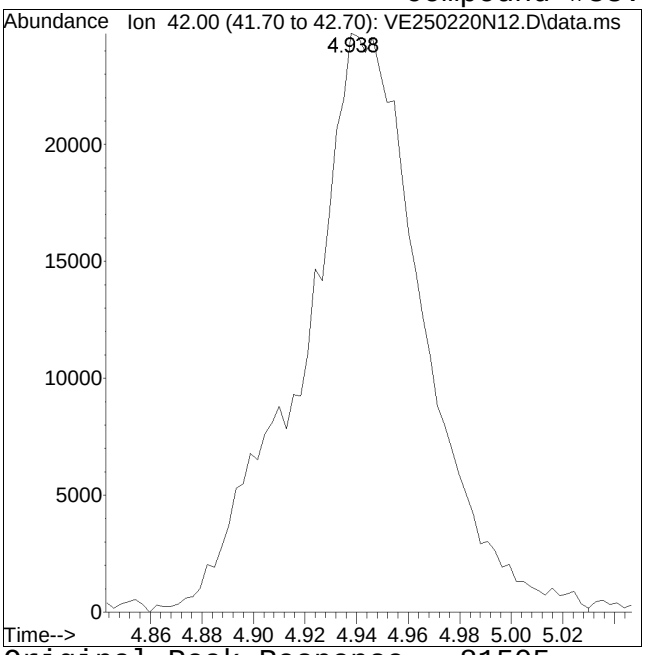
Manual Peak Response = 552273 M6

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

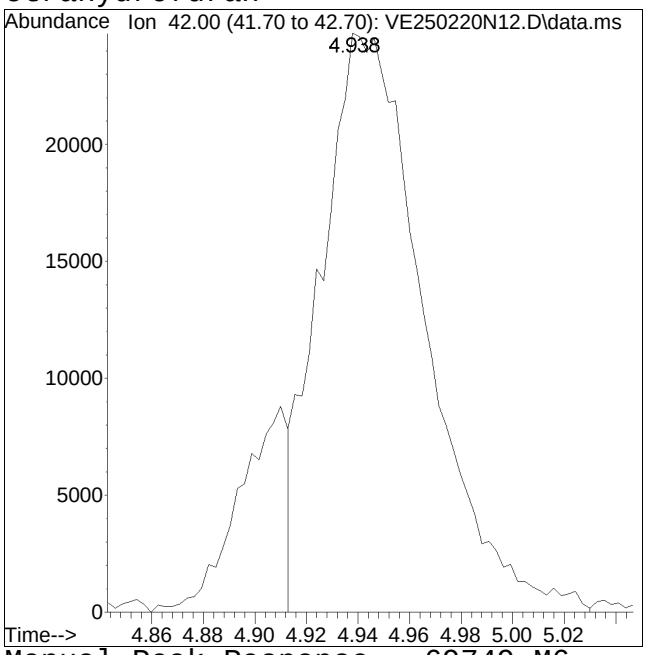
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N12.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 2:58 am Instrument : Elaine
Sample : I8260STD80PPB Quant Date : 2/24/2025 7:12 am

Compound #38: Tetrahydrofuran



Original Peak Response = 81505



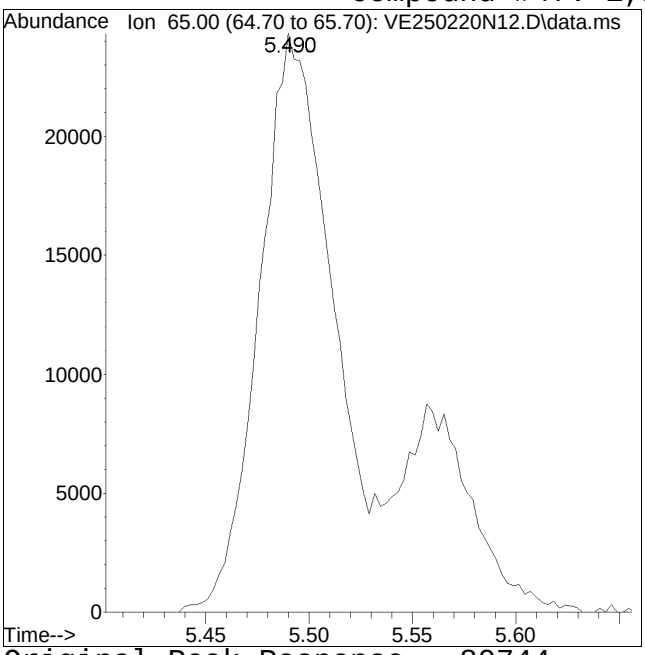
Manual Peak Response = 69749 M6

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

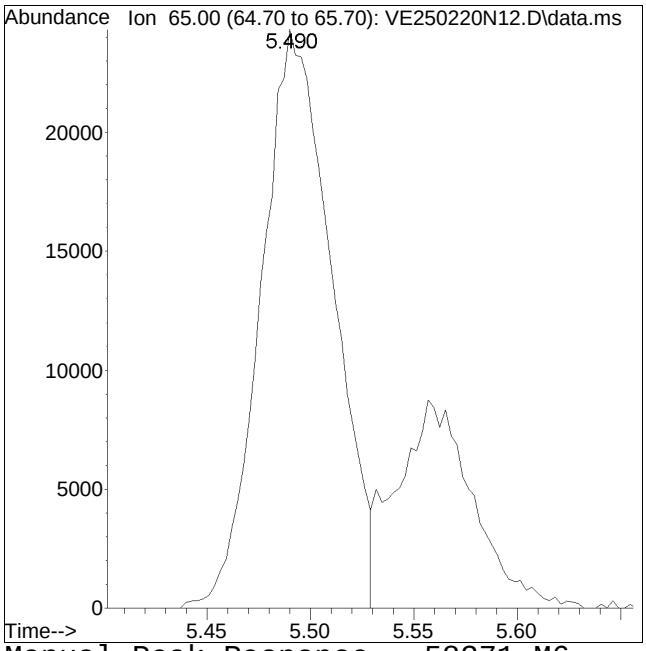
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N12.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 2:58 am Instrument : Elaine
Sample : I8260STD80PPB Quant Date : 2/24/2025 7:12 am

Compound #47: 1,2-Dichloroethane-d4



Original Peak Response = 80744



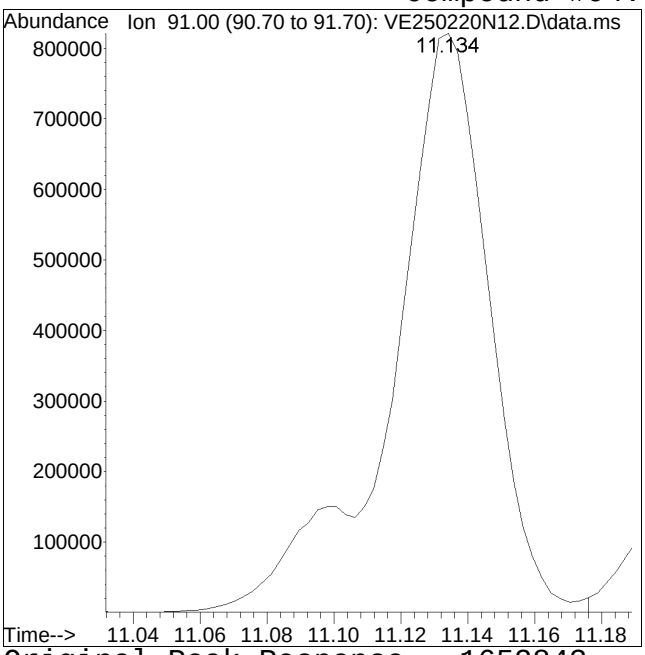
Manual Peak Response = 58371 M6

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

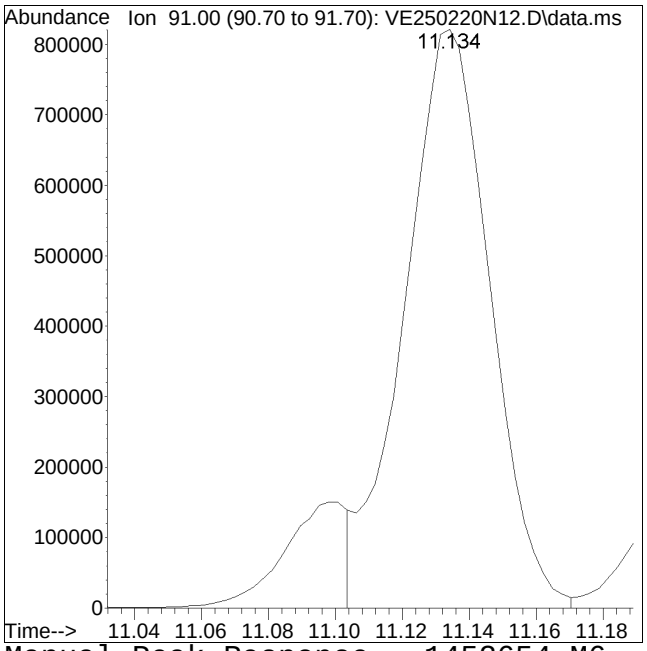
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N12.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 2:58 am Instrument : Elaine
Sample : I8260STD80PPB Quant Date : 2/24/2025 7:12 am

Compound #94: 2-Chlorotoluene



Original Peak Response = 1652843



Manual Peak Response = 1452654 M6

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

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N13.D
Acq On : 21 Feb 2025 3:22 am
Operator : ELAINE:PID
Sample : I8260STD120PPB
Misc : WG2033412,ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 24 07:12:58 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.772	96	233074	10.000	ug/L	0.00
Standard Area 1 = 193689			Recovery = 120.33%			
63) Chlorobenzene-d5	9.285	117	170200	10.000	ug/L	0.00
Standard Area 1 = 149882			Recovery = 113.56%			
84) 1,4-Dichlorobenzene-d4	12.035	152	102578	10.000	ug/L	0.00
Standard Area 1 = 78717			Recovery = 130.31%			
System Monitoring Compounds						
39) Dibromofluoromethane	4.980	113	57619	9.058	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 90.58%			
47) 1,2-Dichloroethane-d4	5.490	65	64141M6	9.526	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.26%			
64) Toluene-d8	7.450	98	216066	9.595	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.95%			
88) 4-Bromofluorobenzene	10.805	95	78096	9.513	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.13%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.522	85	710401	118.463	ug/L	100
3) Chloromethane	1.700	50	595893	110.223	ug/L	100
4) Vinyl chloride	1.770	62	814003	115.946	ug/L	100
5) Bromomethane	2.063	94	733108	118.299	ug/L	97
6) Chloroethane	2.177	64	618287	115.024	ug/L	99
7) Trichlorofluoromethane	2.308	101	1413780	116.806	ug/L	100
8) Ethyl ether	2.587	74	432576	119.956	ug/L	98
10) 1,1-Dichloroethene	2.774	96	757809	115.749	ug/L	98
11) Carbon disulfide	2.802	76	2087312	113.113	ug/L	99
12) Freon-113	2.810	101	678582	116.222	ug/L	99
13) Iodomethane	2.908	142	765139	120.064	ug/L	99
14) Acrolein	3.081	56	63956	122.380	ug/L	92
15) Methylene chloride	3.312	84	611045	111.335	ug/L	97
17) Acetone	3.345	43	100477	107.754	ug/L	100
18) trans-1,2-Dichloroethene	3.457	96	590992	115.123	ug/L	99
19) Methyl acetate	3.463	43	261552M6	112.492	ug/L	
21) Methyl tert-butyl ether	3.552	73	1542139	127.394	ug/L #	96
22) tert-Butyl alcohol	3.647	59	138141	626.803	ug/L #	100
24) Diisopropyl ether	3.906	45	1664719	125.044	ug/L	99
25) 1,1-Dichloroethane	4.032	63	1057248	111.443	ug/L	99

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N13.D
Acq On : 21 Feb 2025 3:22 am
Operator : ELAINE:PID
Sample : I8260STD120PPB
Misc : WG2033412,ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 24 07:12:58 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
26) Halothane	4.084	117	452409	119.196	ug/L		99
27) Acrylonitrile	4.071	53	133281	112.145	ug/L		97
28) Ethyl tert-butyl ether	4.249	59	1686401	130.595	ug/L		97
29) Vinyl acetate	4.257	43	1241093	131.634	ug/L		99
30) cis-1,2-Dichloroethene	4.539	96	680570	113.754	ug/L		99
31) 2,2-Dichloropropane	4.637	77	900142	114.440	ug/L	#	79
33) Bromochloromethane	4.726	128	309639	113.447	ug/L		95
34) Cyclohexane	4.734	56	1059768	120.141	ug/L		96
35) Chloroform	4.801	83	1040009	110.681	ug/L		98
36) Ethyl acetate	4.907	43	381396	123.237	ug/L		99
37) Carbon tetrachloride	4.932	117	850157M6	122.265	ug/L		
38) Tetrahydrofuran	4.943	42	110151M6	112.807	ug/L		
40) 1,1,1-Trichloroethane	4.996	97	910512	117.812	ug/L		99
42) 2-Butanone	5.086	43	152835	117.629	ug/L		94
43) 1,1-Dichloropropene	5.116	75	770231	122.659	ug/L		99
45) Benzene	5.356	78	2521671	121.898	ug/L		99
46) tert-Amyl methyl ether	5.470	73	1539783	126.023	ug/L		98
48) 1,2-Dichloroethane	5.560	62	750307	114.840	ug/L		99
51) Methyl cyclohexane	5.942	83	1197746	130.355	ug/L		99
52) Trichloroethene	5.950	95	661129	131.697	ug/L		100
54) Dibromomethane	6.382	93	362952	115.560	ug/L		99
55) 1,2-Dichloropropane	6.486	63	606009	124.494	ug/L		99
57) 2-Chloroethyl vinyl ether	7.183	63	275681	135.344	ug/L		98
58) Bromodichloromethane	6.561	83	849514	121.439	ug/L		99
61) 1,4-Dioxane	6.767	88	29860	1190.629	ug/L		98
62) cis-1,3-Dichloropropene	7.247	75	1033627	136.490	ug/L		99
65) Toluene	7.509	92	1538314	120.850	ug/L		98
66) 4-Methyl-2-pentanone	7.938	58	133374	122.859	ug/L		98
67) Tetrachloroethene	7.952	166	613402	125.265	ug/L		99
69) trans-1,3-Dichloropropene	7.991	75	858428	139.469	ug/L		99
71) Ethyl methacrylate	8.181	69	565972	130.204	ug/L		93
72) 1,1,2-Trichloroethane	8.175	83	414481	129.680	ug/L		98
73) Chlorodibromomethane	8.387	129	612351	137.655	ug/L		98
74) 1,3-Dichloropropane	8.493	76	845842	128.021	ug/L		100
75) 1,2-Dibromoethane	8.652	107	478575	130.807	ug/L		97
77) 2-Hexanone	8.940	43	221015	127.813	ug/L		97
78) Chlorobenzene	9.305	112	1763843	121.810	ug/L		99
79) Ethylbenzene	9.347	91	3175049	124.597	ug/L		100
80) 1,1,1,2-Tetrachloroethane	9.391	131	597979	132.468	ug/L		100
81) p/m Xylene	9.533	106	2715770	260.497	ug/L		99

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N13.D
Acq On : 21 Feb 2025 3:22 am
Operator : ELAINE:PID
Sample : I8260STD120PPB
Misc : WG2033412,ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 24 07:12:58 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) o Xylene	10.080	106	2770775	267.001	ug/L	100
83) Styrene	10.150	104	4828195	273.140	ug/L	100
85) Bromoform	10.172	173	400440	144.078	ug/L	99
87) Isopropylbenzene	10.473	105	3560457	125.833	ug/L	100
89) Bromobenzene	10.917	156	765326	121.256	ug/L	100
90) n-Propylbenzene	10.970	91	4294928	125.934	ug/L	100
91) 1,4-Dichlorobutane	10.984	55	724559	116.303	ug/L	96
92) 1,1,2,2-Tetrachloroethane	11.062	83	585515	121.833	ug/L	99
93) 4-Ethyltoluene	11.098	105	3496879	124.031	ug/L	99
94) 2-Chlorotoluene	11.134	91	2379792M6	122.952	ug/L	
95) 1,3,5-Trimethylbenzene	11.201	105	3178355	126.486	ug/L	99
96) 1,2,3-Trichloropropane	11.198	75	494176	121.536	ug/L	96
97) trans-1,4-Dichloro-2-b...	11.254	53	168300	121.683	ug/L	89
98) 4-Chlorotoluene	11.324	91	2464651	122.717	ug/L	98
99) tert-Butylbenzene	11.544	119	2654715	126.763	ug/L	99
102) 1,2,4-Trimethylbenzene	11.622	105	3167761	128.772	ug/L	97
103) sec-Butylbenzene	11.736	105	4034970	127.073	ug/L	100
104) p-Isopropyltoluene	11.895	119	3558274	127.808	ug/L	100
105) 1,3-Dichlorobenzene	11.957	146	1676811	122.080	ug/L	99
106) 1,4-Dichlorobenzene	12.052	146	1668222	122.068	ug/L	99
107) p-Diethylbenzene	12.275	119	2172827	131.666	ug/L	99
108) n-Butylbenzene	12.330	91	3046126	127.553	ug/L	99
109) 1,2-Dichlorobenzene	12.478	146	1551901	120.277	ug/L	100
110) 1,2,4,5-Tetramethylben...	13.072	119	3601242	138.333	ug/L	100
111) 1,2-Dibromo-3-chloropr...	13.262	155	95361	142.386	ug/L	94
112) 1,3,5-Trichlorobenzene	13.295	180	1222670	129.381	ug/L	99
113) Hexachlorobutadiene	13.873	225	315326	126.690	ug/L	99
114) 1,2,4-Trichlorobenzene	13.895	180	1018418	125.175	ug/L	99
115) Naphthalene	14.188	128	2406468	124.310	ug/L	100
116) 1,2,3-Trichlorobenzene	14.355	180	919005	123.194	ug/L	98

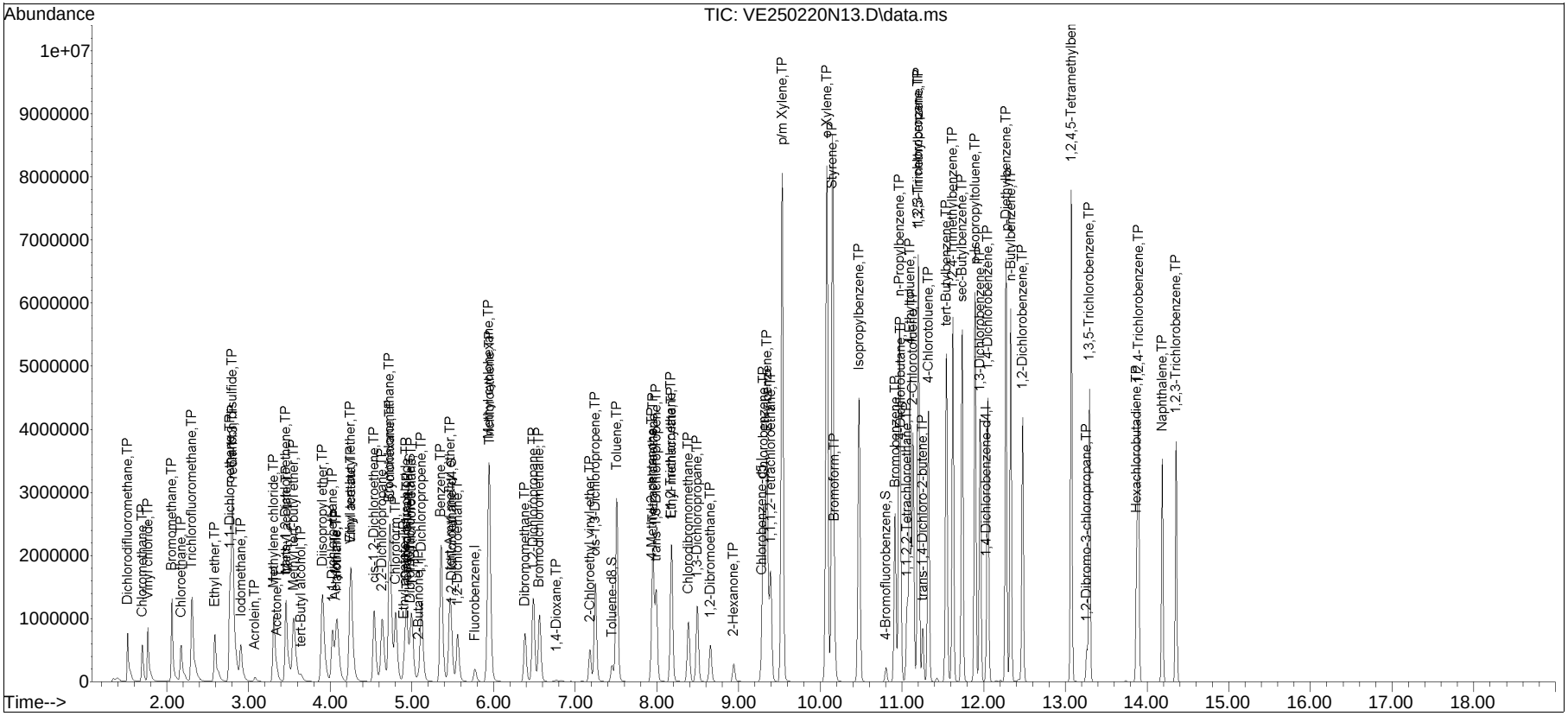
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N13.D
Acq On : 21 Feb 2025 3:22 am
Operator : ELAINE:PID
Sample : I8260STD120PPB
Misc : WG2033412,ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 24 07:12:58 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

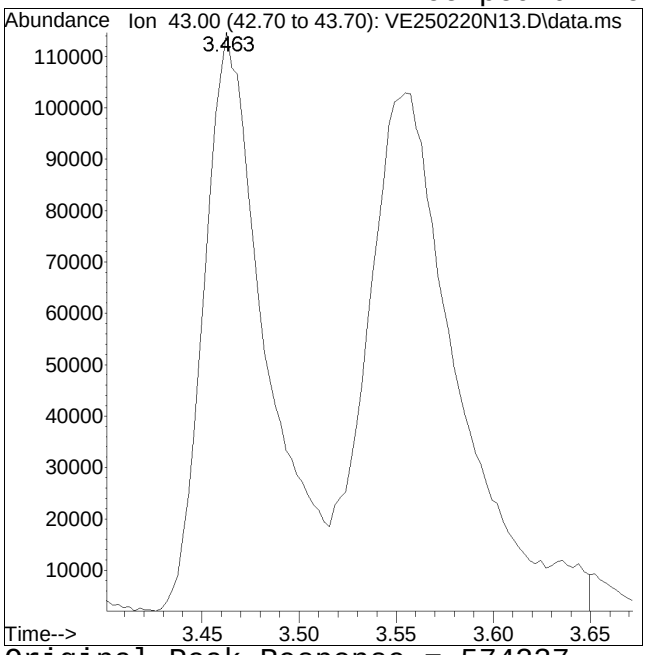
Sub List : 8260-Curve - Megamix plus Diox\VE250220N10.D•



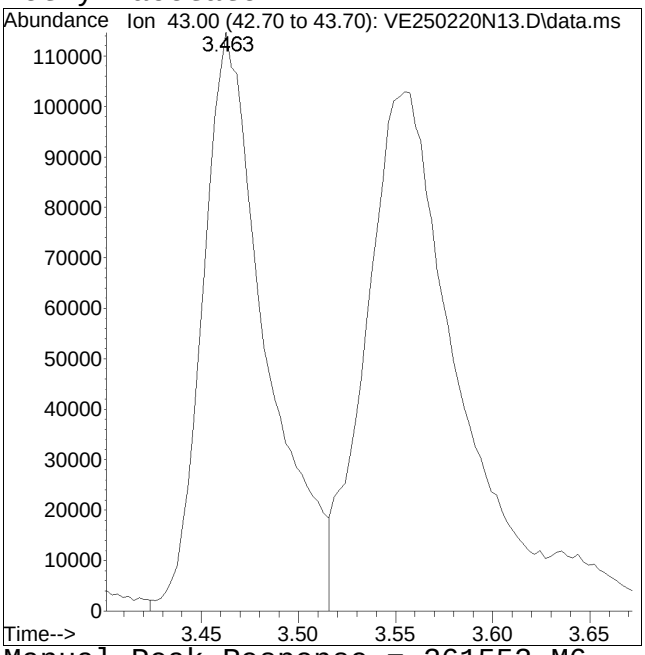
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N13.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 3:22 am Instrument : Elaine
Sample : I8260STD120PPB Quant Date : 2/24/2025 7:12 am

Compound #19: Methyl acetate



Original Peak Response = 574237



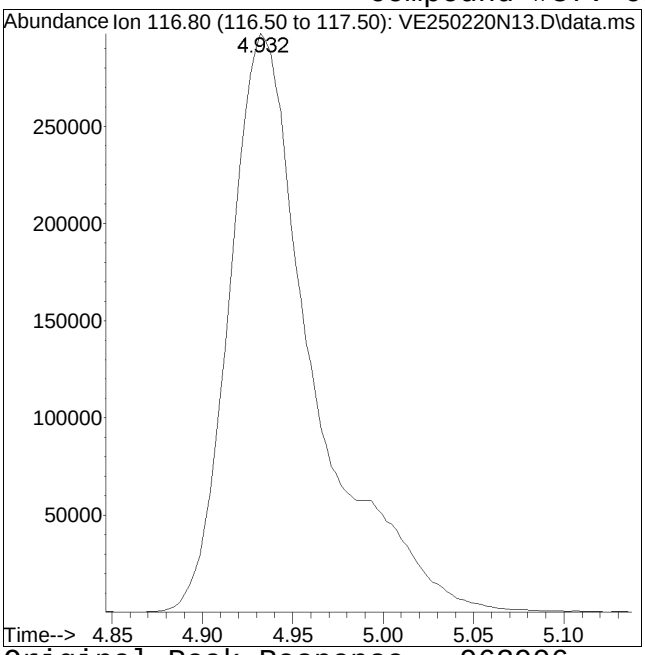
Manual Peak Response = 261552 M6

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

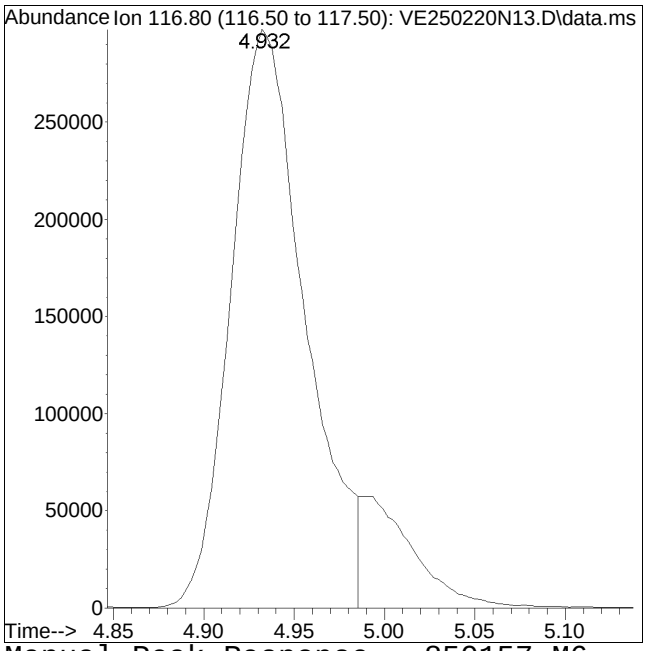
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N13.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 3:22 am Instrument : Elaine
Sample : I8260STD120PPB Quant Date : 2/24/2025 7:12 am

Compound #37: Carbon tetrachloride



Original Peak Response = 963906



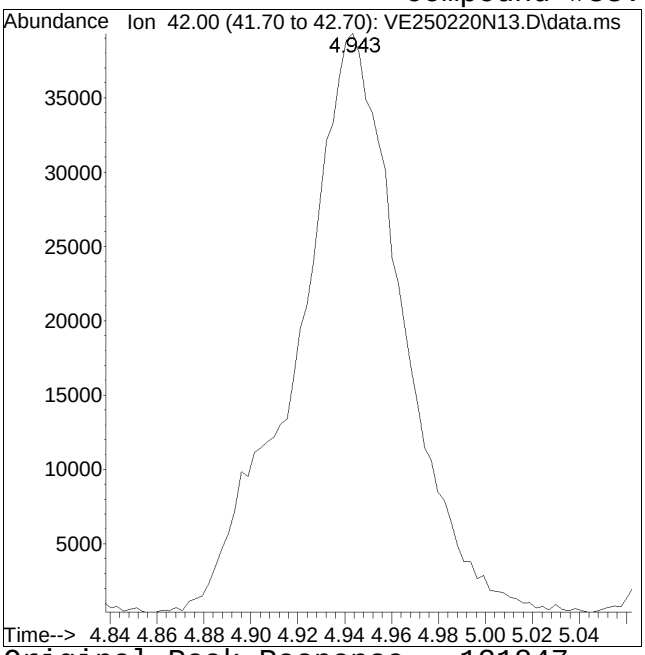
Manual Peak Response = 850157 M6

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

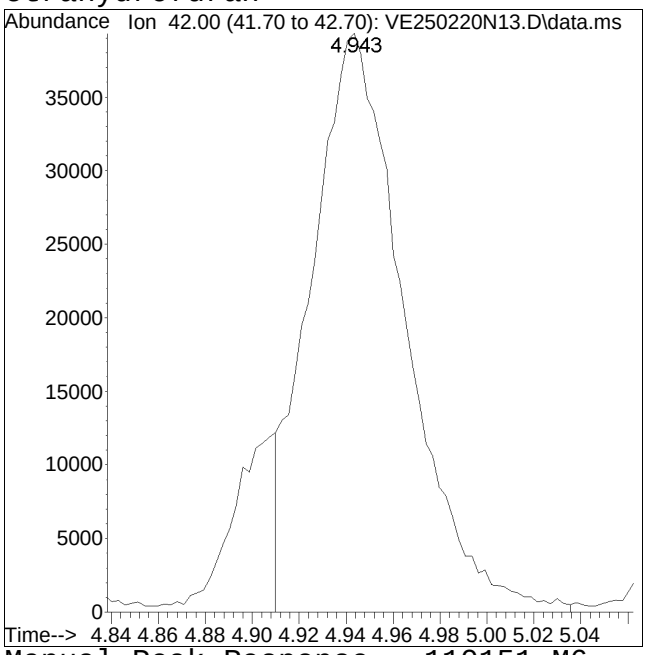
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N13.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 3:22 am Instrument : Elaine
Sample : I8260STD120PPB Quant Date : 2/24/2025 7:12 am

Compound #38: Tetrahydrofuran



Original Peak Response = 121847



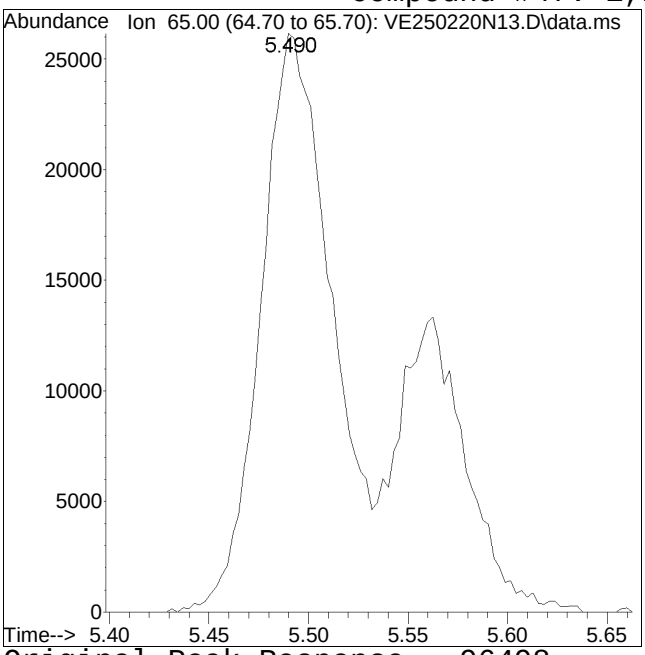
Manual Peak Response = 110151 M6

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

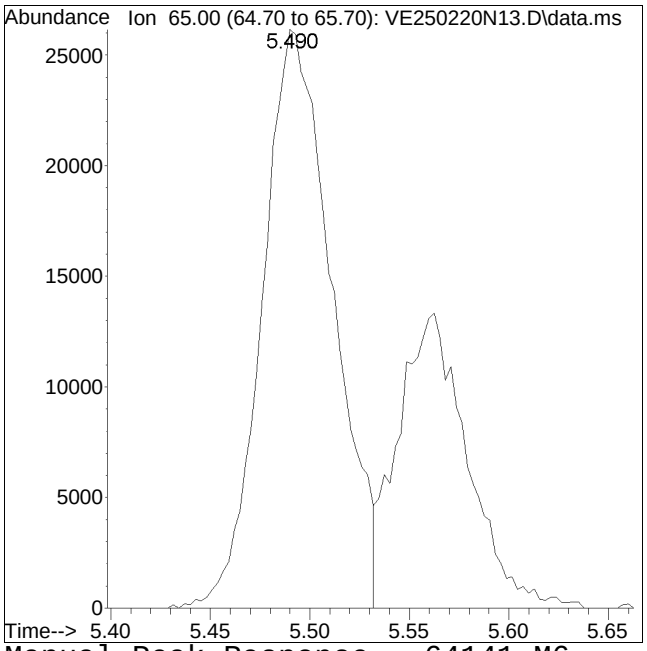
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N13.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 3:22 am Instrument : Elaine
Sample : I8260STD120PPB Quant Date : 2/24/2025 7:12 am

Compound #47: 1,2-Dichloroethane-d4



Original Peak Response = 96498



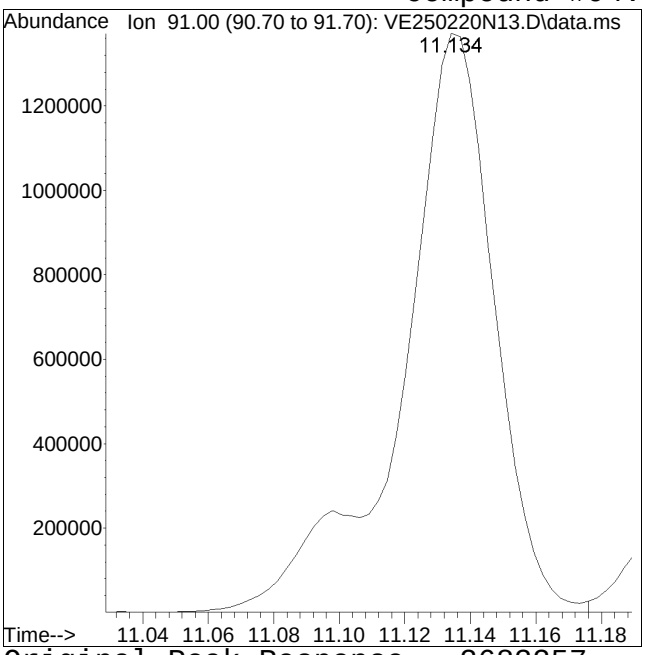
Manual Peak Response = 64141 M6

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

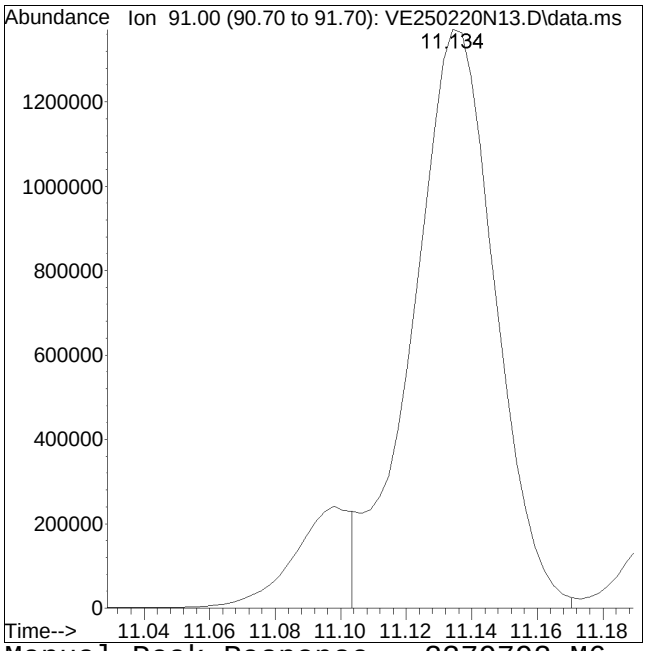
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N13.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 3:22 am Instrument : Elaine
Sample : I8260STD120PPB Quant Date : 2/24/2025 7:12 am

Compound #94: 2-Chlorotoluene



Original Peak Response = 2683257



Manual Peak Response = 2379792 M6

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

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N14.D
Acq On : 21 Feb 2025 3:46 am
Operator : ELAINE:PID
Sample : I8260STD200PPB
Misc : WG2033412,ICAL
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 24 07:13:06 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.774	96	248410	10.000 ug/L	0.00
Standard Area 1 = 193689			Recovery = 128.25%		
63) Chlorobenzene-d5	9.285	117	185009	10.000 ug/L	0.00
Standard Area 1 = 149882			Recovery = 123.44%		
84) 1,4-Dichlorobenzene-d4	12.038	152	118126	10.000 ug/L	0.00
Standard Area 1 = 78717			Recovery = 150.06%		
System Monitoring Compounds					
39) Dibromofluoromethane	4.974	113	61614	9.088 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 90.88%		
47) 1,2-Dichloroethane-d4	5.490	65	68985M6	9.613 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.13%		
64) Toluene-d8	7.450	98	226781	9.265 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.65%		
88) 4-Bromofluorobenzene	10.805	95	84976	8.989 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 89.89%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.522	85	1227960	192.128 ug/L	99
3) Chloromethane	1.700	50	1041531	180.760 ug/L	99
4) Vinyl chloride	1.767	62	1404392	187.691 ug/L	100
5) Bromomethane	2.063	94	1306348	197.786 ug/L	97
6) Chloroethane	2.174	64	1082140	188.889 ug/L	99
7) Trichlorofluoromethane	2.311	101	2433493	188.642 ug/L	100
8) Ethyl ether	2.590	74	752920	195.899 ug/L	97
10) 1,1-Dichloroethene	2.774	96	1354794	194.157 ug/L	97
11) Carbon disulfide	2.802	76	3772831	191.831 ug/L	100
12) Freon-113	2.807	101	1242718	199.702 ug/L	98
13) Iodomethane	2.908	142	1387070	204.219 ug/L	99
14) Acrolein	3.081	56	115321	207.044 ug/L	90
15) Methylene chloride	3.309	84	1093835	186.997 ug/L	96
17) Acetone	3.346	43	180384	181.505 ug/L	98
18) trans-1,2-Dichloroethene	3.460	96	1057105	193.208 ug/L	99
19) Methyl acetate	3.463	43	466916M6	188.420 ug/L	
21) Methyl tert-butyl ether	3.555	73	2759201	213.862 ug/L #	96
22) tert-Butyl alcohol	3.644	59	234905	1000.058 ug/L #	100
24) Diisopropyl ether	3.906	45	3025857	213.254 ug/L	99
25) 1,1-Dichloroethane	4.029	63	1885602	186.489 ug/L	99

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N14.D
Acq On : 21 Feb 2025 3:46 am
Operator : ELAINE:PID
Sample : I8260STD200PPB
Misc : WG2033412,ICAL
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 24 07:13:06 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
26) Halothane	4.085	117	812161	200.769	ug/L		99
27) Acrylonitrile	4.068	53	246120	194.304	ug/L		100
28) Ethyl tert-butyl ether	4.252	59	3131327	227.520	ug/L		98
29) Vinyl acetate	4.257	43	2142953	213.256	ug/L		99
30) cis-1,2-Dichloroethene	4.542	96	1213455	190.302	ug/L		98
31) 2,2-Dichloropropane	4.639	77	1596543	190.446	ug/L	#	78
33) Bromochloromethane	4.729	128	569941	195.926	ug/L		92
34) Cyclohexane	4.734	56	1867649	198.655	ug/L		94
35) Chloroform	4.804	83	1889796	188.702	ug/L		98
36) Ethyl acetate	4.904	43	672231	203.802	ug/L		98
37) Carbon tetrachloride	4.932	117	1572812M6	212.228	ug/L		
38) Tetrahydrofuran	4.943	42	201266M6	193.395	ug/L		
40) 1,1,1-Trichloroethane	4.996	97	1636061	198.622	ug/L		99
42) 2-Butanone	5.083	43	276043	199.339	ug/L		93
43) 1,1-Dichloropropene	5.116	75	1378335	205.949	ug/L		99
45) Benzene	5.359	78	4619580	209.525	ug/L		99
46) tert-Amyl methyl ether	5.468	73	2868248	220.258	ug/L		98
48) 1,2-Dichloroethane	5.562	62	1342751	192.830	ug/L		99
51) Methyl cyclohexane	5.939	83	2210868	225.762	ug/L		99
52) Trichloroethene	5.950	95	1270565	237.472	ug/L		100
54) Dibromomethane	6.382	93	659311	196.957	ug/L		99
55) 1,2-Dichloropropane	6.486	63	1081170	208.396	ug/L		99
57) 2-Chloroethyl vinyl ether	7.183	63	503837	232.084	ug/L		99
58) Bromodichloromethane	6.564	83	1533508	205.683	ug/L		100
61) 1,4-Dioxane	6.770	88	46855	1752.941	ug/L		98
62) cis-1,3-Dichloropropene	7.247	75	1876020	232.433	ug/L		98
65) Toluene	7.509	92	2861175	206.783	ug/L		99
66) 4-Methyl-2-pentanone	7.944	58	238661	202.248	ug/L		98
67) Tetrachloroethene	7.952	166	1153858	216.773	ug/L		99
69) trans-1,3-Dichloropropene	7.994	75	1568200	234.392	ug/L		94
71) Ethyl methacrylate	8.181	69	1027424	217.442	ug/L		91
72) 1,1,2-Trichloroethane	8.175	83	770546	221.786	ug/L		97
73) Chlorodibromomethane	8.387	129	1127653	233.203	ug/L		98
74) 1,3-Dichloropropane	8.496	76	1516552	211.162	ug/L		100
75) 1,2-Dibromoethane	8.655	107	870096	218.783	ug/L		97
77) 2-Hexanone	8.942	43	400929	213.298	ug/L		98
78) Chlorobenzene	9.305	112	3284926	208.696	ug/L		100
79) Ethylbenzene	9.347	91	5919612	213.707	ug/L		100
80) 1,1,1,2-Tetrachloroethane	9.394	131	1130981	230.488	ug/L		100
81) p/m Xylene	9.536	106	5513329	486.509	ug/L		96

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N14.D
Acq On : 21 Feb 2025 3:46 am
Operator : ELAINE:PID
Sample : I8260STD200PPB
Misc : WG2033412,ICAL
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 24 07:13:06 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) o Xylene	10.083	106	5535151	490.691	ug/L	97
83) Styrene	10.153	104	9633992	501.388	ug/L	99
85) Bromoform	10.172	173	800839	250.216	ug/L	98
87) Isopropylbenzene	10.476	105	6745814	207.029	ug/L	100
89) Bromobenzene	10.917	156	1452723	199.871	ug/L	100
90) n-Propylbenzene	10.972	91	8130277	207.014	ug/L	99
91) 1,4-Dichlorobutane	10.984	55	1345482	187.544	ug/L	96
92) 1,1,2,2-Tetrachloroethane	11.064	83	1068121	192.999	ug/L	95
93) 4-Ethyltoluene	11.101	105	6629087	204.180	ug/L	99
94) 2-Chlorotoluene	11.140	91	4430028M6	198.753	ug/L	
95) 1,3,5-Trimethylbenzene	11.201	105	6214043	214.745	ug/L	100
96) 1,2,3-Trichloropropane	11.201	75	954951	203.946	ug/L	94
97) trans-1,4-Dichloro-2-b...	11.257	53	301743	189.448	ug/L	86
98) 4-Chlorotoluene	11.327	91	4722290	204.179	ug/L	98
99) tert-Butylbenzene	11.544	119	5126801	212.583	ug/L	98
102) 1,2,4-Trimethylbenzene	11.625	105	6102132	215.407	ug/L	98
103) sec-Butylbenzene	11.739	105	7719065	211.098	ug/L	99
104) p-Isopropyltoluene	11.898	119	7060654	220.228	ug/L	99
105) 1,3-Dichlorobenzene	11.960	146	3288996	207.938	ug/L	99
106) 1,4-Dichlorobenzene	12.054	146	3339314	212.185	ug/L	99
107) p-Diethylbenzene	12.275	119	4371819	230.049	ug/L	98
108) n-Butylbenzene	12.333	91	5946160	216.215	ug/L	99
109) 1,2-Dichlorobenzene	12.478	146	3100217	208.650	ug/L	100
110) 1,2,4,5-Tetramethylben...	13.072	119	6913574	230.614	ug/L	99
111) 1,2-Dibromo-3-chloropr...	13.265	155	173789	225.335	ug/L	94
112) 1,3,5-Trichlorobenzene	13.298	180	2383995	219.066	ug/L	99
113) Hexachlorobutadiene	13.873	225	603270	210.476	ug/L	100
114) 1,2,4-Trichlorobenzene	13.895	180	2000262	213.494	ug/L	99
115) Naphthalene	14.185	128	4477732	200.860	ug/L	100
116) 1,2,3-Trichlorobenzene	14.358	180	1781004	207.322	ug/L	98

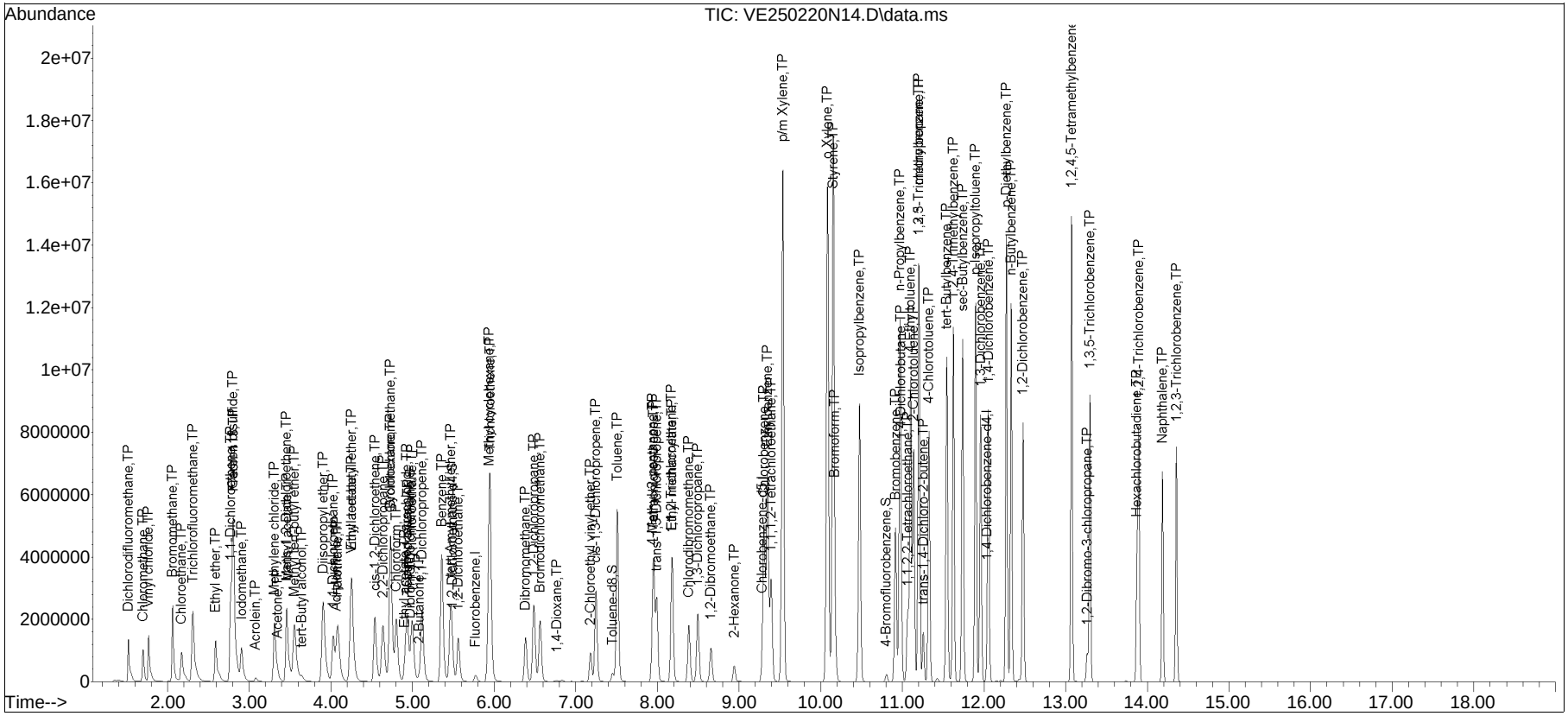
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N14.D
Acq On : 21 Feb 2025 3:46 am
Operator : ELAINE:PID
Sample : I8260STD200PPB
Misc : WG2033412,ICAL
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 24 07:13:06 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:11:47 2025
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox\VE250220N10.D•

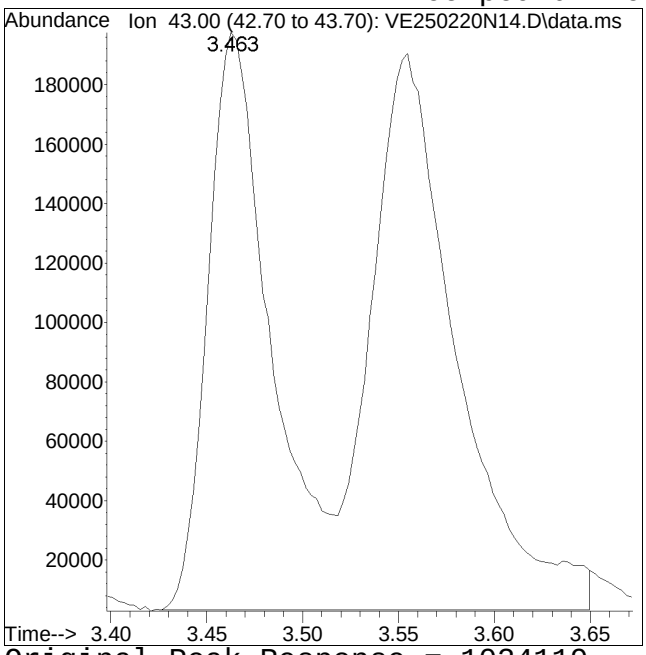


Manual Integration Report

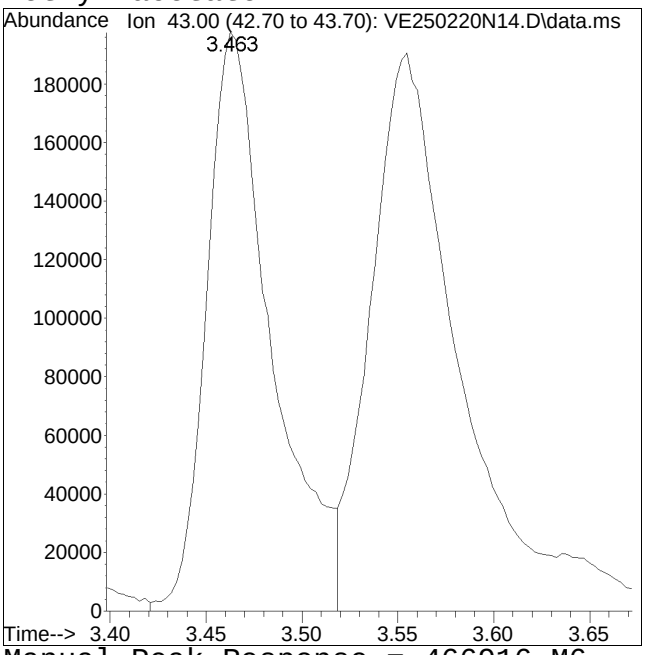
Data Path : K:\Elaine\2025\250220NICALQ
Data File : VE250220N14.D
Date Inj'd : 2/21/2025 3:46 am
Sample : I8260STD200PPB

Method : Elaine_250220N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 2/24/2025 7:13 am

Compound #19: Methyl acetate



Original Peak Response = 1024119



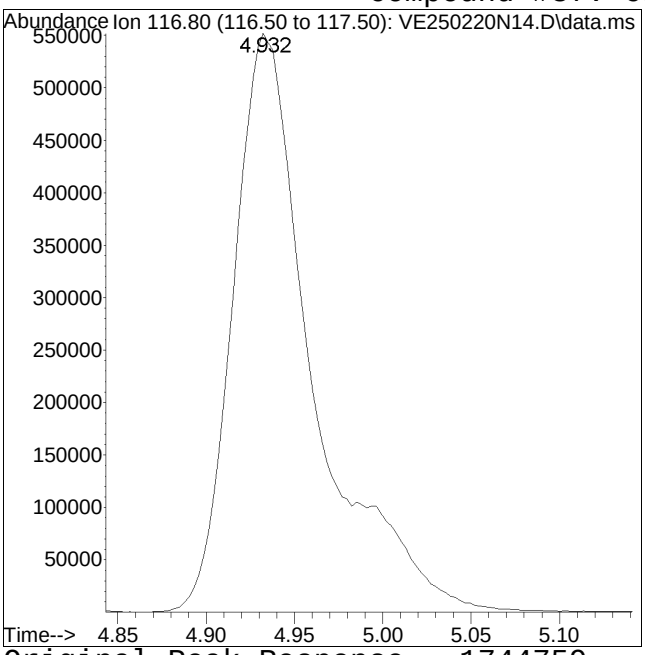
Manual Peak Response = 466916 M6

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

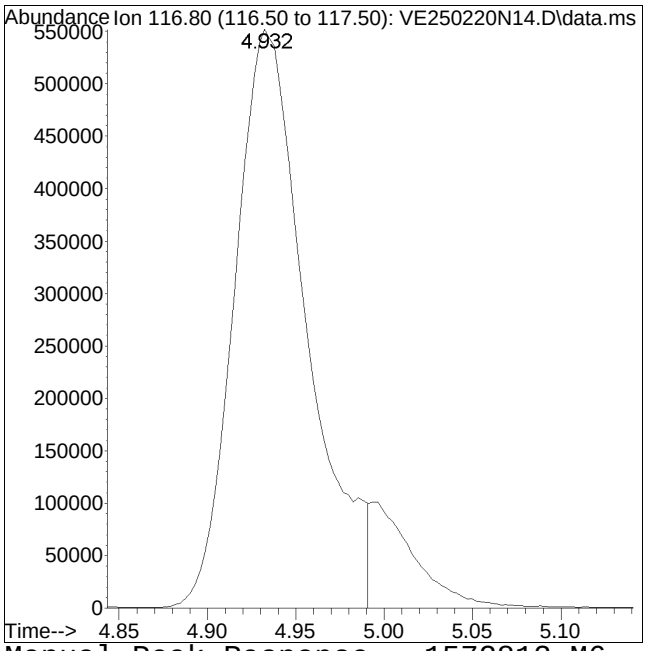
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N14.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 3:46 am Instrument : Elaine
Sample : I8260STD200PPB Quant Date : 2/24/2025 7:13 am

Compound #37: Carbon tetrachloride



Original Peak Response = 1744759



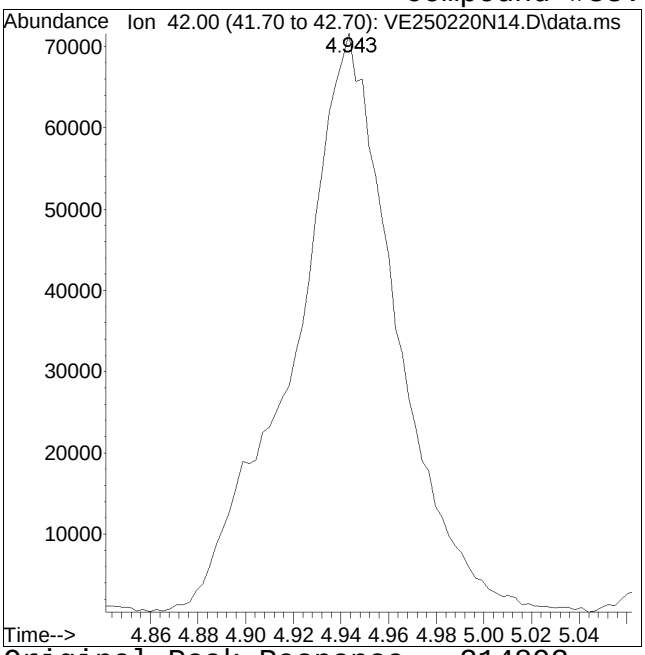
Manual Peak Response = 1572812 M6

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

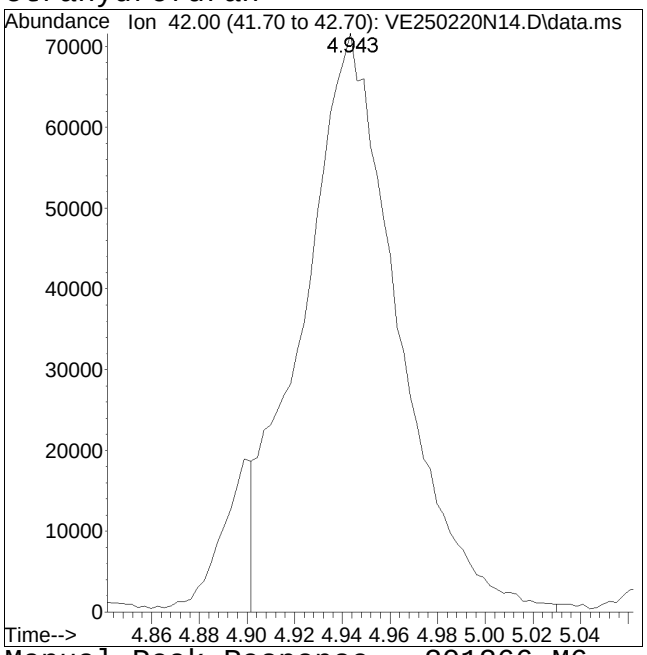
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N14.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 3:46 am Instrument : Elaine
Sample : I8260STD200PPB Quant Date : 2/24/2025 7:13 am

Compound #38: Tetrahydrofuran



Original Peak Response = 214892



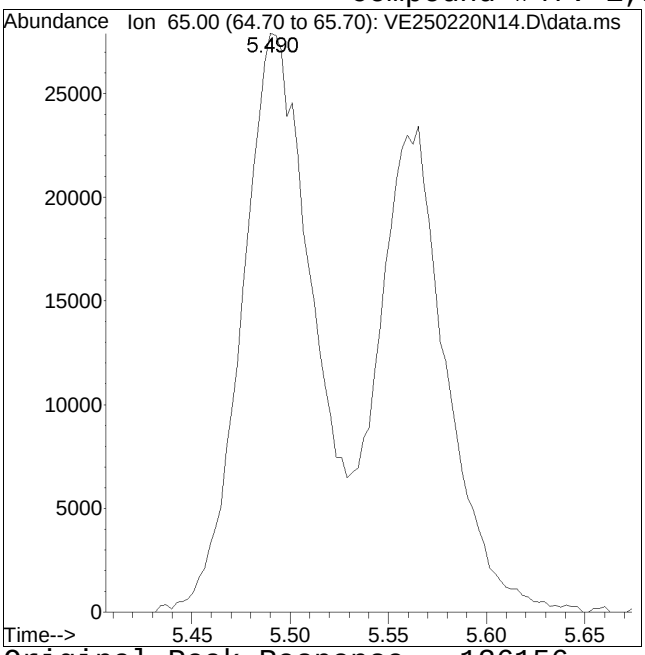
Manual Peak Response = 201266 M6

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

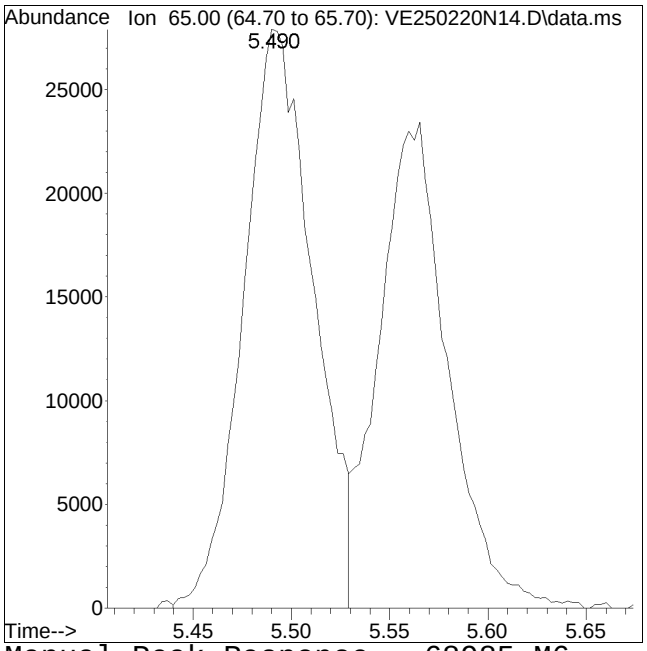
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N14.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 3:46 am Instrument : Elaine
Sample : I8260STD200PPB Quant Date : 2/24/2025 7:13 am

Compound #47: 1,2-Dichloroethane-d4



Original Peak Response = 126156



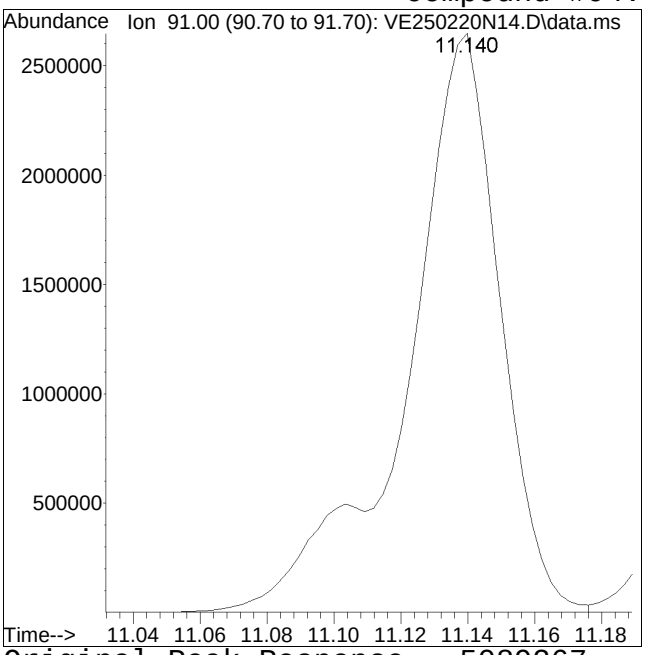
Manual Peak Response = 68985 M6

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

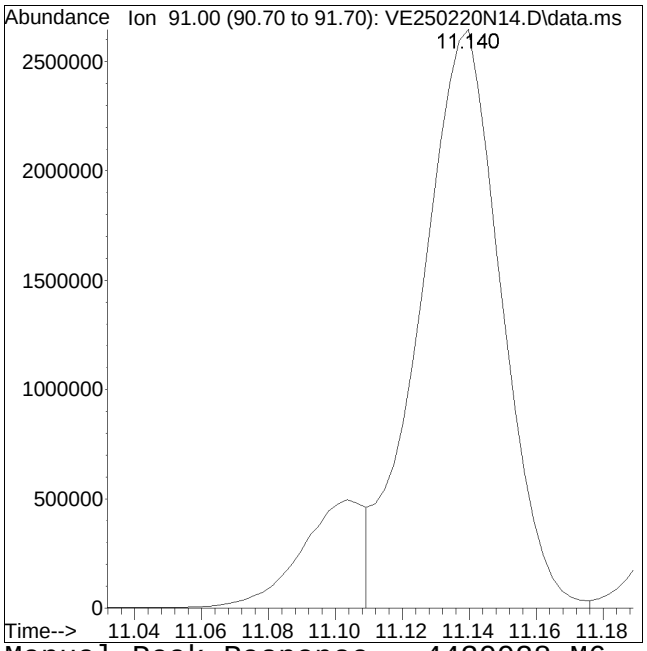
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N14.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 3:46 am Instrument : Elaine
Sample : I8260STD200PPB Quant Date : 2/24/2025 7:13 am

Compound #94: 2-Chlorotoluene



Original Peak Response = 5089267



Manual Peak Response = 4430028 M6

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

Evaluate Continuing Calibration Report

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N19.D
Acq On : 21 Feb 2025 5:47 am
Operator : ELAINE:PID
Sample : C8260STD10PPB
Misc : WG2033412,ICAL
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 24 07:18:21 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2	TP	Dichlorodifluoromethane	0.257	0.235	8.6	78	0.00
3	TP	Chloromethane	0.232	0.250	-7.8	95	0.00
4	TP	Vinyl chloride	0.301	0.321	-6.6	96	0.00
5	TP	Bromomethane	0.266	0.285	-7.1	98	0.00
6	TP	Chloroethane	0.231	0.255	-10.4	97	0.00
7	TP	Trichlorofluoromethane	0.519	0.576	-11.0	98	0.00
8	TP	Ethyl ether	0.155	0.180	-16.1	105	0.00
10	TP	1,1-Dichloroethene	0.281	0.279	0.7	90	0.00
11	TP	Carbon disulfide	0.792	0.568	28.3#	67	0.00
12	TP	Freon-113	0.270	0.235	13.0	82	0.00
13	TP	Iodomethane	0.273	0.285	-4.4	97	0.00
14	TP	Acrolein	0.022	0.020	9.1	94	0.00
15	TP	Methylene chloride	0.235	0.244	-3.8	98	0.00
17	TP	Acetone	0.040	0.047	-17.5	122	0.00
18	TP	trans-1,2-Dichloroethene	0.220	0.231	-5.0	96	0.00
19	TP	Methyl acetate	0.100	0.109	-9.0	103	0.00
21	TP	Methyl tert-butyl ether	0.519	0.477	8.1	92	0.00
22	TP	tert-Butyl alcohol	0.00946	0.00929#	1.8	92	0.00
24	TP	Diisopropyl ether	0.571	0.539	5.6	92	0.00
25	TP	1,1-Dichloroethane	0.407	0.435	-6.9	98	0.00
26	TP	Halothane	0.163	0.181	-11.0	99	0.00
27	TP	Acrylonitrile	0.051	0.057	-11.8	103	0.00
28	TP	Ethyl tert-butyl ether	0.554	0.519	6.3	95	0.00
29	TP	Vinyl acetate	0.405	0.295	27.2#	77	0.00
30	TP	cis-1,2-Dichloroethene	0.257	0.265	-3.1	95	0.00
31	TP	2,2-Dichloropropane	0.337	0.332	1.5	92	0.00
33	TP	Bromochloromethane	0.117	0.117	0.0	92	0.00
34	TP	Cyclohexane	0.378	0.375	0.8	87	0.00
35	TP	Chloroform	0.403	0.430	-6.7	98	0.00
36	TP	Ethyl acetate	0.133	0.128	3.8	98	0.00
37	TP	Carbon tetrachloride	0.298	0.307	-3.0	93	0.00
38	TP	Tetrahydrofuran	0.042	0.045	-7.1	98	-0.01
39	S	Dibromofluoromethane	0.273	0.292	-7.0	104	0.00
40	TP	1,1,1-Trichloroethane	0.332	0.375	-13.0	100	0.00
42	TP	2-Butanone	0.056	0.058	-3.6	104	0.00
43	TP	1,1-Dichloropropene	0.269	0.288	-7.1	101	0.00
45	TP	Benzene	0.888	0.866	2.5	95	0.00
46	TP	tert-Amyl methyl ether	0.524	0.478	8.8	92	0.00

Evaluate Continuing Calibration Report

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N19.D
Acq On : 21 Feb 2025 5:47 am
Operator : ELAINE:PID
Sample : C8260STD10PPB
Misc : WG2033412,ICAL
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 24 07:18:21 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
47	S	1,2-Dichloroethane-d4	0.289	0.306	-5.9	102	0.00
48	T	1,2-Dichloroethane	0.280	0.286	-2.1	95	0.00
51	TP	Methyl cyclohexane	0.394	0.374	5.1	90	0.00
52	TP	Trichloroethene	0.215	0.222	-3.3	98	0.00
54	TP	Dibromomethane	0.135	0.134	0.7	94	0.00
55	TP	1,2-Dichloropropane	0.209	0.211	-1.0	94	0.00
57	TP	2-Chloroethyl vinyl ether	0.087	0.088	-1.1	99	0.00
58	TP	Bromodichloromethane	0.300	0.294#	2.0	93	0.00
61	TP	1,4-Dioxane	0.00108	0.00104#	3.7	87	0.00
62	TP	cis-1,3-Dichloropropene	0.325	0.323	0.6	94	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
64	S	Toluene-d8	1.323	1.354	-2.3	100	0.00
65	TP	Toluene	0.748	0.769	-2.8	97	0.00
66	TP	4-Methyl-2-pentanone	0.064	0.063	1.6	101	0.00
67	TP	Tetrachloroethene	0.288	0.296	-2.8	98	0.00
69	TP	trans-1,3-Dichloropropene	0.362	0.347	4.1	96	0.00
71	TP	Ethyl methacrylate	0.255	0.275	-7.8	99	0.00
72	TP	1,1,2-Trichloroethane	0.188	0.170#	9.6	91	0.00
73	TP	Chlorodibromomethane	0.261	0.232	11.1	92	0.00
74	TP	1,3-Dichloropropane	0.388	0.358	7.7	90	0.00
75	TP	1,2-Dibromoethane	0.215	0.202	6.0	91	0.00
77	TP	2-Hexanone	0.102	0.099	2.9	92	0.00
78	TP	Chlorobenzene	0.851	0.842	1.1	96	0.00
79	TP	Ethylbenzene	1.497	1.436	4.1	93	0.00
80	TP	1,1,1,2-Tetrachloroethane	0.265	0.235	11.3	91	0.00
81	TP	p/m Xylene	0.613	0.574	6.4	96	0.00
82	TP	o Xylene	0.610	0.558	8.5	95	0.00
83	TP	Styrene	1.039	0.929	10.6	96	0.00
84	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	104	0.00
85	TP	Bromoform	* 10.000	8.447	15.5	94	0.00
87	TP	Isopropylbenzene	2.758	2.385	13.5	84	0.00
88	S	4-Bromofluorobenzene	0.800	0.824	-3.0	100	0.00
89	TP	Bromobenzene	0.615	0.589	4.2	92	0.00
90	TP	n-Propylbenzene	3.325	3.264	1.8	95	0.00
91	TP	1,4-Dichlorobutane	0.607	0.654	-7.7	101	0.00
92	TP	1,1,2,2-Tetrachloroethane	0.469	0.444	5.3	88	0.00
93	TP	4-Ethyltoluene	2.748	2.866	-4.3	100	0.00

Evaluate Continuing Calibration Report

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N19.D
Acq On : 21 Feb 2025 5:47 am
Operator : ELAINE:PID
Sample : C8260STD10PPB
Misc : WG2033412,ICAL
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 24 07:18:21 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
94 TP	2-Chlorotoluene	1.887	1.846	2.2	95	0.00
95 TP	1,3,5-Trimethylbenzene	2.450	2.263	7.6	92	0.00
96 TP	1,2,3-Trichloropropane	0.396	0.357	9.8	86	0.00
97 TP	trans-1,4-Dichloro-2-butene	0.135	0.127	5.9	94	0.00
98 TP	4-Chlorotoluene	1.958	1.881	3.9	94	0.00
99 TP	tert-Butylbenzene	2.042	1.966	3.7	95	0.00
102 TP	1,2,4-Trimethylbenzene	2.398	2.284	4.8	95	0.00
103 TP	sec-Butylbenzene	3.096	2.943	4.9	94	0.00
104 TP	p-Isopropyltoluene	2.714	2.538	6.5	94	0.00
105 TP	1,3-Dichlorobenzene	1.339	1.286	4.0	98	0.00
106 TP	1,4-Dichlorobenzene	1.332	1.299	2.5	98	0.00
107 TP	p-Diethylbenzene	1.609	1.527	5.1	95	0.00
108 TP	n-Butylbenzene	2.328	2.300	1.2	98	0.00
109 TP	1,2-Dichlorobenzene	1.258	1.223	2.8	98	0.00
110 TP	1,2,4,5-Tetramethylbenzene	2.538	2.328	8.3	95	0.00
111 TP	1,2-Dibromo-3-chloropropane *	10.000	9.355	6.4	95	0.00
112 TP	1,3,5-Trichlorobenzene	0.921	0.856	7.1	96	0.00
113 TP	Hexachlorobutadiene	0.243	0.245	-0.8	96	0.00
114 TP	1,2,4-Trichlorobenzene	0.793	0.771	2.8	98	0.00
115 TP	Naphthalene	1.887	1.864	1.2	98	0.00
116 TP	1,2,3-Trichlorobenzene	0.727	0.719	1.1	101	0.00

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

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N19.D
Acq On : 21 Feb 2025 5:47 am
Operator : ELAINE:PID
Sample : C8260STD10PPB
Misc : WG2033412,ICAL
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 24 07:18:21 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.772	96	193314	10.000	ug/L	0.00
Standard Area 1 = 193689			Recovery = 99.81%			
63) Chlorobenzene-d5	9.283	117	150107	10.000	ug/L	0.00
Standard Area 1 = 149882			Recovery = 100.15%			
84) 1,4-Dichlorobenzene-d4	12.032	152	81715	10.000	ug/L	0.00
Standard Area 1 = 78717			Recovery = 103.81%			
System Monitoring Compounds						
39) Dibromofluoromethane	4.977	113	56534	10.716	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.16%			
47) 1,2-Dichloroethane-d4	5.490	65	59066	10.576	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.76%			
64) Toluene-d8	7.450	98	203309	10.237	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.37%			
88) 4-Bromofluorobenzene	10.802	95	67311	10.293	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.93%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.519	85	45365	9.121	ug/L	99
3) Chloromethane	1.703	50	48237	10.758	ug/L	99
4) Vinyl chloride	1.770	62	62063	10.658	ug/L	99
5) Bromomethane	2.063	94	55094	10.719	ug/L	95
6) Chloroethane	2.177	64	49322	11.063	ug/L	100
7) Trichlorofluoromethane	2.308	101	111412	11.098	ug/L	100
8) Ethyl ether	2.590	74	34743	11.616	ug/L	99
10) 1,1-Dichloroethene	2.771	96	53935	9.932	ug/L	97
11) Carbon disulfide	2.802	76	109734	7.170	ug/L	100
12) Freon-113	2.807	101	45356	8.700	ug/L	100
13) Iodomethane	2.908	142	55088	10.422	ug/L	99
14) Acrolein	3.081	56	3928	9.062	ug/L	97
15) Methylene chloride	3.315	84	47238	10.377	ug/L	97
17) Acetone	3.348	43	9071	11.729	ug/L	94
18) trans-1,2-Dichloroethene	3.463	96	44646	10.486	ug/L	98
19) Methyl acetate	3.468	43	21057M6	10.919	ug/L	
21) Methyl tert-butyl ether	3.555	73	92164	9.179	ug/L #	97
22) tert-Butyl alcohol	3.647	59	8976	49.105	ug/L #	100
24) Diisopropyl ether	3.906	45	104229	9.439	ug/L	99
25) 1,1-Dichloroethane	4.032	63	84003	10.676	ug/L	99
26) Halothane	4.082	117	35054	11.135	ug/L	99

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N19.D
Acq On : 21 Feb 2025 5:47 am
Operator : ELAINE:PID
Sample : C8260STD10PPB
Misc : WG2033412,ICAL
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 24 07:18:21 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
27) Acrylonitrile	4.068	53	11091	11.252	ug/L		97
28) Ethyl tert-butyl ether	4.252	59	100421	9.376	ug/L		92
29) Vinyl acetate	4.257	43	56980	7.286	ug/L		99
30) cis-1,2-Dichloroethene	4.534	96	51224	10.323	ug/L		98
31) 2,2-Dichloropropane	4.634	77	64093	9.824	ug/L	#	76
33) Bromochloromethane	4.723	128	22691	10.024	ug/L		96
34) Cyclohexane	4.734	56	72448	9.902	ug/L		97
35) Chloroform	4.804	83	83097	10.662	ug/L		97
36) Ethyl acetate	4.907	43	24839	9.677	ug/L		99
37) Carbon tetrachloride	4.930	117	59438M6	10.306	ug/L		
38) Tetrahydrofuran	4.935	42	8664M6	10.698	ug/L		
40) 1,1,1-Trichloroethane	4.991	97	72457	11.304	ug/L		97
42) 2-Butanone	5.083	43	11202	10.395	ug/L		93
43) 1,1-Dichloropropene	5.114	75	55767	10.707	ug/L		99
45) Benzene	5.356	78	167327	9.752	ug/L		99
46) tert-Amyl methyl ether	5.468	73	92486	9.126	ug/L		99
48) 1,2-Dichloroethane	5.557	62	55197	10.186	ug/L		99
51) Methyl cyclohexane	5.933	83	72306	9.488	ug/L		98
52) Trichloroethene	5.953	95	42903	10.304	ug/L		99
54) Dibromomethane	6.388	93	25930	9.954	ug/L		99
55) 1,2-Dichloropropane	6.483	63	40820	10.111	ug/L		99
57) 2-Chloroethyl vinyl ether	7.186	63	16952	10.034	ug/L		98
58) Bromodichloromethane	6.561	83	56765	9.784	ug/L		98
61) 1,4-Dioxane	6.770	88	10035	482.430	ug/L		99
62) cis-1,3-Dichloropropene	7.244	75	62358	9.928	ug/L		97
65) Toluene	7.509	92	115438	10.283	ug/L		97
66) 4-Methyl-2-pentanone	7.944	58	9468	9.889	ug/L		95
67) Tetrachloroethene	7.952	166	44406	10.282	ug/L		98
69) trans-1,3-Dichloropropene	7.991	75	52057	9.590	ug/L		99
71) Ethyl methacrylate	8.181	69	41315	10.777	ug/L		98
72) 1,1,2-Trichloroethane	8.170	83	25593	9.079	ug/L		97
73) Chlorodibromomethane	8.382	129	34885	8.892	ug/L		98
74) 1,3-Dichloropropane	8.493	76	53726	9.220	ug/L		98
75) 1,2-Dibromoethane	8.652	107	30297	9.389	ug/L		96
77) 2-Hexanone	8.940	43	14933	9.792	ug/L		94
78) Chlorobenzene	9.299	112	126459	9.902	ug/L		99
79) Ethylbenzene	9.341	91	215583	9.592	ug/L		99
80) 1,1,1,2-Tetrachloroethane	9.386	131	35345	8.878	ug/L		99
81) p/m Xylene	9.528	106	172248	18.734	ug/L		97
82) o Xylene	10.077	106	167450	18.296	ug/L		98

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N19.D
Acq On : 21 Feb 2025 5:47 am
Operator : ELAINE:PID
Sample : C8260STD10PPB
Misc : WG2033412,ICAL
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 24 07:18:21 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250220NICAL\VE250220N10.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
83) Styrene	10.144	104	279010	17.897	ug/L	100
85) Bromoform	10.172	173	19408	8.447	ug/L	99
87) Isopropylbenzene	10.473	105	194901	8.647	ug/L	99
89) Bromobenzene	10.914	156	48158	9.578	ug/L	99
90) n-Propylbenzene	10.964	91	266714	9.817	ug/L	100
91) 1,4-Dichlorobutane	10.978	55	53455	10.771	ug/L	99
92) 1,1,2,2-Tetrachloroethane	11.059	83	36249	9.468	ug/L	99
93) 4-Ethyltoluene	11.095	105	234217	10.428	ug/L	100
94) 2-Chlorotoluene	11.134	91	150820M6	9.782	ug/L	
95) 1,3,5-Trimethylbenzene	11.193	105	184940	9.239	ug/L	99
96) 1,2,3-Trichloropropane	11.196	75	29174M6	9.007	ug/L	
97) trans-1,4-Dichloro-2-b...	11.251	53	10338	9.383	ug/L	98
98) 4-Chlorotoluene	11.321	91	153744	9.609	ug/L	100
99) tert-Butylbenzene	11.541	119	160644	9.629	ug/L	99
102) 1,2,4-Trimethylbenzene	11.619	105	186620	9.523	ug/L	98
103) sec-Butylbenzene	11.734	105	240484	9.507	ug/L	99
104) p-Isopropyltoluene	11.893	119	207386	9.351	ug/L	99
105) 1,3-Dichlorobenzene	11.954	146	105104	9.606	ug/L	99
106) 1,4-Dichlorobenzene	12.049	146	106167	9.752	ug/L	99
107) p-Diethylbenzene	12.269	119	124786	9.492	ug/L	99
108) n-Butylbenzene	12.328	91	187969	9.881	ug/L	99
109) 1,2-Dichlorobenzene	12.476	146	99967	9.726	ug/L	100
110) 1,2,4,5-Tetramethylben...	13.070	119	190194	9.171	ug/L	100
111) 1,2-Dibromo-3-chloropr...	13.262	155	5545	9.355	ug/L	99
112) 1,3,5-Trichlorobenzene	13.293	180	69968	9.294	ug/L	99
113) Hexachlorobutadiene	13.870	225	20045	10.110	ug/L	97
114) 1,2,4-Trichlorobenzene	13.895	180	63012	9.722	ug/L	99
115) Naphthalene	14.188	128	152282	9.875	ug/L	100
116) 1,2,3-Trichlorobenzene	14.358	180	58768	9.889	ug/L	97

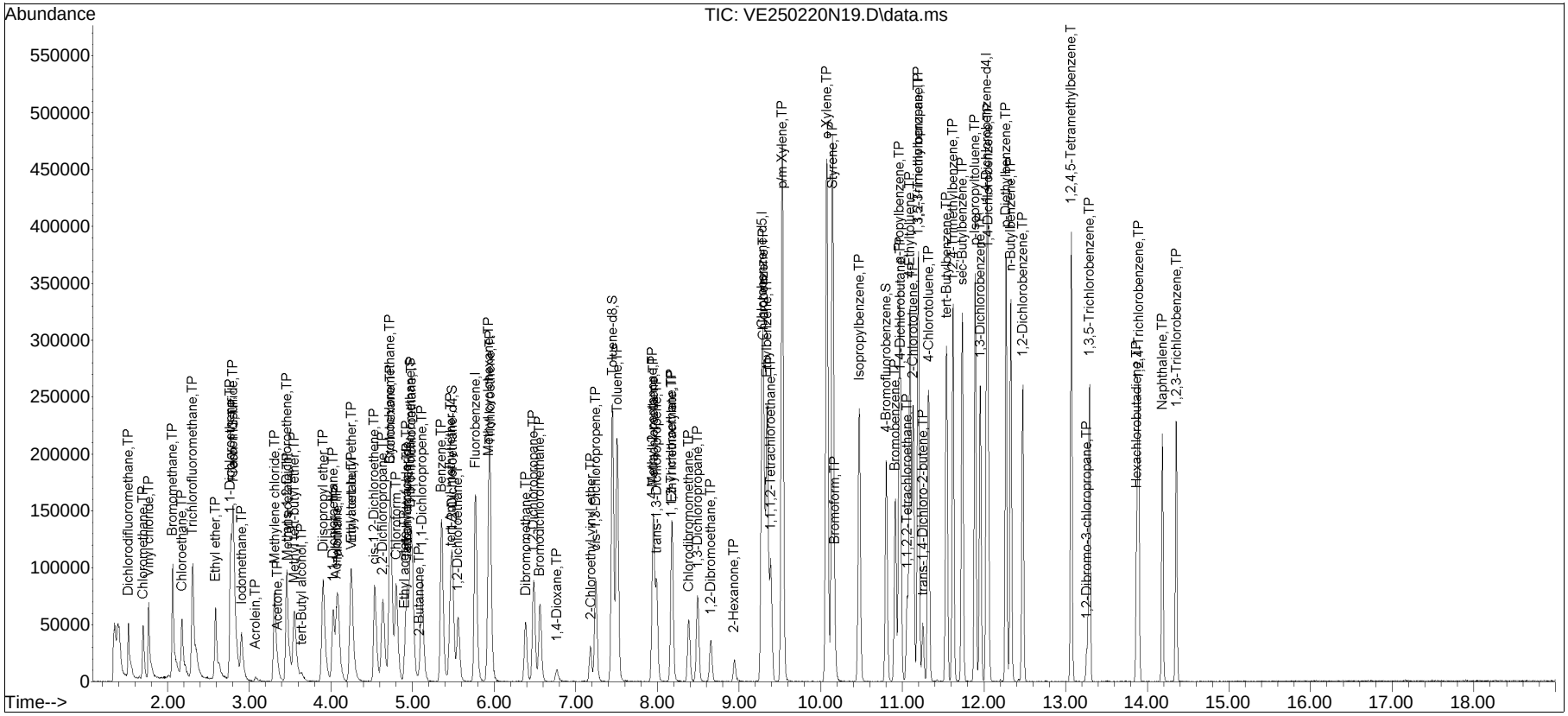
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250220NICAL\
Data File : VE250220N19.D
Acq On : 21 Feb 2025 5:47 am
Operator : ELAINE:PID
Sample : C8260STD10PPB
Misc : WG2033412,ICAL
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 24 07:18:21 2025
Quant Method : K:\Elaine\2025\250220NICAL\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox\VE250220N10.D•

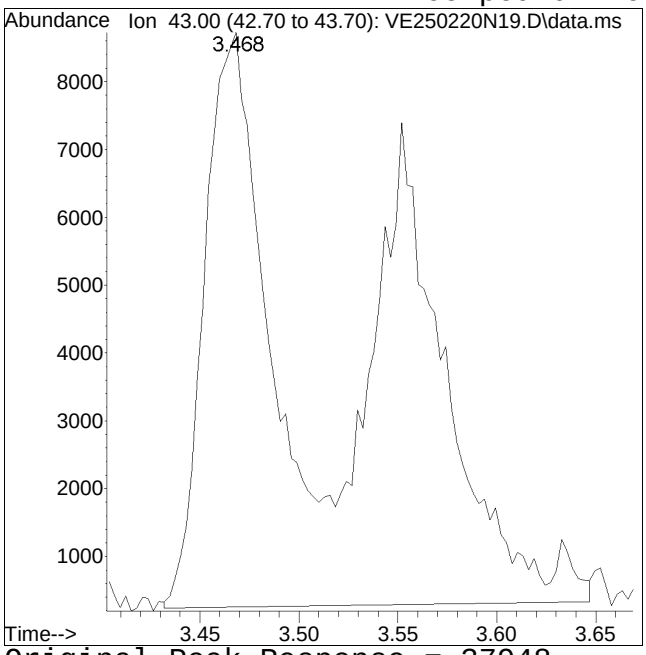


Manual Integration Report

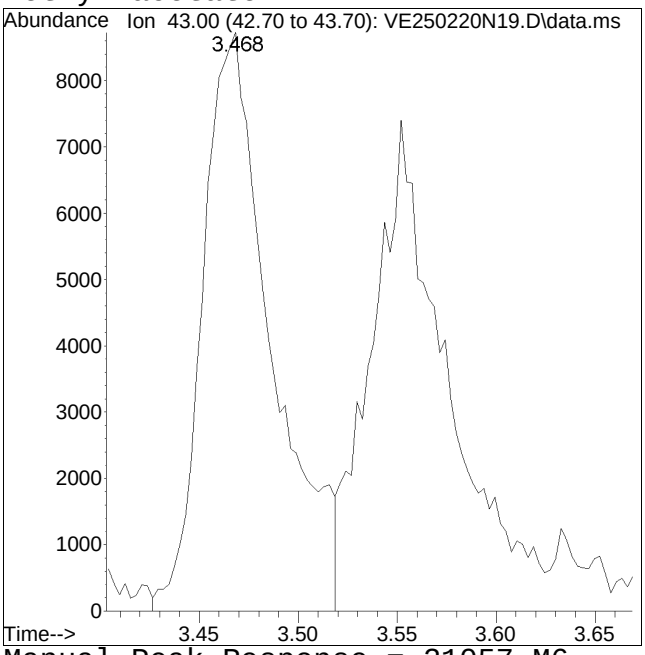
Data Path : K:\Elaine\2025\250220NICALQ
Data File : VE250220N19.D
Date Inj'd : 2/21/2025 5:47 am
Sample : C8260STD10PPB

Method : Elaine_250220N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 2/24/2025 7:17 am

Compound #19: Methyl acetate



Original Peak Response = 37948



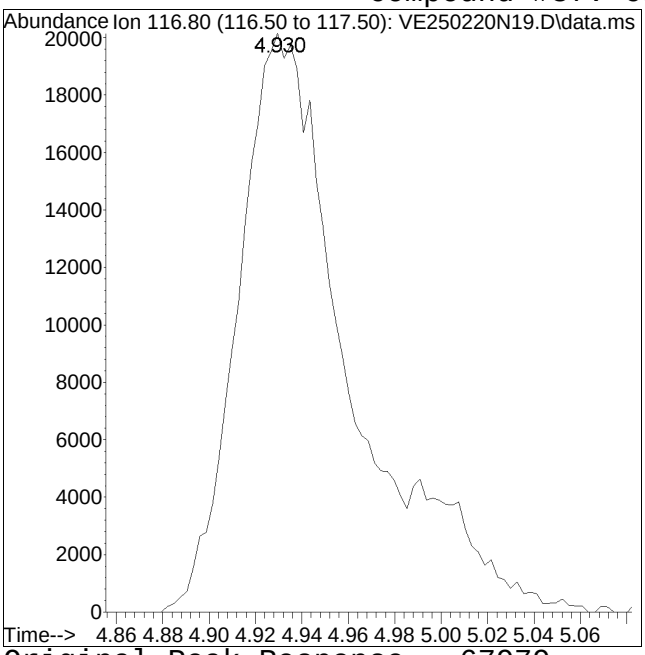
Manual Peak Response = 21057 M6

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

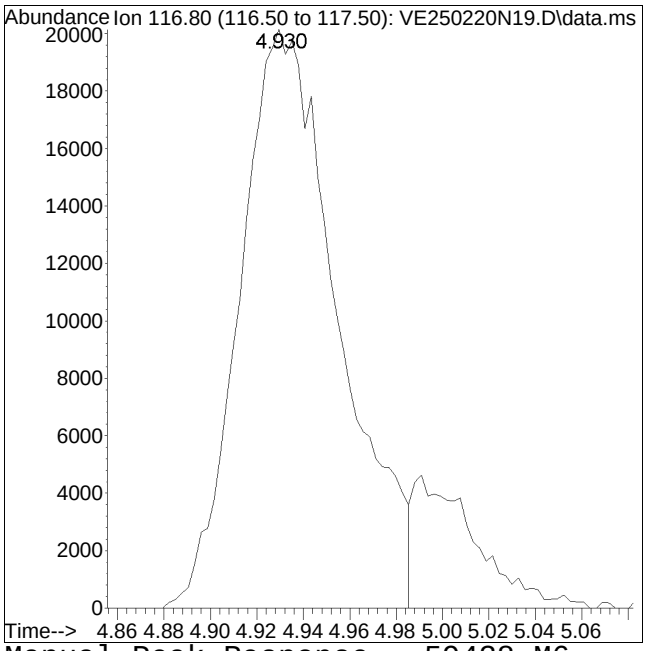
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N19.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 5:47 am Instrument : Elaine
Sample : C8260STD10PPB Quant Date : 2/24/2025 7:17 am

Compound #37: Carbon tetrachloride



Original Peak Response = 67979



Manual Peak Response = 59438 M6

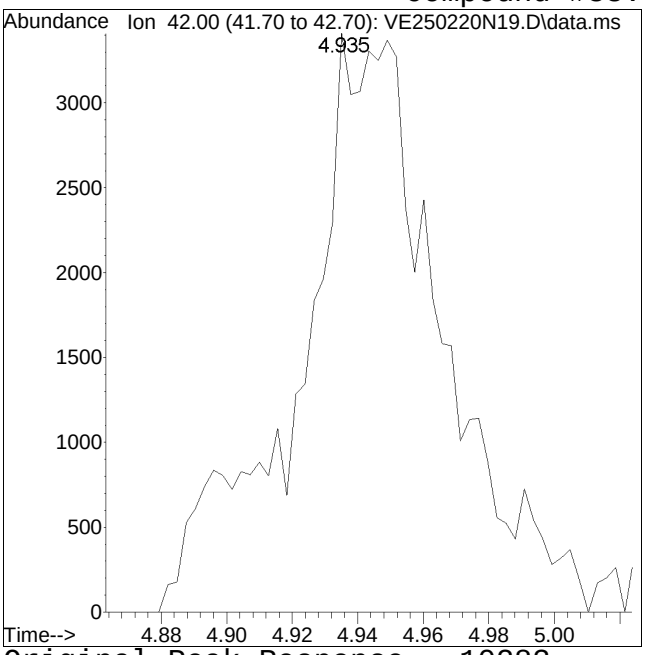
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

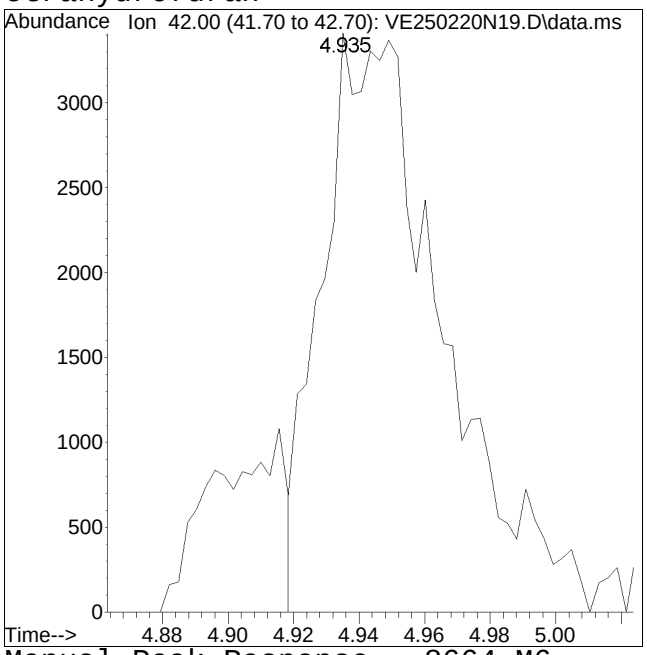
Data Path : K:\Elaine\2025\250220NICALQ
Data File : VE250220N19.D
Date Inj'd : 2/21/2025 5:47 am
Sample : C8260STD10PPB

Method : Elaine_250220N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 2/24/2025 7:17 am

Compound #38: Tetrahydrofuran



Original Peak Response = 10283



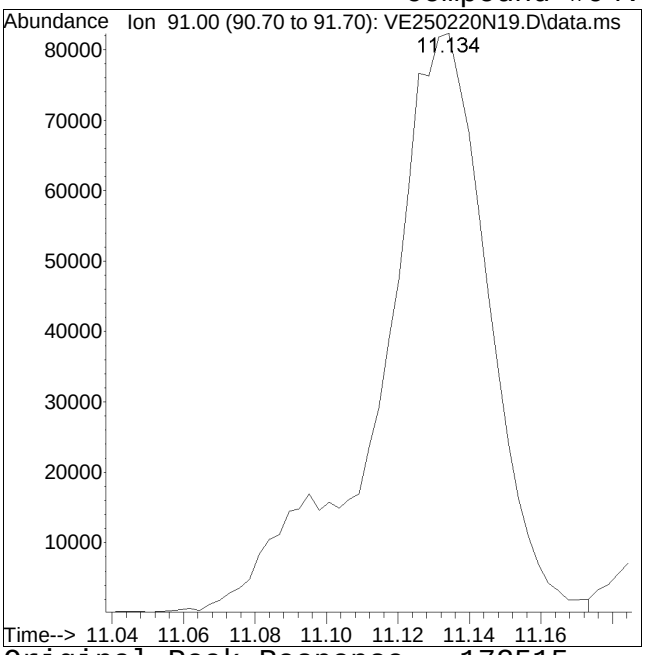
Manual Peak Response = 8664 M6

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

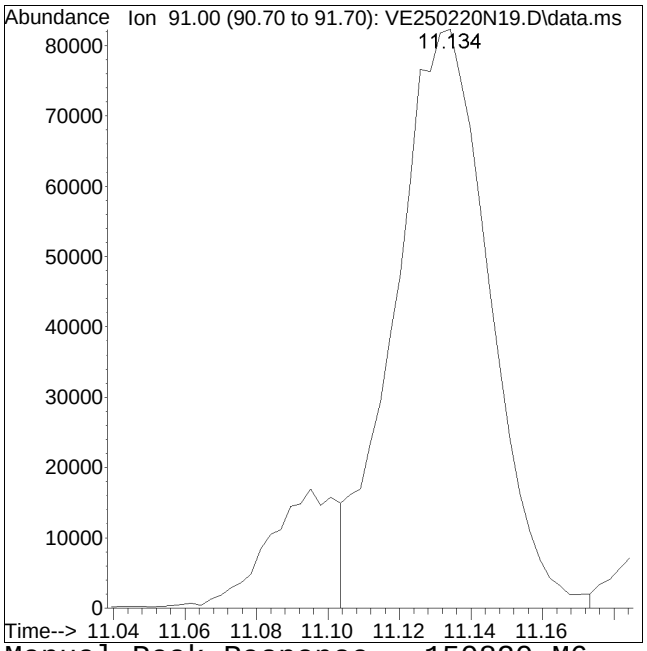
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N19.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 5:47 am Instrument : Elaine
Sample : C8260STD10PPB Quant Date : 2/24/2025 7:17 am

Compound #94: 2-Chlorotoluene



Original Peak Response = 172515



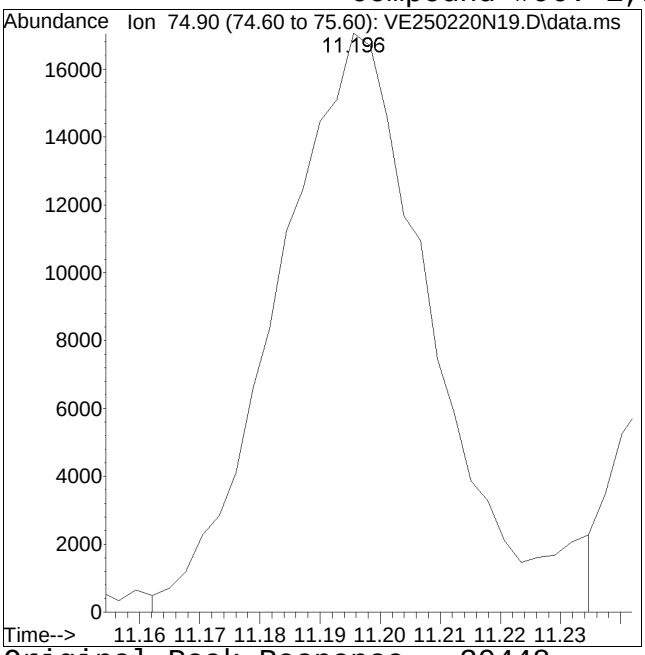
Manual Peak Response = 150820 M6

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

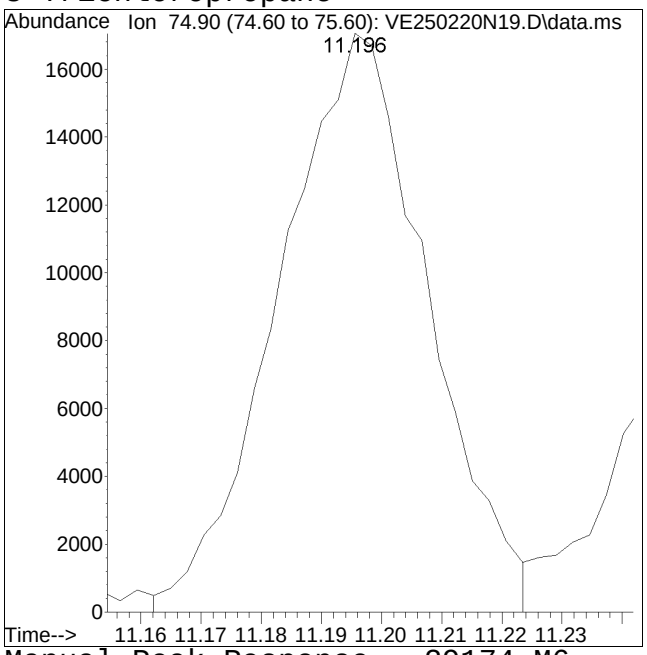
Manual Integration Report

Data Path : K:\Elaine\2025\250220NICALQMethod : Elaine_250220N_8260.m
Data File : VE250220N19.D Operator : ELAINE:PID
Date Inj'd : 2/21/2025 5:47 am Instrument : Elaine
Sample : C8260STD10PPB Quant Date : 2/24/2025 7:17 am

Compound #96: 1,2,3-Trichloropropane



Original Peak Response = 30448



Manual Peak Response = 29174 M6

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

Evaluate Relative Error Report Elaine

Method Path : K:\Elaine\2025\250220NICAL\
Method File : Elaine_250220N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Mon Feb 24 07:16:52 2025

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
85	TP Bromoform	Q	ug/L	10.0	9.303	-7.0	0.50	0.603	20.6
111	TP 1,2-Dibromo-3-chloropropane	L	ug/L	10.0	10.202	2.0	0.50	0.543	8.6

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
85	TP Bromoform	Quadratic	0.999622	0.002587	0.290021	-0.00932533
111	TP 1,2-Dibromo-3-chloropropane	Linear	0.999353	0.000000	0.0753717	-0.00265386

Continuing Calibration

Calibration Verification Summary
Form 7
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: ELAINE	**Calibration Date**	: 03/12/25 09:27		
Lab File ID	: VE250312A01	**Init. Calib. Date(s)**	: 02/20/25	02/21/25	
Sample No	: WG2039699-2	**Init. Calib. Times**	: 23:45	03:46	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	154	0
Dichlorodifluoromethane	0.257	0.215	-	16.3	20	110	0
Chloromethane	0.232	0.206	-	11.2	20	120	0
Vinyl chloride	0.301	0.253	-	15.9	20	116	0
Bromomethane	0.266	0.157	-	41*	20	84	0
Chloroethane	0.231	0.19	-	17.7	20	112	0
Trichlorofluoromethane	0.519	0.384	-	26*	20	100	0
Ethyl ether	0.155	0.127	-	18.1	20	115	0
1,1-Dichloroethene	0.281	0.222	-	21*	20	110	0
Carbon disulfide	0.792	0.687	-	13.3	20	124	0
Freon-113	0.27	0.225	-	16.7	20	122	0
Acrolein	0.022	0.028	-	-27.3*	20	199	0
Methylene chloride	0.235	0.234	-	0.4	20	145	0
Acetone	0.04	0.044	-	-10	20	176	0
trans-1,2-Dichloroethene	0.22	0.226	-	-2.7	20	144	0
Methyl acetate	0.1	0.093	-	7	20	136	0
Methyl tert-butyl ether	0.519	0.466	-	10.2	20	138	0
tert-Butyl alcohol	0.00946	0.00964*	-	-1.9	20	147	0
Diisopropyl ether	0.571	0.574	-	-0.5	20	151	0
1,1-Dichloroethane	0.407	0.419	-	-2.9	20	146	0
Halothane	0.163	0.168	-	-3.1	20	142	0
Acrylonitrile	0.051	0.051	-	0	20	141	0
Ethyl tert-butyl ether	0.554	0.518	-	6.5	20	146	-.01
Vinyl acetate	0.405	0.373	-	7.9	20	150	0
cis-1,2-Dichloroethene	0.257	0.255	-	0.8	20	140	0
2,2-Dichloropropane	0.337	0.311	-	7.7	20	133	0
Bromochloromethane	0.117	0.116	-	0.9	20	140	0
Cyclohexane	0.378	0.389	-	-2.9	20	140	-.01
Chloroform	0.403	0.408	-	-1.2	20	143	0
Ethyl acetate	0.133	0.122	-	8.3	20	144	0
Carbon tetrachloride	0.298	0.317	-	-6.4	20	147	0
Tetrahydrofuran	0.042	0.04	-	4.8	20	134	-.01
Dibromofluoromethane	0.273	0.276	-	-1.1	20	151	0
1,1,1-Trichloroethane	0.332	0.324	-	2.4	20	133	0
2-Butanone	0.056	0.059	-	-5.4	20	165	0
1,1-Dichloropropene	0.269	0.265	-	1.5	20	144	0
Benzene	0.888	0.854	-	3.8	20	145	0
tert-Amyl methyl ether	0.524	0.426	-	18.7	20	126	-.01
1,2-Dichloroethane-d4	0.289	0.292	-	-1	20	150	0
1,2-Dichloroethane	0.28	0.273	-	2.5	20	140	0
Methyl cyclohexane	0.394	0.344	-	12.7	20	127	0
Trichloroethene	0.215	0.213	-	0.9	20	144	0
Dibromomethane	0.135	0.121	-	10.4	20	130	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: ELAINE	**Calibration Date**	: 03/12/25 09:27		
Lab File ID	: VE250312A01	**Init. Calib. Date(s)**	: 02/20/25	02/21/25	
Sample No	: WG2039699-2	**Init. Calib. Times**	: 23:45	03:46	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.209	0.221	-	-5.7	20	151	0
Bromodichloromethane	0.3	0.286*	-	4.7	20	140	0
1,4-Dioxane	0.00108	0.00124*	-	-14.8	20	161	0
cis-1,3-Dichloropropene	0.325	0.313	-	3.7	20	141	0
Chlorobenzene-d5	1	1	-	0	20	149	0
Toluene-d8	1.323	1.323	-	0	20	146	0
Toluene	0.748	0.69	-	7.8	20	130	0
4-Methyl-2-pentanone	0.064	0.051	-	20.3*	20	121	0
Tetrachloroethene	0.288	0.297	-	-3.1	20	147	0
trans-1,3-Dichloropropene	0.362	0.333	-	8	20	137	0
Ethyl methacrylate	0.255	0.204	-	20	20	109	0
1,1,2-Trichloroethane	0.188	0.175*	-	6.9	20	139	0
Chlorodibromomethane	0.261	0.246	-	5.7	20	145	0
1,3-Dichloropropane	0.388	0.376	-	3.1	20	141	0
1,2-Dibromoethane	0.215	0.205	-	4.7	20	138	0
2-Hexanone	0.102	0.082	-	19.6	20	112	0
Chlorobenzene	0.851	0.807	-	5.2	20	136	0
Ethylbenzene	1.497	1.383	-	7.6	20	133	0
1,1,1,2-Tetrachloroethane	0.265	0.257	-	3	20	148	0
p/m Xylene	0.613	0.545	-	11.1	20	136	0
o Xylene	0.61	0.544	-	10.8	20	138	0
Styrene	1.039	0.885	-	14.8	20	135	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	154	0
Bromoform	10	8.784	-	12.2	20	145	0
Isopropylbenzene	2.758	2.594	-	5.9	20	135	0
4-Bromofluorobenzene	0.8	0.863	-	-7.9	20	156	0
Bromobenzene	0.615	0.6	-	2.4	20	139	0
n-Propylbenzene	3.325	3.11	-	6.5	20	135	0
1,4-Dichlorobutane	0.607	0.585	-	3.6	20	134	0
1,1,2,2-Tetrachloroethane	0.469	0.432	-	7.9	20	128	0
4-Ethyltoluene	2.748	2.601	-	5.3	20	135	0
2-Chlorotoluene	1.887	1.845	-	2.2	20	142	0
1,3,5-Trimethylbenzene	2.45	2.208	-	9.9	20	133	0
1,2,3-Trichloropropane	0.396	0.357	-	9.8	20	127	0
trans-1,4-Dichloro-2-buten	0.135	0.111	-	17.8	20	122	-.01
4-Chlorotoluene	1.958	1.947	-	0.6	20	145	0
tert-Butylbenzene	2.042	1.953	-	4.4	20	140	0
1,2,4-Trimethylbenzene	2.398	2.217	-	7.5	20	137	0
sec-Butylbenzene	3.096	2.836	-	8.4	20	134	0
p-Isopropyltoluene	2.714	2.505	-	7.7	20	137	0
1,3-Dichlorobenzene	1.339	1.303	-	2.7	20	147	0
1,4-Dichlorobenzene	1.332	1.24	-	6.9	20	138	0
p-Diethylbenzene	1.609	1.431	-	11.1	20	132	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: ELAINE	**Calibration Date**	: 03/12/25 09:27		
Lab File ID	: VE250312A01	**Init. Calib. Date(s)**	: 02/20/25	02/21/25	
Sample No	: WG2039699-2	**Init. Calib. Times**	: 23:45	03:46	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
n-Butylbenzene	2.328	2.06	-	11.5	20	131	0
1,2-Dichlorobenzene	1.258	1.215	-	3.4	20	144	0
1,2,4,5-Tetramethylbenzene	2.538	2.346	-	7.6	20	143	0
1,2-Dibromo-3-chloropropan	10	8.29	-	17.1	20	124	0
1,3,5-Trichlorobenzene	0.921	0.901	-	2.2	20	150	0
Hexachlorobutadiene	0.243	0.25	-	-2.9	20	146	0
1,2,4-Trichlorobenzene	0.793	0.783	-	1.3	20	147	0
Naphthalene	1.887	1.695	-	10.2	20	133	0
1,2,3-Trichlorobenzene	0.727	0.681	-	6.3	20	141	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: VOA101	**Calibration Date**	: 03/13/25 08:22		
Lab File ID	: V01250313A04	**Init. Calib. Date(s)**	: 02/08/25	02/08/25	
Sample No	: WG2040184-2	**Init. Calib. Times**	: 01:30	05:51	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	104	0
Dichlorodifluoromethane	0.266	0.247	-	7.1	20	92	0
Chloromethane	0.492	0.451	-	8.3	20	100	0
Vinyl chloride	0.31	0.329	-	-6.1	20	111	0
Bromomethane	10	11.064	-	-10.6	20	132	0
Chloroethane	0.148	0.181	-	-22.3*	20	127	0
Trichlorofluoromethane	0.323	0.329	-	-1.9	20	103	0
Ethyl ether	0.082	0.092	-	-12.2	20	122	0
1,1-Dichloroethene	0.218	0.221	-	-1.4	20	106	0
Carbon disulfide	0.721	0.745	-	-3.3	20	111	0
Freon-113	0.222	0.221	-	0.5	20	100	0
Acrolein	0.032	0.03	-	6.3	20	98	0
Methylene chloride	0.26	0.254	-	2.3	20	105	0
Acetone	10	8.911	-	10.9	20	101	0
trans-1,2-Dichloroethene	0.243	0.245	-	-0.8	20	105	0
Methyl acetate	0.126	0.129	-	-2.4	20	109	0
Methyl tert-butyl ether	0.509	0.495	-	2.8	20	105	0
tert-Butyl alcohol	0.013	0.012	-	7.7	20	106	0
Diisopropyl ether	1.021	1.051	-	-2.9	20	107	0
1,1-Dichloroethane	0.523	0.548	-	-4.8	20	109	0
Halothane	0.177	0.177	-	0	20	101	0
Acrylonitrile	0.06	0.06	-	0	20	104	0
Ethyl tert-butyl ether	0.743	0.747	-	-0.5	20	107	0
Vinyl acetate	0.516	0.529	-	-2.5	20	106	0
cis-1,2-Dichloroethene	0.266	0.267	-	-0.4	20	106	0
2,2-Dichloropropane	0.321	0.356	-	-10.9	20	117	0
Bromochloromethane	0.105	0.112	-	-6.7	20	107	0
Cyclohexane	0.55	0.551	-	-0.2	20	99	0
Chloroform	0.432	0.452	-	-4.6	20	107	0
Ethyl acetate	0.167	0.181	-	-8.4	20	110	0
Carbon tetrachloride	0.315	0.297	-	5.7	20	96	0
Tetrahydrofuran	0.052	0.055	-	-5.8	20	106	0
Dibromofluoromethane	0.254	0.259	-	-2	20	106	0
1,1,1-Trichloroethane	0.371	0.371	-	0	20	102	0
2-Butanone	0.072	0.077	-	-6.9	20	118	0
1,1-Dichloropropene	0.323	0.321	-	0.6	20	100	0
Benzene	0.946	1.005	-	-6.2	20	108	0
tert-Amyl methyl ether	0.509	0.505	-	0.8	20	108	0
1,2-Dichloroethane-d4	0.292	0.291	-	0.3	20	105	0
1,2-Dichloroethane	0.312	0.313	-	-0.3	20	103	0
Methyl cyclohexane	0.425	0.429	-	-0.9	20	102	0
Trichloroethene	0.261	0.265	-	-1.5	20	106	0
Dibromomethane	0.12	0.122	-	-1.7	20	106	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: VOA101	**Calibration Date**	: 03/13/25 08:22		
Lab File ID	: V01250313A04	**Init. Calib. Date(s)**	: 02/08/25	02/08/25	
Sample No	: WG2040184-2	**Init. Calib. Times**	: 01:30	05:51	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.289	0.295	-	-2.1	20	108	0
Bromodichloromethane	0.321	0.318	-	0.9	20	104	0
1,4-Dioxane	0.00128	0.00112*	-	12.5	20	86	0
cis-1,3-Dichloropropene	10	9.076	-	9.2	20	106	0
Chlorobenzene-d5	1	1	-	0	20	101	0
Toluene-d8	1.329	1.37	-	-3.1	20	104	0
Toluene	0.799	0.862	-	-7.9	20	109	0
4-Methyl-2-pentanone	0.077	0.071	-	7.8	20	104	0
Tetrachloroethene	0.32	0.347	-	-8.4	20	106	0
trans-1,3-Dichloropropene	10	9.274	-	7.3	20	100	0
Ethyl methacrylate	0.27	0.243	-	10	20	102	0
1,1,2-Trichloroethane	0.2	0.214	-	-7	20	107	0
Chlorodibromomethane	0.276	0.268	-	2.9	20	100	0
1,3-Dichloropropane	0.41	0.436	-	-6.3	20	106	0
1,2-Dibromoethane	0.217	0.221	-	-1.8	20	102	0
2-Hexanone	0.135	0.124	-	8.1	20	107	0
Chlorobenzene	0.887	0.94	-	-6	20	107	0
Ethylbenzene	1.543	1.667	-	-8	20	106	0
1,1,1,2-Tetrachloroethane	0.311	0.314	-	-1	20	102	0
p/m Xylene	0.589	0.649	-	-10.2	20	107	0
o Xylene	0.568	0.624	-	-9.9	20	107	0
Styrene	0.871	0.973	-	-11.7	20	108	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	101	0
Bromoform	0.278	0.256	-	7.9	20	96	0
Isopropylbenzene	2.756	2.939	-	-6.6	20	106	0
4-Bromofluorobenzene	0.979	0.959	-	2	20	100	0
Bromobenzene	0.622	0.662	-	-6.4	20	106	0
n-Propylbenzene	3.228	3.585	-	-11.1	20	109	0
1,4-Dichlorobutane	0.845	0.906	-	-7.2	20	108	0
1,1,2,2-Tetrachloroethane	0.488	0.527	-	-8	20	108	0
4-Ethyltoluene	2.673	2.858	-	-6.9	20	107	0
2-Chlorotoluene	1.967	2.156	-	-9.6	20	110	0
1,3,5-Trimethylbenzene	2.212	2.387	-	-7.9	20	109	0
1,2,3-Trichloropropane	0.386	0.398	-	-3.1	20	106	0
trans-1,4-Dichloro-2-buten	0.108	0.069	-	36.1*	20	72	0
4-Chlorotoluene	1.955	2.129	-	-8.9	20	110	0
tert-Butylbenzene	1.907	2.013	-	-5.6	20	105	0
1,2,4-Trimethylbenzene	2.097	2.266	-	-8.1	20	107	0
sec-Butylbenzene	2.665	2.892	-	-8.5	20	108	0
p-Isopropyltoluene	2.268	2.434	-	-7.3	20	107	0
1,3-Dichlorobenzene	1.131	1.225	-	-8.3	20	110	0
1,4-Dichlorobenzene	1.159	1.216	-	-4.9	20	109	0
p-Diethylbenzene	1.284	1.347	-	-4.9	20	107	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: VOA101	**Calibration Date**	: 03/13/25 08:22		
Lab File ID	: V01250313A04	**Init. Calib. Date(s)**	: 02/08/25	02/08/25	
Sample No	: WG2040184-2	**Init. Calib. Times**	: 01:30	05:51	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
n-Butylbenzene	1.826	2.05	-	-12.3	20	113	0
1,2-Dichlorobenzene	1.002	1.05	-	-4.8	20	107	0
1,2,4,5-Tetramethylbenzene	1.71	1.651	-	3.5	20	99	0
1,2-Dibromo-3-chloropropan	10	8.107	-	18.9	20	91	0
1,3,5-Trichlorobenzene	0.614	0.635	-	-3.4	20	108	0
Hexachlorobutadiene	0.224	0.225	-	-0.4	20	104	0
1,2,4-Trichlorobenzene	0.474	0.451	-	4.9	20	101	0
Naphthalene	0.867	0.662	-	23.6*	20	84	0
1,2,3-Trichlorobenzene	0.362	0.316*	-	12.7	20	92	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A01.D
Acq On : 12 Mar 2025 9:27 am
Operator : ELAINE:PID
Sample : WG2039699-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2039699,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 12 10:30:25 2025
Quant Method : K:\Elaine\2025\250312A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	154	0.00
2	TP	Dichlorodifluoromethane	0.257	0.215	16.3	110	0.00
3	TP	Chloromethane	0.232	0.206	11.2	120	0.00
4	TP	Vinyl chloride	0.301	0.253	15.9	116	0.00
5	TP	Bromomethane	0.266	0.157	41.0#	84	0.00
6	TP	Chloroethane	0.231	0.190	17.7	112	0.00
7	TP	Trichlorofluoromethane	0.519	0.384	26.0#	100	0.00
8	TP	Ethyl ether	0.155	0.127	18.1	115	0.00
10	TP	1,1-Dichloroethene	0.281	0.222	21.0#	110	0.00
11	TP	Carbon disulfide	0.792	0.687	13.3	124	0.00
12	TP	Freon-113	0.270	0.225	16.7	122	0.00
14	TP	Acrolein	0.022	0.028	-27.3#	199	0.00
15	TP	Methylene chloride	0.235	0.234	0.4	145	0.00
17	TP	Acetone	0.040	0.044	-10.0	176	0.00
18	TP	trans-1,2-Dichloroethene	0.220	0.226	-2.7	144	0.00
19	TP	Methyl acetate	0.100	0.093	7.0	136	0.00
21	TP	Methyl tert-butyl ether	0.519	0.466	10.2	138	0.00
22	TP	tert-Butyl alcohol	0.00946	0.00964#	-1.9	147	0.00
24	TP	Diisopropyl ether	0.571	0.574	-0.5	151	0.00
25	TP	1,1-Dichloroethane	0.407	0.419	-2.9	146	0.00
26	TP	Halothane	0.163	0.168	-3.1	142	0.00
27	TP	Acrylonitrile	0.051	0.051	0.0	141	0.00
28	TP	Ethyl tert-butyl ether	0.554	0.518	6.5	146	-0.01
29	TP	Vinyl acetate	0.405	0.373	7.9	150	0.00
30	TP	cis-1,2-Dichloroethene	0.257	0.255	0.8	140	0.00
31	TP	2,2-Dichloropropane	0.337	0.311	7.7	133	0.00
33	TP	Bromochloromethane	0.117	0.116	0.9	140	0.00
34	TP	Cyclohexane	0.378	0.389	-2.9	140	-0.01
35	TP	Chloroform	0.403	0.408	-1.2	143	0.00
36	TP	Ethyl acetate	0.133	0.122	8.3	144	0.00
37	TP	Carbon tetrachloride	0.298	0.317	-6.4	147	0.00
38	TP	Tetrahydrofuran	0.042	0.040	4.8	134	-0.01
39	S	Dibromofluoromethane	0.273	0.276	-1.1	151	0.00
40	TP	1,1,1-Trichloroethane	0.332	0.324	2.4	133	0.00
42	TP	2-Butanone	0.056	0.059	-5.4	165	0.00
43	TP	1,1-Dichloropropene	0.269	0.265	1.5	144	0.00
45	TP	Benzene	0.888	0.854	3.8	145	0.00
46	TP	tert-Amyl methyl ether	0.524	0.426	18.7	126	-0.01
47	S	1,2-Dichloroethane-d4	0.289	0.292	-1.0	150	0.00

Evaluate Continuing Calibration Report

Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A01.D
Acq On : 12 Mar 2025 9:27 am
Operator : ELAINE:PID
Sample : WG2039699-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2039699,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 12 10:30:25 2025
Quant Method : K:\Elaine\2025\250312A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48	T	1,2-Dichloroethane	0.280	0.273	2.5	140	0.00
51	TP	Methyl cyclohexane	0.394	0.344	12.7	127	0.00
52	TP	Trichloroethene	0.215	0.213	0.9	144	0.00
54	TP	Dibromomethane	0.135	0.121	10.4	130	0.00
55	TP	1,2-Dichloropropane	0.209	0.221	-5.7	151	0.00
58	TP	Bromodichloromethane	0.300	0.286#	4.7	140	0.00
61	TP	1,4-Dioxane	0.00108	0.00124#	-14.8	161	0.00
62	TP	cis-1,3-Dichloropropene	0.325	0.313	3.7	141	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	149	0.00
64	S	Toluene-d8	1.323	1.323	0.0	146	0.00
65	TP	Toluene	0.748	0.690	7.8	130	0.00
66	TP	4-Methyl-2-pentanone	0.064	0.051	20.3#	121	0.00
67	TP	Tetrachloroethene	0.288	0.297	-3.1	147	0.00
69	TP	trans-1,3-Dichloropropene	0.362	0.333	8.0	137	0.00
71	TP	Ethyl methacrylate	0.255	0.204	20.0#	109	0.00
72	TP	1,1,2-Trichloroethane	0.188	0.175#	6.9	139	0.00
73	TP	Chlorodibromomethane	0.261	0.246	5.7	145	0.00
74	TP	1,3-Dichloropropane	0.388	0.376	3.1	141	0.00
75	TP	1,2-Dibromoethane	0.215	0.205	4.7	138	0.00
77	TP	2-Hexanone	0.102	0.082	19.6	112	0.00
78	TP	Chlorobenzene	0.851	0.807	5.2	136	0.00
79	TP	Ethylbenzene	1.497	1.383	7.6	133	0.00
80	TP	1,1,1,2-Tetrachloroethane	0.265	0.257	3.0	148	0.00
81	TP	p/m Xylene	0.613	0.545	11.1	136	0.00
82	TP	o Xylene	0.610	0.544	10.8	138	0.00
83	TP	Styrene	1.039	0.885	14.8	135	0.00
84	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	154	0.00
85	TP	Bromoform	* 10.000	8.784	12.2	145	0.00
87	TP	Isopropylbenzene	2.758	2.594	5.9	135	0.00
88	S	4-Bromofluorobenzene	0.800	0.863	-7.9	156	0.00
89	TP	Bromobenzene	0.615	0.600	2.4	139	0.00
90	TP	n-Propylbenzene	3.325	3.110	6.5	135	0.00
91	TP	1,4-Dichlorobutane	0.607	0.585	3.6	134	0.00
92	TP	1,1,2,2-Tetrachloroethane	0.469	0.432	7.9	128	0.00
93	TP	4-Ethyltoluene	2.748	2.601	5.3	135	0.00
94	TP	2-Chlorotoluene	1.887	1.845	2.2	142	0.00
95	TP	1,3,5-Trimethylbenzene	2.450	2.208	9.9	133	0.00

Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A01.D
Acq On : 12 Mar 2025 9:27 am
Operator : ELAINE:PID
Sample : WG2039699-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2039699,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 12 10:30:25 2025
Quant Method : K:\Elaine\2025\250312A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 TP	1,2,3-Trichloropropane	0.396	0.357	9.8	127	0.00
97 TP	trans-1,4-Dichloro-2-butene	0.135	0.111	17.8	122	-0.01
98 TP	4-Chlorotoluene	1.958	1.947	0.6	145	0.00
99 TP	tert-Butylbenzene	2.042	1.953	4.4	140	0.00
102 TP	1,2,4-Trimethylbenzene	2.398	2.217	7.5	137	0.00
103 TP	sec-Butylbenzene	3.096	2.836	8.4	134	0.00
104 TP	p-Isopropyltoluene	2.714	2.505	7.7	137	0.00
105 TP	1,3-Dichlorobenzene	1.339	1.303	2.7	147	0.00
106 TP	1,4-Dichlorobenzene	1.332	1.240	6.9	138	0.00
107 TP	p-Diethylbenzene	1.609	1.431	11.1	132	0.00
108 TP	n-Butylbenzene	2.328	2.060	11.5	131	0.00
109 TP	1,2-Dichlorobenzene	1.258	1.215	3.4	144	0.00
110 TP	1,2,4,5-Tetramethylbenzene	2.538	2.346	7.6	143	0.00
111 TP	1,2-Dibromo-3-chloropropane *	10.000	8.290	17.1	124	0.00
112 TP	1,3,5-Trichlorobenzene	0.921	0.901	2.2	150	0.00
113 TP	Hexachlorobutadiene	0.243	0.250	-2.9	146	0.00
114 TP	1,2,4-Trichlorobenzene	0.793	0.783	1.3	147	0.00
115 TP	Naphthalene	1.887	1.695	10.2	133	0.00
116 TP	1,2,3-Trichlorobenzene	0.727	0.681	6.3	141	0.00

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

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A01.D
Acq On : 12 Mar 2025 9:27 am
Operator : ELAINE:PID
Sample : WG2039699-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2039699,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 12 10:30:25 2025
Quant Method : K:\Elaine\2025\250312A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.768	96	297682	10.000	ug/L	0.00
63) Chlorobenzene-d5	9.275	117	223126	10.000	ug/L	0.00
84) 1,4-Dichlorobenzene-d4	12.028	152	121415	10.000	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	4.973	113	82241	10.123	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.23%			
47) 1,2-Dichloroethane-d4	5.487	65	86873	10.102	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.02%			
64) Toluene-d8	7.442	98	295223	10.000	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.00%			
88) 4-Bromofluorobenzene	10.799	95	104839	10.789	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.89%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.522	85	64023	8.359	ug/L	98
3) Chloromethane	1.702	50	61195	8.863	ug/L	99
4) Vinyl chloride	1.772	62	75431	8.412	ug/L	100
5) Bromomethane	2.062	94	46815	5.915	ug/L	96
6) Chloroethane	2.172	64	56603	8.245	ug/L	100
7) Trichlorofluoromethane	2.308	101	114393	7.400	ug/L	100
8) Ethyl ether	2.589	74	37802	8.208	ug/L	90
10) 1,1-Dichloroethene	2.769	96	66075	7.902	ug/L	90
11) Carbon disulfide	2.800	76	204538	8.678	ug/L	100
12) Freon-113	2.809	101	66844	8.326	ug/L	98
14) Acrolein	3.081	56	8355	12.517	ug/L	91
15) Methylene chloride	3.309	84	69640	9.935	ug/L	96
17) Acetone	3.349	43	13063	10.969	ug/L	100
18) trans-1,2-Dichloroethene	3.454	96	67314	10.267	ug/L	96
19) Methyl acetate	3.458	43	27760M6	9.348	ug/L	
21) Methyl tert-butyl ether	3.551	73	138635	8.967	ug/L #	95
22) tert-Butyl alcohol	3.634	59	14353	50.991	ug/L #	100
24) Diisopropyl ether	3.897	45	170851	10.048	ug/L	98
25) 1,1-Dichloroethane	4.025	63	124618	10.285	ug/L	98
26) Halothane	4.082	117	50127	10.341	ug/L	98
27) Acrylonitrile	4.064	53	15112	9.956	ug/L	93
28) Ethyl tert-butyl ether	4.240	59	154283	9.355	ug/L	98
29) Vinyl acetate	4.249	43	110991	9.217	ug/L	99
30) cis-1,2-Dichloroethene	4.530	96	75924	9.936	ug/L	97
31) 2,2-Dichloropropane	4.631	77	92727	9.230	ug/L #	98

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A01.D
Acq On : 12 Mar 2025 9:27 am
Operator : ELAINE:PID
Sample : WG2039699-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2039699,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 12 10:30:25 2025
Quant Method : K:\Elaine\2025\250312A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) Bromochloromethane	4.718	128	34497	9.896	ug/L		94
34) Cyclohexane	4.723	56	115892	10.287	ug/L		96
35) Chloroform	4.793	83	121327	10.110	ug/L		99
36) Ethyl acetate	4.899	43	36342	9.194	ug/L		98
37) Carbon tetrachloride	4.925	117	94347M6	10.624	ug/L		
38) Tetrahydrofuran	4.938	42	11789M6	9.453	ug/L		
40) 1,1,1-Trichloroethane	4.995	97	96415	9.768	ug/L		98
42) 2-Butanone	5.079	43	17678	10.653	ug/L	#	82
43) 1,1-Dichloropropene	5.109	75	79016	9.852	ug/L		99
45) Benzene	5.351	78	254204	9.621	ug/L		99
46) tert-Amyl methyl ether	5.461	73	126801	8.126	ug/L	#	92
48) 1,2-Dichloroethane	5.557	62	81410	9.756	ug/L		96
51) Methyl cyclohexane	5.936	83	102468	8.732	ug/L		90
52) Trichloroethene	5.945	95	63286	9.871	ug/L		99
54) Dibromomethane	6.379	93	35905	8.951	ug/L		97
55) 1,2-Dichloropropane	6.479	63	65703	10.568	ug/L		99
58) Bromodichloromethane	6.556	83	85191	9.535	ug/L		98
61) 1,4-Dioxane	6.759	88	18520	578.188	ug/L		96
62) cis-1,3-Dichloropropene	7.239	75	93047	9.620	ug/L		97
65) Toluene	7.501	92	153912	9.223	ug/L		100
66) 4-Methyl-2-pentanone	7.936	58	11358	7.981	ug/L		96
67) Tetrachloroethene	7.945	166	66339	10.334	ug/L		98
69) trans-1,3-Dichloropropene	7.990	75	74325	9.211	ug/L		99
71) Ethyl methacrylate	8.176	69	45413	7.969	ug/L		84
72) 1,1,2-Trichloroethane	8.171	83	39060	9.322	ug/L		99
73) Chlorodibromomethane	8.379	129	54980	9.428	ug/L		98
74) 1,3-Dichloropropane	8.488	76	83844	9.680	ug/L		100
75) 1,2-Dibromoethane	8.646	107	45780	9.545	ug/L		97
77) 2-Hexanone	8.936	43	18283	8.065	ug/L		99
78) Chlorobenzene	9.298	112	180063	9.485	ug/L		98
79) Ethylbenzene	9.339	91	308513	9.235	ug/L		99
80) 1,1,1,2-Tetrachloroethane	9.379	131	57451	9.708	ug/L		97
81) p/m Xylene	9.524	106	243428	17.811	ug/L		99
82) o Xylene	10.072	106	242617	17.834	ug/L		99
83) Styrene	10.140	104	394864	17.040	ug/L		98
85) Bromoform	10.167	173	30042	8.784	ug/L		97
87) Isopropylbenzene	10.468	105	314895	9.402	ug/L		99
89) Bromobenzene	10.909	156	72796	9.744	ug/L		99
90) n-Propylbenzene	10.962	91	377544	9.353	ug/L		99
91) 1,4-Dichlorobutane	10.979	55	71021	9.631	ug/L		99
92) 1,1,2,2-Tetrachloroethane	11.054	83	52466	9.223	ug/L		99

Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A01.D
Acq On : 12 Mar 2025 9:27 am
Operator : ELAINE:PID
Sample : WG2039699-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2039699,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 12 10:30:25 2025
Quant Method : K:\Elaine\2025\250312A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 4-Ethyltoluene	11.089	105	315792	9.463	ug/L	100
94) 2-Chlorotoluene	11.129	91	224009M1	9.778	ug/L	
95) 1,3,5-Trimethylbenzene	11.191	105	268101	9.014	ug/L	100
96) 1,2,3-Trichloropropane	11.191	75	43319	9.001	ug/L	100
97) trans-1,4-Dichloro-2-b...	11.244	53	13443	8.212	ug/L	85
98) 4-Chlorotoluene	11.318	91	236357	9.943	ug/L	100
99) tert-Butylbenzene	11.534	119	237145	9.567	ug/L	99
102) 1,2,4-Trimethylbenzene	11.618	105	269228	9.246	ug/L	97
103) sec-Butylbenzene	11.728	105	344299	9.161	ug/L	98
104) p-Isopropyltoluene	11.887	119	304145	9.230	ug/L	100
105) 1,3-Dichlorobenzene	11.953	146	158235	9.733	ug/L	99
106) 1,4-Dichlorobenzene	12.045	146	150551	9.307	ug/L	99
107) p-Diethylbenzene	12.266	119	173743	8.895	ug/L	99
108) n-Butylbenzene	12.327	91	250153	8.850	ug/L	99
109) 1,2-Dichlorobenzene	12.473	146	147537	9.661	ug/L	99
110) 1,2,4,5-Tetramethylben...	13.068	119	284843	9.244	ug/L	99
111) 1,2-Dibromo-3-chloropr...	13.253	155	7264	8.290	ug/L	81
112) 1,3,5-Trichlorobenzene	13.288	180	109423	9.783	ug/L	99
113) Hexachlorobutadiene	13.869	225	30412	10.323	ug/L	99
114) 1,2,4-Trichlorobenzene	13.891	180	95095	9.875	ug/L	98
115) Naphthalene	14.182	128	205841	8.983	ug/L	100
116) 1,2,3-Trichlorobenzene	14.354	180	82625	9.358	ug/L	98

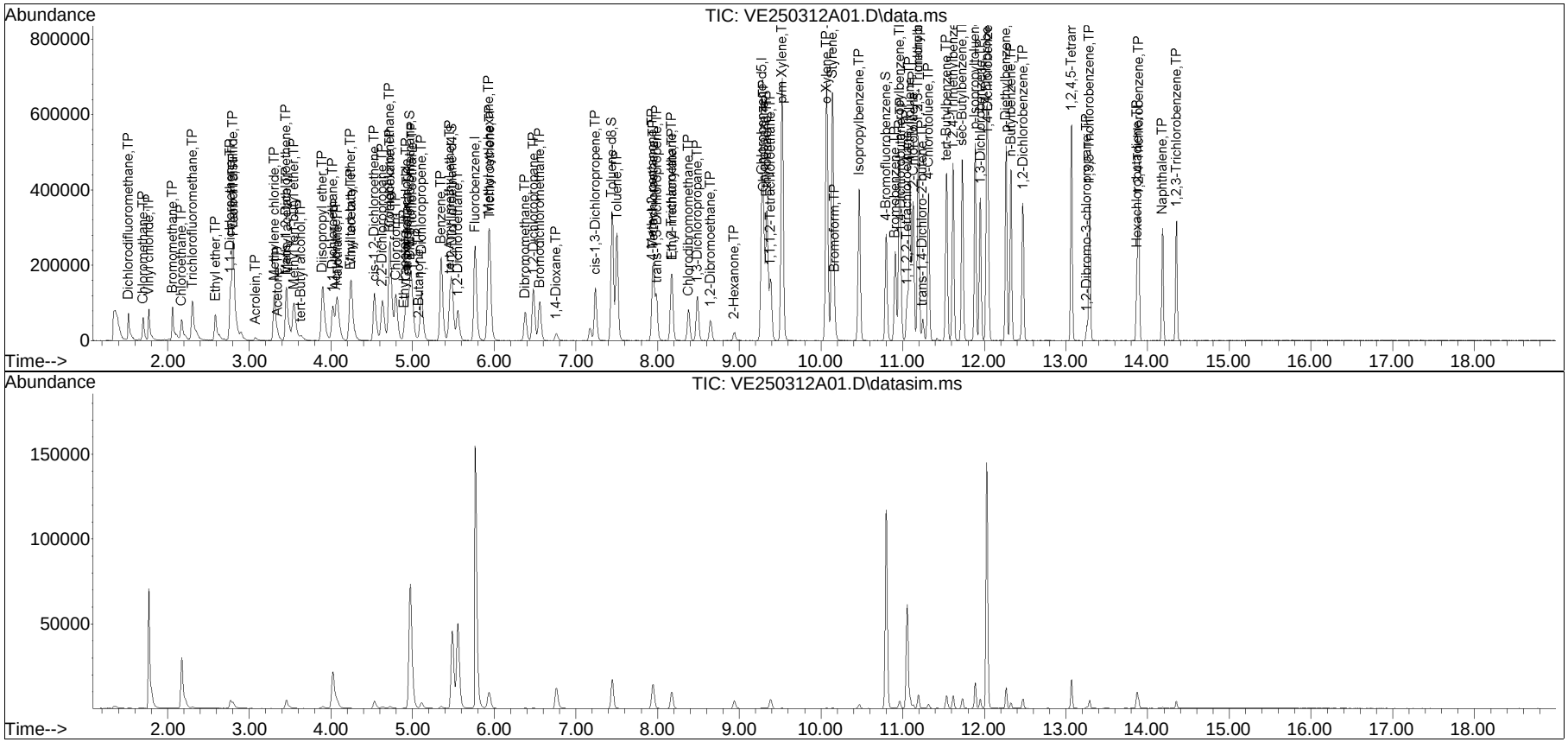
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A01.D
Acq On : 12 Mar 2025 9:27 am
Operator : ELAINE:PID
Sample : WG2039699-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2039699,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 12 10:30:25 2025
Quant Method : K:\Elaine\2025\250312A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

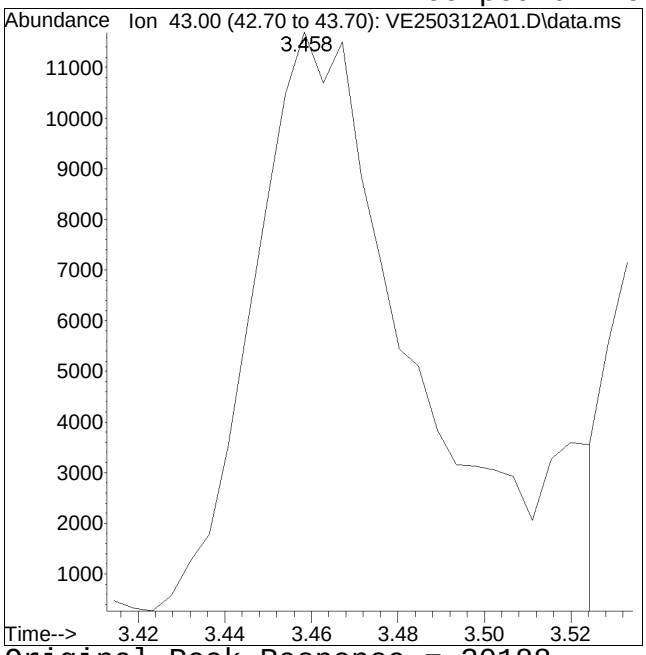


Manual Integration Report

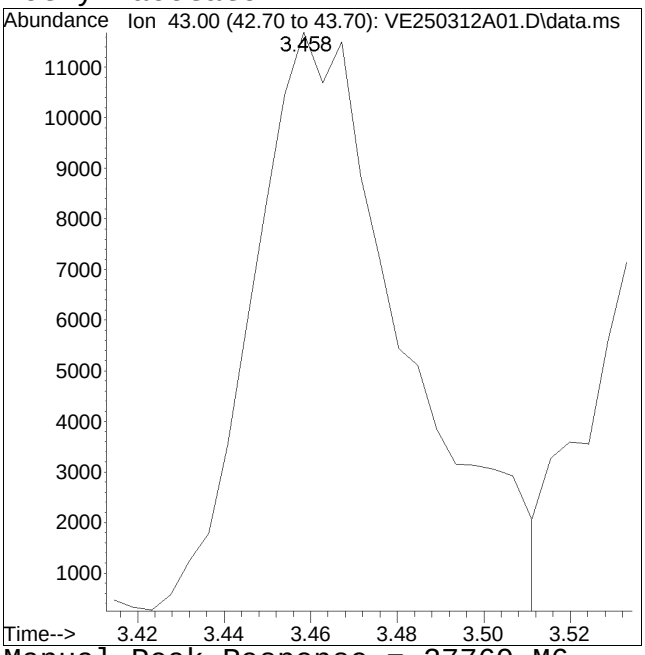
Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A01.D
Date Inj'd : 3/12/2025 9:27 am
Sample : WG2039699-2

QMethod : Elaine_250220N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 3/12/2025 10:29 am

Compound #19: Methyl acetate



Original Peak Response = 30188



Manual Peak Response = 27760 M6

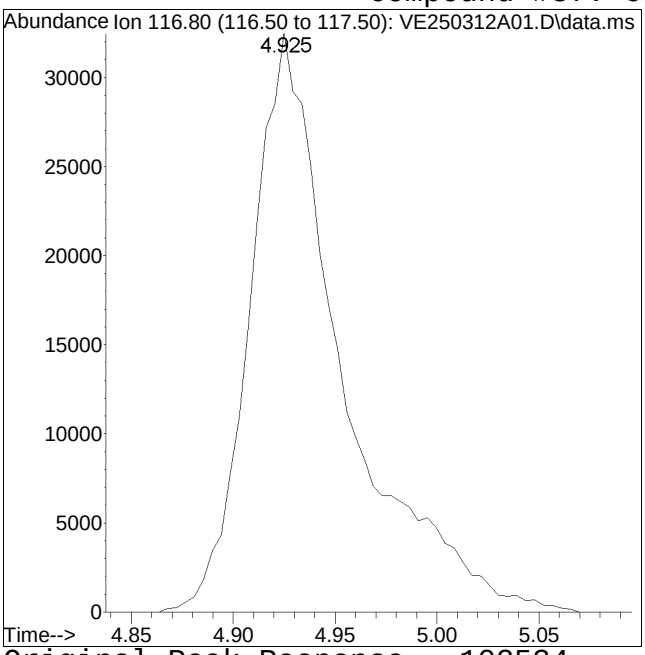
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

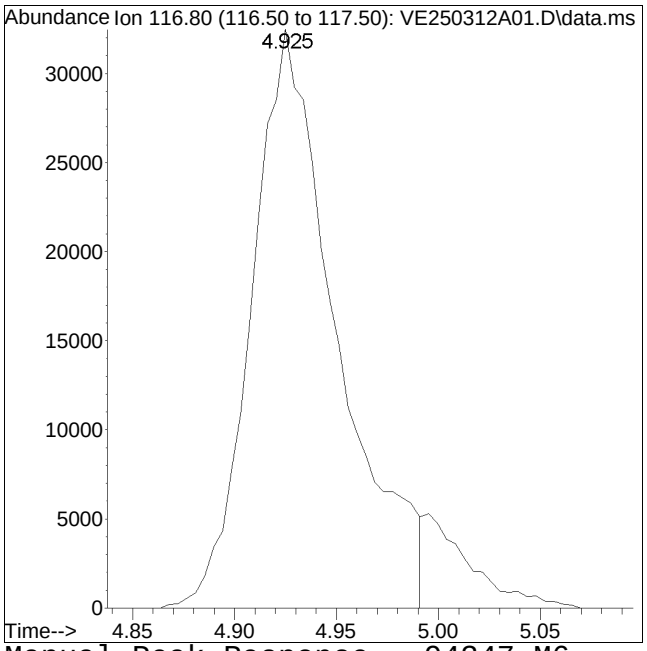
Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A01.D
Date Inj'd : 3/12/2025 9:27 am
Sample : WG2039699-2

QMethod : Elaine_250220N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 3/12/2025 10:29 am

Compound #37: Carbon tetrachloride



Original Peak Response = 102534



Manual Peak Response = 94347 M6

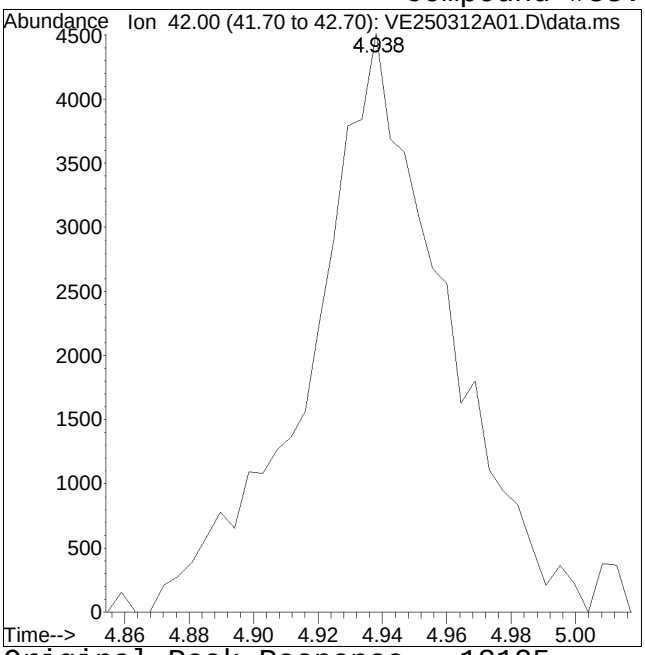
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

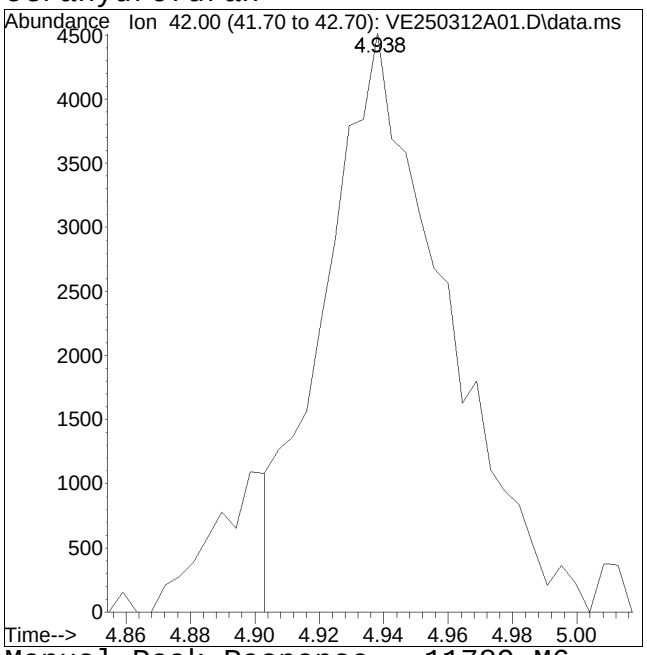
Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A01.D
Date Inj'd : 3/12/2025 9:27 am
Sample : WG2039699-2

QMethod : Elaine_250220N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 3/12/2025 10:29 am

Compound #38: Tetrahydrofuran



Original Peak Response = 13125



Manual Peak Response = 11789 M6

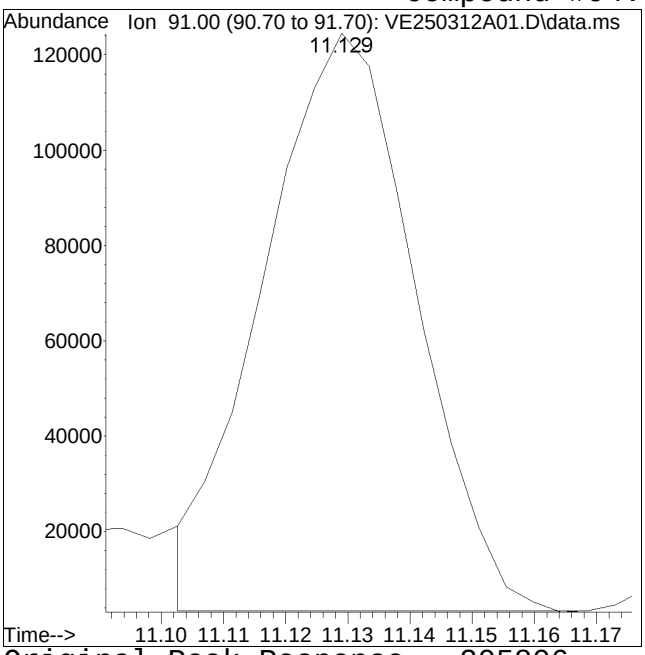
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

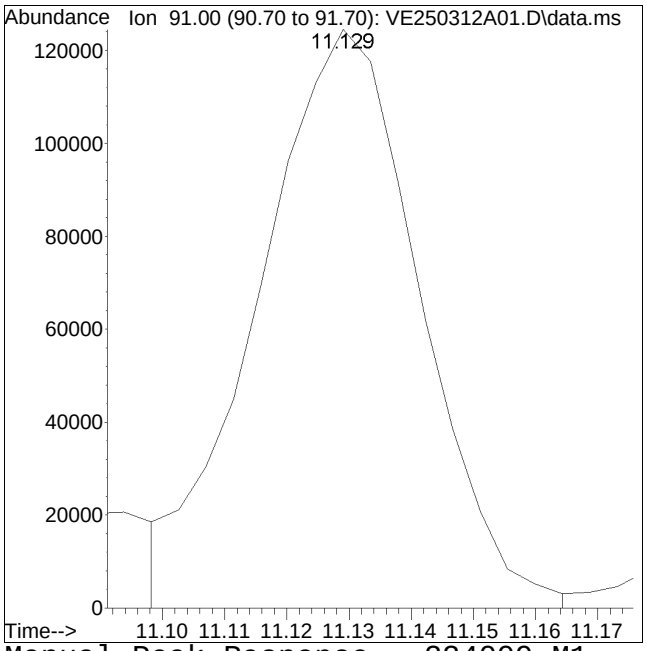
Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A01.D
Date Inj'd : 3/12/2025 9:27 am
Sample : WG2039699-2

QMethod : Elaine_250220N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 3/12/2025 10:29 am

Compound #94: 2-Chlorotoluene



Original Peak Response = 205806



Manual Peak Response = 224009 M1

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

Evaluate Continuing Calibration Report

Data Path : K:\VOA101\2025\250313A\
Data File : V01250313A04.D
Acq On : 13 Mar 2025 8:22 am
Operator : VOA101:PID
Sample : WG2040184-2
Misc : WG2040184,ICAL21969
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 13 09:16:03 2025
Quant Method : K:\VOA101\2025\250313A\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 12 10:30:07 2025
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	104	0.00
2	TP	Dichlorodifluoromethane	0.266	0.247	7.1	92	0.00
3	TP	Chloromethane	0.492	0.451	8.3	100	0.00
4	TP	Vinyl chloride	0.310	0.329	-6.1	111	0.00
5	TP	Bromomethane	* 10.000	11.064	-10.6	132	0.00
6	TP	Chloroethane	0.148	0.181	-22.3#	127	0.00
7	TP	Trichlorofluoromethane	0.323	0.329	-1.9	103	0.00
8	TP	Ethyl ether	0.082	0.092	-12.2	122	0.00
10	TP	1,1-Dichloroethene	0.218	0.221	-1.4	106	0.00
11	TP	Carbon disulfide	0.721	0.745	-3.3	111	0.00
12	TP	Freon-113	0.222	0.221	0.5	100	0.00
14	TP	Acrolein	0.032	0.030	6.3	98	0.00
15	TP	Methylene chloride	0.260	0.254	2.3	105	0.00
17	TP	Acetone	* 10.000	8.911	10.9	101	0.00
18	TP	trans-1,2-Dichloroethene	0.243	0.245	-0.8	105	0.00
19	TP	Methyl acetate	0.126	0.129	-2.4	109	0.00
20	TP	Methyl tert-butyl ether	0.509	0.495	2.8	105	0.00
21	TP	tert-Butyl alcohol	0.013	0.012	7.7	106	0.00
22	TP	Diisopropyl ether	1.021	1.051	-2.9	107	0.00
23	TP	1,1-Dichloroethane	0.523	0.548	-4.8	109	0.00
24	TP	Halothane	0.177	0.177	0.0	101	0.00
25	TP	Acrylonitrile	0.060	0.060	0.0	104	0.00
26	TP	Ethyl tert-butyl ether	0.743	0.747	-0.5	107	0.00
27	TP	Vinyl acetate	0.516	0.529	-2.5	106	0.00
28	TP	cis-1,2-Dichloroethene	0.266	0.267	-0.4	106	0.00
29	TP	2,2-Dichloropropane	0.321	0.356	-10.9	117	0.00
30	TP	Bromochloromethane	0.105	0.112	-6.7	107	0.00
31	TP	Cyclohexane	0.550	0.551	-0.2	99	0.00
32	TP	Chloroform	0.432	0.452	-4.6	107	0.00
33	TP	Ethyl acetate	0.167	0.181	-8.4	110	0.00
34	TP	Carbon tetrachloride	0.315	0.297	5.7	96	0.00
35	TP	Tetrahydrofuran	0.052	0.055	-5.8	106	0.00
36	S	Dibromofluoromethane	0.254	0.259	-2.0	106	0.00
37	TP	1,1,1-Trichloroethane	0.371	0.371	0.0	102	0.00
39	TP	2-Butanone	0.072	0.077	-6.9	118	0.00
40	TP	1,1-Dichloropropene	0.323	0.321	0.6	100	0.00
41	TP	Benzene	0.946	1.005	-6.2	108	0.00
42	TP	tert-Amyl methyl ether	0.509	0.505	0.8	108	0.00
43	S	1,2-Dichloroethane-d4	0.292	0.291	0.3	105	0.00

Data Path : K:\VOA101\2025\250313A\
Data File : V01250313A04.D
Acq On : 13 Mar 2025 8:22 am
Operator : VOA101:PID
Sample : WG2040184-2
Misc : WG2040184,ICAL21969
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 13 09:16:03 2025
Quant Method : K:\VOA101\2025\250313A\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 12 10:30:07 2025
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44	TP	1,2-Dichloroethane	0.312	0.313	-0.3	103	0.00
47	TP	Methyl cyclohexane	0.425	0.429	-0.9	102	0.00
48	TP	Trichloroethene	0.261	0.265	-1.5	106	0.00
50	TP	Dibromomethane	0.120	0.122	-1.7	106	0.00
51	TP	1,2-Dichloropropane	0.289	0.295	-2.1	108	0.00
54	TP	Bromodichloromethane	0.321	0.318	0.9	104	0.00
57	TP	1,4-Dioxane	0.00128	0.00112#	12.5	86	0.00
58	TP	cis-1,3-Dichloropropene	* 10.000	9.076	9.2	106	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.00
60	S	Toluene-d8	1.329	1.370	-3.1	104	0.00
61	TP	Toluene	0.799	0.862	-7.9	109	0.00
62	TP	4-Methyl-2-pentanone	0.077	0.071	7.8	104	0.00
63	TP	Tetrachloroethene	0.320	0.347	-8.4	106	0.00
65	TP	trans-1,3-Dichloropropene	* 10.000	9.274	7.3	100	0.00
67	TP	Ethyl methacrylate	0.270	0.243	10.0	102	0.00
68	TP	1,1,2-Trichloroethane	0.200	0.214	-7.0	107	0.00
69	TP	Chlorodibromomethane	0.276	0.268	2.9	100	0.00
70	TP	1,3-Dichloropropane	0.410	0.436	-6.3	106	0.00
71	TP	1,2-Dibromoethane	0.217	0.221	-1.8	102	0.00
72	TP	2-Hexanone	0.135	0.124	8.1	107	0.00
73	TP	Chlorobenzene	0.887	0.940	-6.0	107	0.00
74	TP	Ethylbenzene	1.543	1.667	-8.0	106	0.00
75	TP	1,1,1,2-Tetrachloroethane	0.311	0.314	-1.0	102	0.00
76	TP	p/m Xylene	0.589	0.649	-10.2	107	0.00
77	TP	o Xylene	0.568	0.624	-9.9	107	0.00
78	TP	Styrene	0.871	0.973	-11.7	108	0.00
79	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00
80	TP	Bromoform	0.278	0.256	7.9	96	0.00
82	TP	Isopropylbenzene	2.756	2.939	-6.6	106	0.00
83	S	4-Bromofluorobenzene	0.979	0.959	2.0	100	0.00
84	TP	Bromobenzene	0.622	0.662	-6.4	106	0.00
85	TP	n-Propylbenzene	3.228	3.585	-11.1	109	0.00
86	TP	1,4-Dichlorobutane	0.845	0.906	-7.2	108	0.00
87	TP	1,1,2,2-Tetrachloroethane	0.488	0.527	-8.0	108	0.00
88	TP	4-Ethyltoluene	2.673	2.858	-6.9	107	0.00
89	TP	2-Chlorotoluene	1.967	2.156	-9.6	110	0.00
90	TP	1,3,5-Trimethylbenzene	2.212	2.387	-7.9	109	0.00

Evaluate Continuing Calibration Report

Data Path : K:\VOA101\2025\250313A\
Data File : V01250313A04.D
Acq On : 13 Mar 2025 8:22 am
Operator : VOA101:PID
Sample : WG2040184-2
Misc : WG2040184,ICAL21969
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 13 09:16:03 2025
Quant Method : K:\VOA101\2025\250313A\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 12 10:30:07 2025
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
91 TP	1,2,3-Trichloropropane	0.386	0.398	-3.1	106	0.00
92 TP	trans-1,4-Dichloro-2-butene	0.108	0.069	36.1#	72	0.00
93 TP	4-Chlorotoluene	1.955	2.129	-8.9	110	0.00
94 TP	tert-Butylbenzene	1.907	2.013	-5.6	105	0.00
97 TP	1,2,4-Trimethylbenzene	2.097	2.266	-8.1	107	0.00
98 TP	sec-Butylbenzene	2.665	2.892	-8.5	108	0.00
99 TP	p-Isopropyltoluene	2.268	2.434	-7.3	107	0.00
100 TP	1,3-Dichlorobenzene	1.131	1.225	-8.3	110	0.00
101 TP	1,4-Dichlorobenzene	1.159	1.216	-4.9	109	0.00
102 TP	p-Diethylbenzene	1.284	1.347	-4.9	107	0.00
103 TP	n-Butylbenzene	1.826	2.050	-12.3	113	0.00
104 TP	1,2-Dichlorobenzene	1.002	1.050	-4.8	107	0.00
105 TP	1,2,4,5-Tetramethylbenzene	1.710	1.651	3.5	99	0.00
106 TP	1,2-Dibromo-3-chloropropane *	10.000	8.107	18.9	91	0.00
107 TP	1,3,5-Trichlorobenzene	0.614	0.635	-3.4	108	0.00
108 TP	Hexachlorobutadiene	0.224	0.225	-0.4	104	0.00
109 TP	1,2,4-Trichlorobenzene	0.474	0.451	4.9	101	0.00
110 TP	Naphthalene	0.867	0.662	23.6#	84	0.00
111 TP	1,2,3-Trichlorobenzene	0.362	0.316#	12.7	92	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 2 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2025\250313A\
Data File : V01250313A04.D
Acq On : 13 Mar 2025 8:22 am
Operator : VOA101:PID
Sample : WG2040184-2
Misc : WG2040184,ICAL21969
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 13 09:16:03 2025
Quant Method : K:\VOA101\2025\250313A\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 12 10:30:07 2025
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.896	96	602809	10.000	ug/L	0.00
59) Chlorobenzene-d5	9.413	117	429416	10.000	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	12.140	152	232552	10.000	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	5.096	113	155926	10.174	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.74%			
43) 1,2-Dichloroethane-d4	5.614	65	175691	9.995	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.95%			
60) Toluene-d8	7.572	98	588329	10.313	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.13%			
83) 4-Bromofluorobenzene	10.924	95	223122	9.800	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.00%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.621	85	148979	9.289	ug/L	98
3) Chloromethane	1.805	50	271728	9.156	ug/L	100
4) Vinyl chloride	1.875	62	198614	10.631	ug/L	96
5) Bromomethane	2.173	94	42755	11.064	ug/L	98
6) Chloroethane	2.288	64	109021	12.244	ug/L	97
7) Trichlorofluoromethane	2.421	101	198595	10.196	ug/L	99
8) Ethyl ether	2.709	74	55428	11.165	ug/L	94
10) 1,1-Dichloroethene	2.890	96	133154	10.151	ug/L	99
11) Carbon disulfide	2.923	76	449032	10.335	ug/L	99
12) Freon-113	2.923	101	133359	9.981	ug/L	85
14) Acrolein	3.205	56	17803	9.222	ug/L	91
15) Methylene chloride	3.434	84	153332	9.796	ug/L	97
17) Acetone	3.481	43	27348	8.911	ug/L	95
18) trans-1,2-Dichloroethene	3.582	96	147824	10.092	ug/L	98
19) Methyl acetate	3.593	43	77562	10.237	ug/L	99
20) Methyl tert-butyl ether	3.676	73	298547	9.736	ug/L	98
21) tert-Butyl alcohol	3.774	59	37608	48.546	ug/L #	65
22) Diisopropyl ether	4.028	45	633328	10.289	ug/L	99
23) 1,1-Dichloroethane	4.150	63	330447	10.491	ug/L	99
24) Halothane	4.203	117	106688	9.991	ug/L	99
25) Acrylonitrile	4.201	53	36319M1	10.007	ug/L	
26) Ethyl tert-butyl ether	4.371	59	450594	10.062	ug/L	99
27) Vinyl acetate	4.385	43	319097	10.264	ug/L	99
28) cis-1,2-Dichloroethene	4.661	96	161155	10.048	ug/L	99
29) 2,2-Dichloropropane	4.758	77	214717	11.100	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2025\250313A\
Data File : V01250313A04.D
Acq On : 13 Mar 2025 8:22 am
Operator : VOA101:PID
Sample : WG2040184-2
Misc : WG2040184,ICAL21969
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 13 09:16:03 2025
Quant Method : K:\VOA101\2025\250313A\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 12 10:30:07 2025
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
30) Bromochloromethane	4.853	128	67437	10.666	ug/L		98
31) Cyclohexane	4.853	56	331859	10.017	ug/L		99
32) Chloroform	4.926	83	272211	10.450	ug/L		99
33) Ethyl acetate	5.034	43	109085	10.819	ug/L		99
34) Carbon tetrachloride	5.054	117	178904	9.417	ug/L		98
35) Tetrahydrofuran	5.082	42	32962M1	10.532	ug/L		
37) 1,1,1-Trichloroethane	5.118	97	223866	10.021	ug/L	#	97
39) 2-Butanone	5.221	43	46593	10.764	ug/L	#	66
40) 1,1-Dichloropropene	5.241	75	193526	9.927	ug/L		99
41) Benzene	5.481	78	605812	10.620	ug/L		99
42) tert-Amyl methyl ether	5.595	73	304554	9.930	ug/L		95
44) 1,2-Dichloroethane	5.684	62	188668	10.031	ug/L		98
47) Methyl cyclohexane	6.061	83	258328	10.090	ug/L		98
48) Trichloroethene	6.075	95	159859	10.145	ug/L		98
50) Dibromomethane	6.512	93	73641	10.153	ug/L		99
51) 1,2-Dichloropropane	6.613	63	177953	10.222	ug/L		98
54) Bromodichloromethane	6.685	83	191496	9.907	ug/L		99
57) 1,4-Dioxane	6.897	88	33797M1	436.333	ug/L		
58) cis-1,3-Dichloropropene	7.371	75	194250	9.076	ug/L		98
61) Toluene	7.633	92	370125	10.789	ug/L		100
62) 4-Methyl-2-pentanone	8.066	58	30649	9.236	ug/L		94
63) Tetrachloroethene	8.082	166	148875	10.828	ug/L		99
65) trans-1,3-Dichloropropene	8.116	75	148164	9.274	ug/L		97
67) Ethyl methacrylate	8.308	69	104172	8.970	ug/L		98
68) 1,1,2-Trichloroethane	8.300	83	92094	10.719	ug/L		98
69) Chlorodibromomethane	8.515	129	115188	9.707	ug/L		100
70) 1,3-Dichloropropane	8.621	76	187438	10.654	ug/L		98
71) 1,2-Dibromoethane	8.785	107	94993	10.191	ug/L		98
72) 2-Hexanone	9.084	43	53115M3	9.177	ug/L		
73) Chlorobenzene	9.432	112	403650	10.601	ug/L		99
74) Ethylbenzene	9.468	91	715715	10.804	ug/L		100
75) 1,1,1,2-Tetrachloroethane	9.516	131	135000	10.118	ug/L		98
76) p/m Xylene	9.655	106	557088	22.039	ug/L		100
77) o Xylene	10.202	106	536119	21.966	ug/L		99
78) Styrene	10.269	104	835887	22.341	ug/L		98
80) Bromoform	10.297	173	59628	9.213	ug/L		98
82) Isopropylbenzene	10.589	105	683411	10.662	ug/L		100
84) Bromobenzene	11.030	156	154053	10.654	ug/L		100
85) n-Propylbenzene	11.077	91	833630	11.104	ug/L		99
86) 1,4-Dichlorobutane	11.094	55	210662	10.721	ug/L		99
87) 1,1,2,2-Tetrachloroethane	11.169	83	122488	10.787	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2025\250313A\
Data File : V01250313A04.D
Acq On : 13 Mar 2025 8:22 am
Operator : VOA101:PID
Sample : WG2040184-2
Misc : WG2040184,ICAL21969
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 13 09:16:03 2025
Quant Method : K:\VOA101\2025\250313A\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 12 10:30:07 2025
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
88) 4-Ethyltoluene	11.203	105	664575	10.691	ug/L		100
89) 2-Chlorotoluene	11.245	91	501323M1	10.960	ug/L		
90) 1,3,5-Trimethylbenzene	11.303	105	555060	10.790	ug/L		97
91) 1,2,3-Trichloropropane	11.306	75	92665M1	10.315	ug/L		
92) trans-1,4-Dichloro-2-b...	11.367	53	16061	6.396	ug/L	#	30
93) 4-Chlorotoluene	11.432	91	494998	10.888	ug/L		99
94) tert-Butylbenzene	11.644	119	468140	10.559	ug/L		100
97) 1,2,4-Trimethylbenzene	11.727	105	526919	10.806	ug/L		99
98) sec-Butylbenzene	11.836	105	672536	10.852	ug/L		100
99) p-Isopropyltoluene	11.992	119	566102	10.735	ug/L		100
100) 1,3-Dichlorobenzene	12.065	146	284845	10.831	ug/L		100
101) 1,4-Dichlorobenzene	12.157	146	282818	10.489	ug/L		99
102) p-Diethylbenzene	12.369	119	313255	10.487	ug/L		99
103) n-Butylbenzene	12.427	91	476783	11.229	ug/L		98
104) 1,2-Dichlorobenzene	12.581	146	244288	10.483	ug/L		100
105) 1,2,4,5-Tetramethylben...	13.169	119	383928	9.652	ug/L		98
106) 1,2-Dibromo-3-chloropr...	13.370	155	10846	8.107	ug/L		92
107) 1,3,5-Trichlorobenzene	13.398	180	147780	10.346	ug/L		99
108) Hexachlorobutadiene	13.975	225	52216	10.006	ug/L		96
109) 1,2,4-Trichlorobenzene	14.003	180	104837	9.506	ug/L		98
110) Naphthalene	14.293	128	153964	7.639	ug/L		100
111) 1,2,3-Trichlorobenzene	14.460	180	73445	8.712	ug/L		99

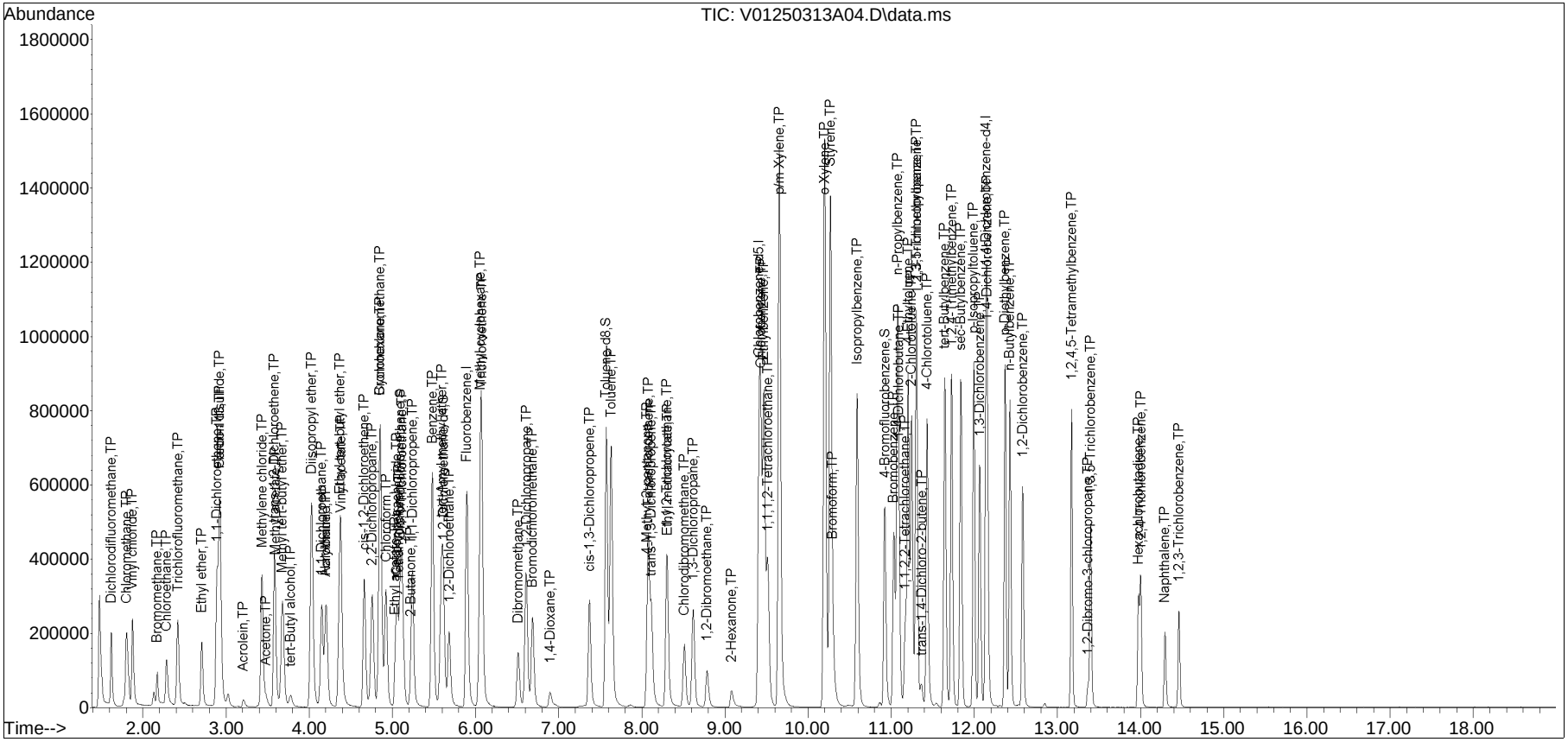
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2025\250313A\
Data File : V01250313A04.D
Acq On : 13 Mar 2025 8:22 am
Operator : VOA101:PID
Sample : WG2040184-2
Misc : WG2040184,ICAL21969
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 13 09:16:03 2025
Quant Method : K:\VOA101\2025\250313A\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 12 10:30:07 2025
Response via : Initial Calibration

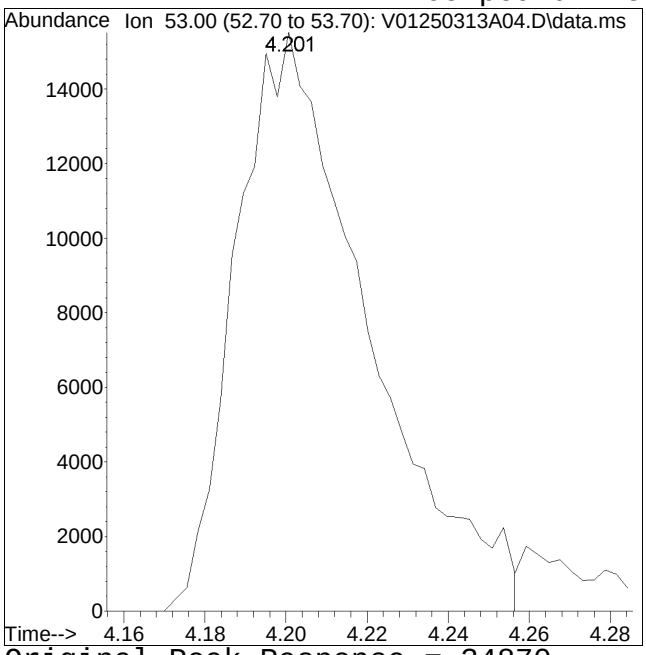
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

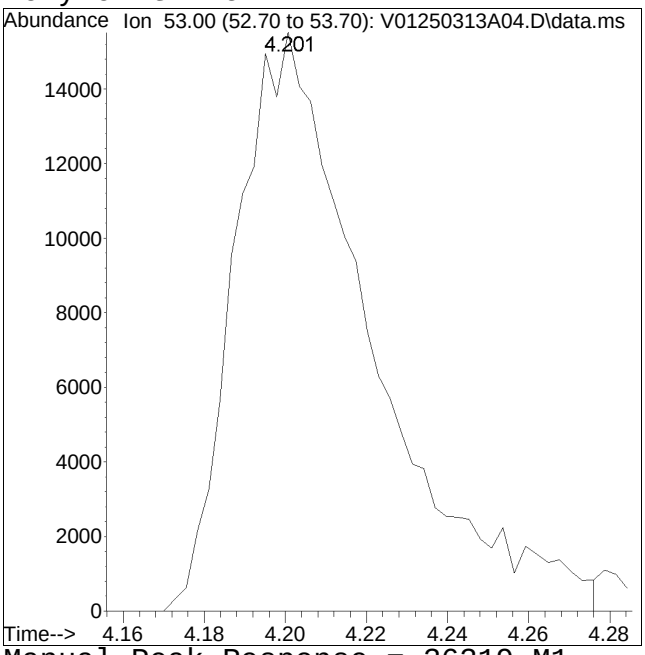


Manual Integration Report

Data Path	: K:\VOA101\2025\250313A\	QMethod	: V101_250208A_8260.m
Data File	: V01250313A04.D	Operator	: VOA101:PID
Date Inj'd	: 3/13/2025 8:22 am	Instrument	: VOA 101
Sample	: WG2040184-2	Quant Date	: 3/13/2025 9:14 am

Compound #25: Acrylonitrile





Original Peak Response = 34870 Manual Peak Response = 36319 M1

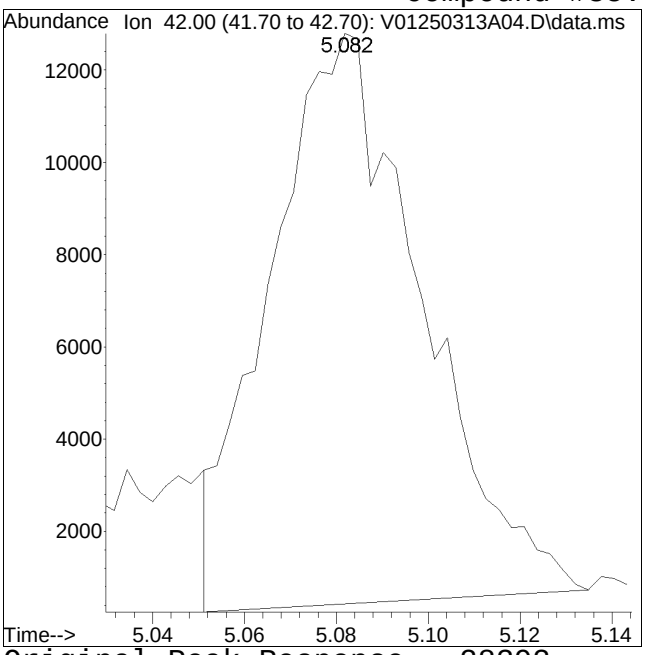
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

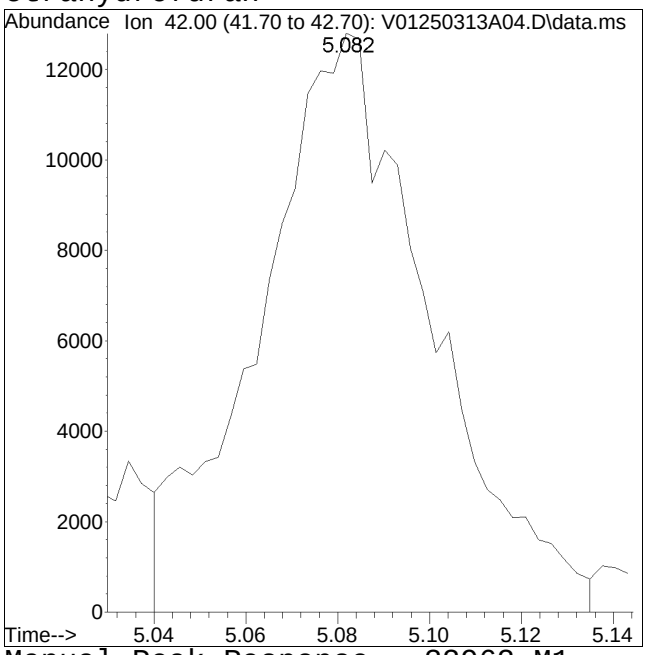
Data Path : K:\VOA101\2025\250313A\
Data File : V01250313A04.D
Date Inj'd : 3/13/2025 8:22 am
Sample : WG2040184-2

QMethod : V101_250208A_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 3/13/2025 9:14 am

Compound #35: Tetrahydrofuran



Original Peak Response = 28392



Manual Peak Response = 32962 M1

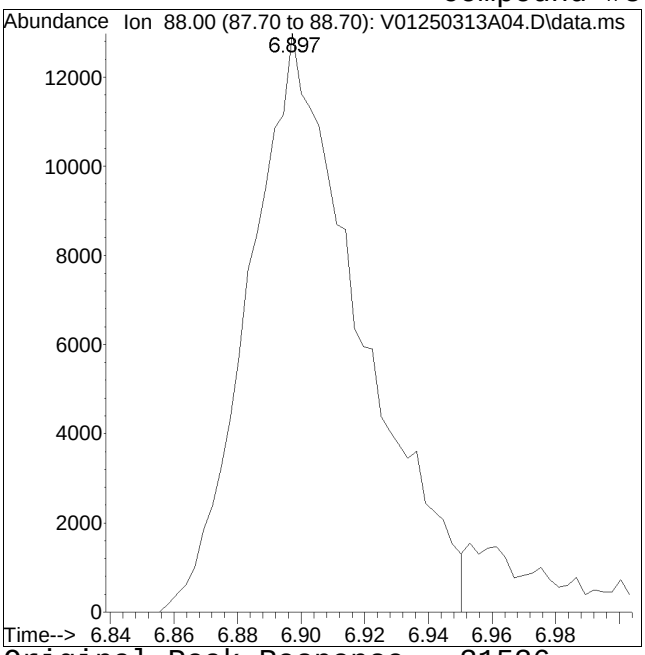
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

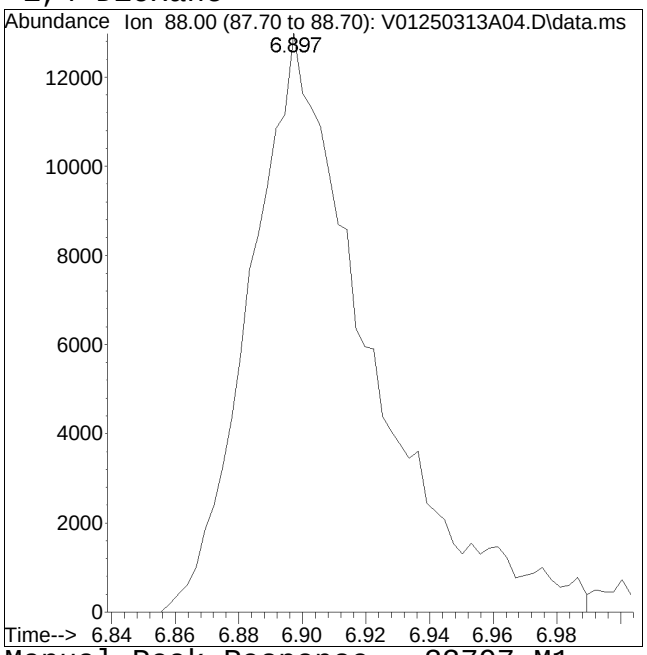
Data Path : K:\VOA101\2025\250313A\
Data File : V01250313A04.D
Date Inj'd : 3/13/2025 8:22 am
Sample : WG2040184-2

QMethod : V101_250208A_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 3/13/2025 9:14 am

Compound #57: 1,4-Dioxane



Original Peak Response = 31536



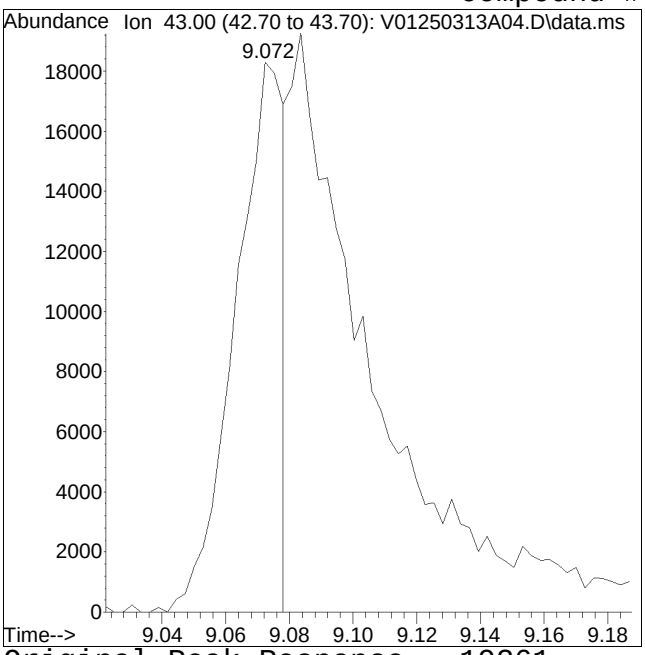
Manual Peak Response = 33797 M1

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

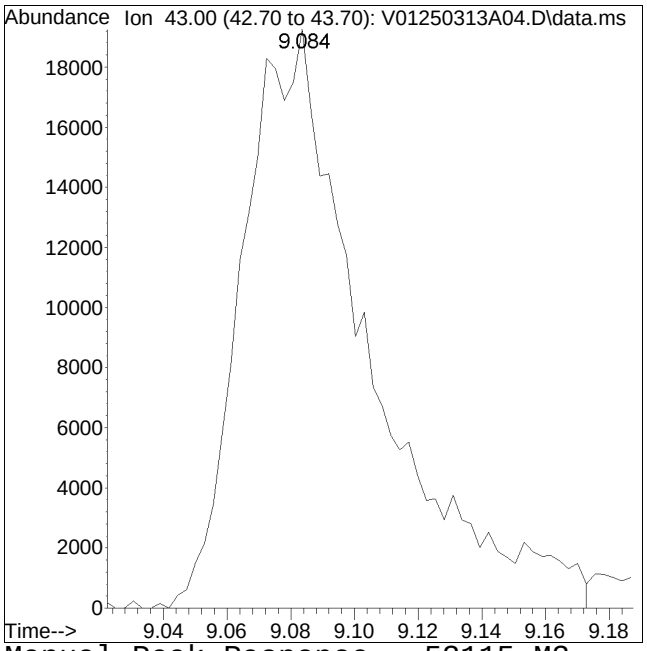
Manual Integration Report

Data Path	: K:\VOA101\2025\250313A\	QMethod	: V101_250208A_8260.m
Data File	: V01250313A04.D	Operator	: VOA101:PID
Date Inj'd	: 3/13/2025 8:22 am	Instrument	: VOA 101
Sample	: WG2040184-2	Quant Date	: 3/13/2025 9:14 am

Compound #72: 2-Hexanone



Original Peak Response = 19261



Manual Peak Response = 53115 M3

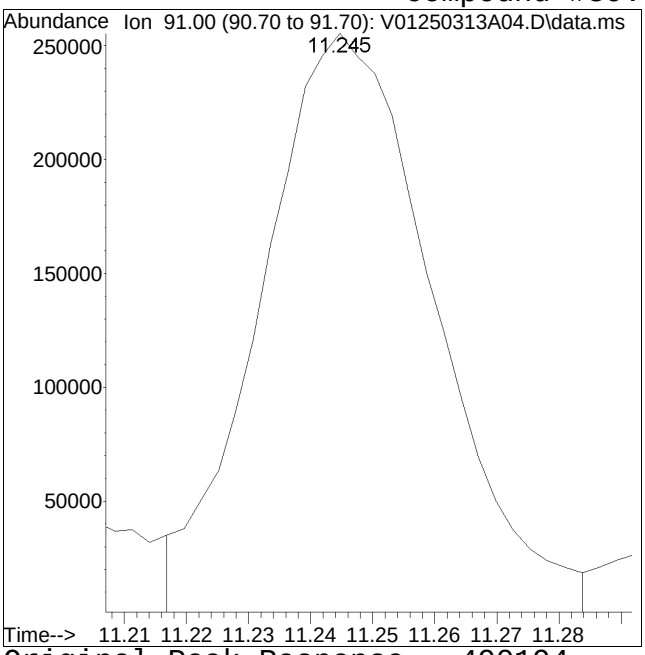
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

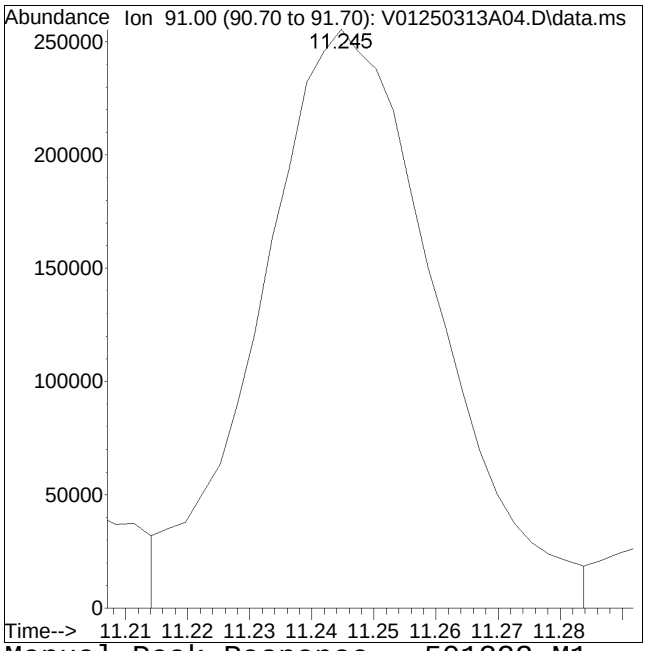
Data Path : K:\VOA101\2025\250313A\
Data File : V01250313A04.D
Date Inj'd : 3/13/2025 8:22 am
Sample : WG2040184-2

QMethod : V101_250208A_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 3/13/2025 9:14 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 490194



Manual Peak Response = 501323 M1

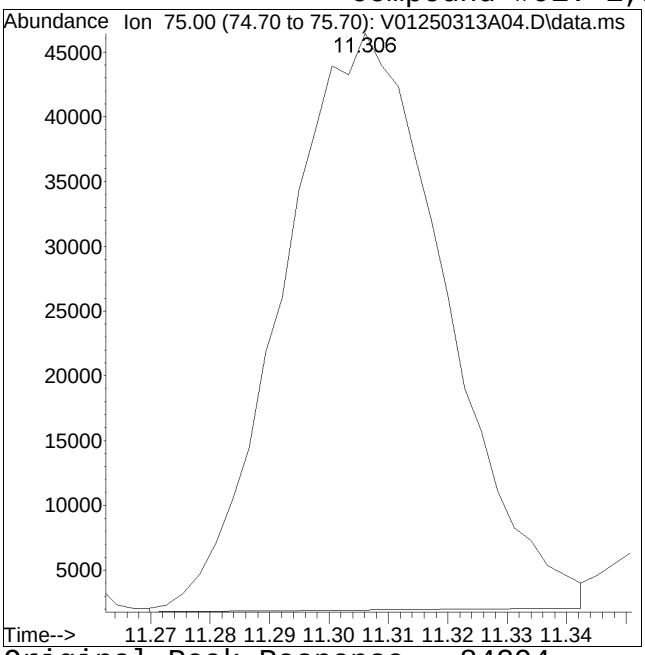
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

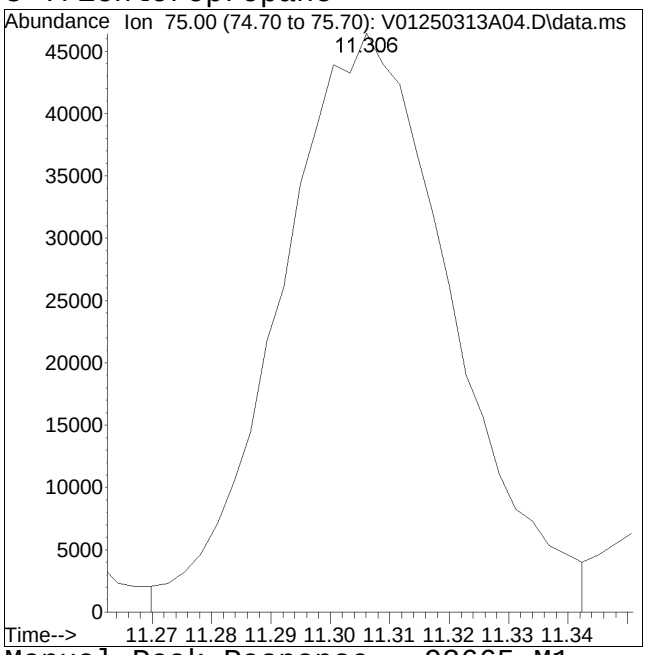
Data Path : K:\VOA101\2025\250313A\
Data File : V01250313A04.D
Date Inj'd : 3/13/2025 8:22 am
Sample : WG2040184-2

QMethod : V101_250208A_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 3/13/2025 9:14 am

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 84294



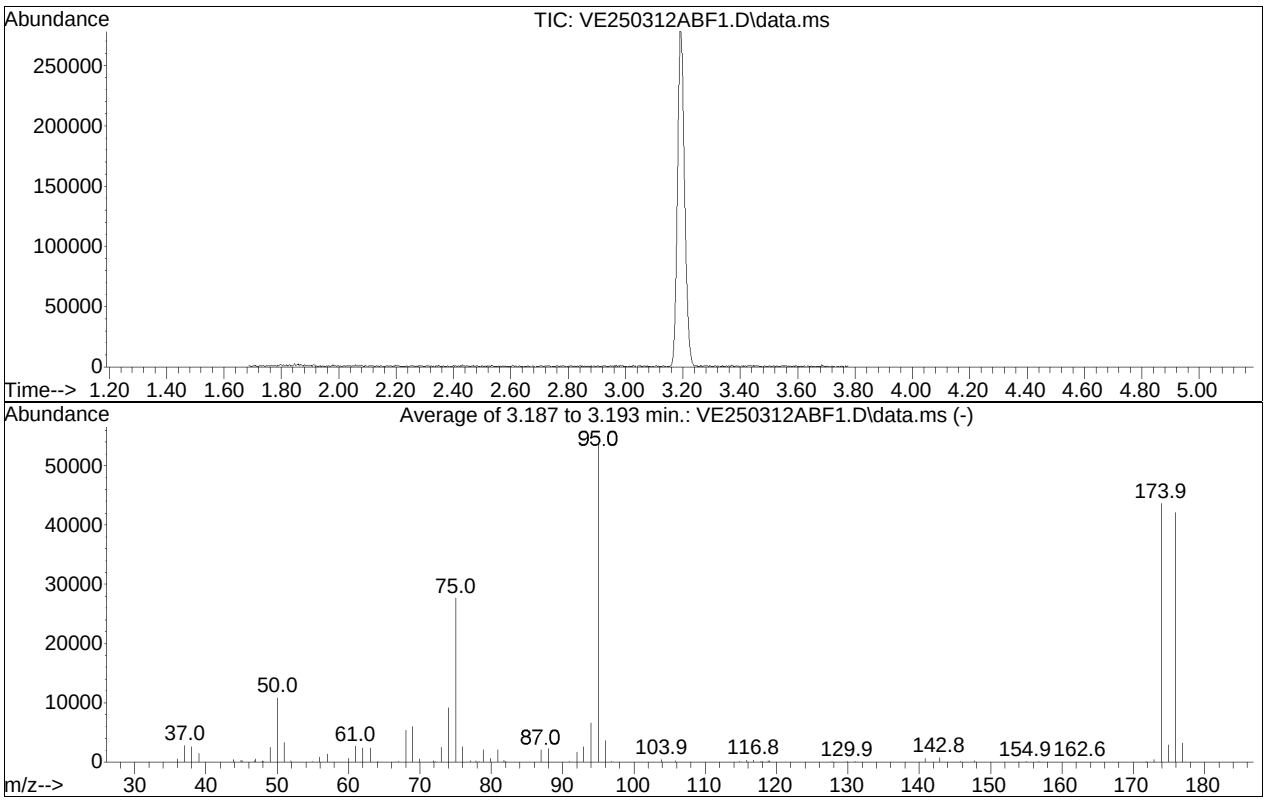
Manual Peak Response = 92665 M1

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

Data Path : K:\Elaine\2025\250312A\
Data File : VE250312ABF1.D
Acq On : 12 Mar 2025 9:13 am
Operator : ELAINE:PID
Sample : WG2039699-1
Misc : WG2039699
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\Elaine\2025\250312A\Elaine_250220N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Mon Feb 24 07:16:52 2025



AutoFind: Scans 539, 540, 541; Background Corrected with Scan 525

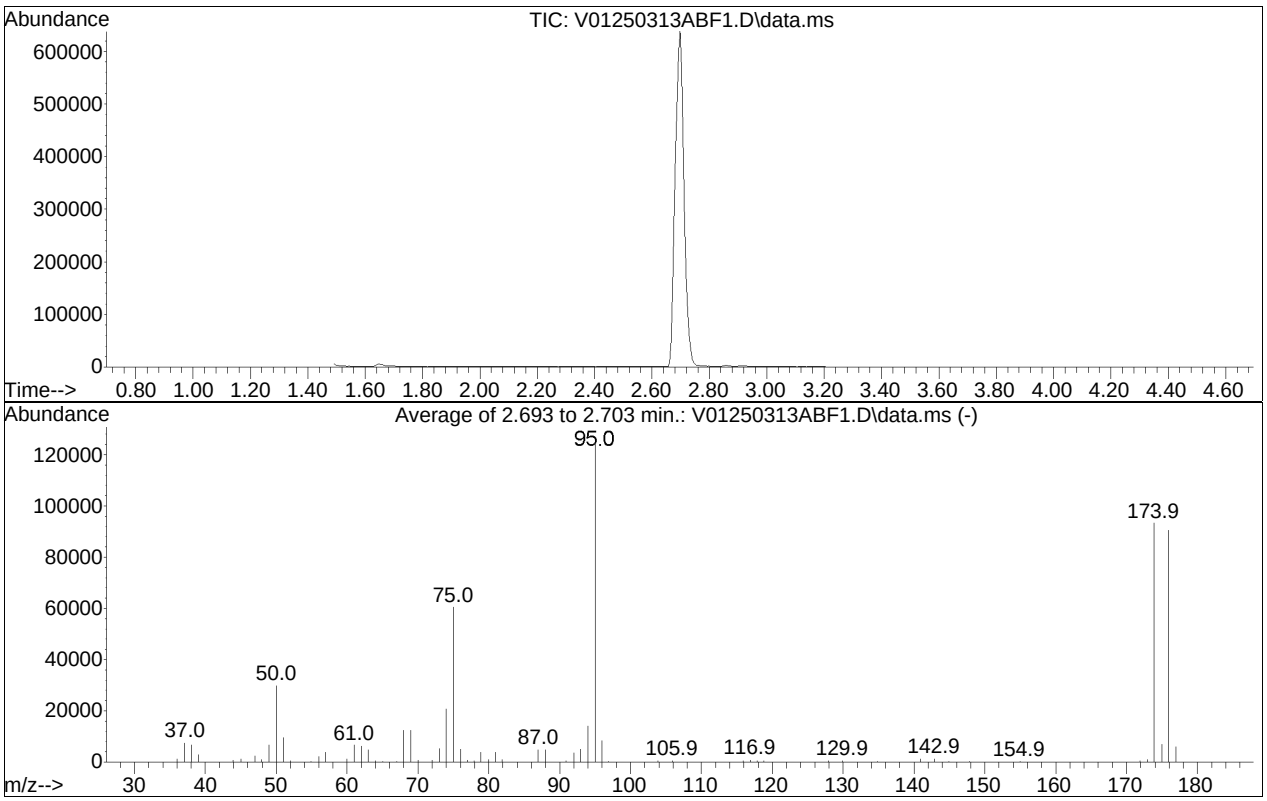
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.2	10885	PASS
75	95	30	60	51.5	27768	PASS
95	95	100	100	100.0	53899	PASS
96	95	5	9	6.7	3632	PASS
173	174	0.00	2	1.0	433	PASS
174	95	50	100	81.0	43664	PASS
175	174	5	9	6.7	2907	PASS
176	174	95	101	96.4	42099	PASS
177	176	5	9	7.5	3169	PASS

BFB

Data Path : K:\VOA101\2025\250313A\
Data File : V01250313ABF1.D
Acq On : 13 Mar 2025 6:49 am
Operator : VOA101:PID
Sample : WG2040184-1
Misc : WG2040184
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\VOA101\2025\250313A\V101_250208A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed Feb 12 10:30:07 2025



AutoFind: Scans 230, 231, 232; Background Corrected with Scan 220

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.0	29885	PASS
75	95	30	60	48.5	60555	PASS
95	95	100	100	100.0	124736	PASS
96	95	5	9	6.7	8397	PASS
173	174	0.00	2	1.2	1094	PASS
174	95	50	100	75.0	93520	PASS
175	174	5	9	7.6	7082	PASS
176	174	95	101	96.9	90608	PASS
177	176	5	9	6.7	6033	PASS

Volatiles Raw QC Data

Quantitation Report (QT/LSC Reviewed)

Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A05.D
Acq On : 12 Mar 2025 11:04 am
Operator : ELAINE:PID
Sample : WG2039699-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
Misc : WG2039699,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 12 11:27:36 2025
Quant Method : K:\Elaine\2025\250312A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250312A\VE250312A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.768	96	274730	10.000 ug/L	0.00
Standard Area 1 = 297682			Recovery = 92.29%		
63) Chlorobenzene-d5	9.280	117	205795	10.000 ug/L	0.00
Standard Area 1 = 223126			Recovery = 92.23%		
84) 1,4-Dichlorobenzene-d4	12.032	152	112538	10.000 ug/L	0.00
Standard Area 1 = 121415			Recovery = 92.69%		
System Monitoring Compounds					
39) Dibromofluoromethane	4.978	113	80163	10.692 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.92%		
47) 1,2-Dichloroethane-d4	5.491	65	83267	10.491 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.91%		
64) Toluene-d8	7.447	98	268499	9.861 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.61%		
88) 4-Bromofluorobenzene	10.799	95	98024	10.884 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.84%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.386	85	162	N.D.	
3) Chloromethane	1.698	50	83	N.D.	
4) Vinyl chloride	0.000		0	N.D.	
5) Bromomethane	2.097	94	160	N.D.	
6) Chloroethane	2.185	64	61	N.D.	
7) Trichlorofluoromethane	0.000		0	N.D.	
10) 1,1-Dichloroethene	2.774	96	44	N.D.	
11) Carbon disulfide	2.804	76	598	N.D.	
12) Freon-113	0.000		0	N.D.	
15) Methylene chloride	3.309	84	121	N.D.	
17) Acetone	0.000		0	N.D.	d
18) trans-1,2-Dichloroethene	3.467	96	67	N.D.	
19) Methyl acetate	3.463	43	43	N.D.	
21) Methyl tert-butyl ether	3.423	73	40	N.D.	
25) 1,1-Dichloroethane	3.880	63	41	N.D.	
30) cis-1,2-Dichloroethene	4.446	96	60	N.D.	
33) Bromochloromethane	4.859	128	41	N.D.	
34) Cyclohexane	4.666	56	49	N.D.	
35) Chloroform	4.789	83	40	N.D.	
37) Carbon tetrachloride	0.000		0	N.D.	

Quantitation Report (QT/LSC Reviewed)

Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A05.D
Acq On : 12 Mar 2025 11:04 am
Operator : ELAINE:PID
Sample : WG2039699-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
Misc : WG2039699,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 12 11:27:36 2025
Quant Method : K:\Elaine\2025\250312A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250312A\VE250312A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
40) 1,1,1-Trichloroethane	4.991	97	41	N.D.	
42) 2-Butanone	5.087	43	1250M3	0.816 ug/L	
45) Benzene	0.000		0	N.D.	
48) 1,2-Dichloroethane	5.592	62	40	N.D.	
51) Methyl cyclohexane	0.000		0	N.D.	
52) Trichloroethene	0.000		0	N.D.	
55) 1,2-Dichloropropane	0.000		0	N.D.	
58) Bromodichloromethane	6.592	83	42	N.D.	
62) cis-1,3-Dichloropropene	7.235	75	45	N.D.	
65) Toluene	7.511	92	41	N.D.	
66) 4-Methyl-2-pentanone	7.891	58	48	N.D.	
67) Tetrachloroethene	0.000		0	N.D.	
69) trans-1,3-Dichloropropene	0.000		0	N.D.	
72) 1,1,2-Trichloroethane	8.221	83	45	N.D.	
73) Chlorodibromomethane	8.475	129	43	N.D.	
75) 1,2-Dibromoethane	0.000		0	N.D.	
77) 2-Hexanone	8.900	43	49	N.D.	
78) Chlorobenzene	9.294	112	141	N.D.	
79) Ethylbenzene	9.339	91	232	N.D.	
81) p/m Xylene	9.524	106	56	N.D.	
82) o Xylene	9.941	106	54	N.D.	
83) Styrene	10.149	104	59	N.D.	
85) Bromoform	0.000		0	N.D.	d
87) Isopropylbenzene	10.468	105	125	N.D.	
92) 1,1,2,2-Tetrachloroethane	10.966	83	40	N.D.	
105) 1,3-Dichlorobenzene	11.962	146	178	N.D.	
106) 1,4-Dichlorobenzene	12.054	146	157	N.D.	
109) 1,2-Dichlorobenzene	12.486	146	113	N.D.	
111) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	d
114) 1,2,4-Trichlorobenzene	13.892	180	273	N.D.	
116) 1,2,3-Trichlorobenzene	14.354	180	421	N.D.	

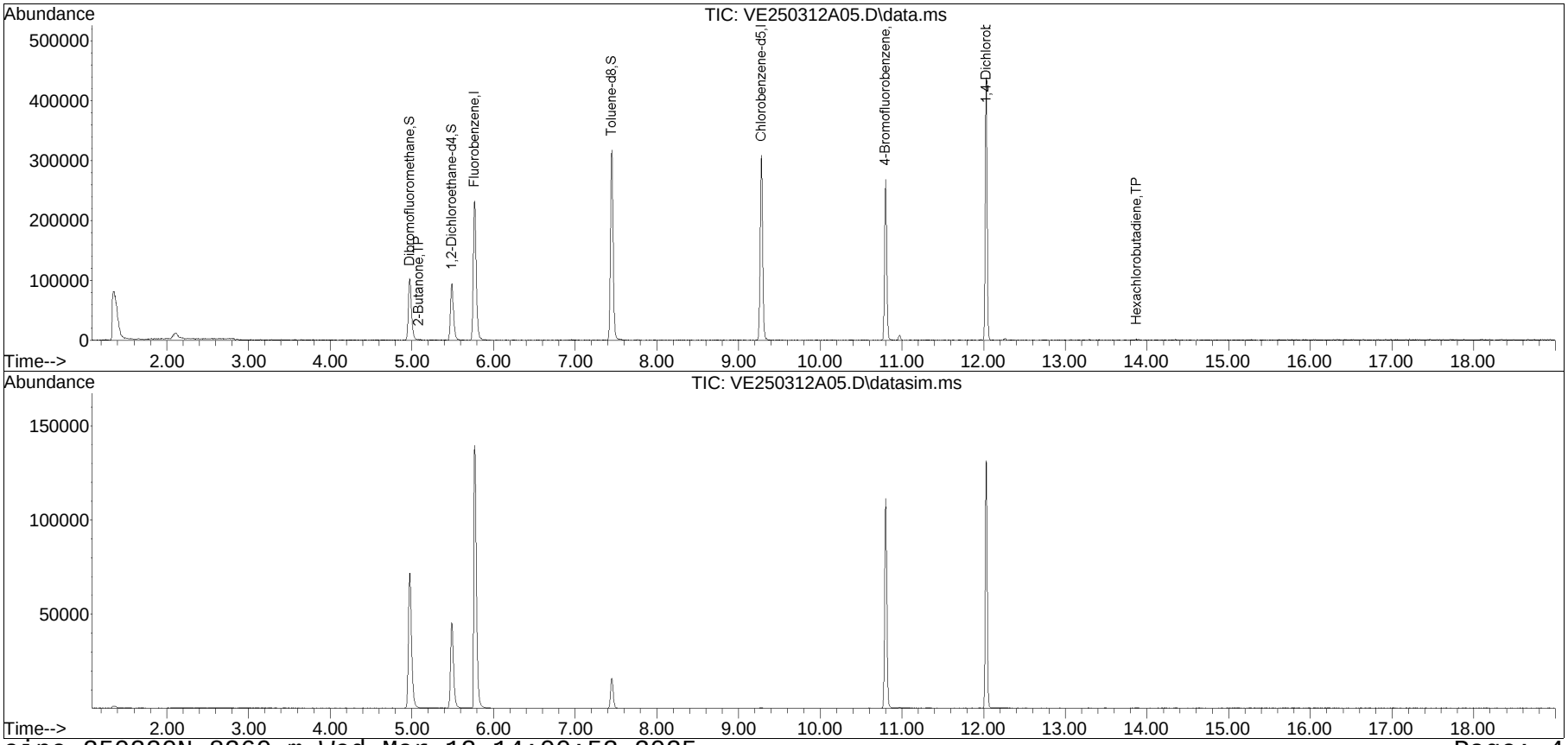
(#) = qualifier out of range (m) = manual integration (+) = signals summed

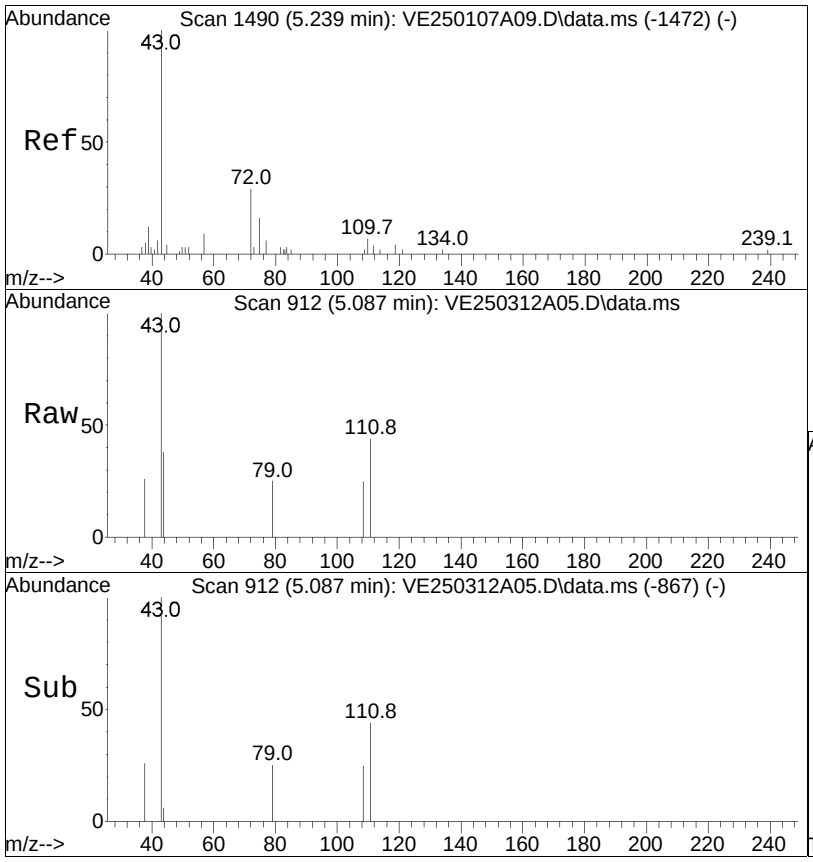
Quantitation Report (QT/LSC Reviewed)

Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A05.D
Acq On : 12 Mar 2025 11:04 am
Operator : ELAINE:PID
Sample : WG2039699-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
Misc : WG2039699,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 12 11:27:36 2025
Quant Method : K:\Elaine\2025\250312A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

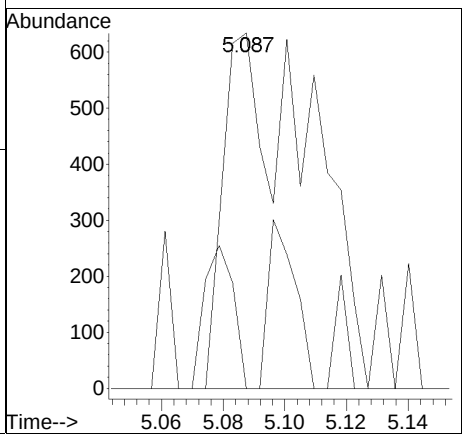




#42
2-Butanone
Concen: 0.82 ug/L M3
RT: 5.087 min Scan# 912
Delta R.T. -0.001 min
Lab File: VE250312A05.D
Acq: 12 Mar 2025 11:04 am

Tgt Ion: 43 Resp: 1250

Ion	Ratio	Lower	Upper
43	100		
72	4.2	44.9	67.3#

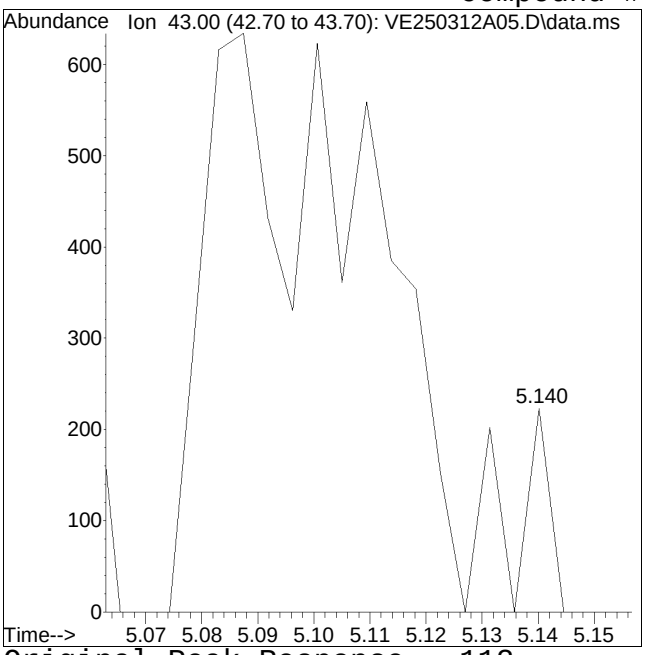


Manual Integration Report

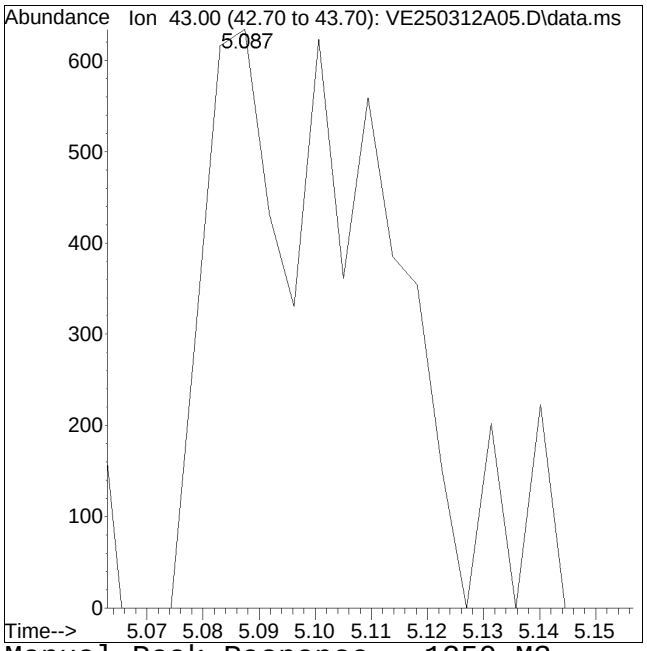
Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A05.D
Date Inj'd : 3/12/2025 11:04 am
Sample : WG2039699-5,31,10,10

QMethod : Elaine_250220N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 3/12/2025 11:26 am

Compound #42: 2-Butanone



Original Peak Response = 112



Manual Peak Response = 1250 M3

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

LSC Area Percent Report

Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A05.D
Acq On : 12 Mar 2025 11:04 am
Operator : ELAINE:PID
Sample : WG2039699-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
Misc : WG2039699,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 1 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : K:\Elaine\2025\250312A\Elaine_250220N_8260.m
Title : VOLATILES BY GC/MS

Signal : TIC: VE250312A05.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.111	124	234	415	rVB5	12242	214791	29.64%	5.541%
2	4.973	871	886	932	rBV2	103703	276840	38.20%	7.142%
3	5.491	991	1004	1030	rBV2	94953	242775	33.50%	6.263%
4	5.768	1054	1067	1114	rVB2	233140	587275	81.03%	15.150%
5	7.447	1424	1438	1468	rBV	317898	724785	100.00%	18.697%
6	9.280	1828	1843	1879	rVB2	309221	645588	89.07%	16.654%
7	10.799	2164	2181	2203	rBB	269010	493972	68.15%	12.743%
8	12.032	2451	2461	2475	rBV	438566	690370	95.25%	17.810%

Sum of corrected areas: 3876396

Signal : TIC: VE250312A05.D\datasim.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total

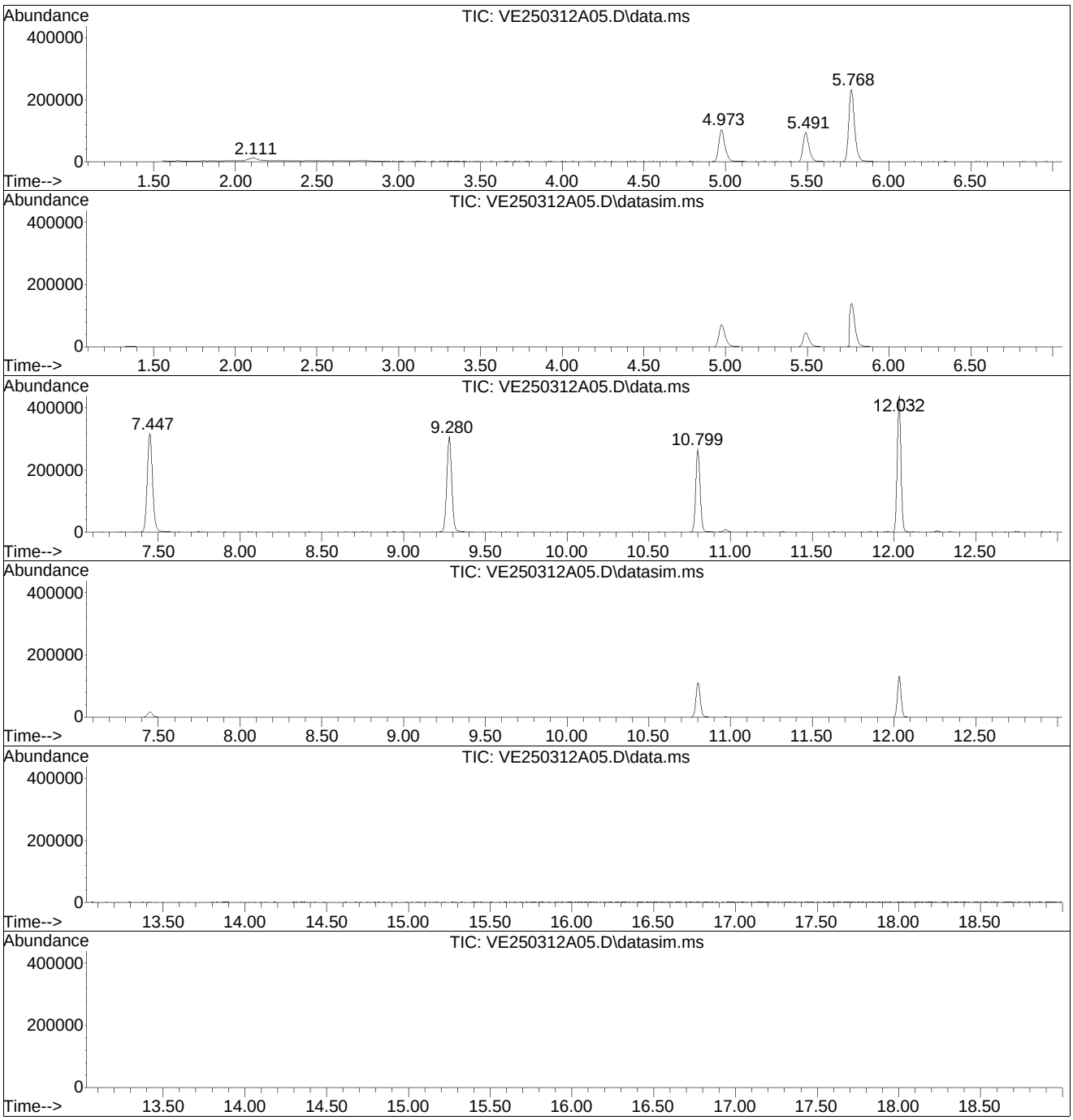
No peaks were detected using the above RTE integration parameters!

LSC Report - Integrated Chromatogram

Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A05.D
Acq On : 12 Mar 2025 11:04 am
Operator : ELAINE:PID
Sample : WG2039699-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
Misc : WG2039699,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Quant Method : K:\Elaine\2025\250312A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p



Library Search Compound Report

Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A05.D
Acq On : 12 Mar 2025 11:04 am
Operator : ELAINE:PID
Sample : WG2039699-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
Misc : WG2039699,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Quant Method : K:\Elaine\2025\250312A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS

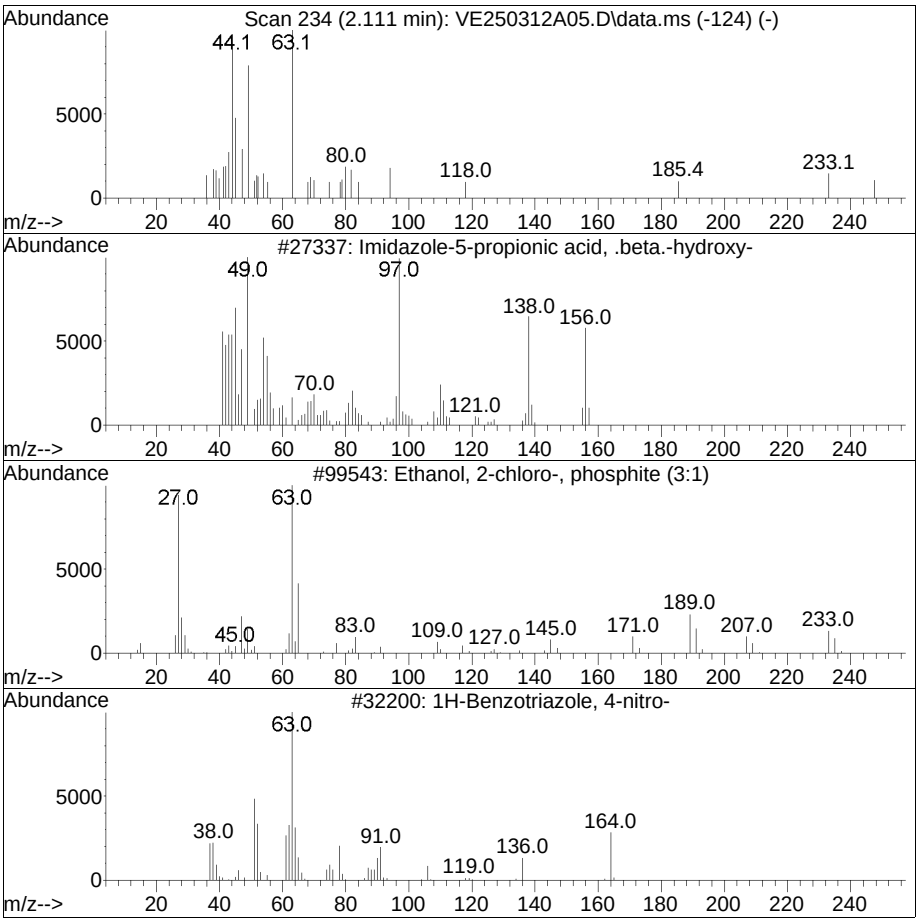
TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p

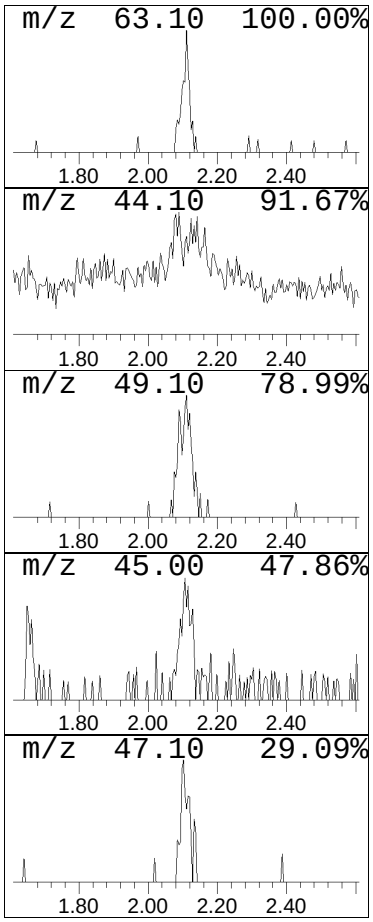
****

Peak Number 1 Unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.111	3.66 ug/L	214791	Fluorobenzene	5.768

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Imidazole-5-propionic acid, .bet...	156	C6H8N2O3	1000129-47-8	9
2	Ethanol, 2-chloro-, phosphite (3:1)	268	C6H12Cl3O3P	000140-08-9	9
3	1H-Benzotriazole, 4-nitro-	164	C6H4N4O2	006299-39-4	9
4	2-Chloroethanol	80	C2H5ClO	000107-07-3	4
5	(3-Chloropropionamido)sulfur pen...	233	C3H5ClF5NOS	080409-44-5	4





Tentatively Identified Compound (LSC) summary

Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A05.D
Acq On : 12 Mar 2025 11:04 am
Operator : ELAINE:PID
Sample : WG2039699-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
Misc : WG2039699,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Quant Method : K:\Elaine\2025\250312A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Unknown	2.111	3.7	ug/L	214791	1	5.768	587275	10.0

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2025\250313A\
Data File : V01250313A08.D
Acq On : 13 Mar 2025 10:08 am
Operator : VOA101:PID
Sample : WG2040184-5,31,10,10
Misc : WG2040184,ICAL21969
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 13 10:47:55 2025
Quant Method : K:\VOA101\2025\250313A\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 12 10:30:07 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2025\250313A\V01250313A04.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.899	96	595767	10.000	ug/L	0.00
Standard Area 1 = 602809			Recovery =	98.83%		
59) Chlorobenzene-d5	9.413	117	418996	10.000	ug/L	0.00
Standard Area 1 = 429416			Recovery =	97.57%		
79) 1,4-Dichlorobenzene-d4	12.143	152	204577	10.000	ug/L	0.00
Standard Area 1 = 232552			Recovery =	87.97%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.099	113	154320	10.189	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.89%		
43) 1,2-Dichloroethane-d4	5.617	65	185296	10.666	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	106.66%		
60) Toluene-d8	7.575	98	566447	10.176	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.76%		
83) 4-Bromofluorobenzene	10.921	95	194715	9.721	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.21%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.797	50	4335	0.148	ug/L	97
4) Vinyl chloride	1.872	62	29	N.D.		
5) Bromomethane	2.170	94	962M3	0.414	ug/L	
6) Chloroethane	2.288	64	100	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	2.926	76	5656	0.132	ug/L #	90
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.431	84	440	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	3.590	96	105	N.D.		
19) Methyl acetate	3.598	43	209	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	4.848	56	40	N.D.		
32) Chloroform	4.920	83	26	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2025\250313A\
Data File : V01250313A08.D
Acq On : 13 Mar 2025 10:08 am
Operator : VOA101:PID
Sample : WG2040184-5,31,10,10
Misc : WG2040184,ICAL21969
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 13 10:47:55 2025
Quant Method : K:\VOA101\2025\250313A\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 12 10:30:07 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2025\250313A\V01250313A04.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0	N.D.		
39) 2-Butanone	5.246	43	3966M1	0.927	ug/L	
41) Benzene	5.475	78	27	N.D.		
44) 1,2-Dichloroethane	5.693	62	85	N.D.		
47) Methyl cyclohexane	6.063	83	57	N.D.		
48) Trichloroethene	5.980	95	729	N.D.		
51) 1,2-Dichloropropane	0.000		0	N.D.		
54) Bromodichloromethane	0.000		0	N.D.		
58) cis-1,3-Dichloropropene	0.000		0	N.D.	d	
61) Toluene	7.661	92	52	N.D.		
62) 4-Methyl-2-pentanone	0.000		0	N.D.		
63) Tetrachloroethene	0.000		0	N.D.		
65) trans-1,3-Dichloropropene	0.000		0	N.D.		
68) 1,1,2-Trichloroethane	0.000		0	N.D.		
69) Chlorodibromomethane	0.000		0	N.D.		
71) 1,2-Dibromoethane	0.000		0	N.D.		
72) 2-Hexanone	9.078	43	27	N.D.		
73) Chlorobenzene	9.429	112	135	N.D.		
74) Ethylbenzene	9.452	91	35	N.D.		
76) p/m Xylene	9.689	106	65	N.D.		
77) o Xylene	10.238	106	97	N.D.		
78) Styrene	10.372	104	74	N.D.		
80) Bromoform	0.000		0	N.D.		
82) Isopropylbenzene	10.609	105	94	N.D.		
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
100) 1,3-Dichlorobenzene	12.090	146	692	N.D.		
101) 1,4-Dichlorobenzene	12.159	146	559	N.D.		
104) 1,2-Dichlorobenzene	12.600	146	214	N.D.		
106) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
109) 1,2,4-Trichlorobenzene	14.028	180	872M1	0.090	ug/L	
111) 1,2,3-Trichlorobenzene	14.480	180	1594M3	0.215	ug/L	

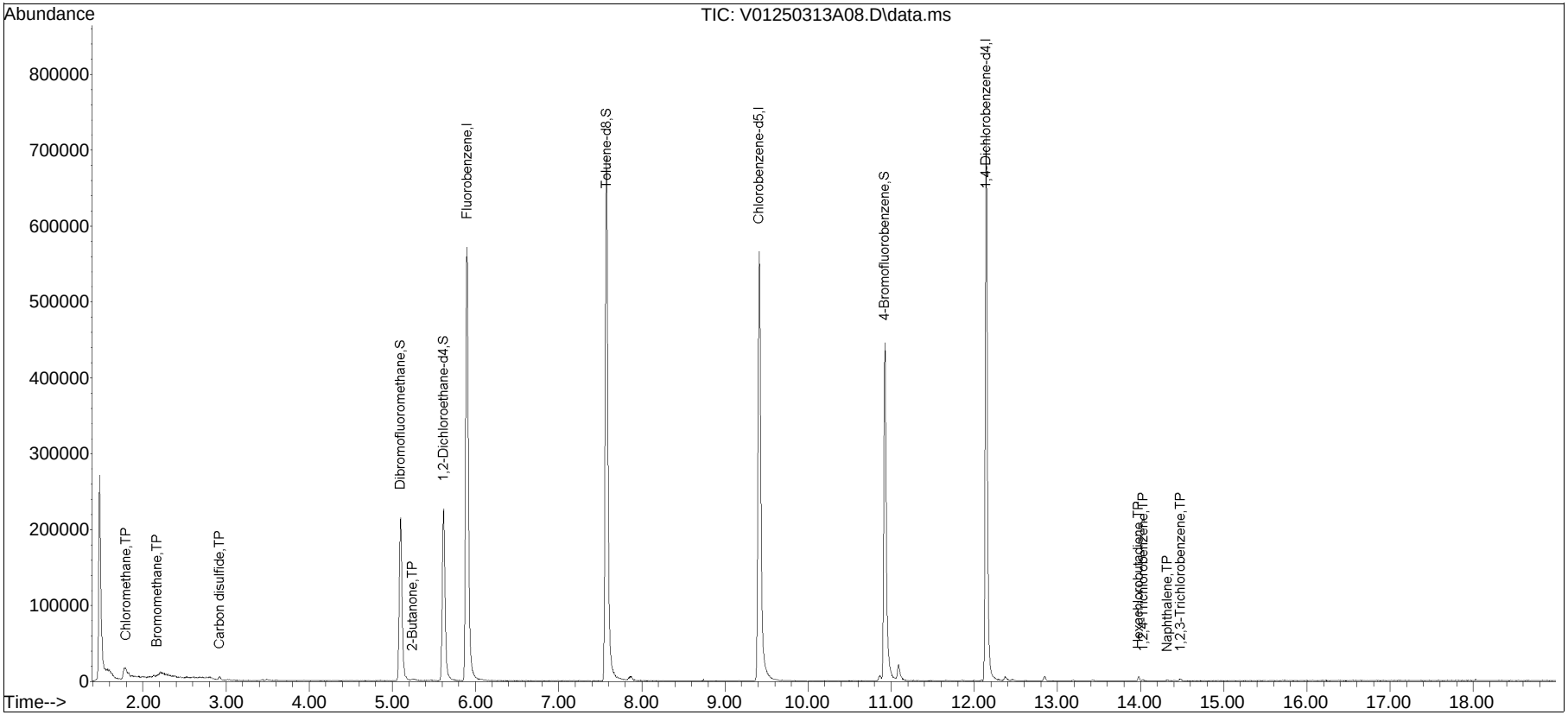
(#) = qualifier out of range (m) = manual integration (+) = signals summed

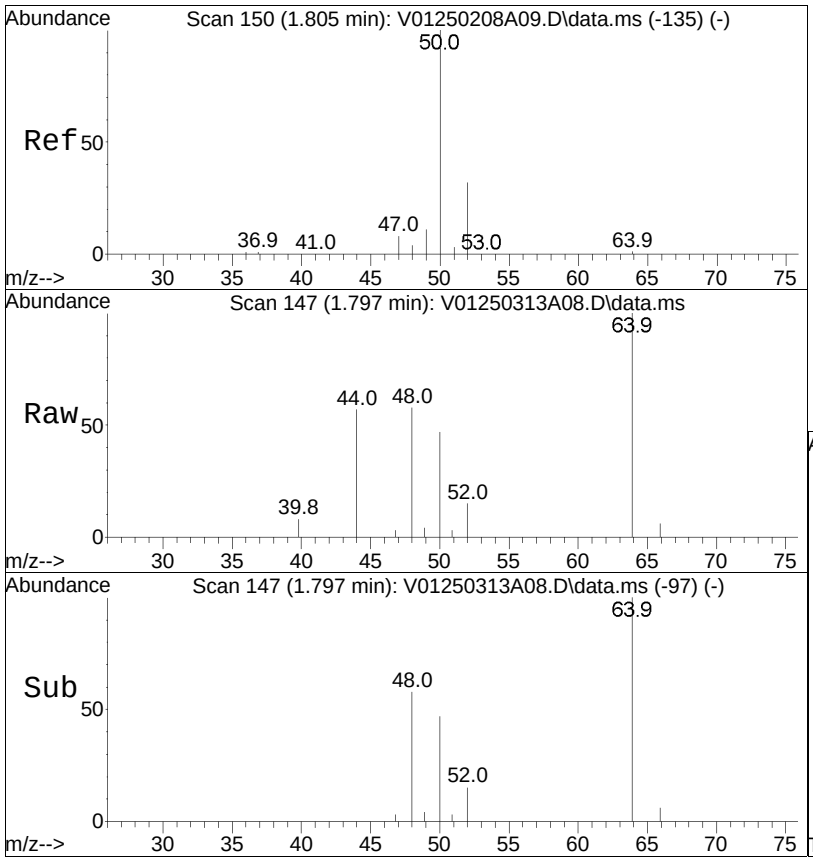
Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2025\250313A\
Data File : V01250313A08.D
Acq On : 13 Mar 2025 10:08 am
Operator : VOA101:PID
Sample : WG2040184-5,31,10,10
Misc : WG2040184,ICAL21969
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 13 10:47:55 2025
Quant Method : K:\VOA101\2025\250313A\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 12 10:30:07 2025
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

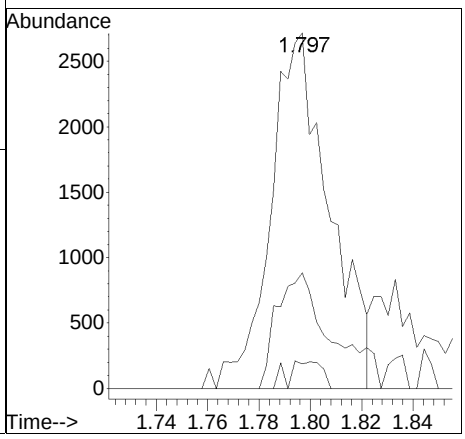


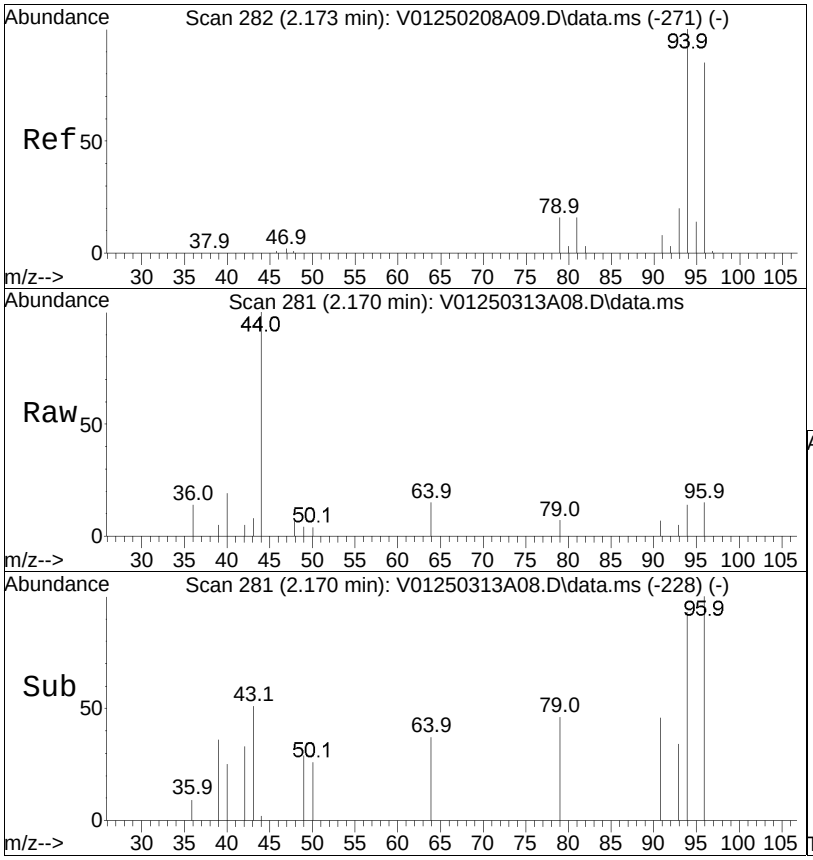


#3
Chloromethane
Concen: 0.15 ug/L
RT: 1.797 min Scan# 147
Delta R.T. -0.008 min
Lab File: V01250313A08.D
Acq: 13 Mar 2025 10:08 am

Tgt Ion: 50 Resp: 4335

Ion	Ratio	Lower	Upper
50	100		
52	29.9	11.0	51.0
47	4.4	0.0	27.1

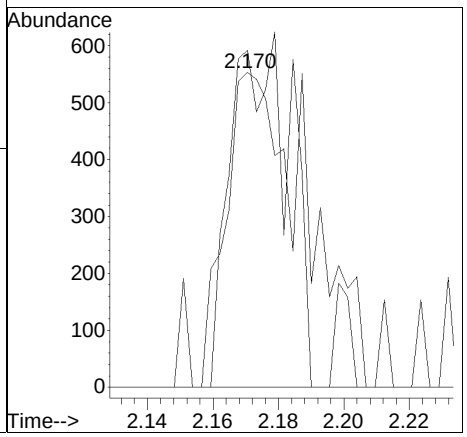


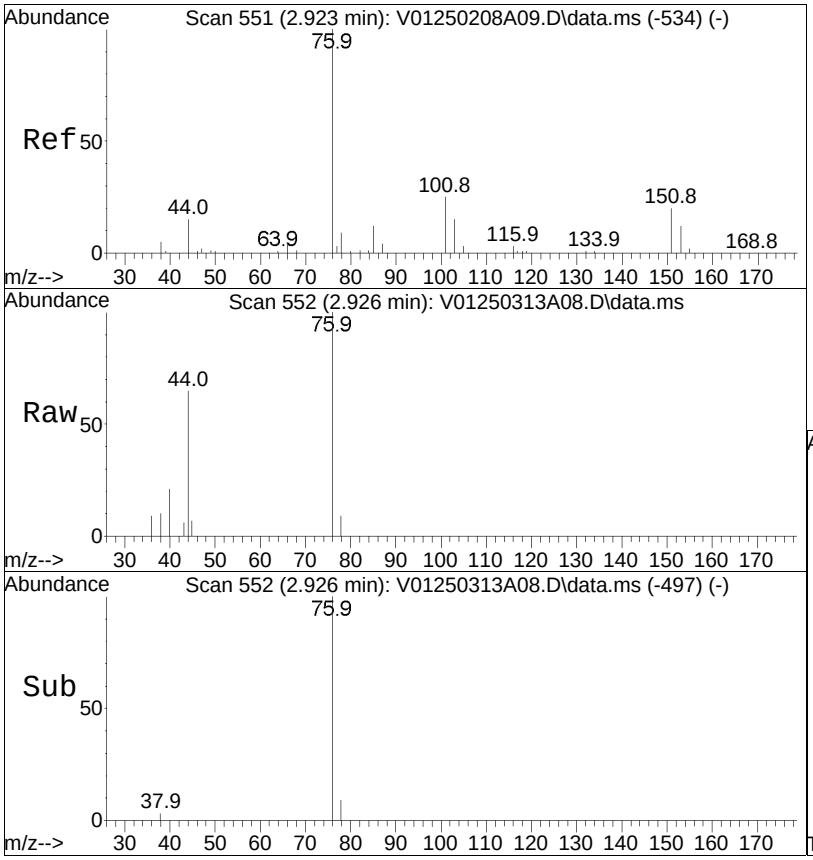


#5
Bromomethane
Concen: 0.41 ug/L M3
RT: 2.170 min Scan# 281
Delta R.T. -0.003 min
Lab File: V01250313A08.D
Acq: 13 Mar 2025 10:08 am

Tgt Ion: 94 Resp: 962

Ion	Ratio	Lower	Upper
94	100		
96	2.7	75.4	115.4#

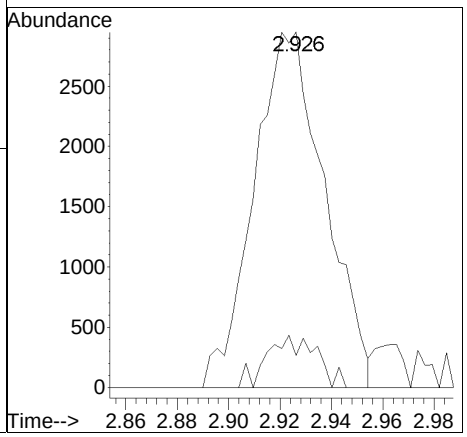


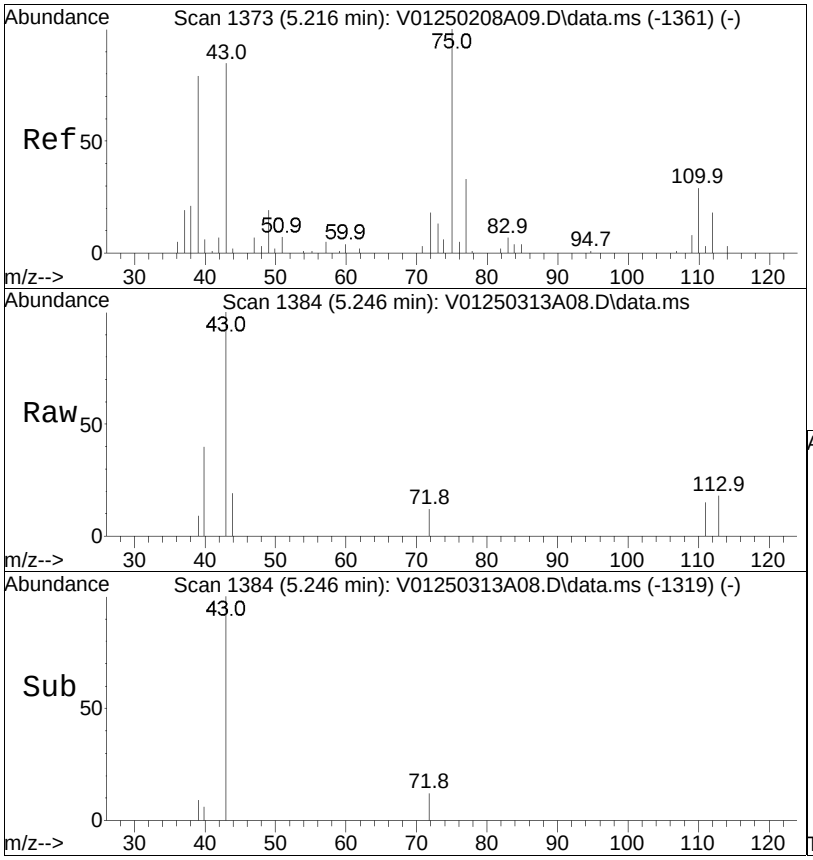


#11
Carbon disulfide
Concen: 0.13 ug/L
RT: 2.926 min Scan# 552
Delta R.T. 0.003 min
Lab File: V01250313A08.D
Acq: 13 Mar 2025 10:08 am

Tgt Ion: 76 Resp: 5656

Ion	Ratio	Lower	Upper
76	100		
78	6.1	6.3	13.1#

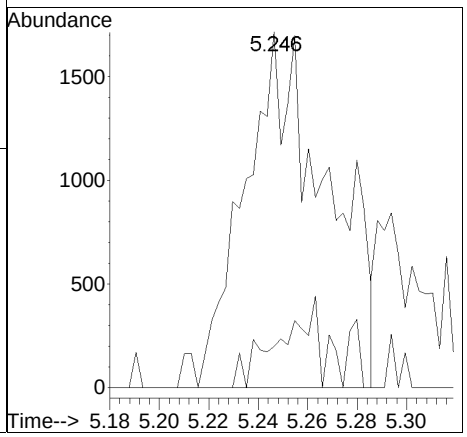


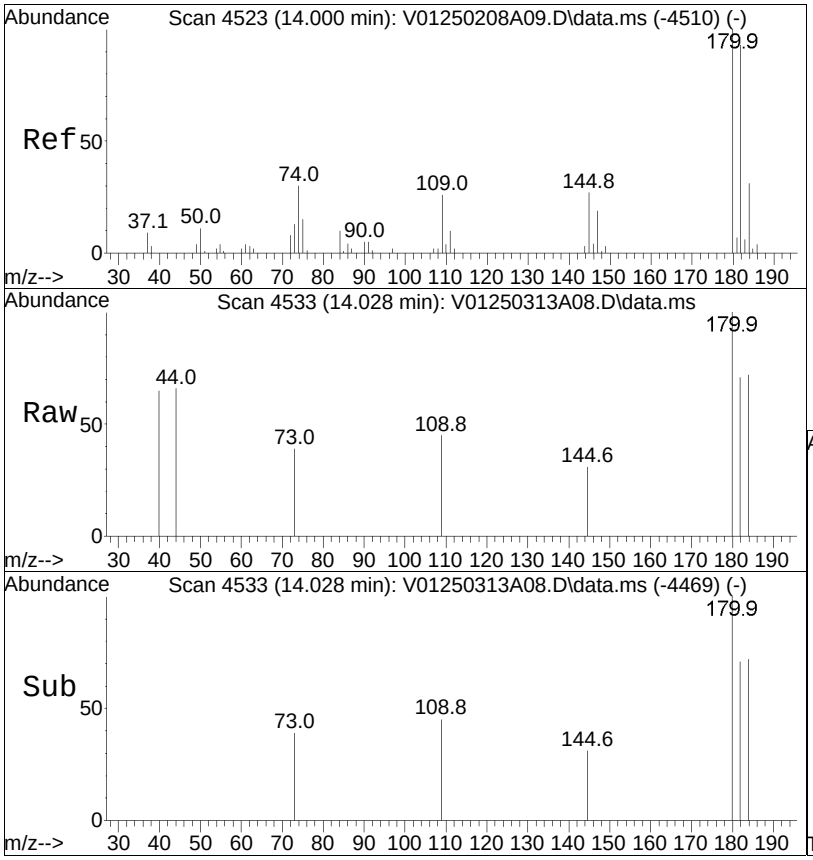


#39
2-Butanone
Concen: 0.93 ug/L M1
RT: 5.246 min Scan# 1384
Delta R.T. 0.030 min
Lab File: V01250313A08.D
Acq: 13 Mar 2025 10:08 am

Tgt Ion: 43 Resp: 3966

Ion	Ratio	Lower	Upper
43	100		
72	3.2	16.5	24.7#

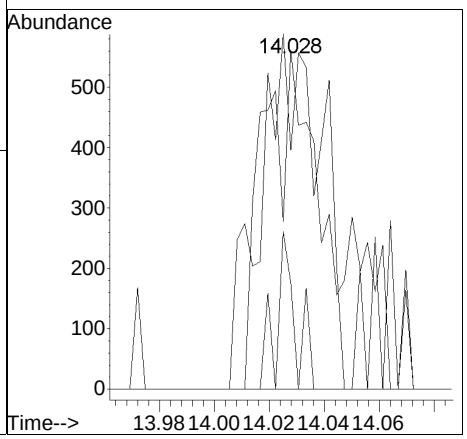


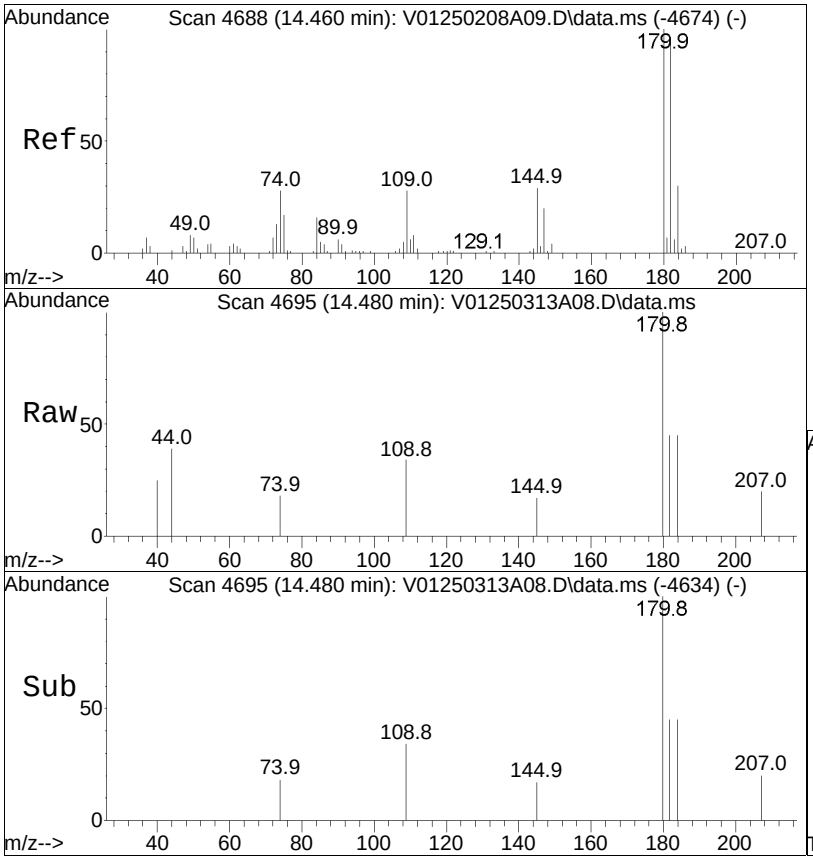


#109
1,2,4-Trichlorobenzene
Concen: 0.09 ug/L M1
RT: 14.028 min Scan# 4533
Delta R.T. 0.028 min
Lab File: V01250313A08.D
Acq: 13 Mar 2025 10:08 am

Tgt Ion:180 Resp: 872

Ion	Ratio	Lower	Upper
180	100		
182	54.8	76.6	114.8#
145	14.6	28.7	43.1#

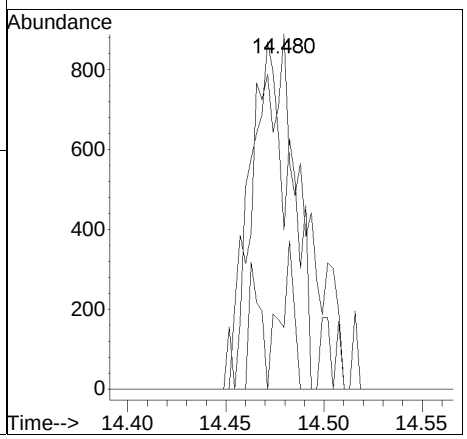




#111
1,2,3-Trichlorobenzene
Concen: 0.21 ug/L M3
RT: 14.480 min Scan# 4695
Delta R.T. 0.020 min
Lab File: V01250313A08.D
Acq: 13 Mar 2025 10:08 am

Tgt Ion:180 Resp: 1594

Ion	Ratio	Lower	Upper
180	100		
182	57.1	76.6	114.8#
145	7.7	25.6	38.4#

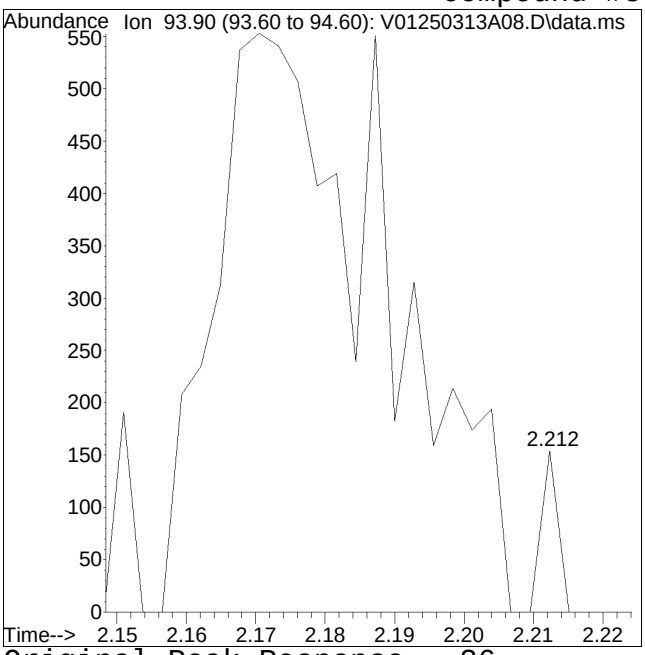


Manual Integration Report

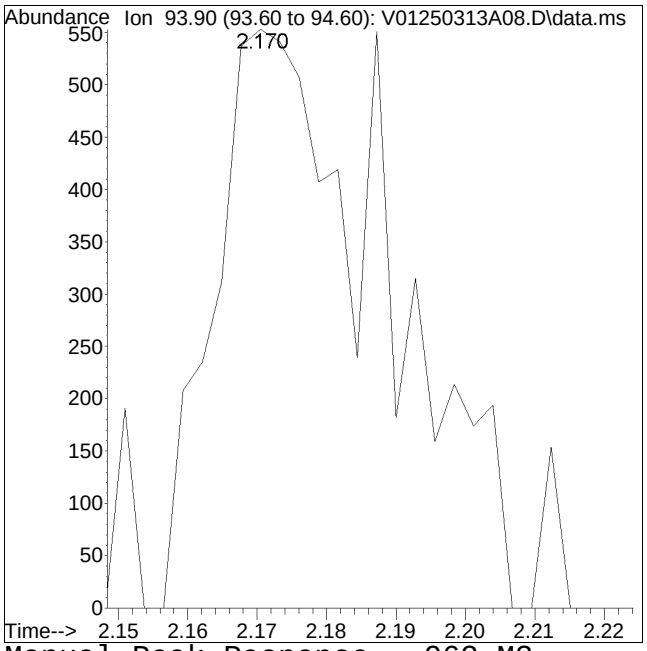
Data Path : K:\VOA101\2025\250313A\
Data File : V01250313A08.D
Date Inj'd : 3/13/2025 10:08 am
Sample : WG2040184-5,31,10,10

QMethod : V101_250208A_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 3/13/2025 10:40 am

Compound #5: Bromomethane



Original Peak Response = 26



Manual Peak Response = 962 M3

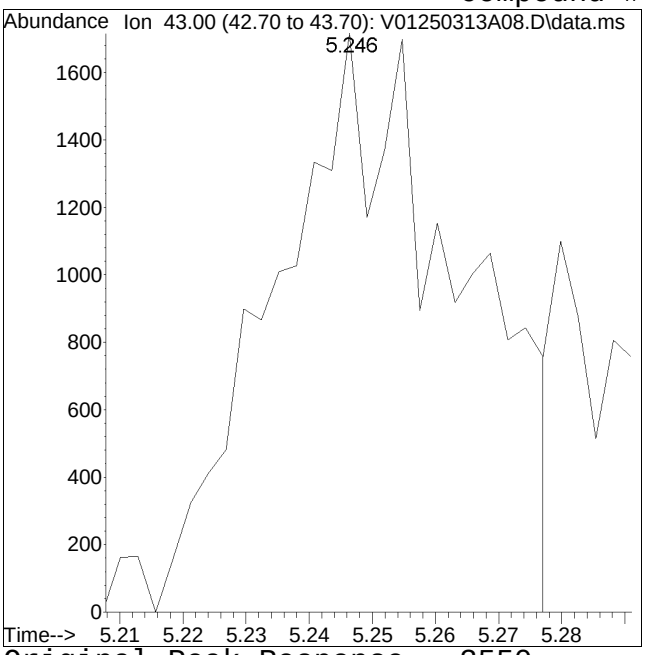
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

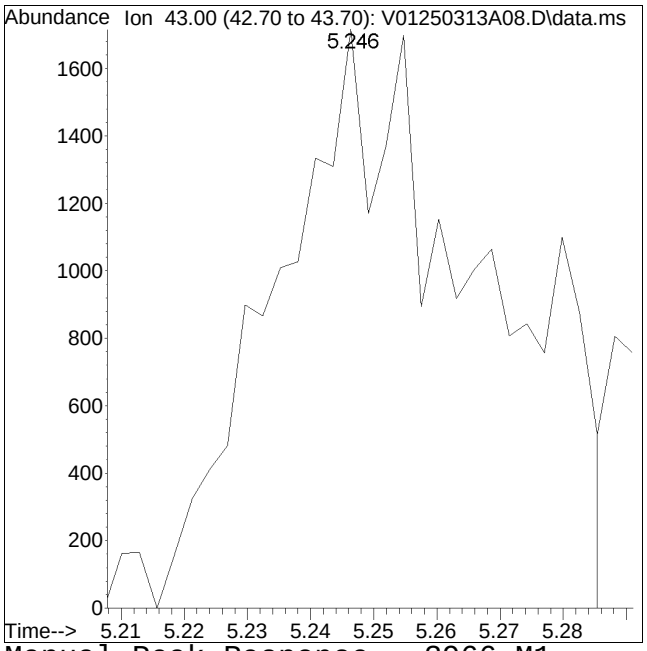
Data Path : K:\VOA101\2025\250313A\
Data File : V01250313A08.D
Date Inj'd : 3/13/2025 10:08 am
Sample : WG2040184-5,31,10,10

QMethod : V101_250208A_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 3/13/2025 10:40 am

Compound #39: 2-Butanone



Original Peak Response = 3550



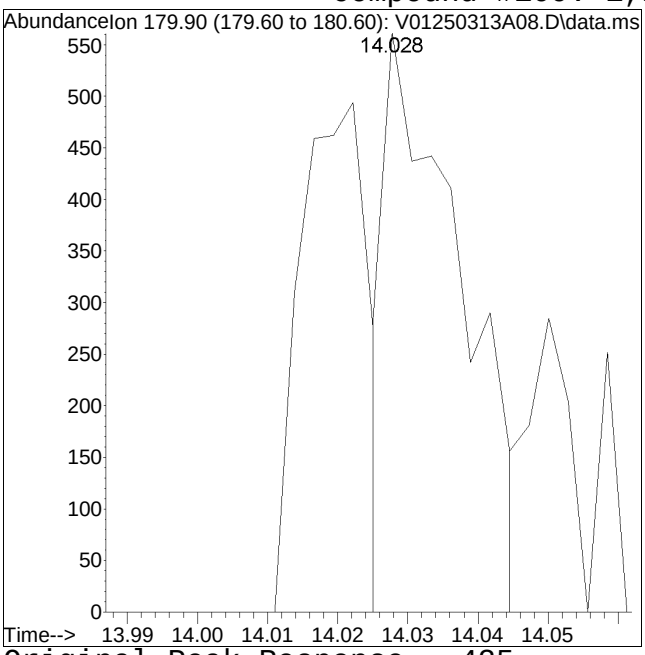
Manual Peak Response = 3966 M1

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

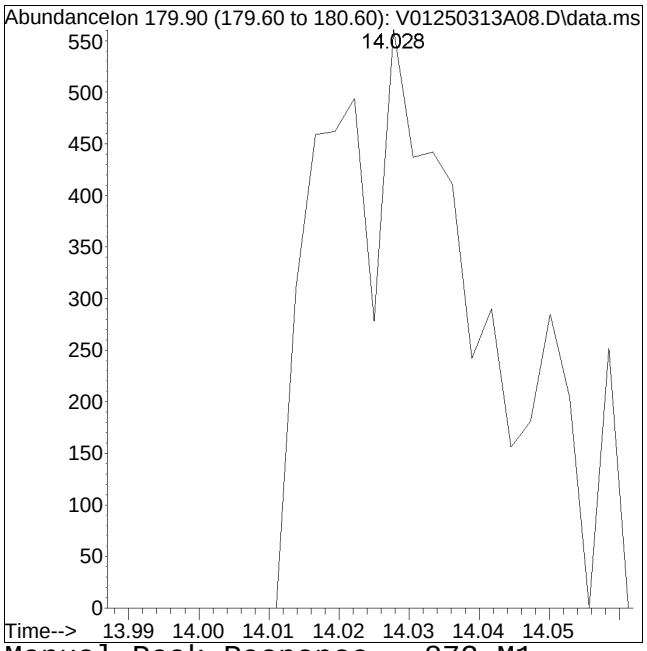
Manual Integration Report

Data Path	: K:\VOA101\2025\250313A\	QMethod	: V101_250208A_8260.m
Data File	: V01250313A08.D	Operator	: VOA101:PID
Date Inj'd	: 3/13/2025 10:08 am	Instrument	: VOA 101
Sample	: WG2040184-5,31,10,10	Quant Date	: 3/13/2025 10:40 am

Compound #109: 1,2,4-Trichlorobenzene



Original Peak Response = 425



Manual Peak Response = 872 M1

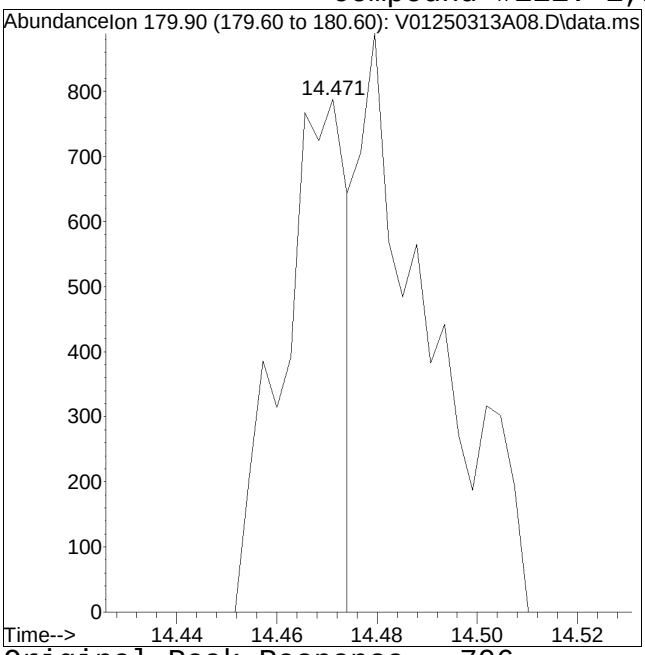
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

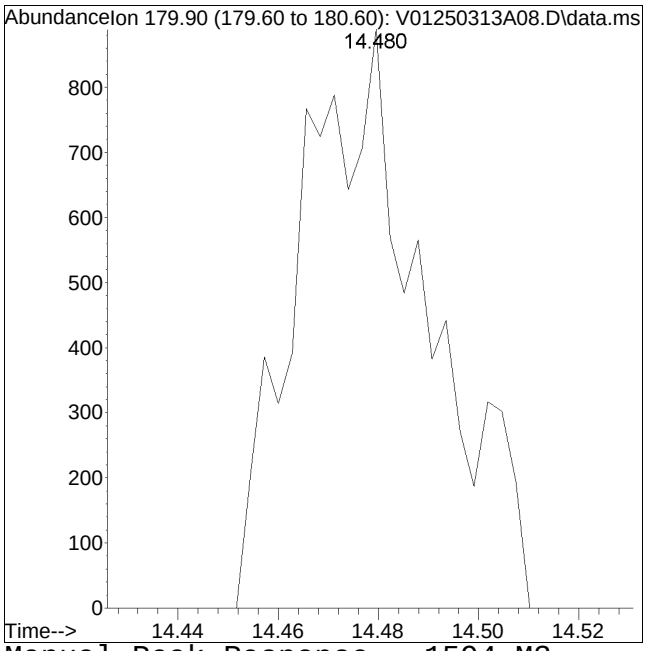
Manual Integration Report

Data Path : K:\VOA101\2025\250313A\
Data File : V01250313A08.D
Date Inj'd : 3/13/2025 10:08 am
Sample : WG2040184-5,31,10,10

QMethod : V101_250208A_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 3/13/2025 10:40 am

Compound #111: 1,2,3-Trichlorobenzene





Original Peak Response = 706 Manual Peak Response = 1594 M3

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

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A01.D
Acq On : 12 Mar 2025 9:27 am
Operator : ELAINE:PID
Sample : WG2039699-3,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2039699,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 12 10:30:25 2025
Quant Method : K:\Elaine\2025\250312A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.768	96	297682	10.000	ug/L	0.00
63) Chlorobenzene-d5	9.275	117	223126	10.000	ug/L	0.00
84) 1,4-Dichlorobenzene-d4	12.028	152	121415	10.000	ug/L	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	4.973	113	82241	10.123	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.23%			
47) 1,2-Dichloroethane-d4	5.487	65	86873	10.102	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.02%			
64) Toluene-d8	7.442	98	295223	10.000	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.00%			
88) 4-Bromofluorobenzene	10.799	95	104839	10.789	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.89%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.522	85	64023	8.359	ug/L	98
3) Chloromethane	1.702	50	61195	8.863	ug/L	99
4) Vinyl chloride	1.772	62	75431	8.412	ug/L	100
5) Bromomethane	2.062	94	46815	5.915	ug/L	96
6) Chloroethane	2.172	64	56603	8.245	ug/L	100
7) Trichlorofluoromethane	2.308	101	114393	7.400	ug/L	100
10) 1,1-Dichloroethene	2.769	96	66075	7.902	ug/L	90
11) Carbon disulfide	2.800	76	204538	8.678	ug/L	100
12) Freon-113	2.809	101	66844	8.326	ug/L	98
15) Methylene chloride	3.309	84	69640	9.935	ug/L	96
17) Acetone	3.349	43	13063	10.969	ug/L	100
18) trans-1,2-Dichloroethene	3.454	96	67314	10.267	ug/L	96
19) Methyl acetate	3.458	43	27760M6	9.348	ug/L	
21) Methyl tert-butyl ether	3.551	73	138635	8.967	ug/L #	95
25) 1,1-Dichloroethane	4.025	63	124618	10.285	ug/L	98
30) cis-1,2-Dichloroethene	4.530	96	75924	9.936	ug/L	97
33) Bromochloromethane	4.718	128	34497	9.896	ug/L	94
34) Cyclohexane	4.723	56	115892	10.287	ug/L	96
35) Chloroform	4.793	83	121327	10.110	ug/L	99
37) Carbon tetrachloride	4.925	117	94347M6	10.624	ug/L	
40) 1,1,1-Trichloroethane	4.995	97	96415	9.768	ug/L	98
42) 2-Butanone	5.079	43	17678	10.653	ug/L #	82
45) Benzene	5.351	78	254204	9.621	ug/L	99
48) 1,2-Dichloroethane	5.557	62	81410	9.756	ug/L	96

Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A01.D
Acq On : 12 Mar 2025 9:27 am
Operator : ELAINE:PID
Sample : WG2039699-3,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2039699,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 12 10:30:25 2025
Quant Method : K:\Elaine\2025\250312A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) Methyl cyclohexane	5.936	83	102468	8.732	ug/L	90
52) Trichloroethene	5.945	95	63286	9.871	ug/L	99
55) 1,2-Dichloropropane	6.479	63	65703	10.568	ug/L	99
58) Bromodichloromethane	6.556	83	85191	9.535	ug/L	98
62) cis-1,3-Dichloropropene	7.239	75	93047	9.620	ug/L	97
65) Toluene	7.501	92	153912	9.223	ug/L	100
66) 4-Methyl-2-pentanone	7.936	58	11358	7.981	ug/L	96
67) Tetrachloroethene	7.945	166	66339	10.334	ug/L	98
69) trans-1,3-Dichloropropene	7.990	75	74325	9.211	ug/L	99
72) 1,1,2-Trichloroethane	8.171	83	39060	9.322	ug/L	99
73) Chlorodibromomethane	8.379	129	54980	9.428	ug/L	98
75) 1,2-Dibromoethane	8.646	107	45780	9.545	ug/L	97
77) 2-Hexanone	8.936	43	18283	8.065	ug/L	99
78) Chlorobenzene	9.298	112	180063	9.485	ug/L	98
79) Ethylbenzene	9.339	91	308513	9.235	ug/L	99
81) p/m Xylene	9.524	106	243428	17.811	ug/L	99
82) o Xylene	10.072	106	242617	17.834	ug/L	99
83) Styrene	10.140	104	394864	17.040	ug/L	98
85) Bromoform	10.167	173	30042	8.784	ug/L	97
87) Isopropylbenzene	10.468	105	314895	9.402	ug/L	99
92) 1,1,2,2-Tetrachloroethane	11.054	83	52466	9.223	ug/L	99
105) 1,3-Dichlorobenzene	11.953	146	158235	9.733	ug/L	99
106) 1,4-Dichlorobenzene	12.045	146	150551	9.307	ug/L	99
109) 1,2-Dichlorobenzene	12.473	146	147537	9.661	ug/L	99
111) 1,2-Dibromo-3-chloropr...	13.253	155	7264	8.290	ug/L	81
114) 1,2,4-Trichlorobenzene	13.891	180	95095	9.875	ug/L	98
116) 1,2,3-Trichlorobenzene	14.354	180	82625	9.358	ug/L	98

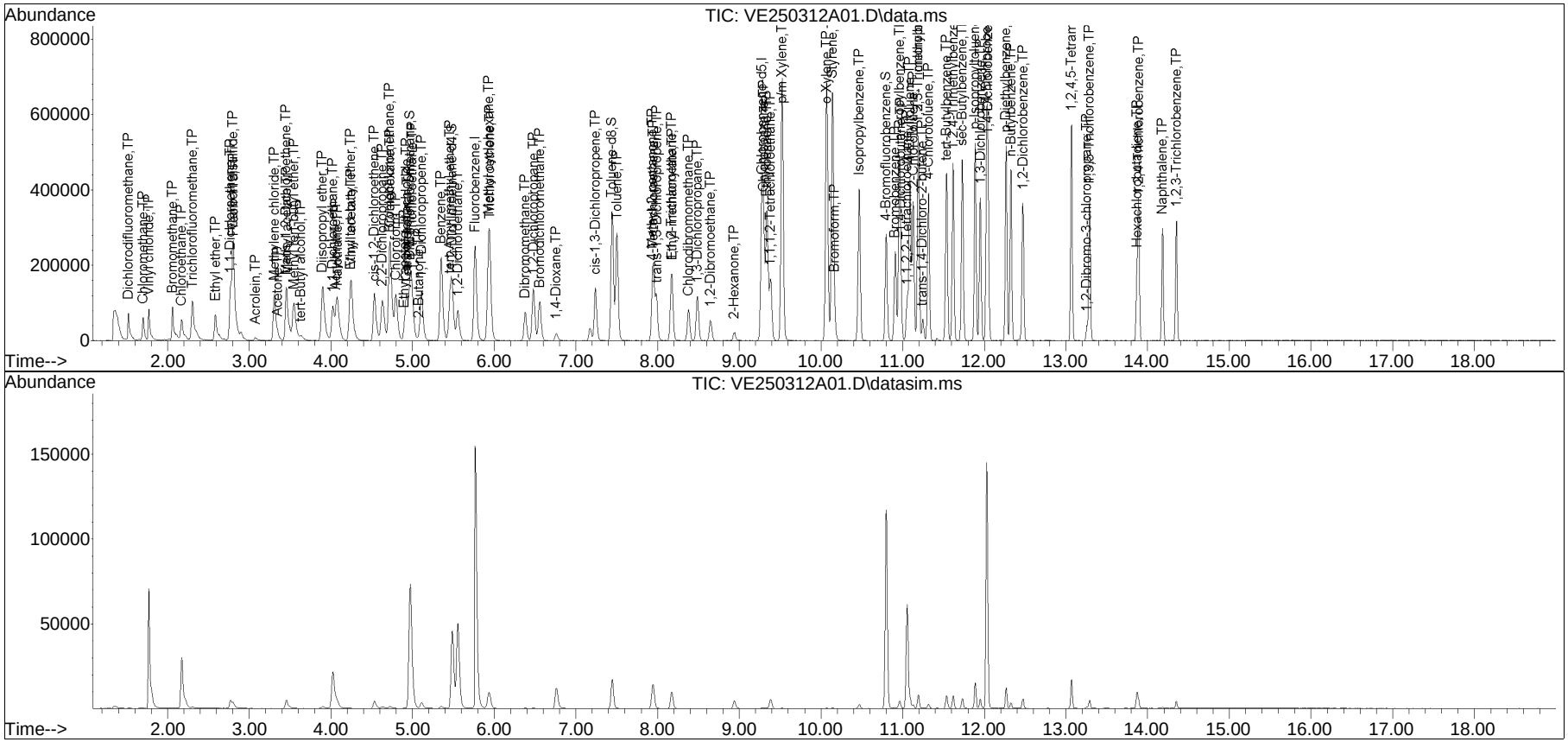
(#) = qualifier out of range (m) = manual integration (+) = signals summed

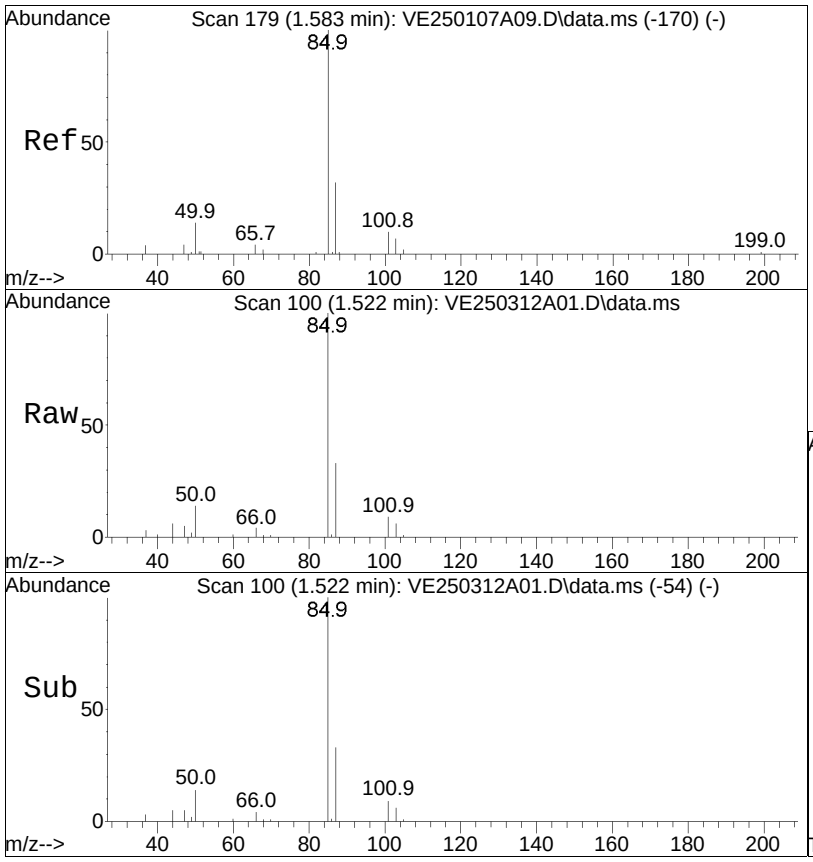
Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A01.D
Acq On : 12 Mar 2025 9:27 am
Operator : ELAINE:PID
Sample : WG2039699-3,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2039699,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 12 10:30:25 2025
Quant Method : K:\Elaine\2025\250312A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

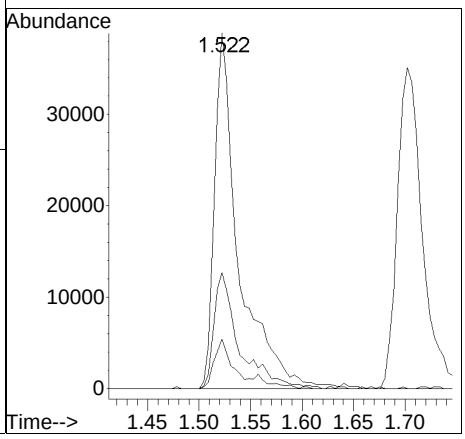


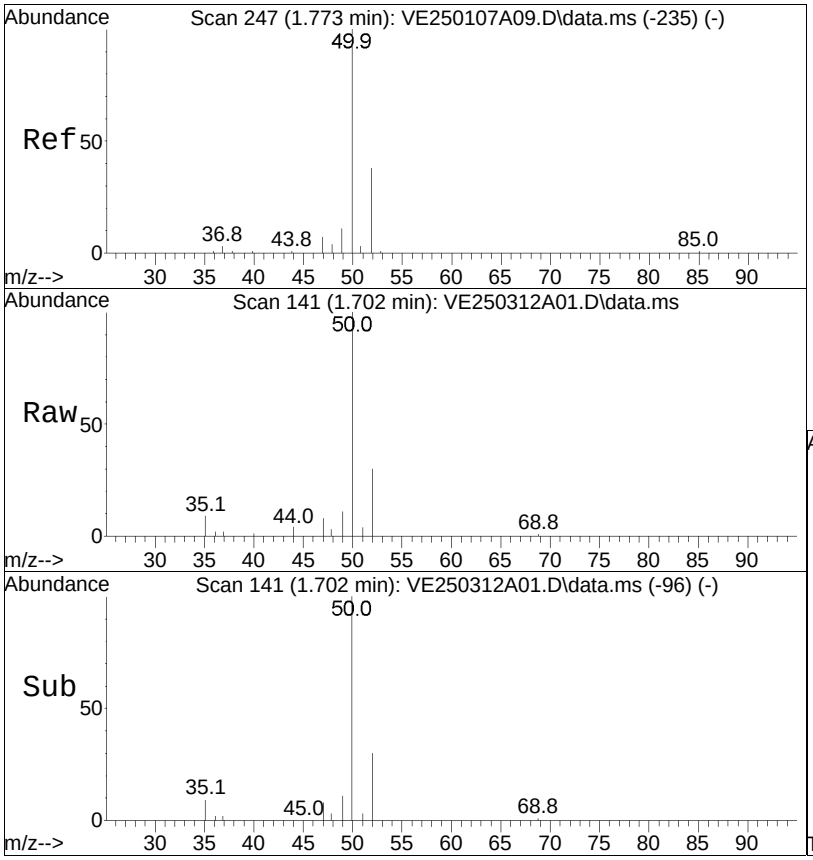


#2
Dichlorodifluoromethane
Concen: 8.36 ug/L
RT: 1.522 min Scan# 100
Delta R.T. 0.000 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion: 85 Resp: 64023

Ion	Ratio	Lower	Upper
85	100		
87	33.6	21.1	43.7
50	12.9	8.3	17.1

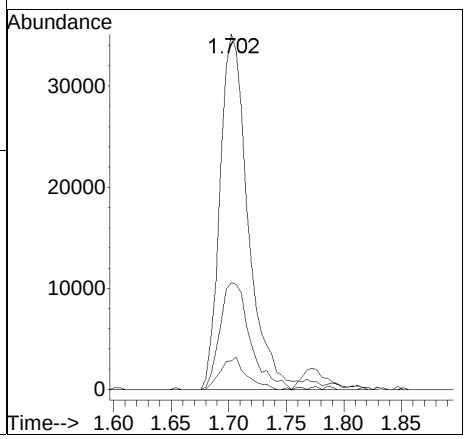


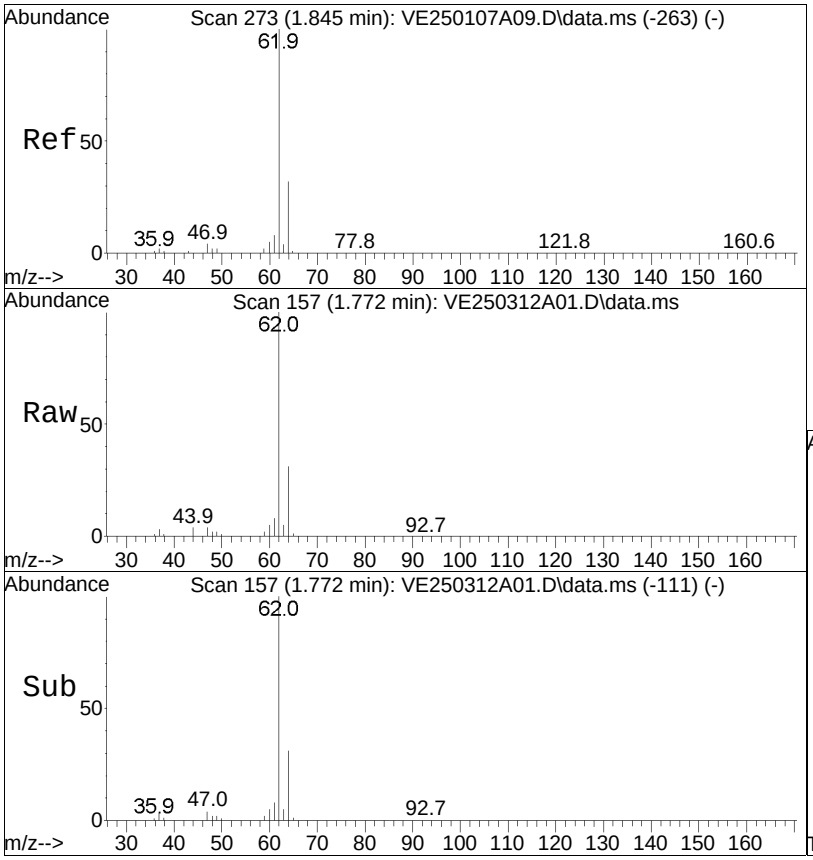


#3
Chloromethane
Concen: 8.86 ug/L
RT: 1.702 min Scan# 141
Delta R.T. -0.001 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion: 50 Resp: 61195

Ion	Ratio	Lower	Upper
50	100		
52	31.6	12.5	52.5
47	8.0	0.0	27.7

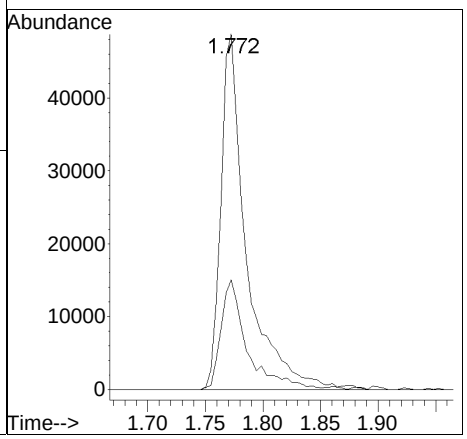


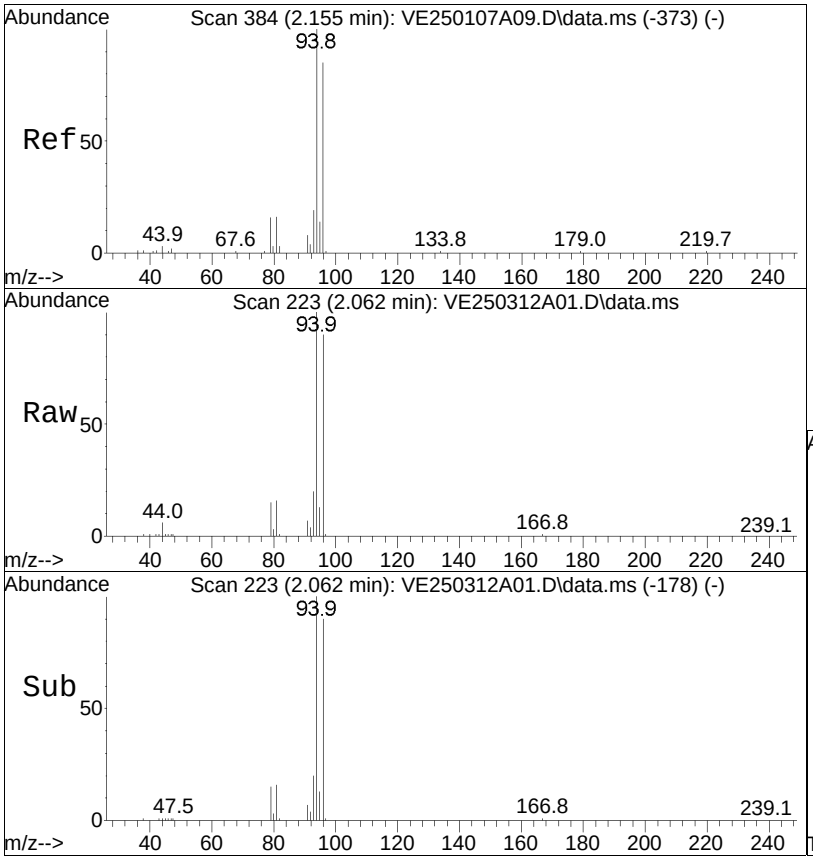


#4
Vinyl chloride
Concen: 8.41 ug/L
RT: 1.772 min Scan# 157
Delta R.T. 0.002 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion: 62 Resp: 75431

Ion	Ratio	Lower	Upper
62	100		
64	31.9	12.1	52.1

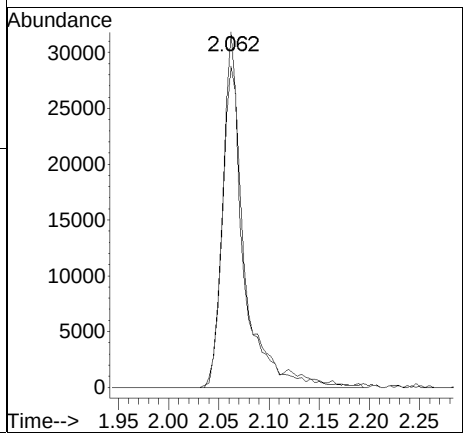


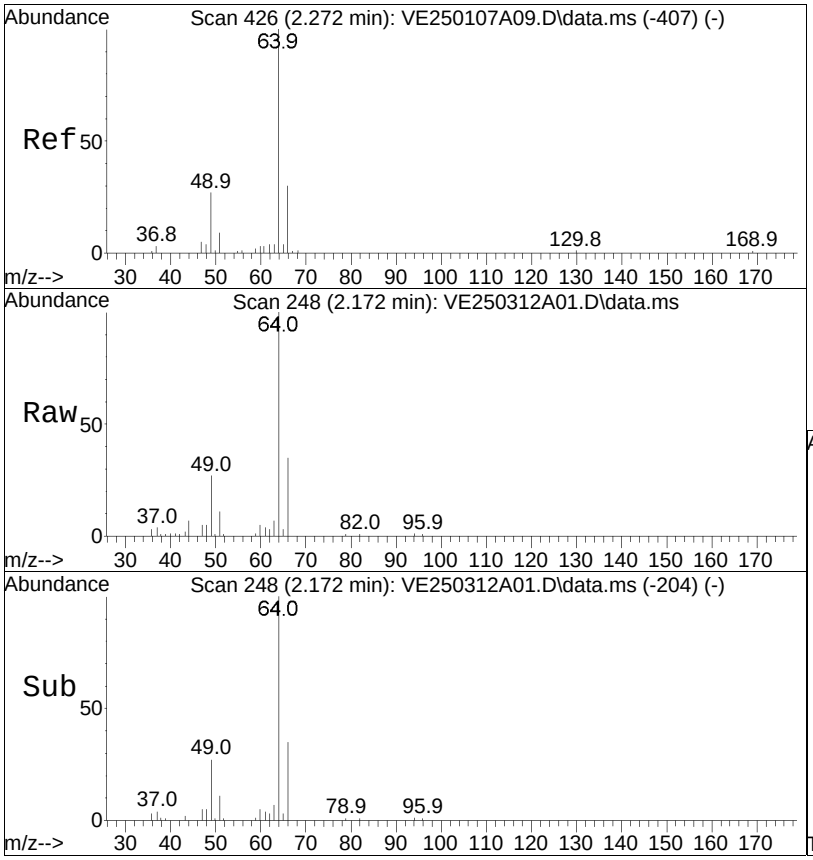


#5
Bromomethane
Concen: 5.91 ug/L
RT: 2.062 min Scan# 223
Delta R.T. -0.004 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion: 94 Resp: 46815

Ion	Ratio	Lower	Upper
94	100		
96	95.0	71.2	111.2

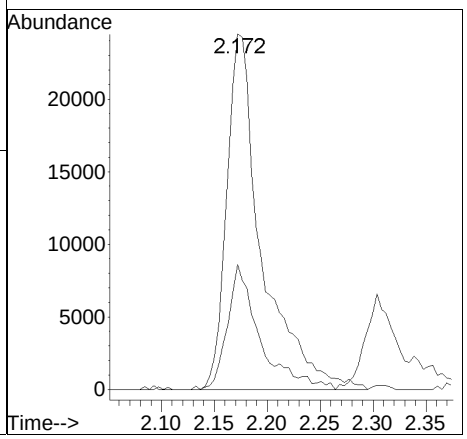


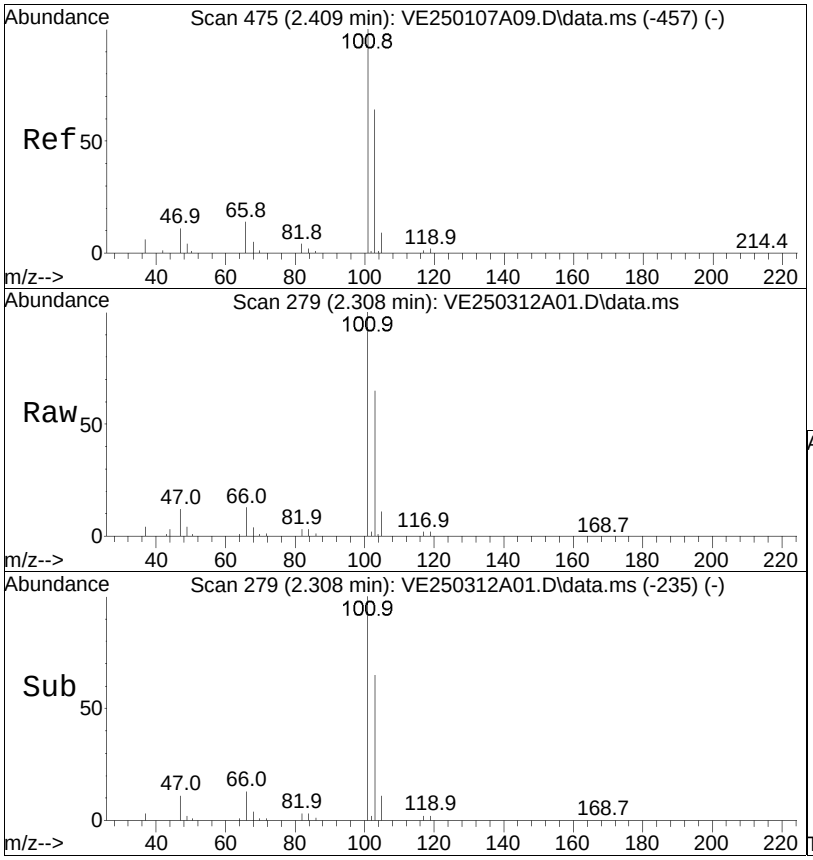


#6
Chloroethane
Concen: 8.24 ug/L
RT: 2.172 min Scan# 248
Delta R.T. -0.008 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion: 64 Resp: 56603

Ion	Ratio	Lower	Upper
64	100		
66	32.3	12.5	52.5

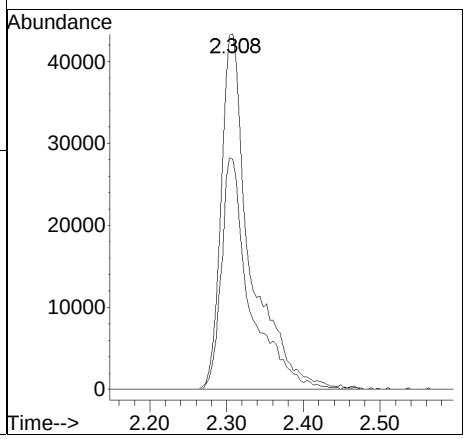


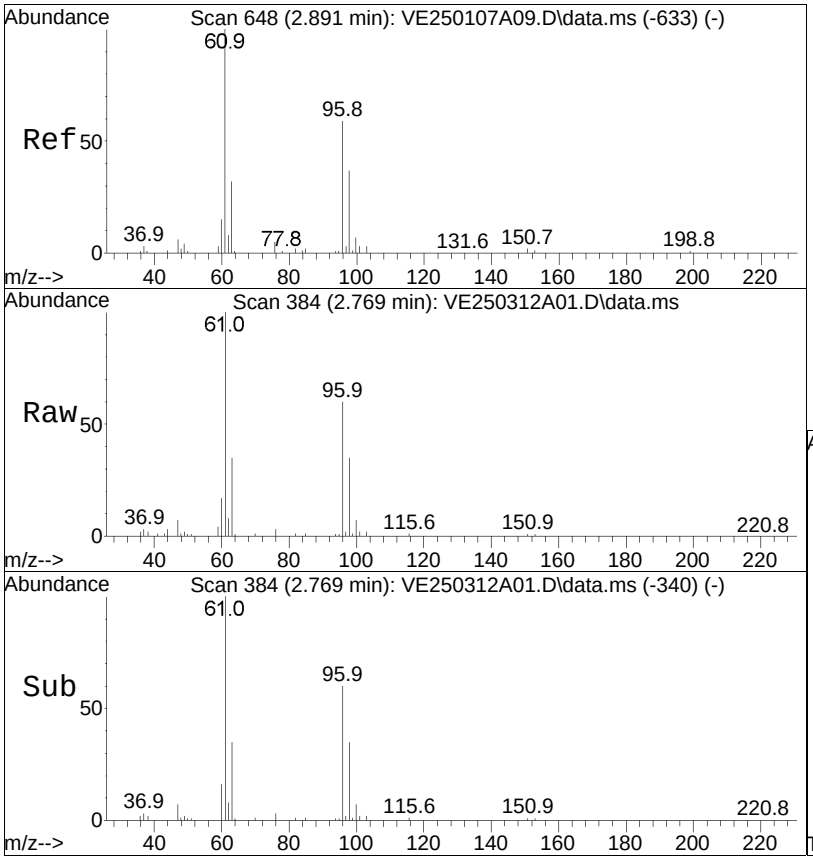


#7
Trichlorofluoromethane
Concen: 7.40 ug/L
RT: 2.308 min Scan# 279
Delta R.T. -0.006 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion:101 Resp: 114393

Ion	Ratio	Lower	Upper
101	100		
103	64.5	51.4	77.0

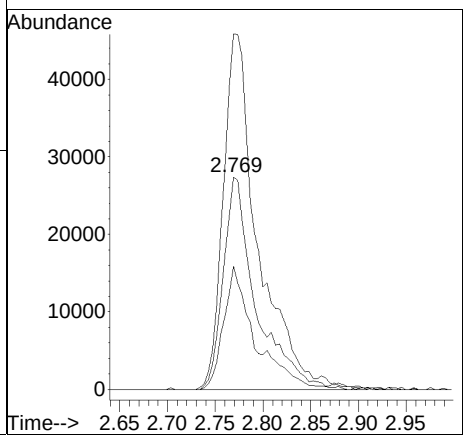


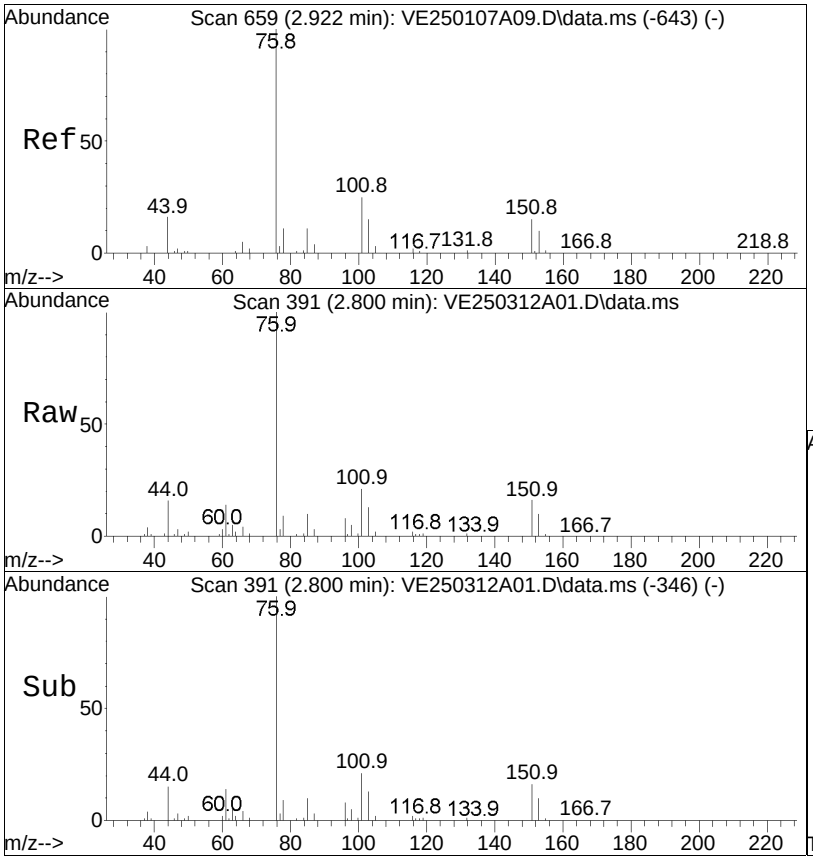


#10
1,1-Dichloroethene
Concen: 7.90 ug/L
RT: 2.769 min Scan# 384
Delta R.T. -0.008 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion: 96 Resp: 66075

Ion	Ratio	Lower	Upper
96	100		
61	176.6	129.0	193.6
63	55.8	41.7	62.5

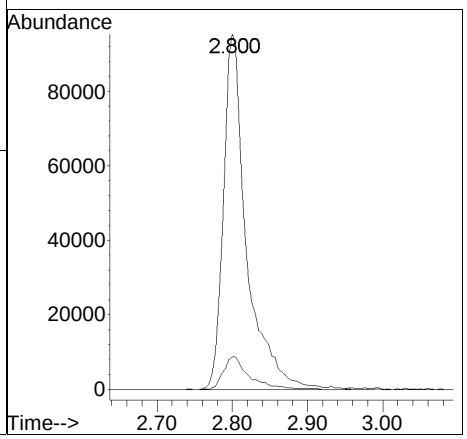


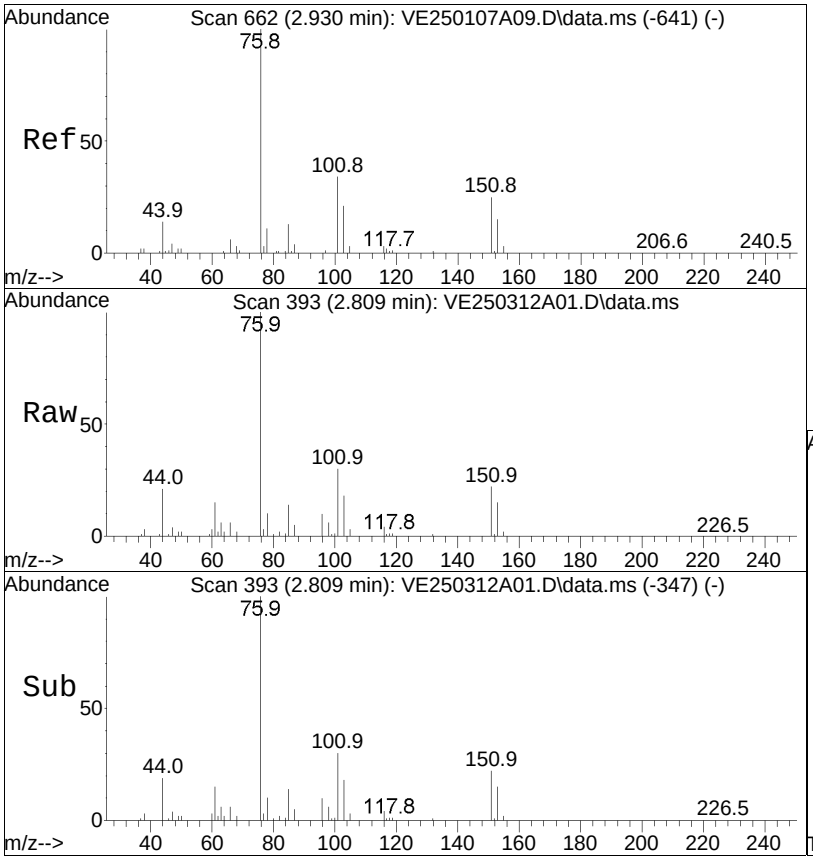


#11
Carbon disulfide
Concen: 8.68 ug/L
RT: 2.800 min Scan# 391
Delta R.T. -0.002 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion: 76 Resp: 204538

Ion	Ratio	Lower	Upper
76	100		
78	10.3	6.7	13.9

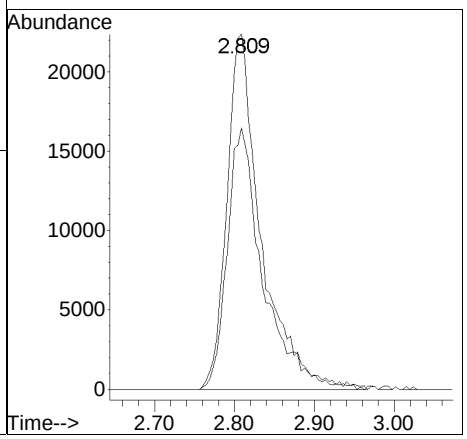


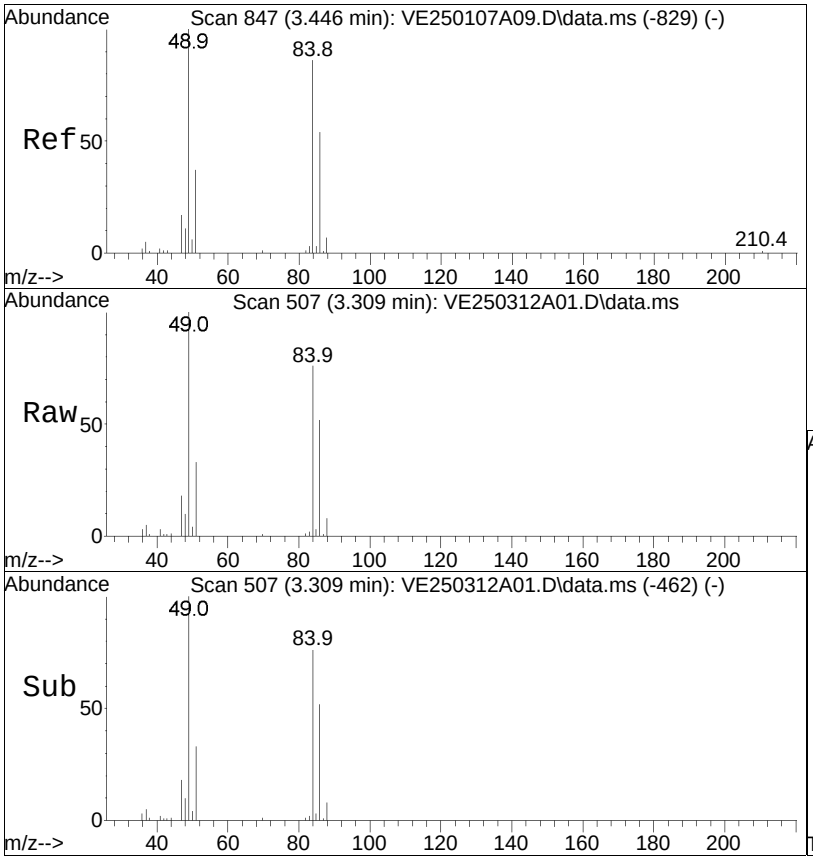


#12
Freon-113
Concen: 8.33 ug/L
RT: 2.809 min Scan# 393
Delta R.T. 0.002 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion:101 Resp: 66844

Ion	Ratio	Lower	Upper
101	100		
151	76.7	60.1	90.1

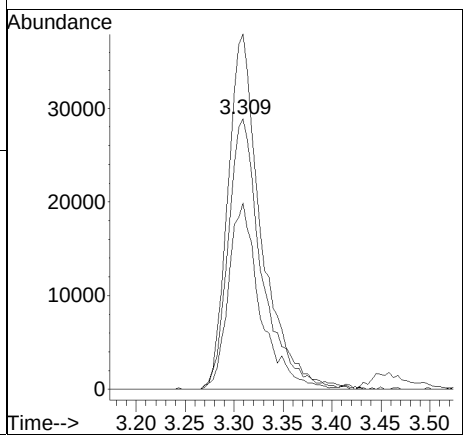


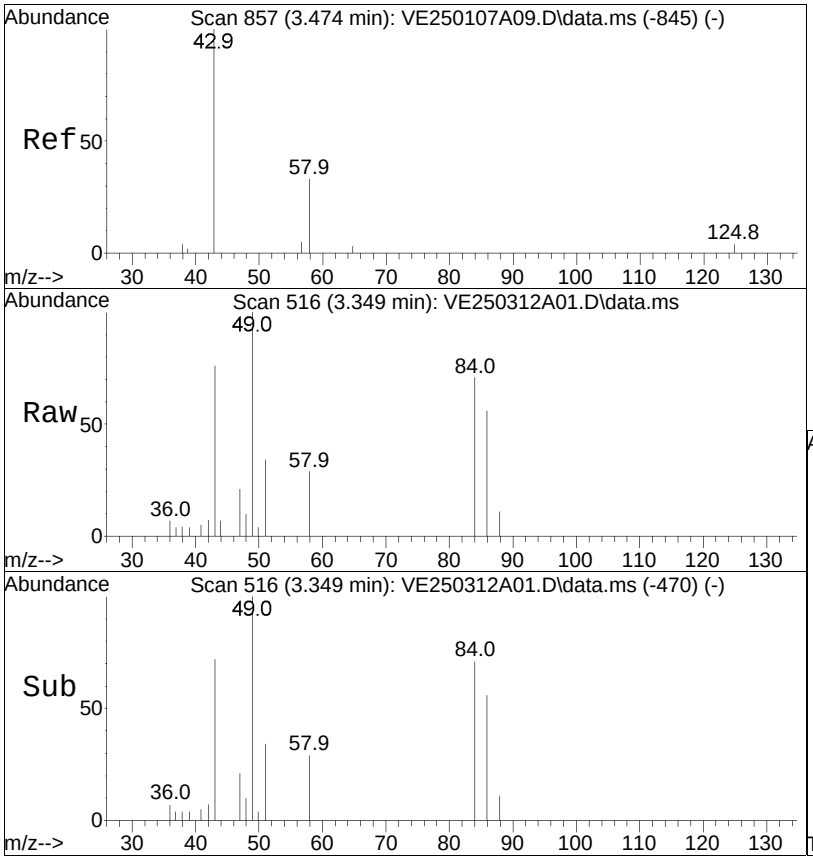


#15
Methylene chloride
Concen: 9.93 ug/L
RT: 3.309 min Scan# 507
Delta R.T. -0.000 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion: 84 Resp: 69640

Ion	Ratio	Lower	Upper
84	100		
86	65.3	42.1	87.3
49	129.5	79.9	165.9

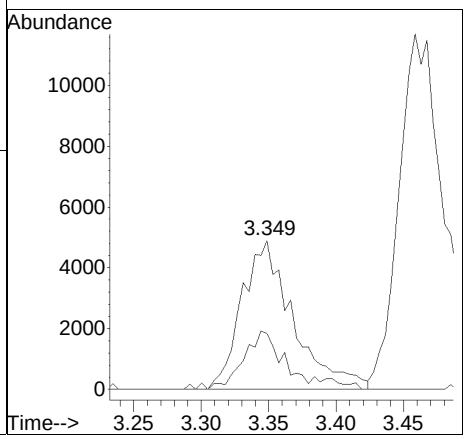


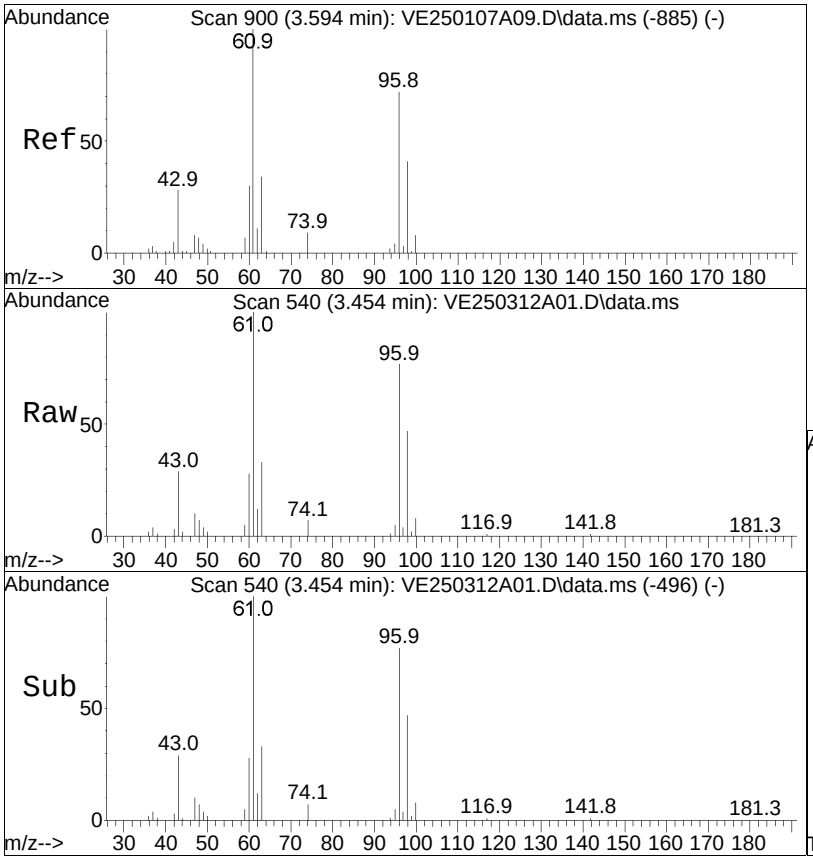


#17
Acetone
Concen: 10.97 ug/L
RT: 3.349 min Scan# 516
Delta R.T. 0.000 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion: 43 Resp: 13063

Ion	Ratio	Lower	Upper
43	100		
58	33.6	26.6	40.0

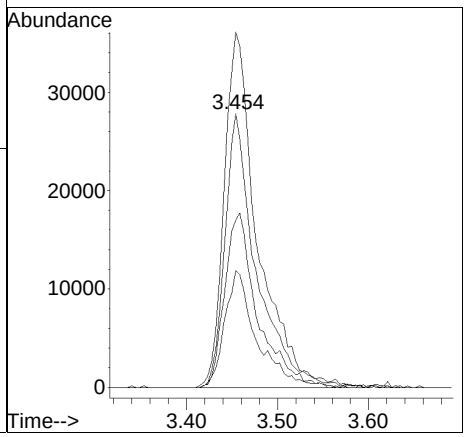


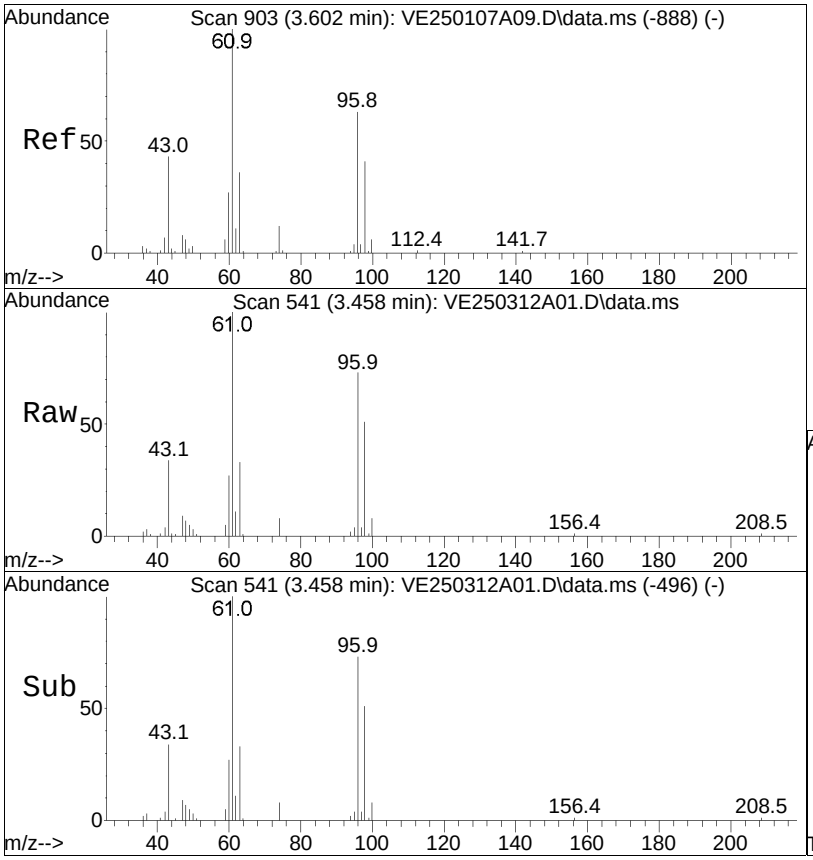


#18
trans-1,2-Dichloroethene
Concen: 10.27 ug/L
RT: 3.454 min Scan# 540
Delta R.T. -0.009 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion: 96 Resp: 67314

Ion	Ratio	Lower	Upper
96	100		
61	136.7	84.8	176.2
98	66.0	42.0	87.2
63	43.1	26.4	54.8

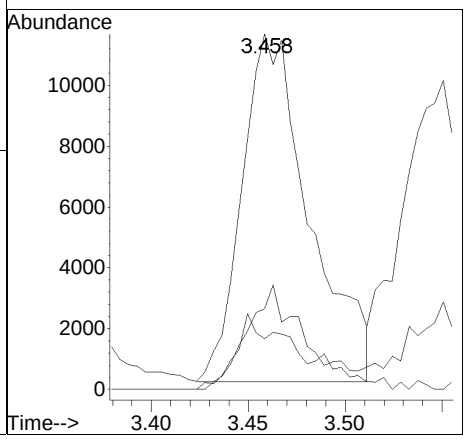


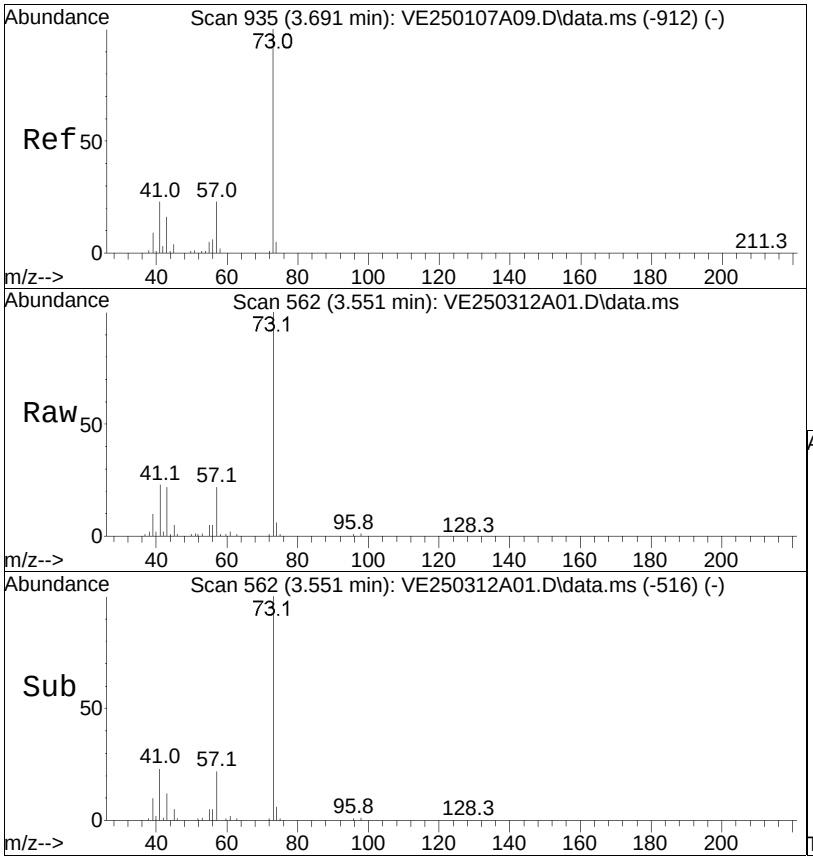


#19
Methyl acetate
Concen: 9.35 ug/L M6
RT: 3.458 min Scan# 541
Delta R.T. -0.004 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion: 43 Resp: 27760

Ion	Ratio	Lower	Upper
43	100		
74	29.8	21.0	31.4
59	21.0	16.6	24.8

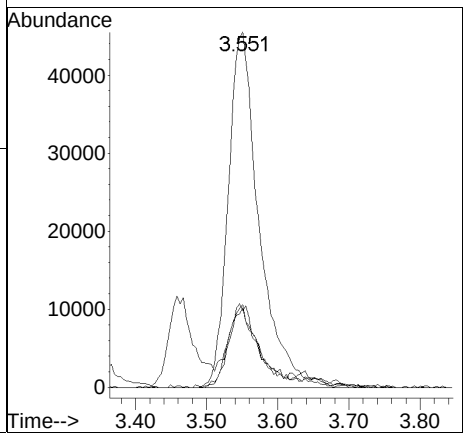


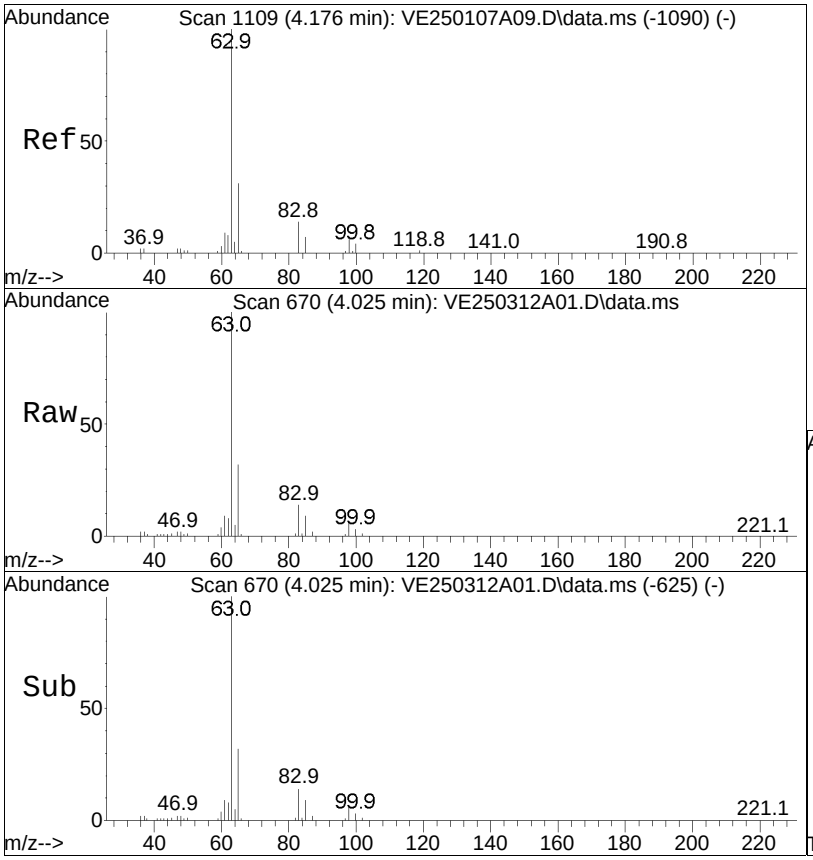


#21
Methyl tert-butyl ether
Concen: 8.97 ug/L
RT: 3.551 min Scan# 562
Delta R.T. 0.001 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion: 73 Resp: 138635

Ion	Ratio	Lower	Upper
73	100		
57	24.2	15.2	31.6
43	22.8	0.0	0.0#
41	26.7	14.4	30.0

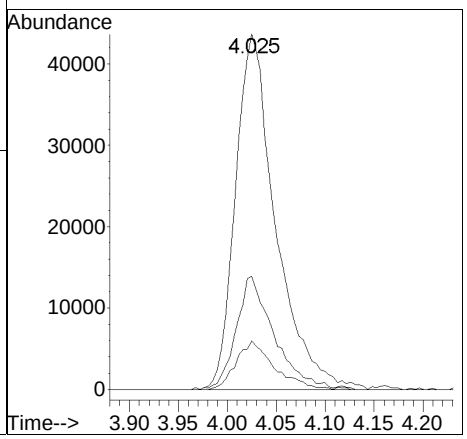


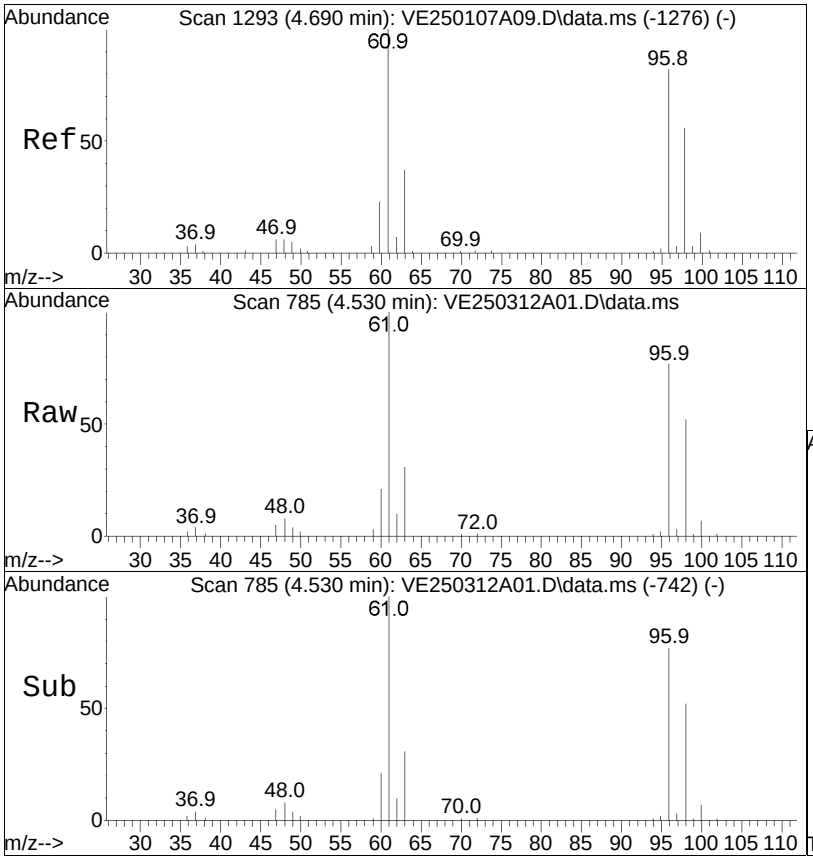


#25
1,1-Dichloroethane
Concen: 10.28 ug/L
RT: 4.025 min Scan# 670
Delta R.T. -0.004 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion: 63 Resp: 124618

Ion	Ratio	Lower	Upper
63	100		
65	30.1	11.7	51.7
83	12.9	0.0	33.3

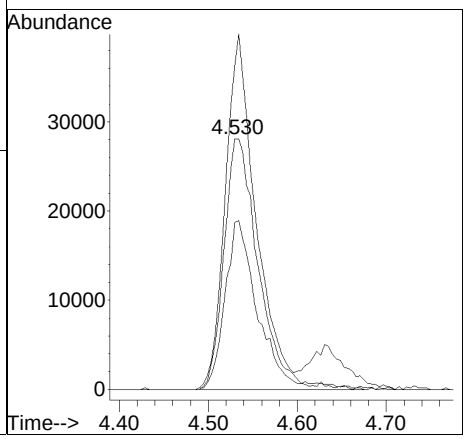


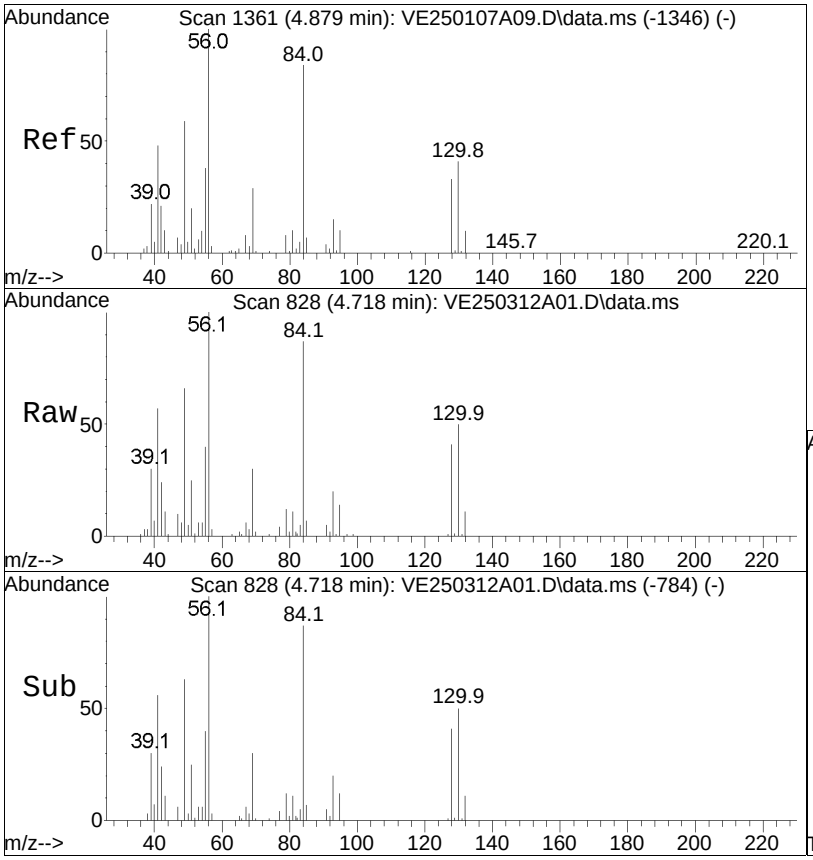


#30
cis-1,2-Dichloroethene
Concen: 9.94 ug/L
RT: 4.530 min Scan# 785
Delta R.T. -0.009 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion: 96 Resp: 75924

Ion	Ratio	Lower	Upper
96	100		
61	144.1	111.0	166.6
98	64.0	50.3	75.5

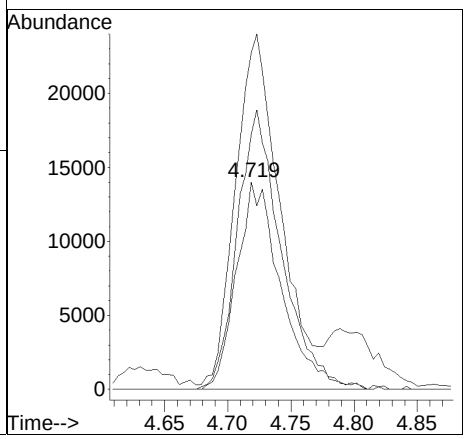


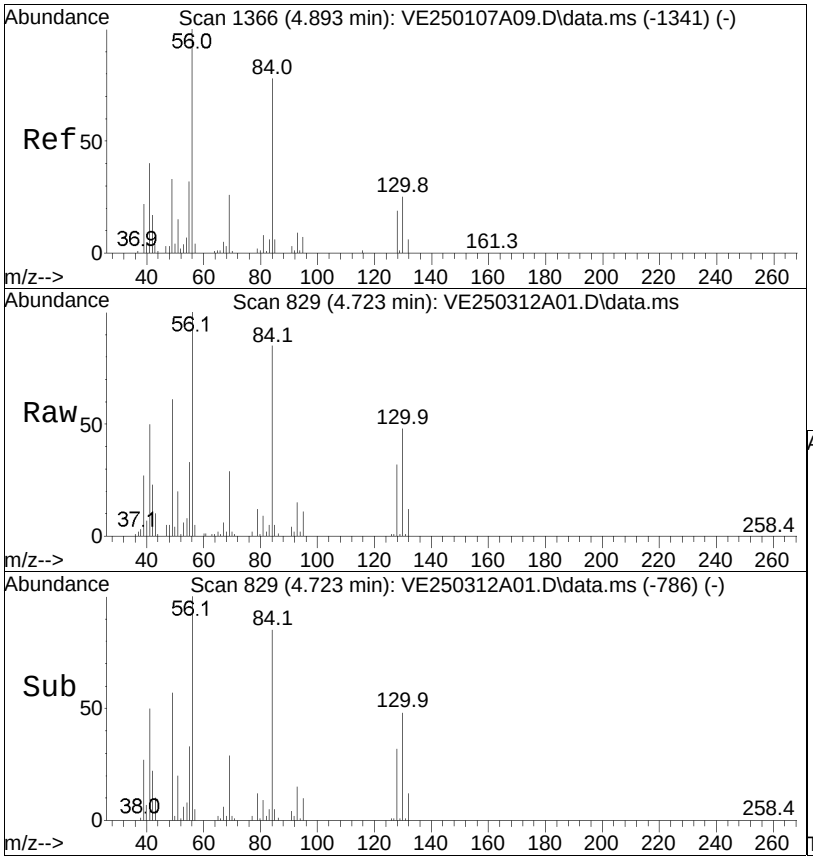


#33
Bromochloromethane
Concen: 9.90 ug/L
RT: 4.718 min Scan# 828
Delta R.T. -0.008 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion:128 Resp: 34497

Ion	Ratio	Lower	Upper
128	100		
49	201.3	152.6	228.8
130	133.1	101.8	152.6

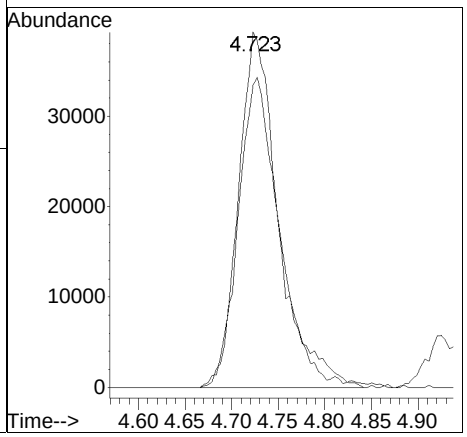


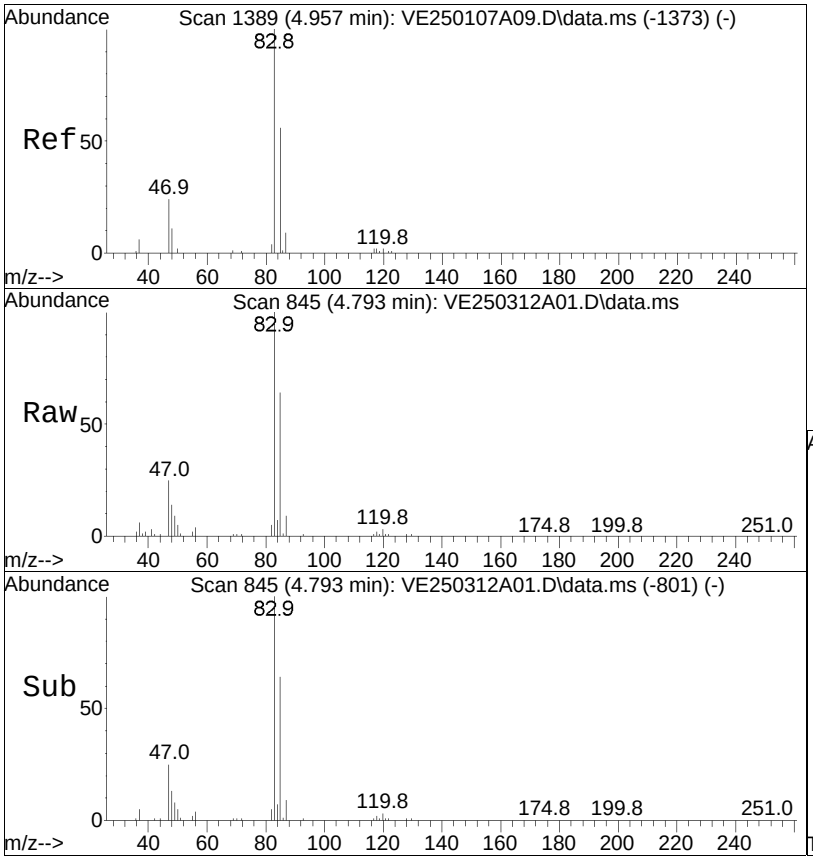


#34
Cyclohexane
Concen: 10.29 ug/L
RT: 4.723 min Scan# 829
Delta R.T. -0.011 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion: 56 Resp: 115892

Ion	Ratio	Lower	Upper
56	100		
84	92.8	62.9	130.7

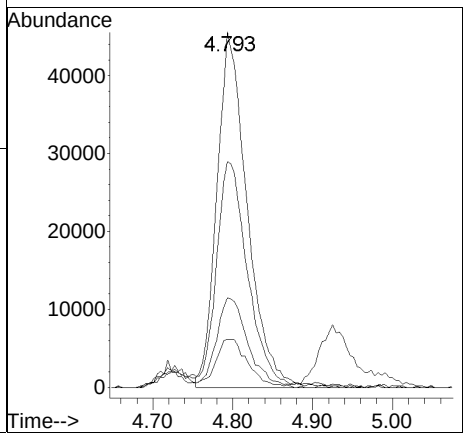


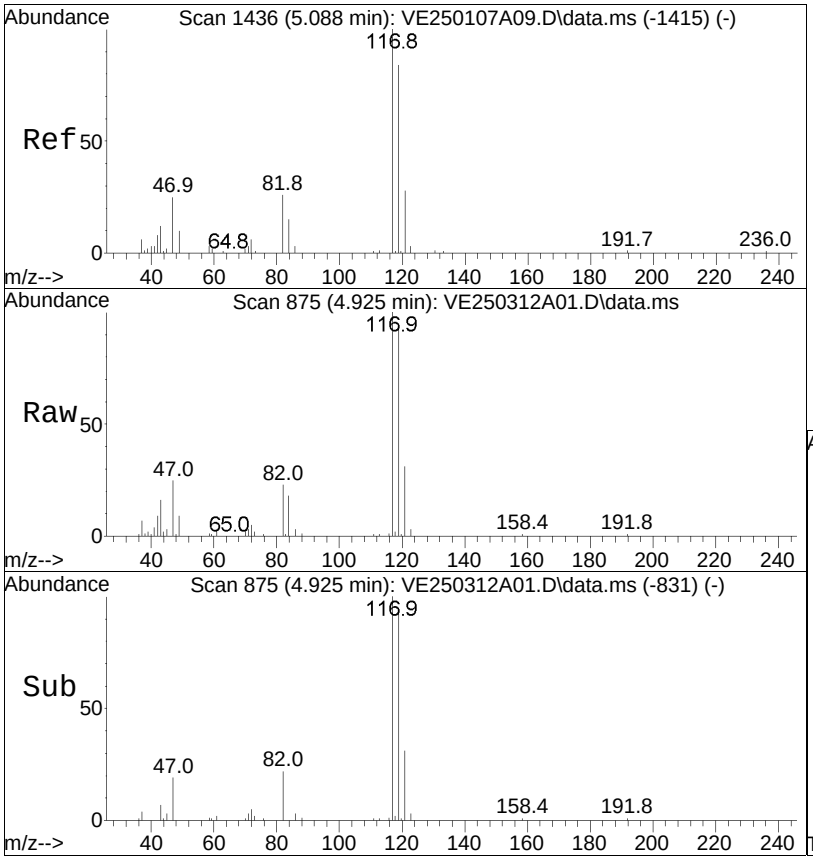


#35
Chloroform
Concen: 10.11 ug/L
RT: 4.793 min Scan# 845
Delta R.T. -0.008 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion: 83 Resp: 121327

Ion	Ratio	Lower	Upper
83	100		
85	65.2	42.5	88.3
47	24.1	16.8	35.0
48	13.8	9.2	19.2

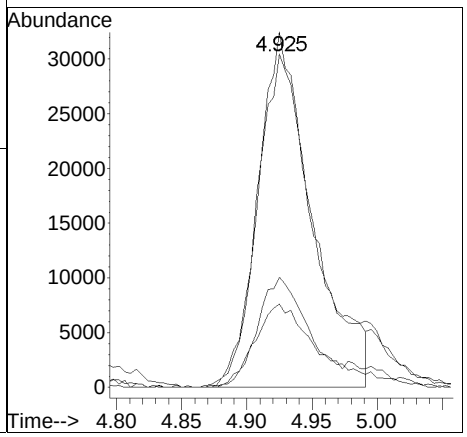


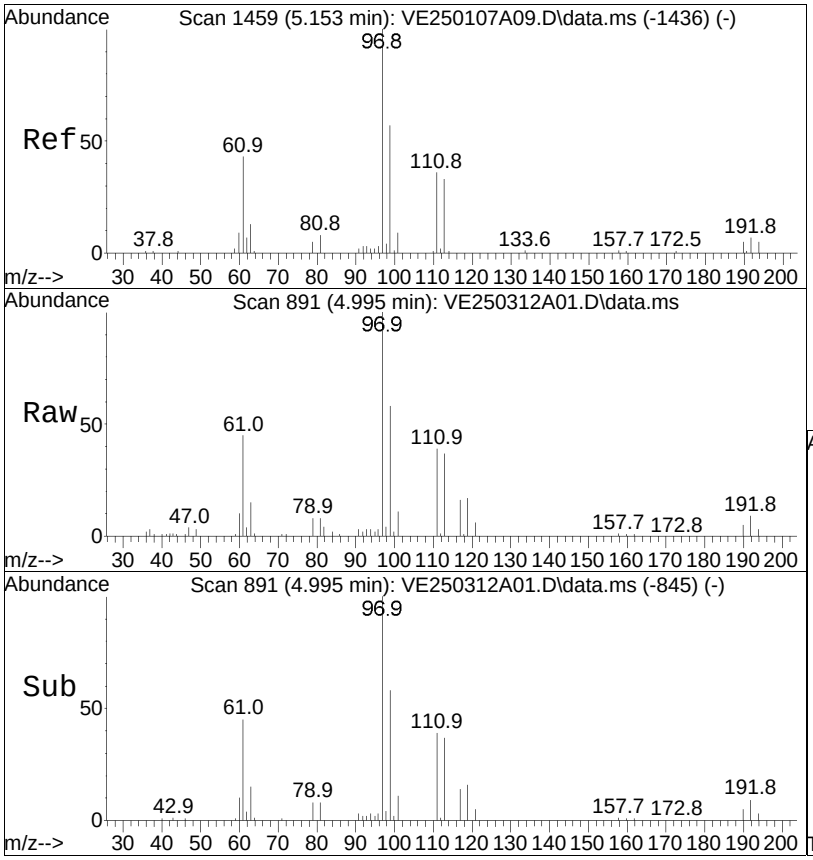


#37
Carbon tetrachloride
Concen: 10.62 ug/L M6
RT: 4.925 min Scan# 875
Delta R.T. -0.005 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion:117 Resp: 94347

Ion	Ratio	Lower	Upper
117	100		
119	106.1	70.2	145.8
121	34.5	22.9	47.7
82	27.8	19.7	40.9

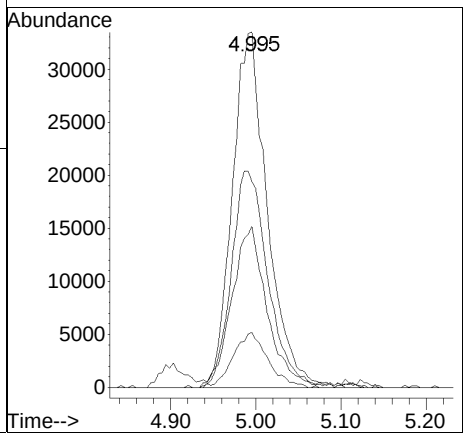


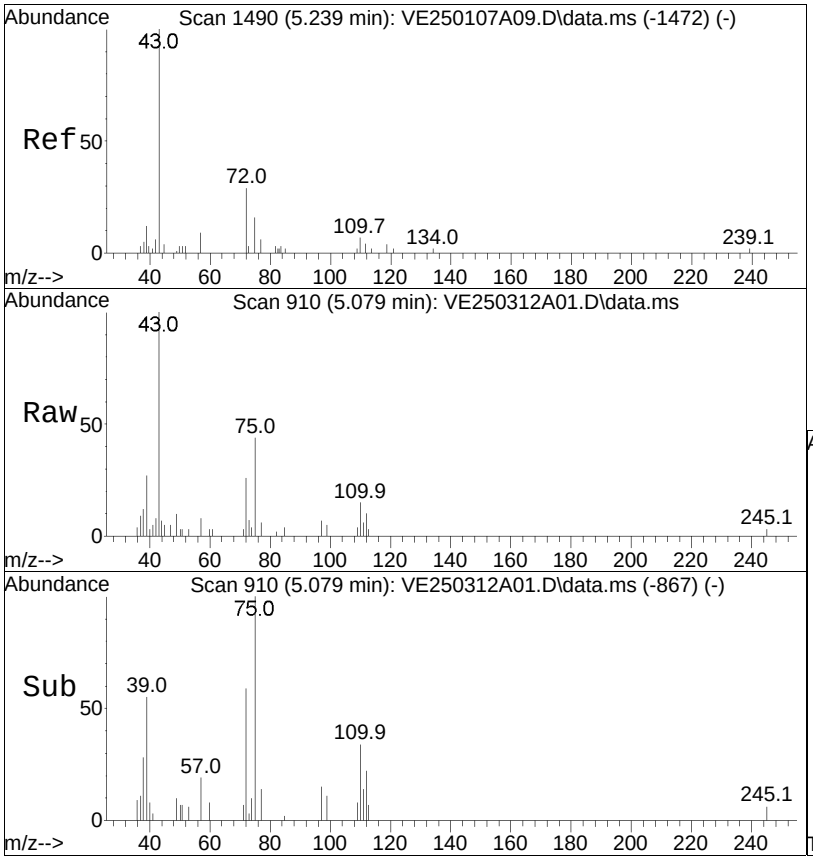


#40
1,1,1-Trichloroethane
Concen: 9.77 ug/L
RT: 4.995 min Scan# 891
Delta R.T. 0.001 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion: 97 Resp: 96415

Ion	Ratio	Lower	Upper
97	100		
99	63.2	42.4	88.2
61	46.0	29.0	60.2
63	15.3	9.4	19.6

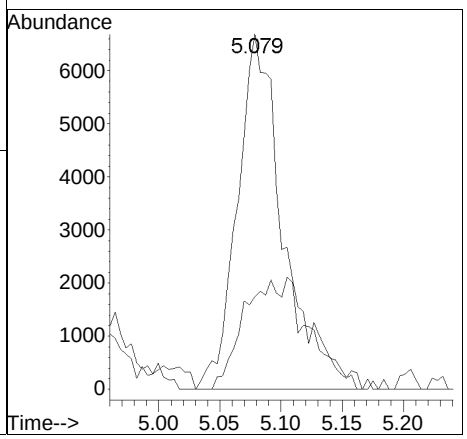


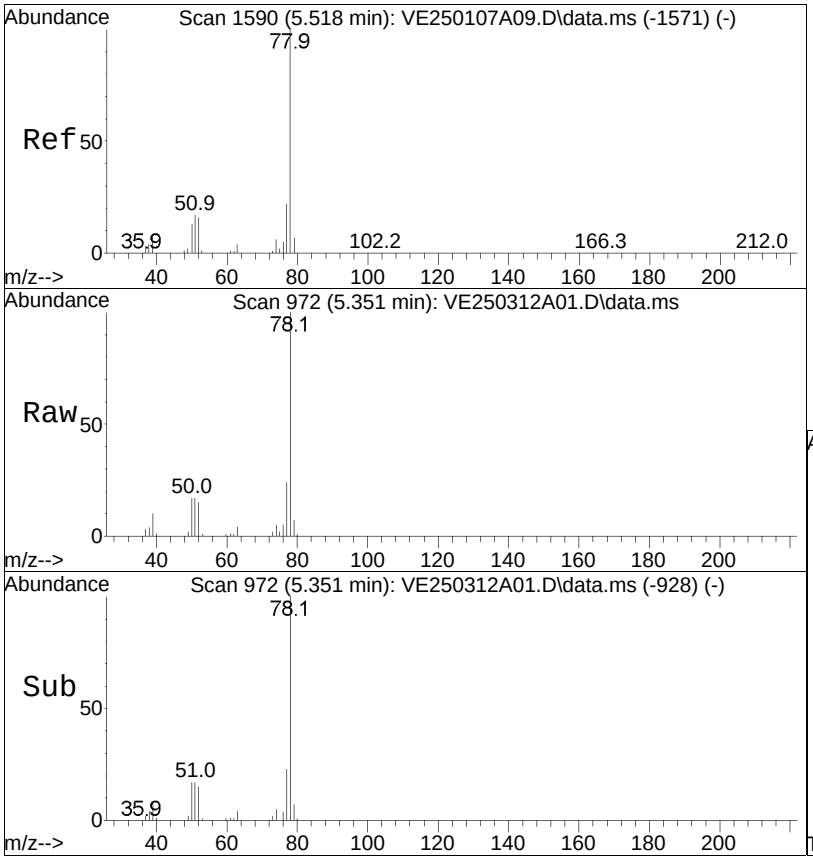


#42
2-Butanone
Concen: 10.65 ug/L
RT: 5.079 min Scan# 910
Delta R.T. -0.010 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion: 43 Resp: 17678

Ion	Ratio	Lower	Upper
43	100		
72	43.2	44.9	67.3#

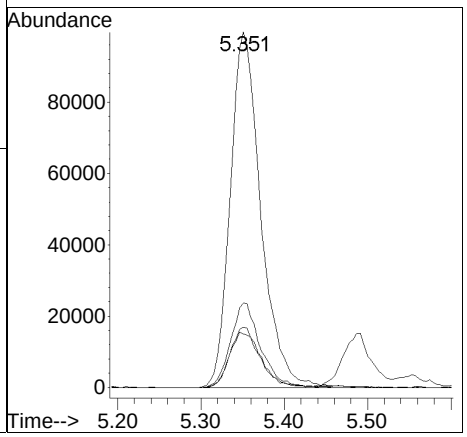


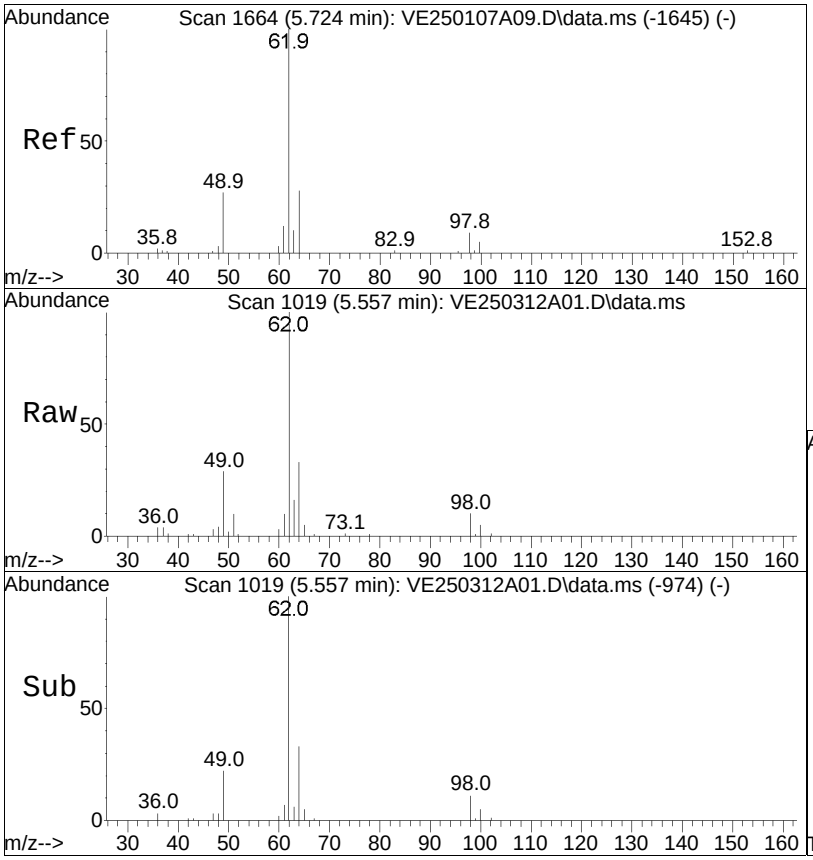


#45
Benzene
Concen: 9.62 ug/L
RT: 5.351 min Scan# 972
Delta R.T. -0.008 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion: 78 Resp: 254204

Ion	Ratio	Lower	Upper
78	100		
77	23.3	15.3	31.9
51	16.9	10.9	22.5
52	15.9	9.6	19.8

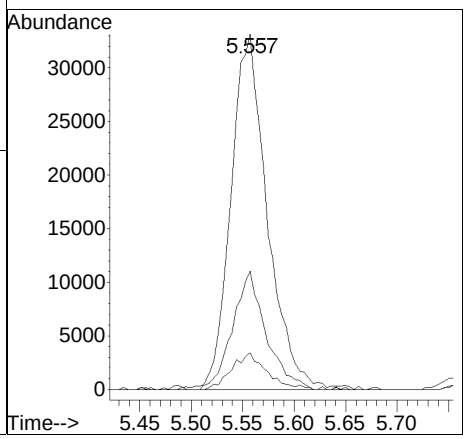


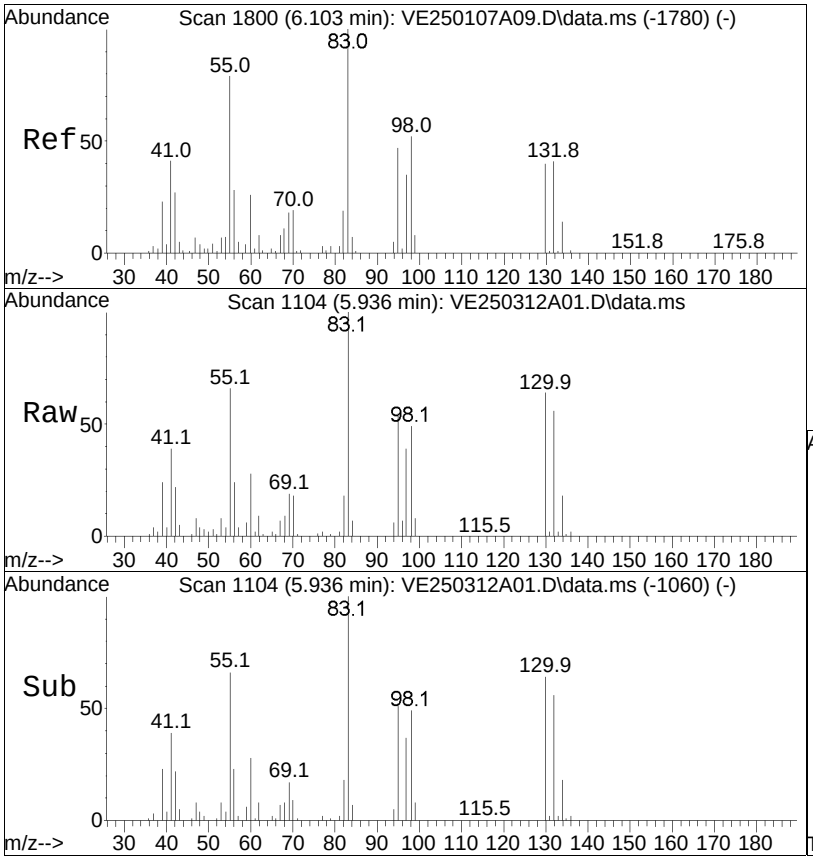


#48
1,2-Dichloroethane
Concen: 9.76 ug/L
RT: 5.557 min Scan# 1019
Delta R.T. -0.003 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion: 62 Resp: 81410

Ion	Ratio	Lower	Upper
62	100		
64	30.5	13.2	53.2
98	9.8	0.0	29.9

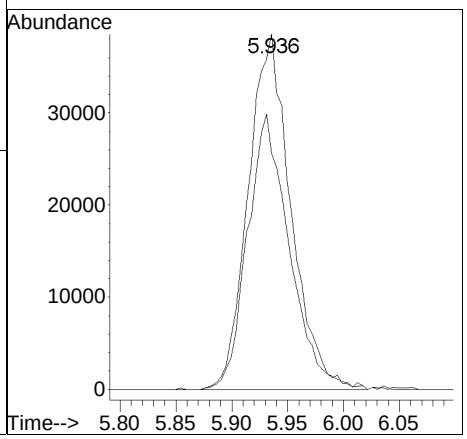


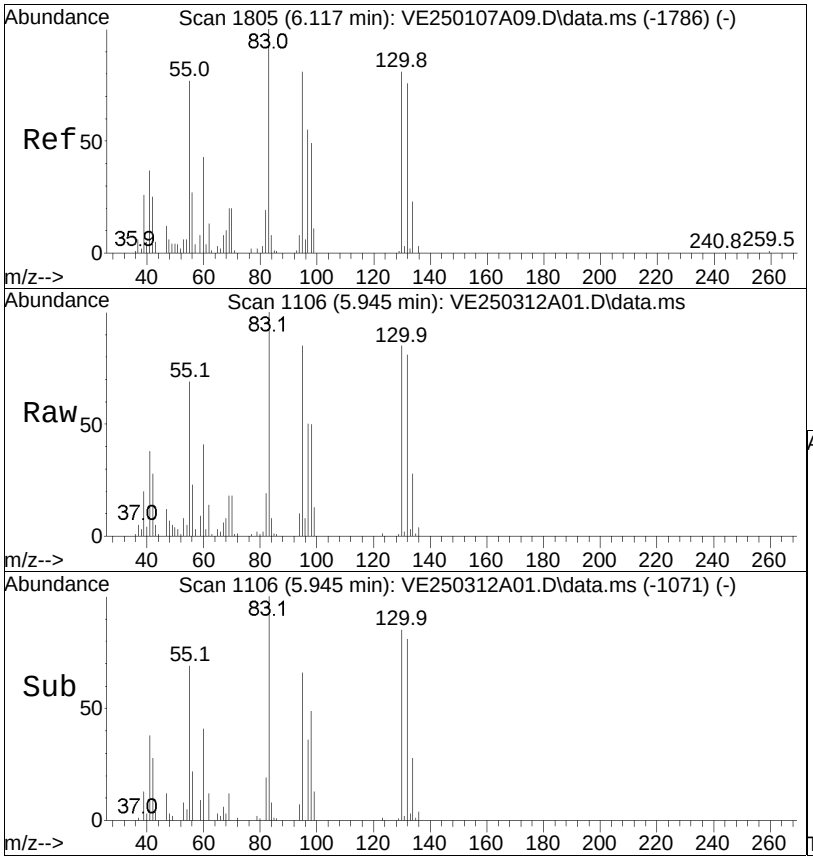


#51
Methyl cyclohexane
Concen: 8.73 ug/L
RT: 5.936 min Scan# 1104
Delta R.T. -0.003 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion: 83 Resp: 102468

Ion	Ratio	Lower	Upper
83	100		
55	76.0	54.4	81.6

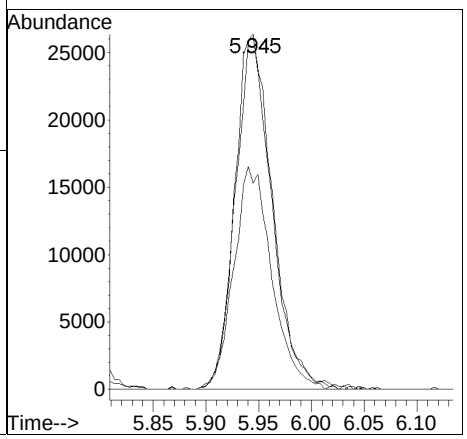


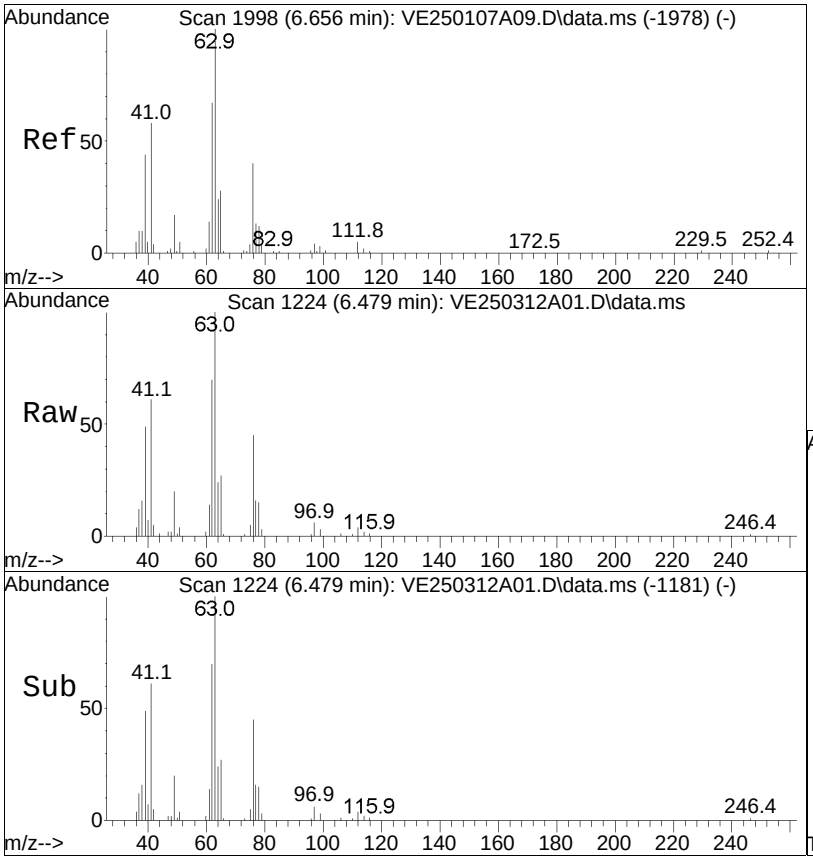


#52
Trichloroethene
Concen: 9.87 ug/L
RT: 5.945 min Scan# 1106
Delta R.T. -0.003 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion: 95 Resp: 63286

Ion	Ratio	Lower	Upper
95	100		
97	65.8	54.3	81.5
130	103.6	82.5	123.7

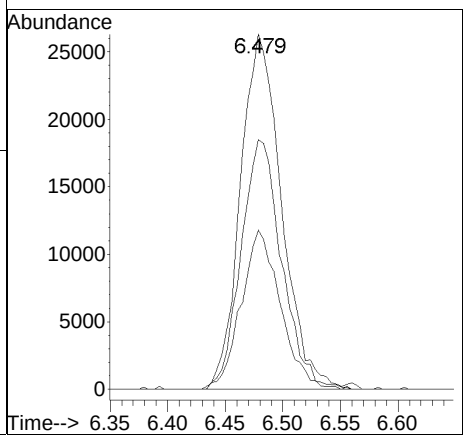


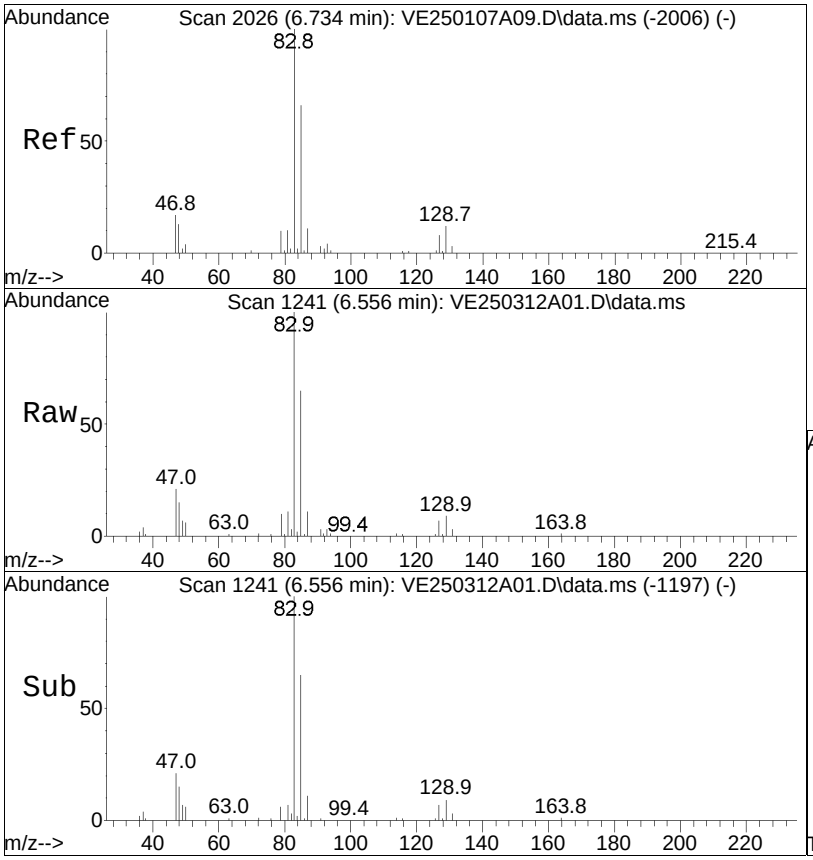


#55
1,2-Dichloropropane
Concen: 10.57 ug/L
RT: 6.479 min Scan# 1224
Delta R.T. -0.007 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion: 63 Resp: 65703

Ion	Ratio	Lower	Upper
63	100		
62	69.0	56.2	84.4
76	42.6	34.8	52.2

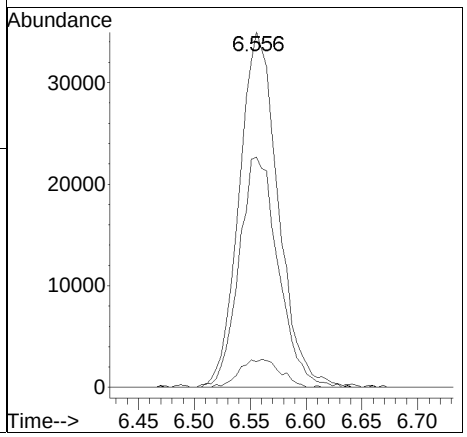


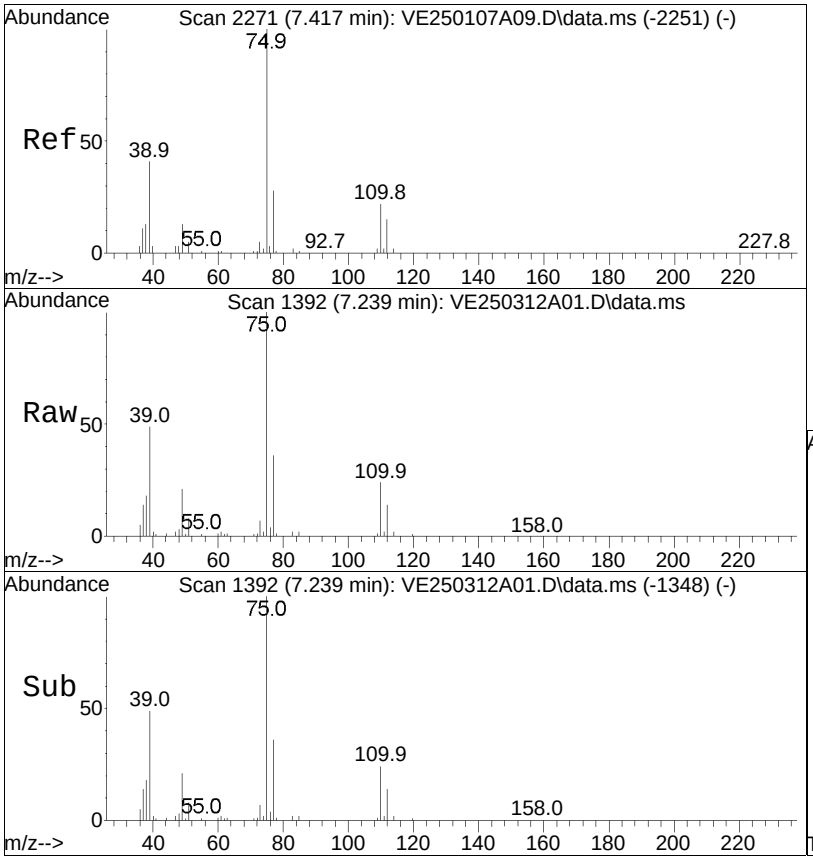


#58
Bromodichloromethane
Concen: 9.54 ug/L
RT: 6.556 min Scan# 1241
Delta R.T. -0.003 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion: 83 Resp: 85191

Ion	Ratio	Lower	Upper
83	100		
85	65.3	51.0	76.6
127	8.3	7.0	10.4

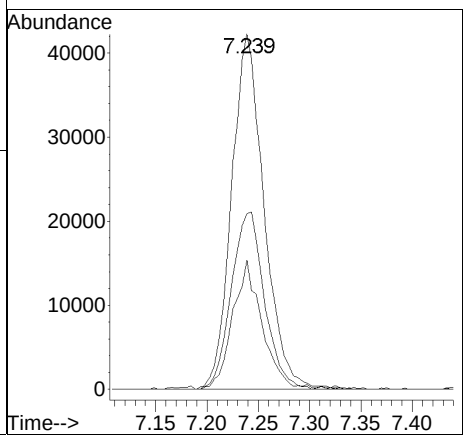


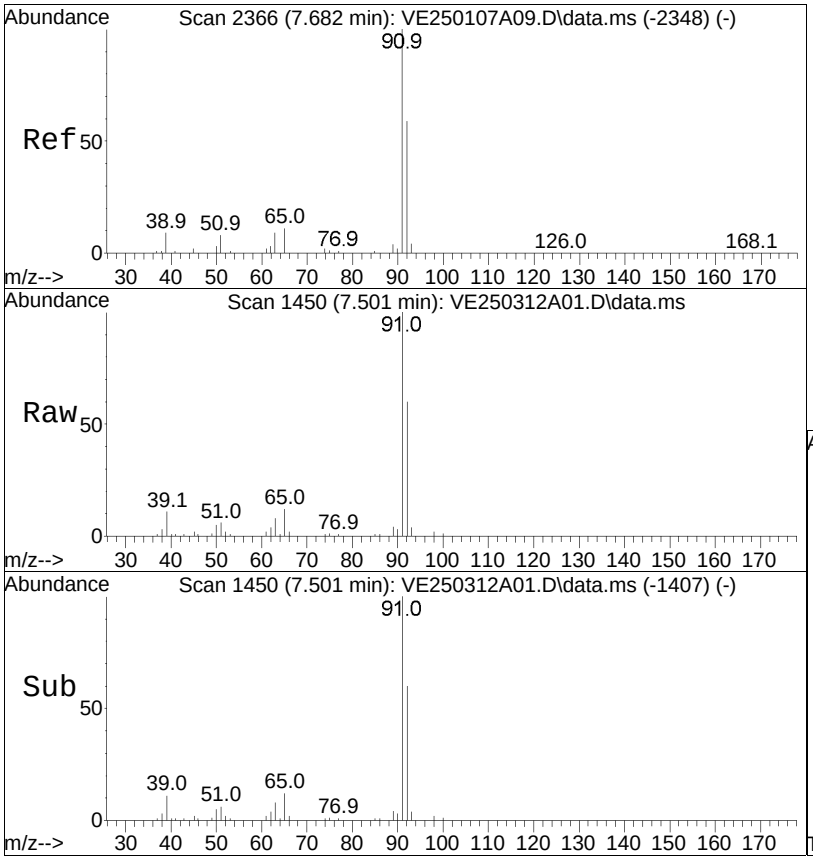


#62
cis-1,3-Dichloropropene
Concen: 9.62 ug/L
RT: 7.239 min Scan# 1392
Delta R.T. -0.002 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion: 75 Resp: 93047

Ion	Ratio	Lower	Upper
75	100		
77	32.8	25.0	37.4
39	51.6	42.9	64.3

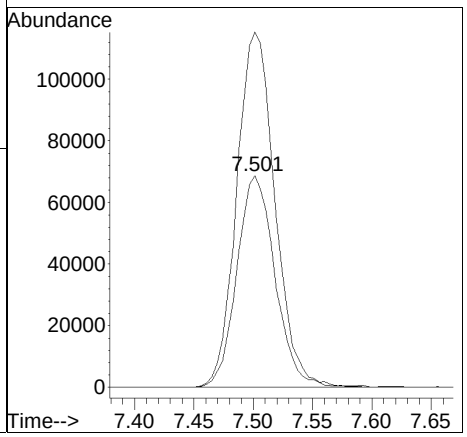


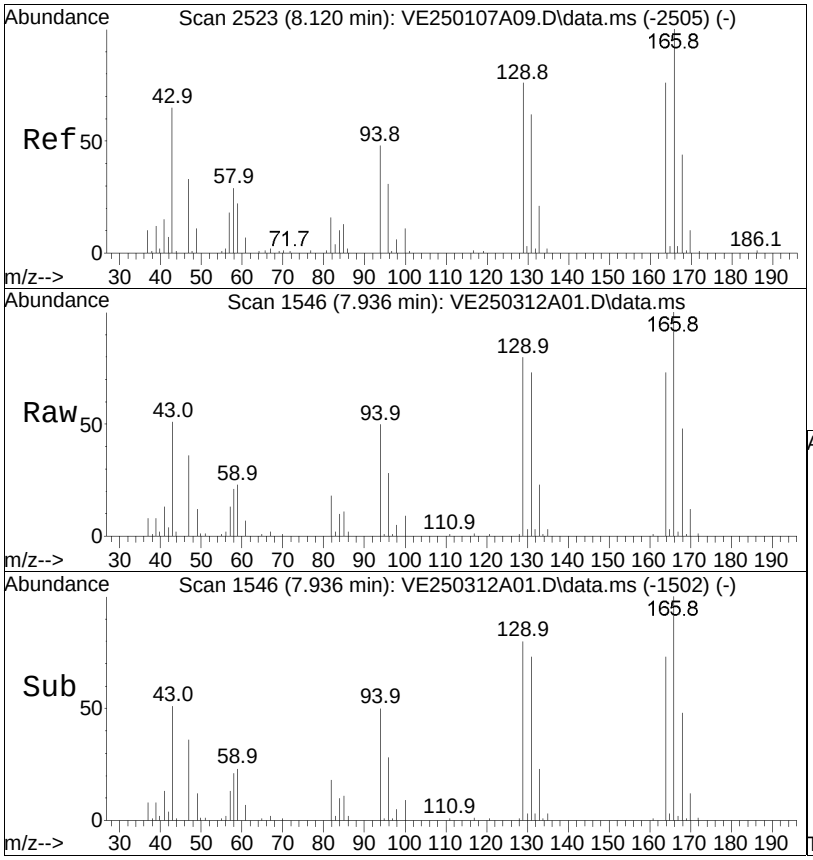


#65
Toluene
Concen: 9.22 ug/L
RT: 7.501 min Scan# 1450
Delta R.T. -0.005 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion: 92 Resp: 153912

Ion	Ratio	Lower	Upper
92	100		
91	168.2	134.8	202.2

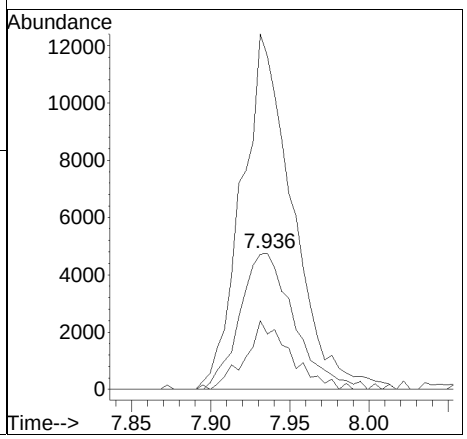


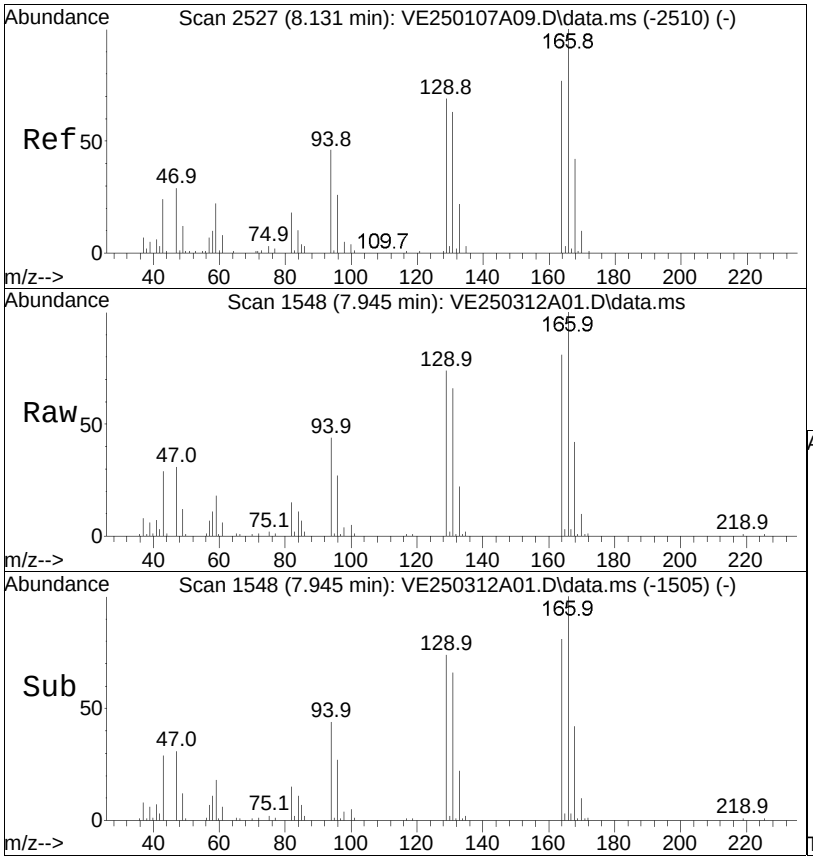


#66
4-Methyl-2-pentanone
Concen: 7.98 ug/L
RT: 7.936 min Scan# 1546
Delta R.T. -0.003 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion: 58 Resp: 11358

Ion	Ratio	Lower	Upper
58	100		
100	42.3	34.8	52.2
43	244.7	201.1	301.7

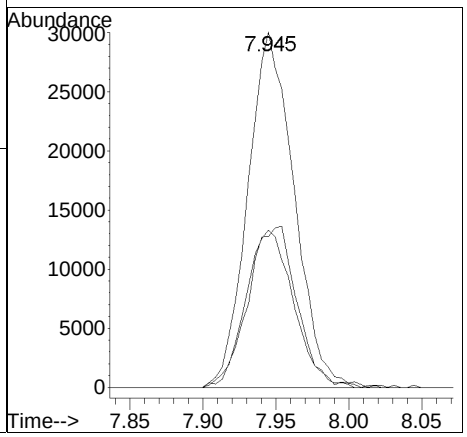


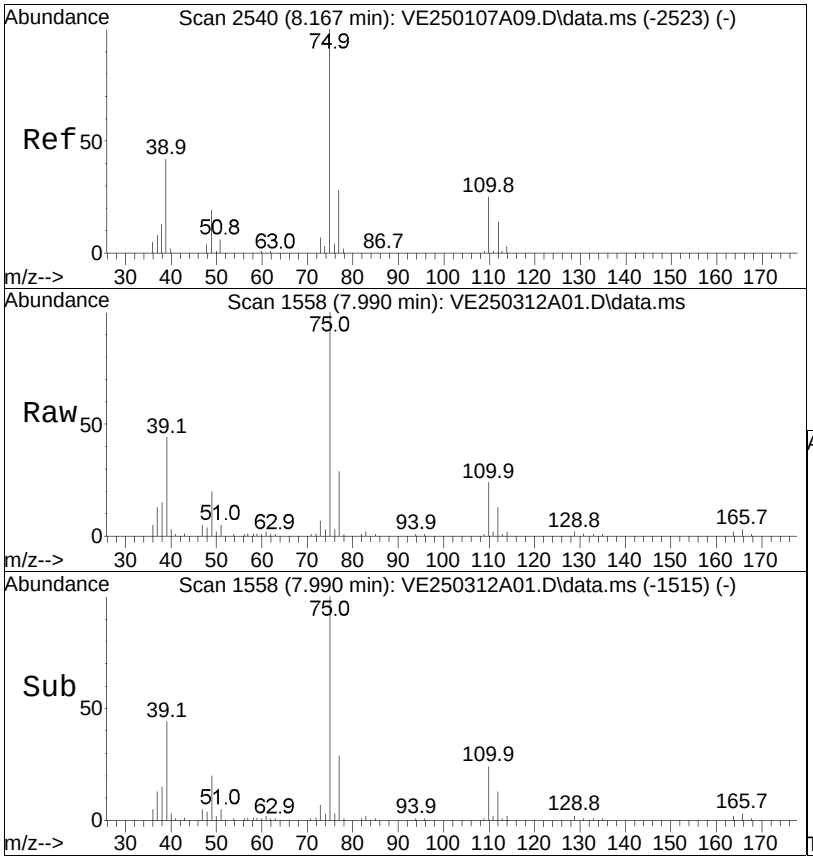


#67
Tetrachloroethene
Concen: 10.33 ug/L
RT: 7.945 min Scan# 1548
Delta R.T. -0.008 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion:166 Resp: 66339

Ion	Ratio	Lower	Upper
166	100		
168	47.6	28.3	68.3
94	45.8	27.4	67.4

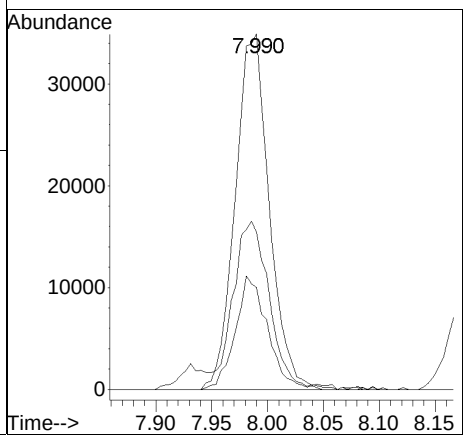


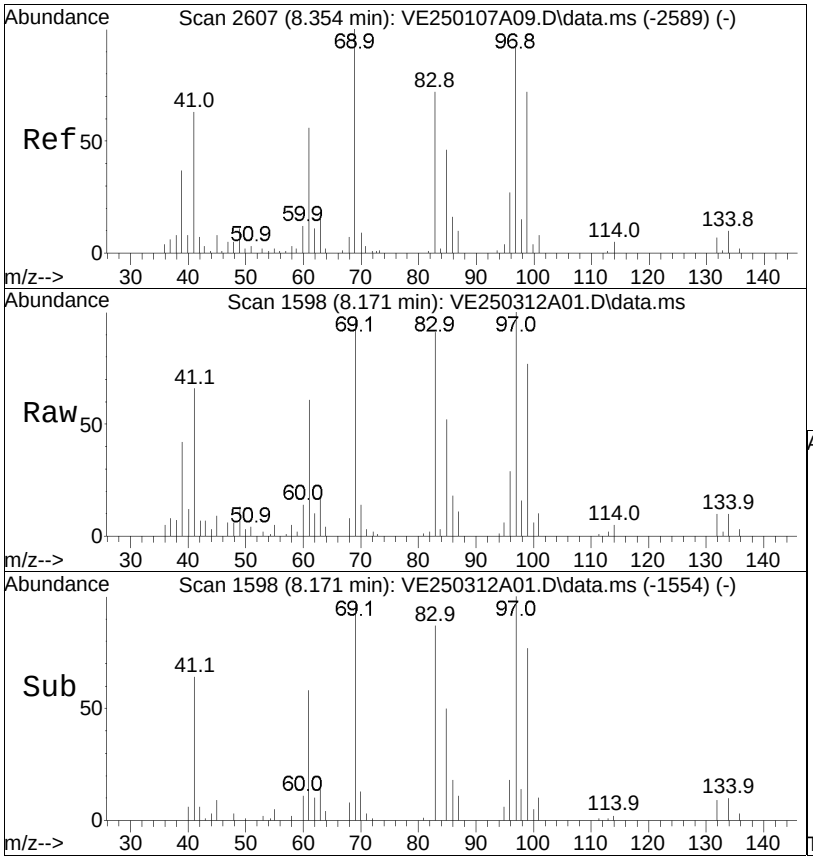


#69
trans-1,3-Dichloropropene
Concen: 9.21 ug/L
RT: 7.990 min Scan# 1558
Delta R.T. -0.004 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion: 75 Resp: 74325

Ion	Ratio	Lower	Upper
75	100		
77	30.0	11.5	51.5
39	49.4	29.6	69.6

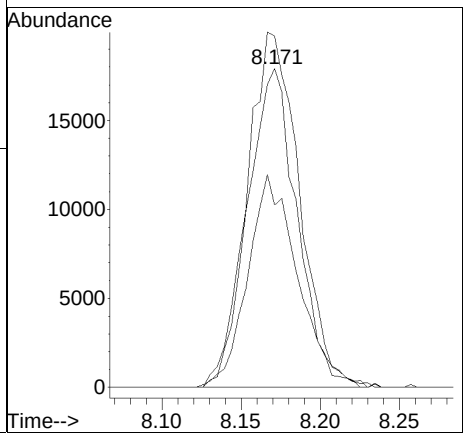


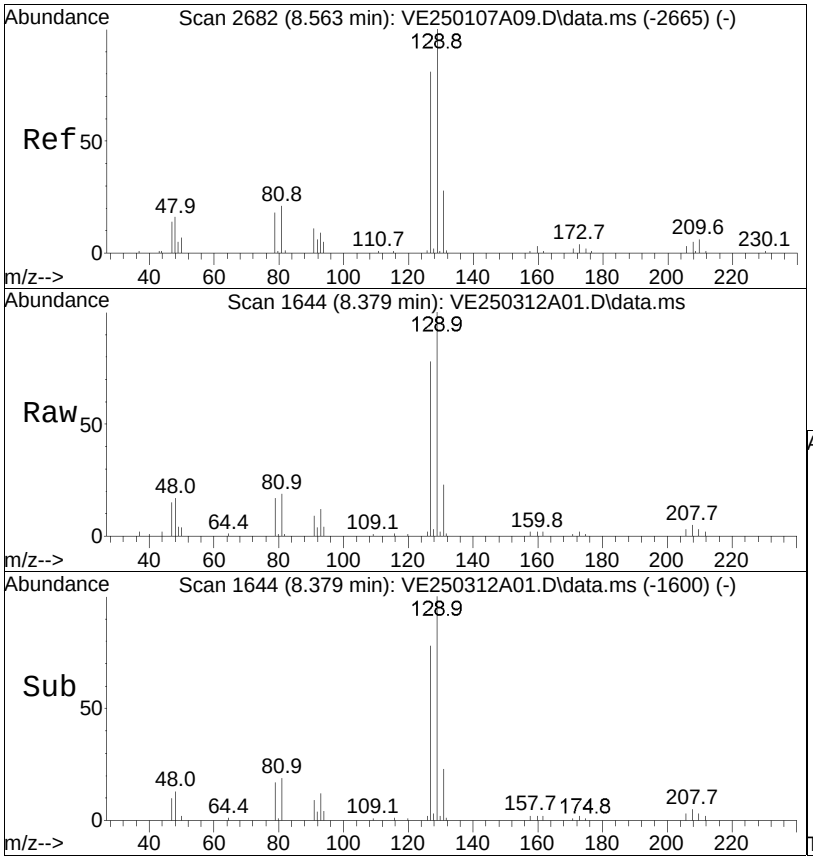


#72
1,1,2-Trichloroethane
Concen: 9.32 ug/L
RT: 8.171 min Scan# 1598
Delta R.T. -0.002 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion: 83 Resp: 39060

Ion	Ratio	Lower	Upper
83	100		
97	118.5	96.9	136.9
85	67.0	46.7	86.7

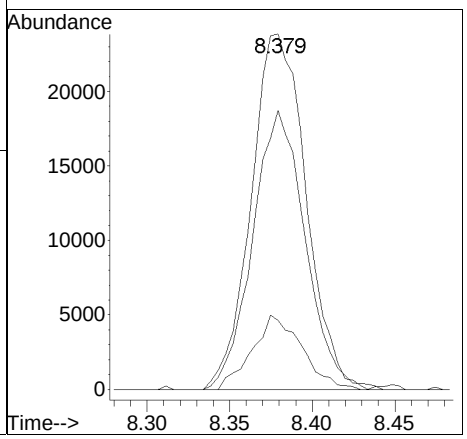


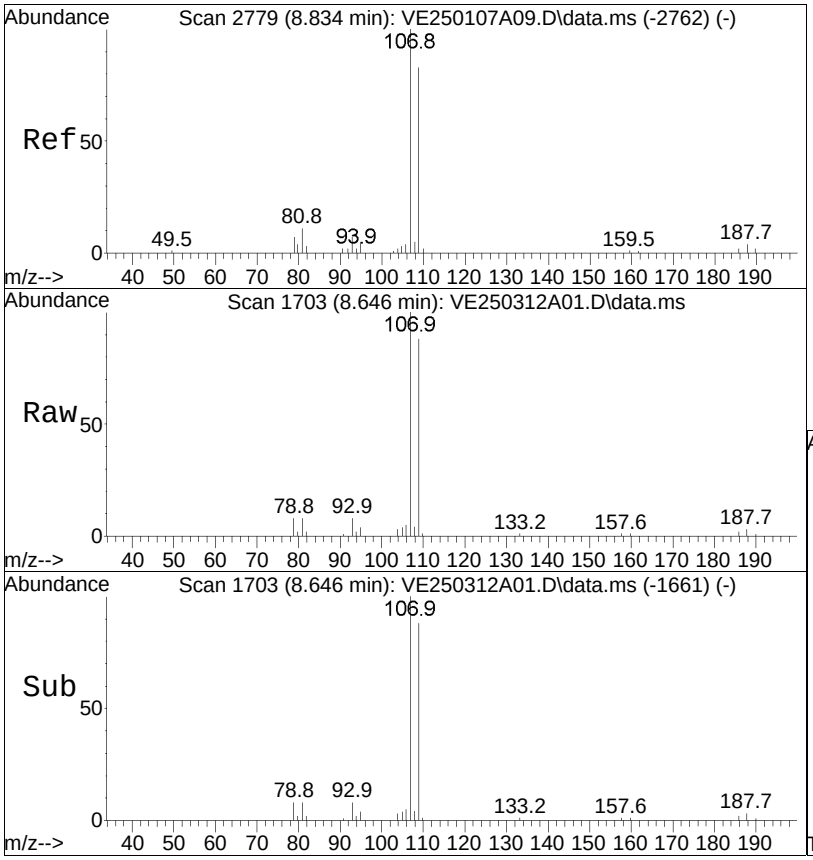


#73
Chlorodibromomethane
Concen: 9.43 ug/L
RT: 8.379 min Scan# 1644
Delta R.T. -0.003 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion:129 Resp: 54980

Ion	Ratio	Lower	Upper
129	100		
81	19.0	0.9	40.9
127	75.3	56.5	96.5

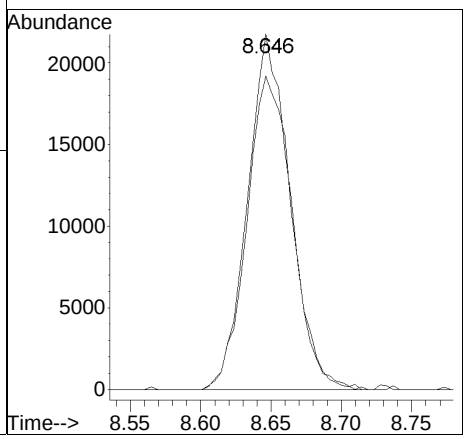


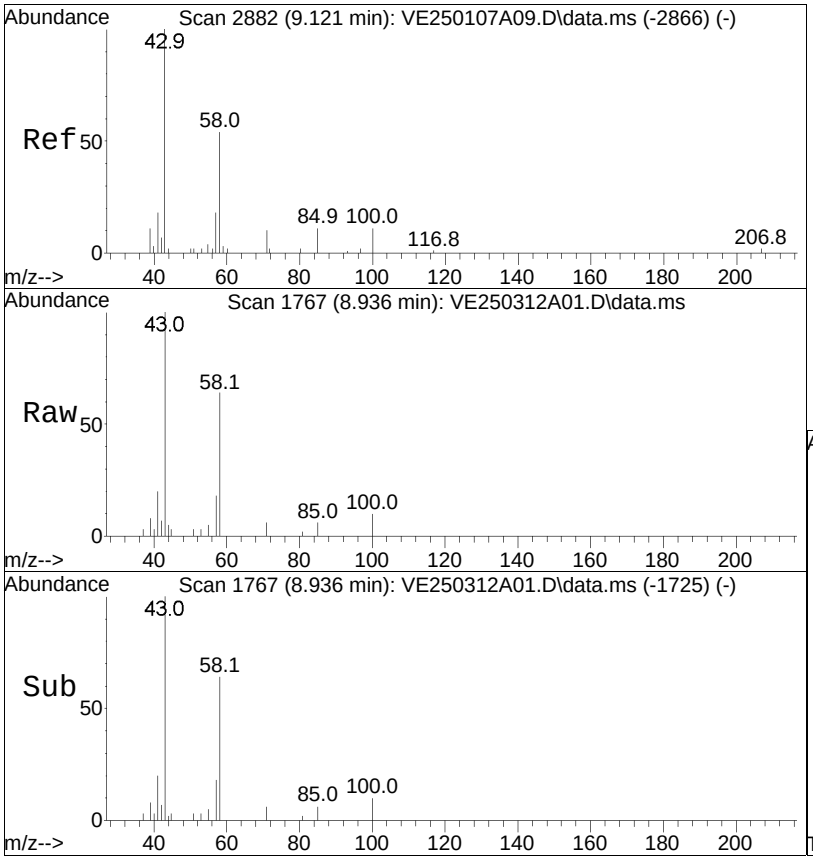


#75
1,2-Dibromoethane
Concen: 9.54 ug/L
RT: 8.646 min Scan# 1703
Delta R.T. -0.009 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion:107 Resp: 45780

Ion	Ratio	Lower	Upper
107	100		
109	93.9	72.7	109.1

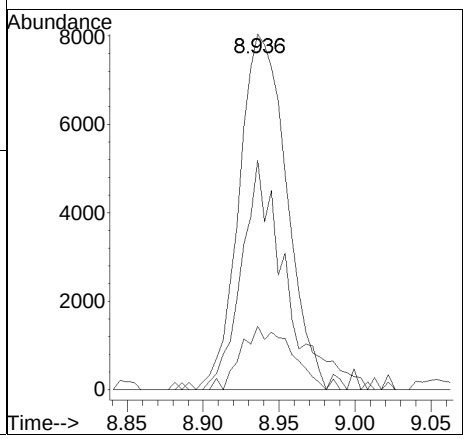


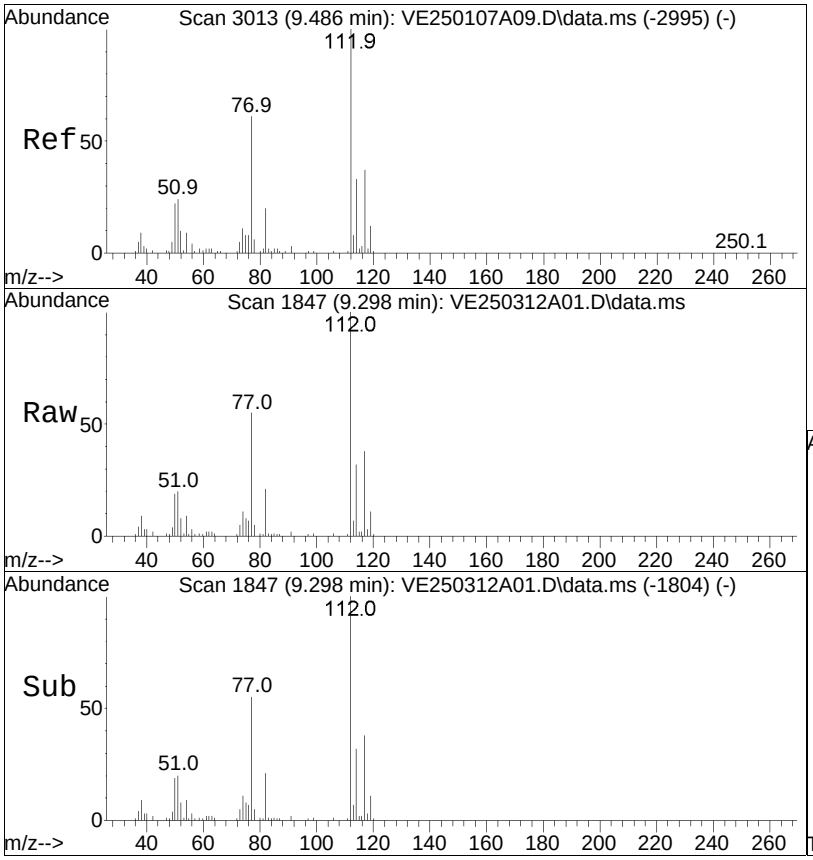


#77
2-Hexanone
Concen: 8.07 ug/L
RT: 8.936 min Scan# 1767
Delta R.T. -0.009 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion: 43 Resp: 18283

Ion	Ratio	Lower	Upper
43	100		
58	53.1	42.7	64.1
57	17.8	15.5	23.3

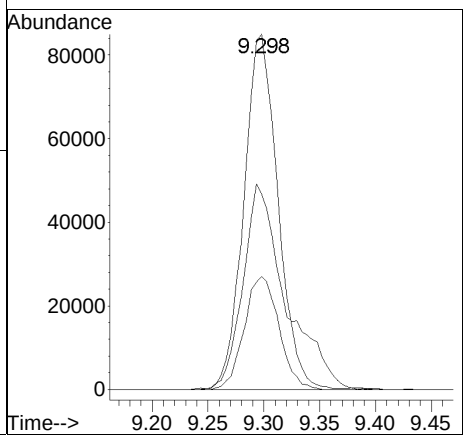


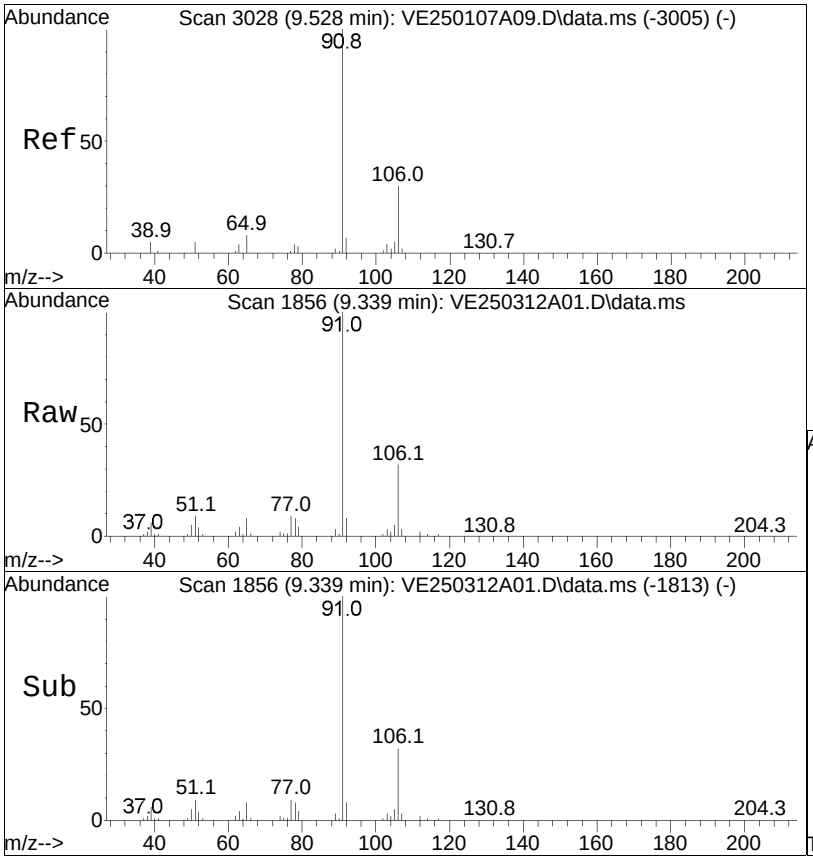


#78
Chlorobenzene
Concen: 9.49 ug/L
RT: 9.298 min Scan# 1847
Delta R.T. -0.004 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion:112 Resp: 180063

Ion	Ratio	Lower	Upper
112	100		
77	72.6	56.4	84.6
114	32.4	25.8	38.6

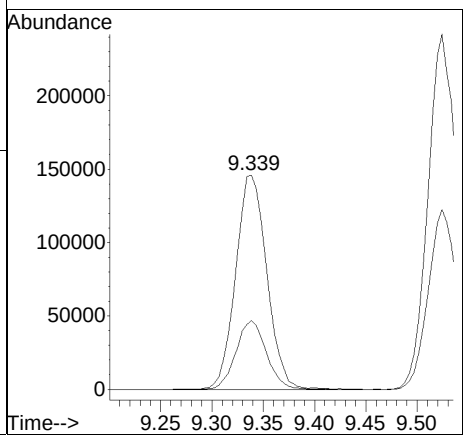


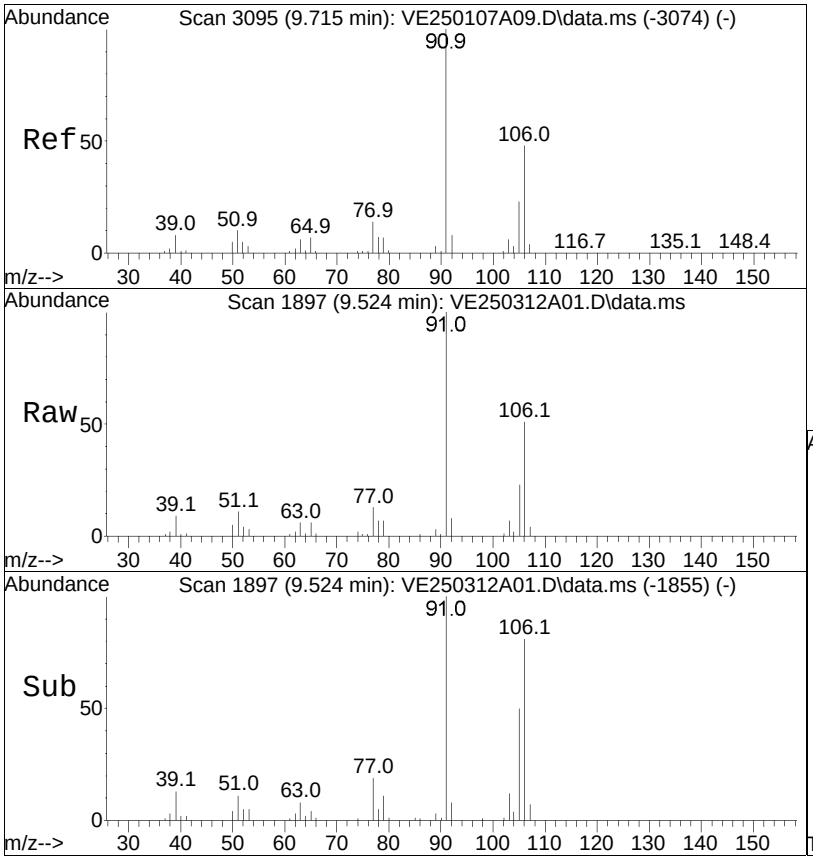


#79
Ethylbenzene
Concen: 9.24 ug/L
RT: 9.339 min Scan# 1856
Delta R.T. -0.005 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion: 91 Resp: 308513

Ion	Ratio	Lower	Upper
91	100		
106	31.3	25.4	38.2

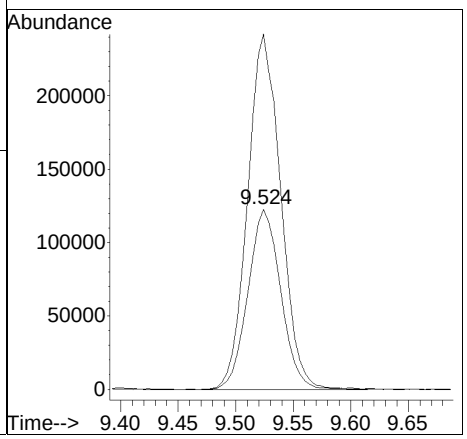


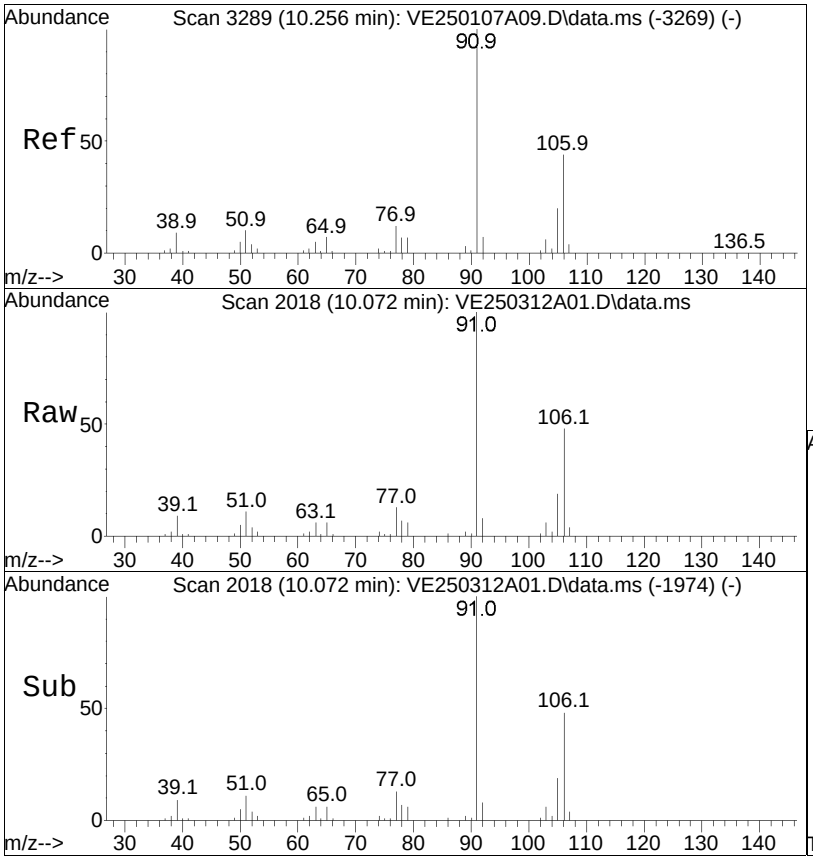


#81
p/m Xylene
Concen: 17.81 ug/L
RT: 9.524 min Scan# 1897
Delta R.T. -0.007 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion:106 Resp: 243428

Ion	Ratio	Lower	Upper
106	100		
91	199.0	158.3	237.5

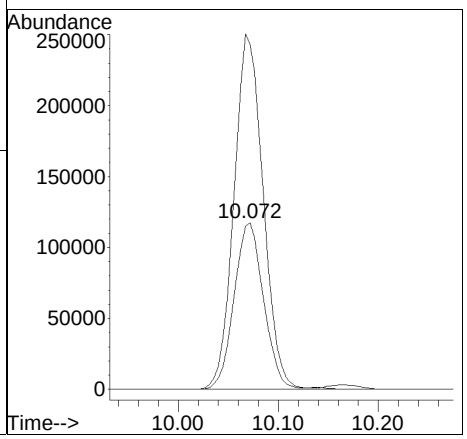


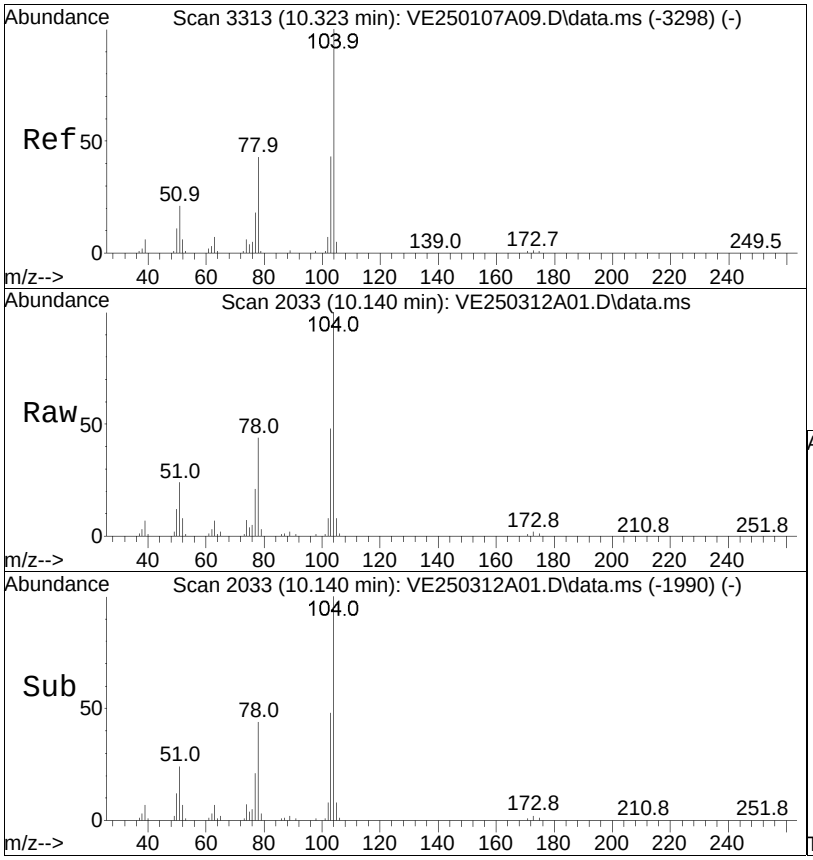


#82
o Xylene
Concen: 17.83 ug/L
RT: 10.072 min Scan# 2018
Delta R.T. -0.003 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion:106 Resp: 242617

Ion	Ratio	Lower	Upper
106	100		
91	209.4	168.7	253.1

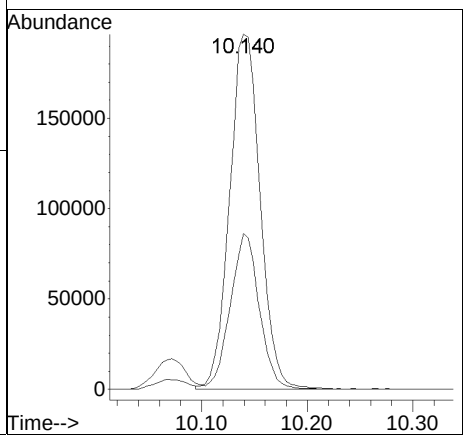


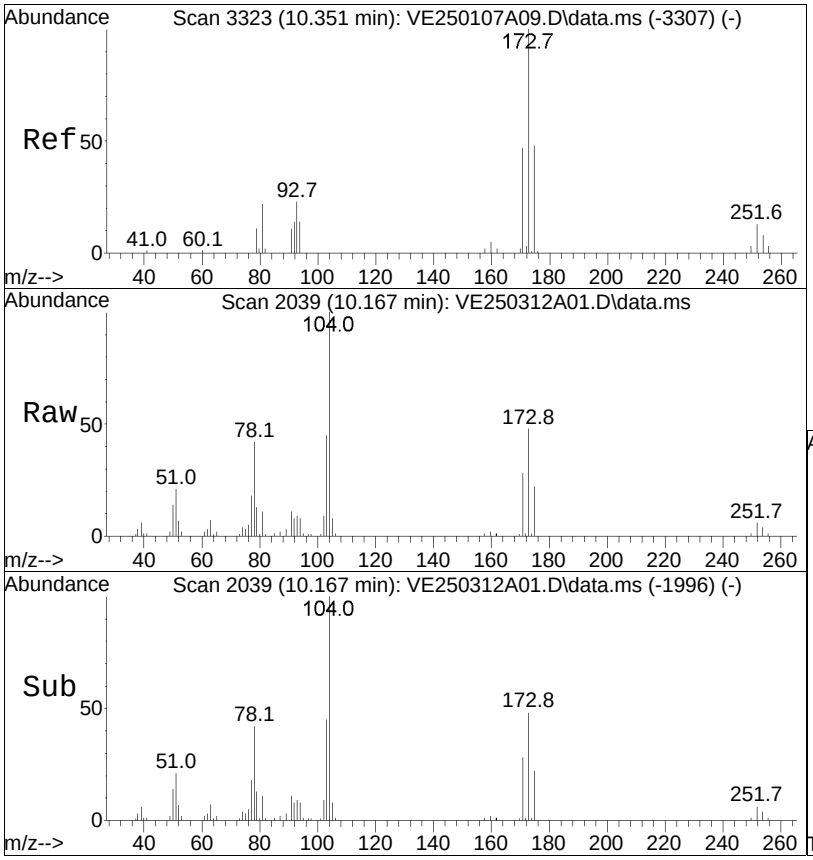


#83
Styrene
Concen: 17.04 ug/L
RT: 10.140 min Scan# 2033
Delta R.T. -0.008 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion:104 Resp: 394864

Ion	Ratio	Lower	Upper
104	100		
78	41.7	32.4	48.6

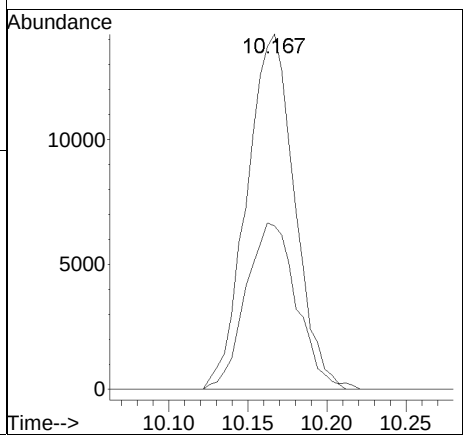


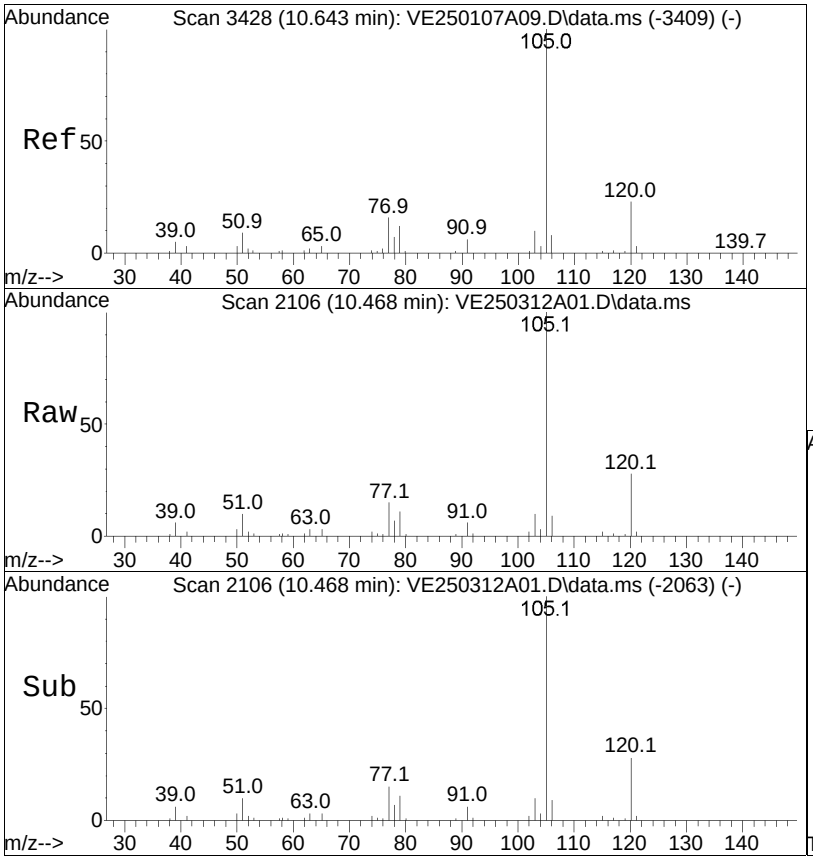


#85
Bromoform
Concen: 8.78 ug/L
RT: 10.167 min Scan# 2039
Delta R.T. -0.005 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion:173 Resp: 30042

Ion	Ratio	Lower	Upper
173	100		
175	49.3	27.0	67.0

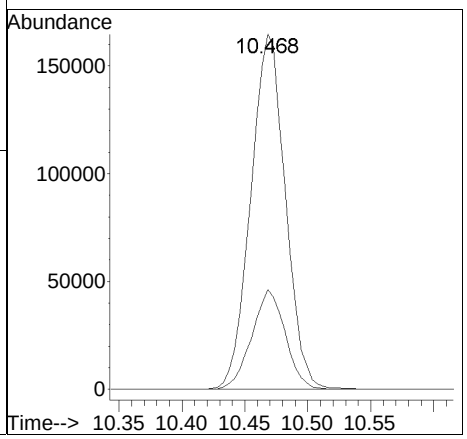


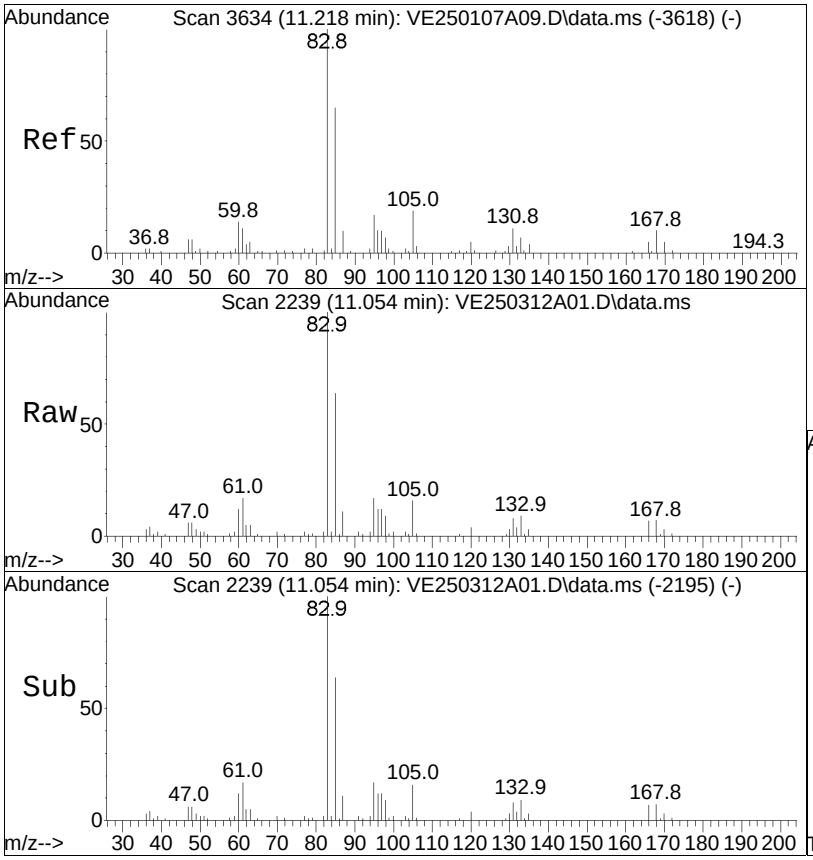


#87
Isopropylbenzene
Concen: 9.40 ug/L
RT: 10.468 min Scan# 2106
Delta R.T. -0.005 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion:105 Resp: 314895

Ion	Ratio	Lower	Upper
105	100		
120	27.2	6.7	46.7

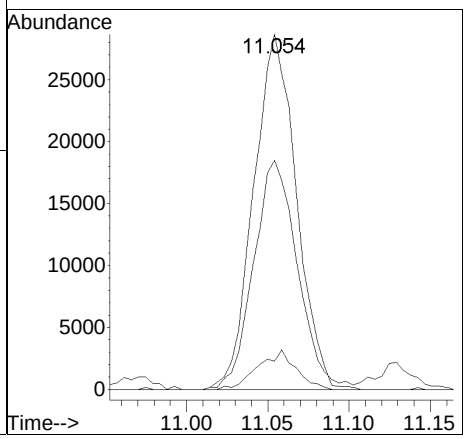


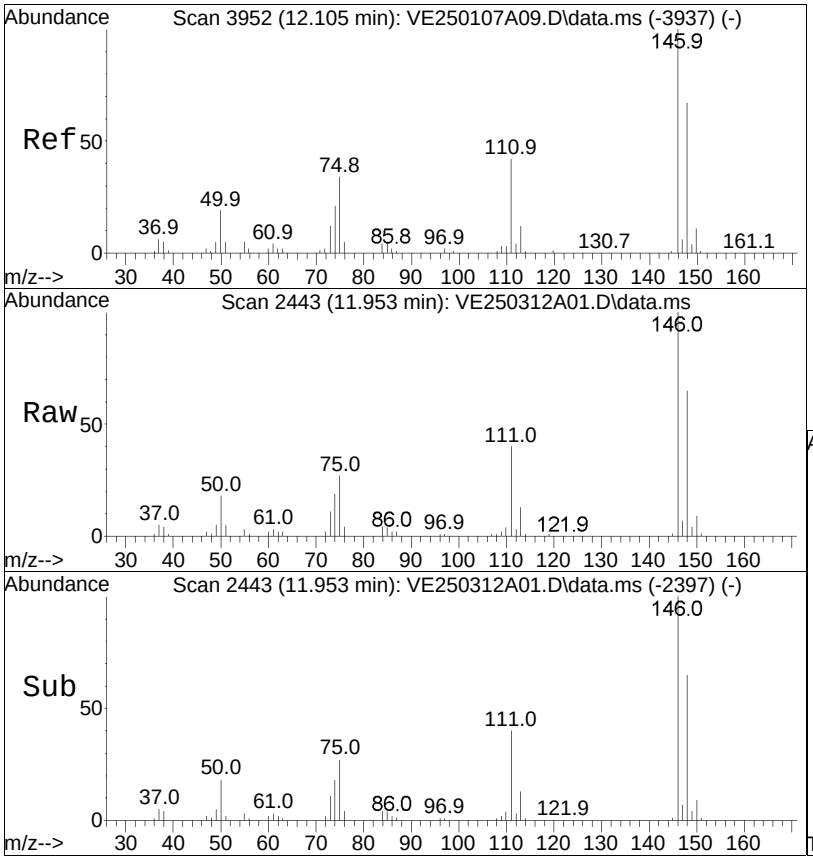


#92
1,1,2,2-Tetrachloroethane
Concen: 9.22 ug/L
RT: 11.054 min Scan# 2239
Delta R.T. -0.008 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion: 83 Resp: 52466

Ion	Ratio	Lower	Upper
83	100		
131	9.8	0.0	30.1
85	67.4	46.3	86.3

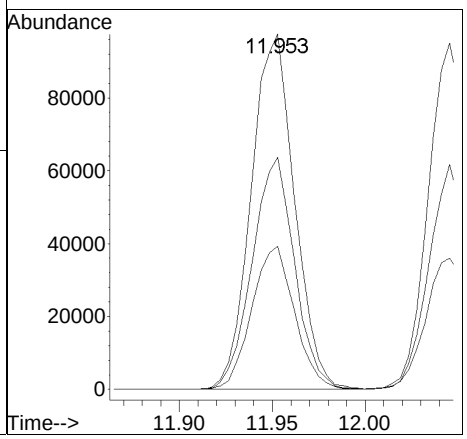


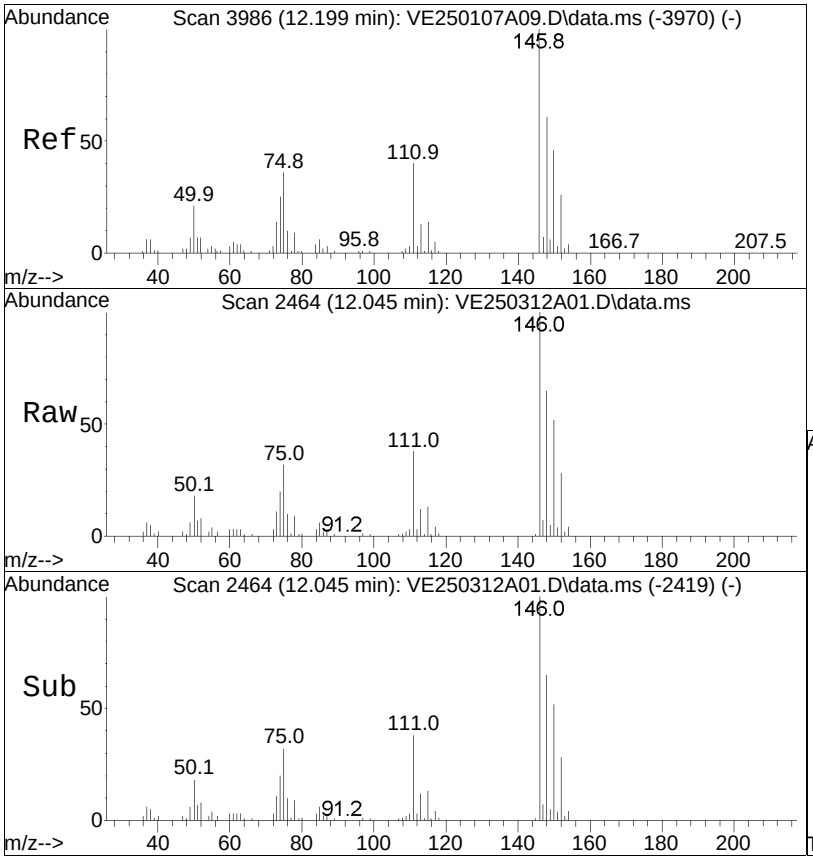


#105
1,3-Dichlorobenzene
Concen: 9.73 ug/L
RT: 11.953 min Scan# 2443
Delta R.T. 0.002 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion:146 Resp: 158235

Ion	Ratio	Lower	Upper
146	100		
111	39.8	26.0	54.0
148	64.0	42.1	87.3

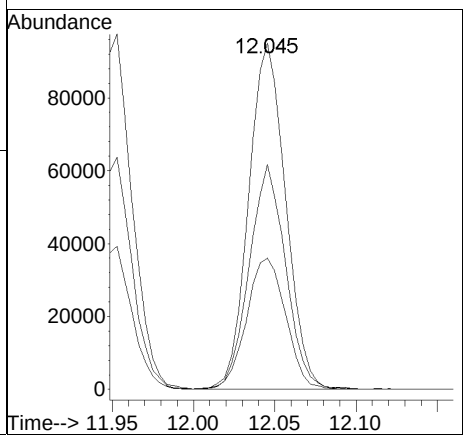


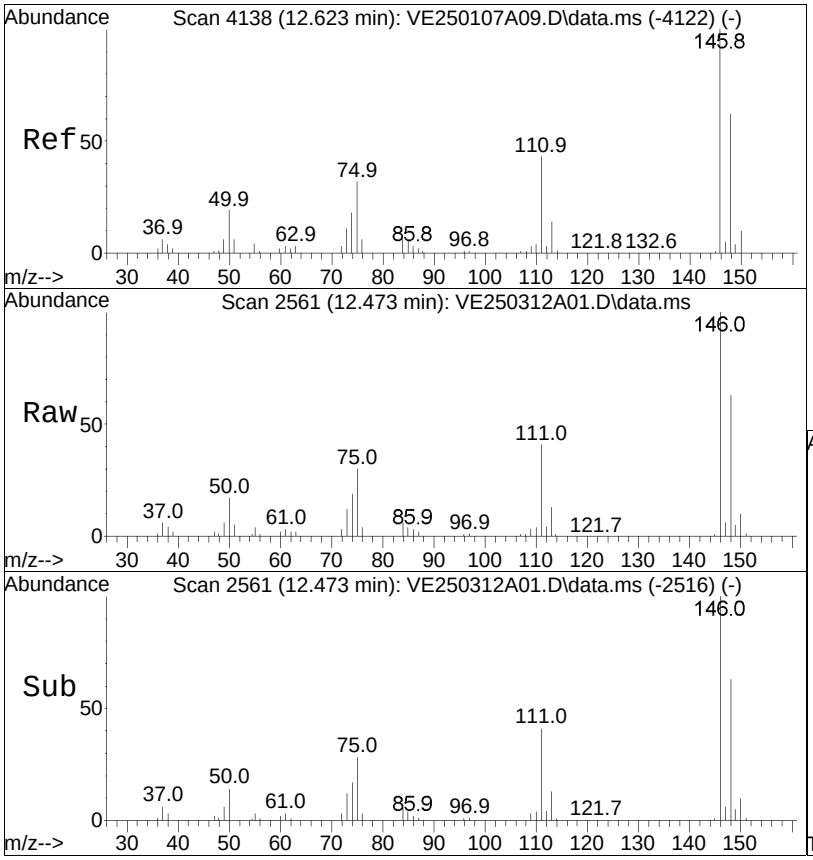


#106
1,4-Dichlorobenzene
Concen: 9.31 ug/L
RT: 12.045 min Scan# 2464
Delta R.T. -0.004 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion:146 Resp: 150551

Ion	Ratio	Lower	Upper
146	100		
111	40.3	31.5	47.3
148	63.8	51.1	76.7

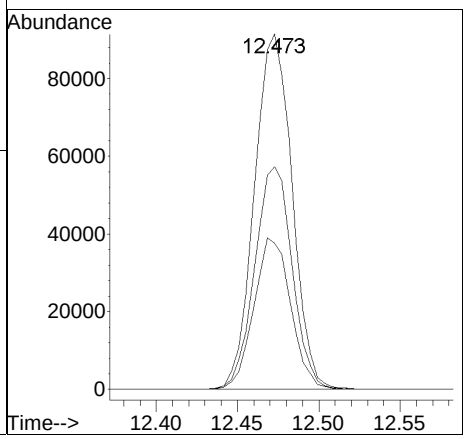


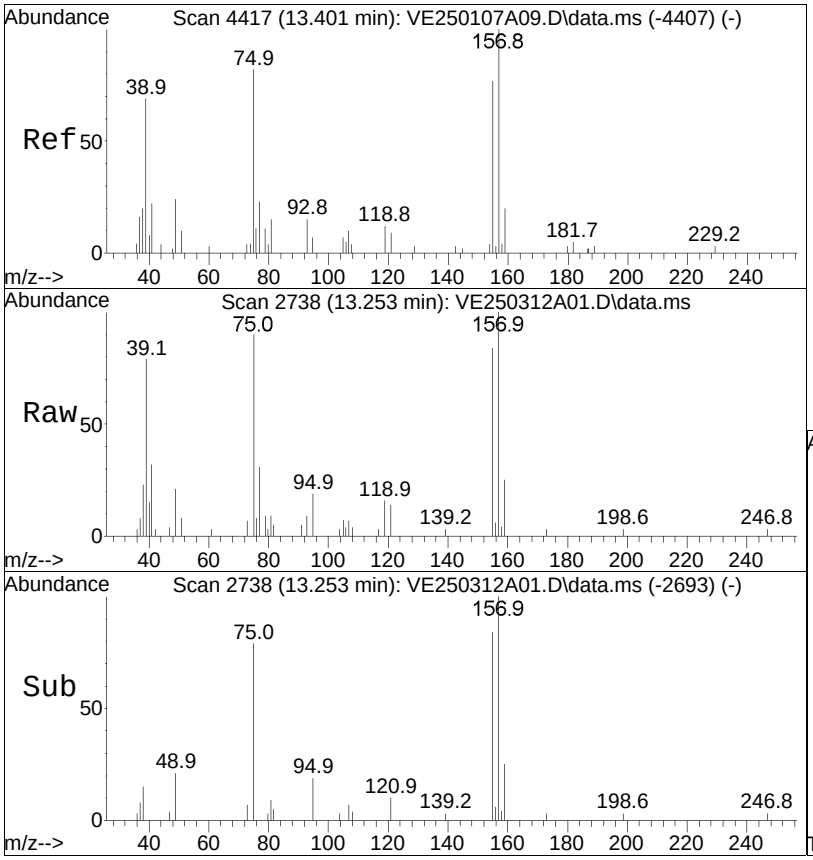


#109
1,2-Dichlorobenzene
Concen: 9.66 ug/L
RT: 12.473 min Scan# 2561
Delta R.T. -0.000 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion:146 Resp: 147537

Ion	Ratio	Lower	Upper
146	100		
111	41.8	26.8	55.6
148	62.5	40.9	84.9

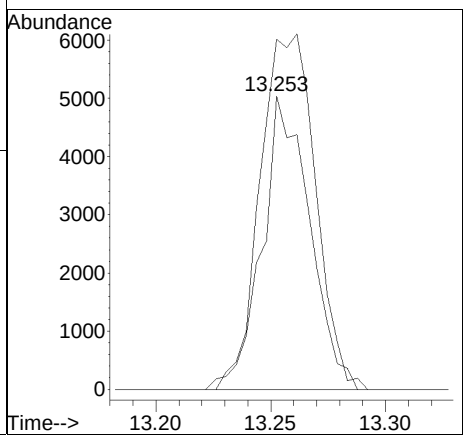


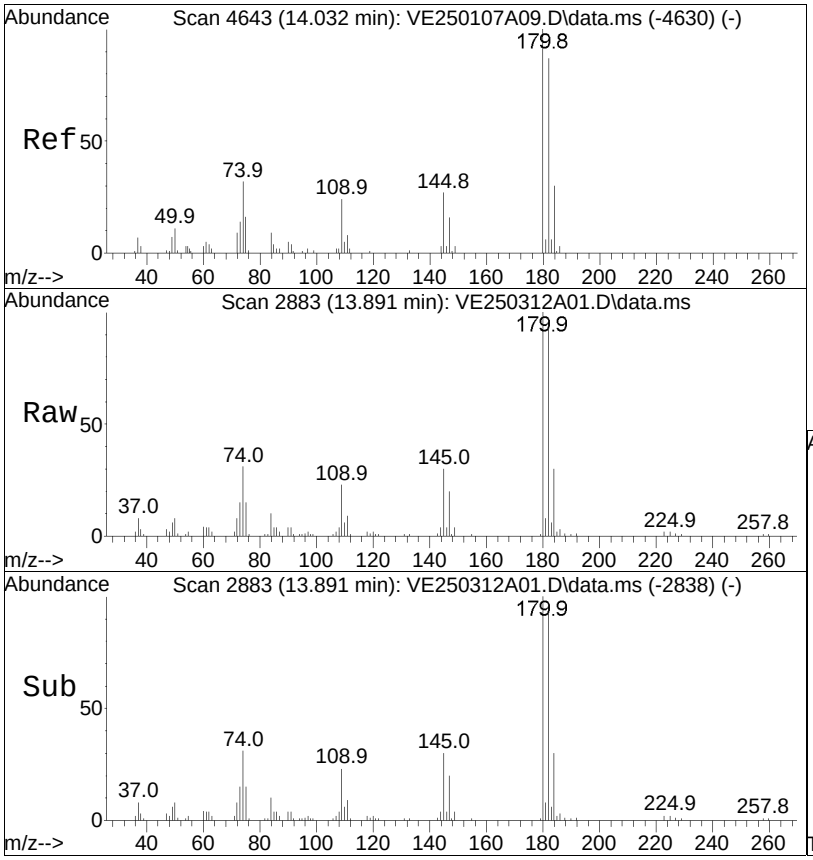


#111
1,2-Dibromo-3-chloropropane
Concen: 8.29 ug/L
RT: 13.253 min Scan# 2738
Delta R.T. -0.003 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion:155 Resp: 7264

Ion	Ratio	Lower	Upper
155	100		
157	140.6	95.8	143.8

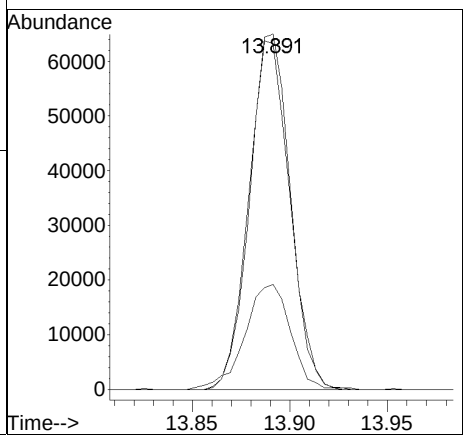


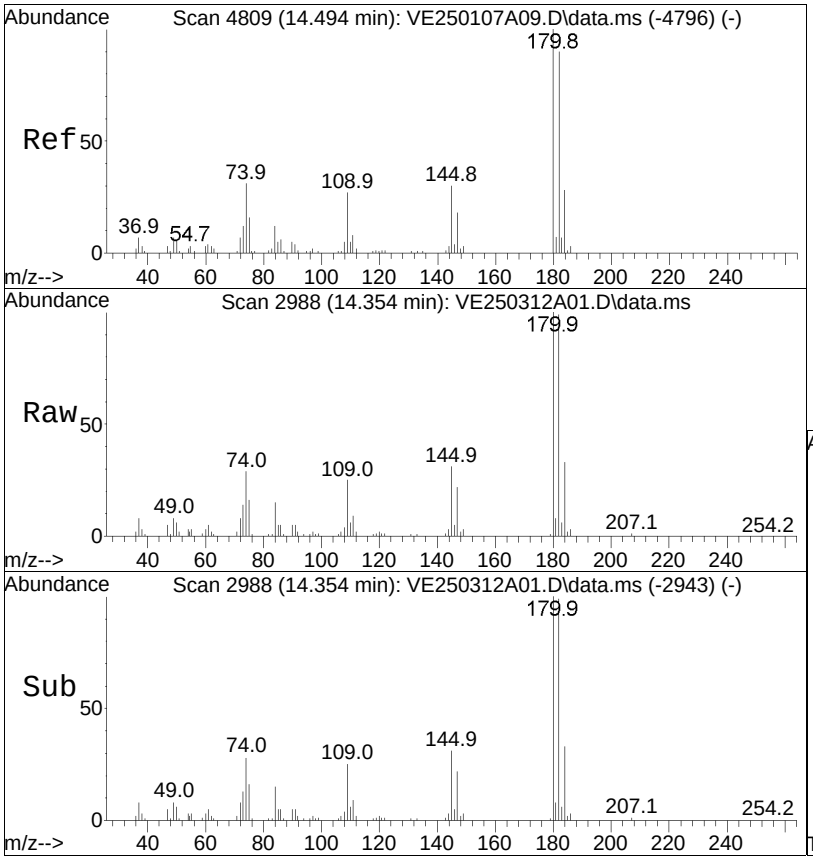


#114
1,2,4-Trichlorobenzene
Concen: 9.87 ug/L
RT: 13.891 min Scan# 2883
Delta R.T. -0.004 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion:180 Resp: 95095

Ion	Ratio	Lower	Upper
180	100		
182	96.7	76.2	114.2
145	32.7	27.8	41.6

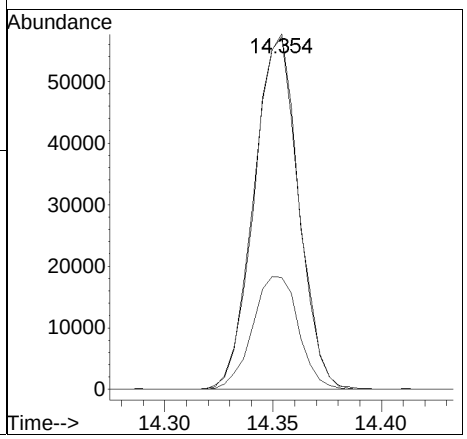




#116
1,2,3-Trichlorobenzene
Concen: 9.36 ug/L
RT: 14.354 min Scan# 2988
Delta R.T. -0.001 min
Lab File: VE250312A01.D
Acq: 12 Mar 2025 9:27 am

Tgt Ion:180 Resp: 82625

Ion	Ratio	Lower	Upper
180	100		
182	98.6	77.0	115.4
145	32.7	25.9	38.9

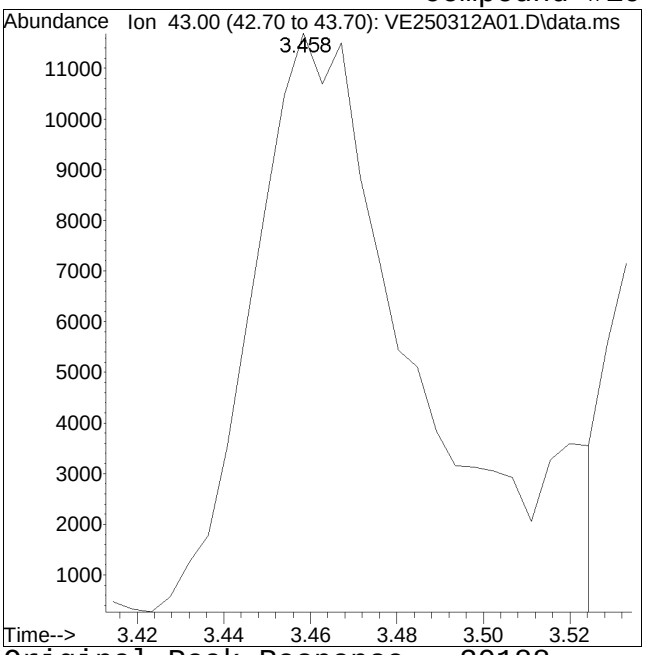


Manual Integration Report

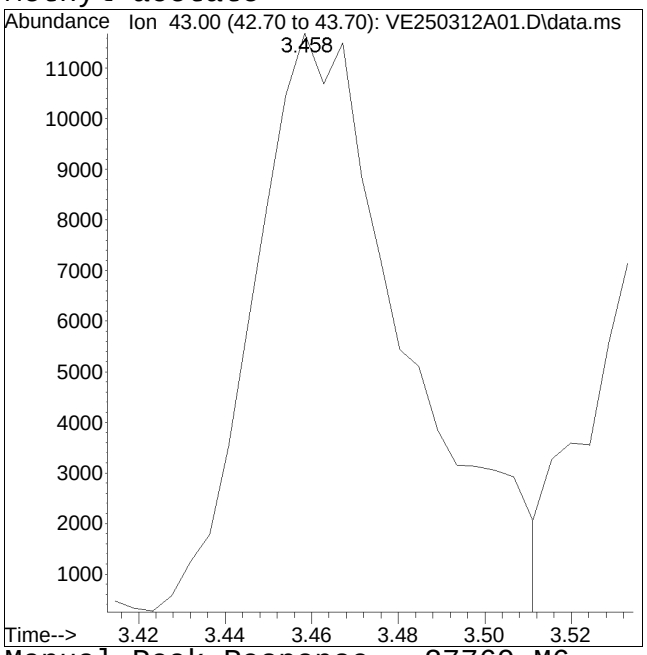
Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A01.D
Date Inj'd : 3/12/2025 9:27 am
Sample : WG2039699-3,31,10,10

QMethod : Elaine_250220N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 3/12/2025 10:29 am

Compound #19: Methyl acetate



Original Peak Response = 30188



Manual Peak Response = 27760 M6

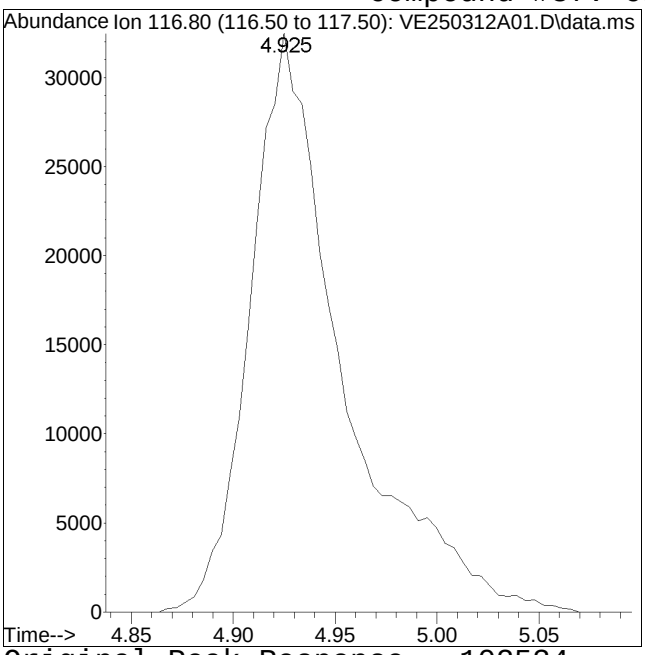
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

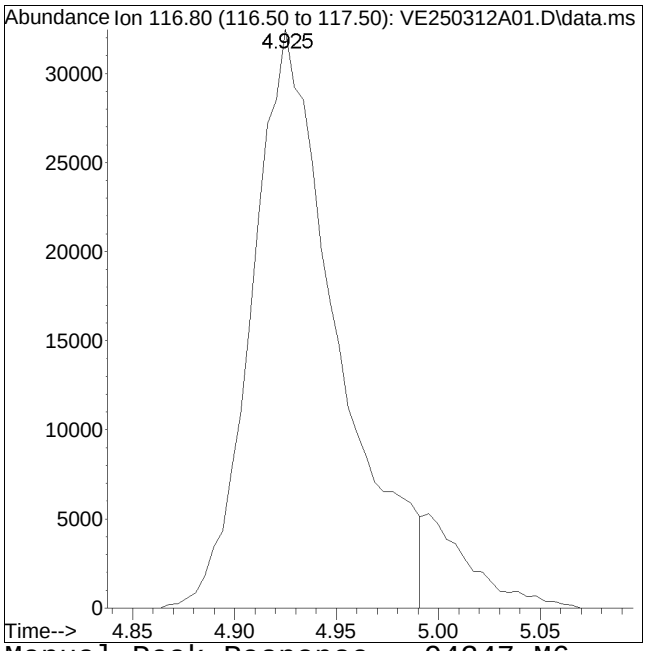
Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A01.D
Date Inj'd : 3/12/2025 9:27 am
Sample : WG2039699-3,31,10,10

QMethod : Elaine_250220N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 3/12/2025 10:29 am

Compound #37: Carbon tetrachloride



Original Peak Response = 102534



Manual Peak Response = 94347 M6

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2025\250313A\
Data File : V01250313A04.D
Acq On : 13 Mar 2025 8:22 am
Operator : VOA101:PID
Sample : WG2040184-3,31,10,10
Misc : WG2040184,ICAL21969
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 13 09:16:03 2025
Quant Method : K:\VOA101\2025\250313A\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 12 10:30:07 2025
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.896	96	602809	10.000	ug/L	0.00
59) Chlorobenzene-d5	9.413	117	429416	10.000	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	12.140	152	232552	10.000	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	5.096	113	155926	10.174	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.74%			
43) 1,2-Dichloroethane-d4	5.614	65	175691	9.995	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.95%			
60) Toluene-d8	7.572	98	588329	10.313	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.13%			
83) 4-Bromofluorobenzene	10.924	95	223122	9.800	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.00%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.621	85	148979	9.289	ug/L	98
3) Chloromethane	1.805	50	271728	9.156	ug/L	100
4) Vinyl chloride	1.875	62	198614	10.631	ug/L	96
5) Bromomethane	2.173	94	42755	11.064	ug/L	98
6) Chloroethane	2.288	64	109021	12.244	ug/L	97
7) Trichlorofluoromethane	2.421	101	198595	10.196	ug/L	99
10) 1,1-Dichloroethene	2.890	96	133154	10.151	ug/L	99
11) Carbon disulfide	2.923	76	449032	10.335	ug/L	99
12) Freon-113	2.923	101	133359	9.981	ug/L	85
15) Methylene chloride	3.434	84	153332	9.796	ug/L	97
17) Acetone	3.481	43	27348	8.911	ug/L	95
18) trans-1,2-Dichloroethene	3.582	96	147824	10.092	ug/L	98
19) Methyl acetate	3.593	43	77562	10.237	ug/L	99
20) Methyl tert-butyl ether	3.676	73	298547	9.736	ug/L	98
23) 1,1-Dichloroethane	4.150	63	330447	10.491	ug/L	99
28) cis-1,2-Dichloroethene	4.661	96	161155	10.048	ug/L	99
30) Bromochloromethane	4.853	128	67437	10.666	ug/L	98
31) Cyclohexane	4.853	56	331859	10.017	ug/L	99
32) Chloroform	4.926	83	272211	10.450	ug/L	99
34) Carbon tetrachloride	5.054	117	178904	9.417	ug/L	98
37) 1,1,1-Trichloroethane	5.118	97	223866	10.021	ug/L #	97
39) 2-Butanone	5.221	43	46593	10.764	ug/L #	66
41) Benzene	5.481	78	605812	10.620	ug/L	99
44) 1,2-Dichloroethane	5.684	62	188668	10.031	ug/L	98

Data Path : K:\VOA101\2025\250313A\
Data File : V01250313A04.D
Acq On : 13 Mar 2025 8:22 am
Operator : VOA101:PID
Sample : WG2040184-3,31,10,10
Misc : WG2040184,ICAL21969
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 13 09:16:03 2025
Quant Method : K:\VOA101\2025\250313A\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 12 10:30:07 2025
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) Methyl cyclohexane	6.061	83	258328	10.090	ug/L	98
48) Trichloroethene	6.075	95	159859	10.145	ug/L	98
51) 1,2-Dichloropropane	6.613	63	177953	10.222	ug/L	98
54) Bromodichloromethane	6.685	83	191496	9.907	ug/L	99
58) cis-1,3-Dichloropropene	7.371	75	194250	9.076	ug/L	98
61) Toluene	7.633	92	370125	10.789	ug/L	100
62) 4-Methyl-2-pentanone	8.066	58	30649	9.236	ug/L	94
63) Tetrachloroethene	8.082	166	148875	10.828	ug/L	99
65) trans-1,3-Dichloropropene	8.116	75	148164	9.274	ug/L	97
68) 1,1,2-Trichloroethane	8.300	83	92094	10.719	ug/L	98
69) Chlorodibromomethane	8.515	129	115188	9.707	ug/L	100
71) 1,2-Dibromoethane	8.785	107	94993	10.191	ug/L	98
72) 2-Hexanone	9.084	43	53115M3	9.177	ug/L	
73) Chlorobenzene	9.432	112	403650	10.601	ug/L	99
74) Ethylbenzene	9.468	91	715715	10.804	ug/L	100
76) p/m Xylene	9.655	106	557088	22.039	ug/L	100
77) o Xylene	10.202	106	536119	21.966	ug/L	99
78) Styrene	10.269	104	835887	22.341	ug/L	98
80) Bromoform	10.297	173	59628	9.213	ug/L	98
82) Isopropylbenzene	10.589	105	683411	10.662	ug/L	100
87) 1,1,2,2-Tetrachloroethane	11.169	83	122488	10.787	ug/L	99
100) 1,3-Dichlorobenzene	12.065	146	284845	10.831	ug/L	100
101) 1,4-Dichlorobenzene	12.157	146	282818	10.489	ug/L	99
104) 1,2-Dichlorobenzene	12.581	146	244288	10.483	ug/L	100
106) 1,2-Dibromo-3-chloropr...	13.370	155	10846	8.107	ug/L	92
109) 1,2,4-Trichlorobenzene	14.003	180	104837	9.506	ug/L	98
111) 1,2,3-Trichlorobenzene	14.460	180	73445	8.712	ug/L	99

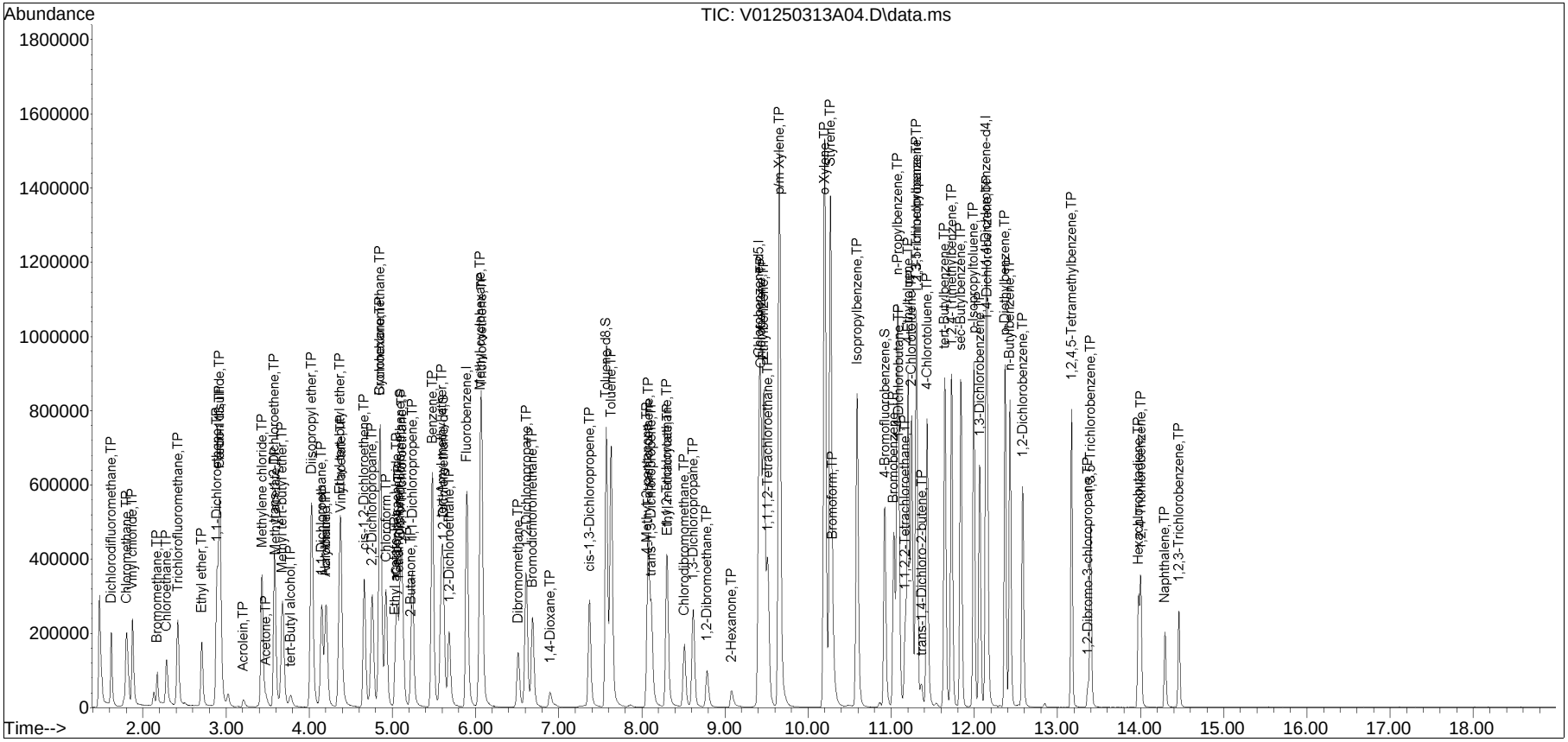
(#) = qualifier out of range (m) = manual integration (+) = signals summed

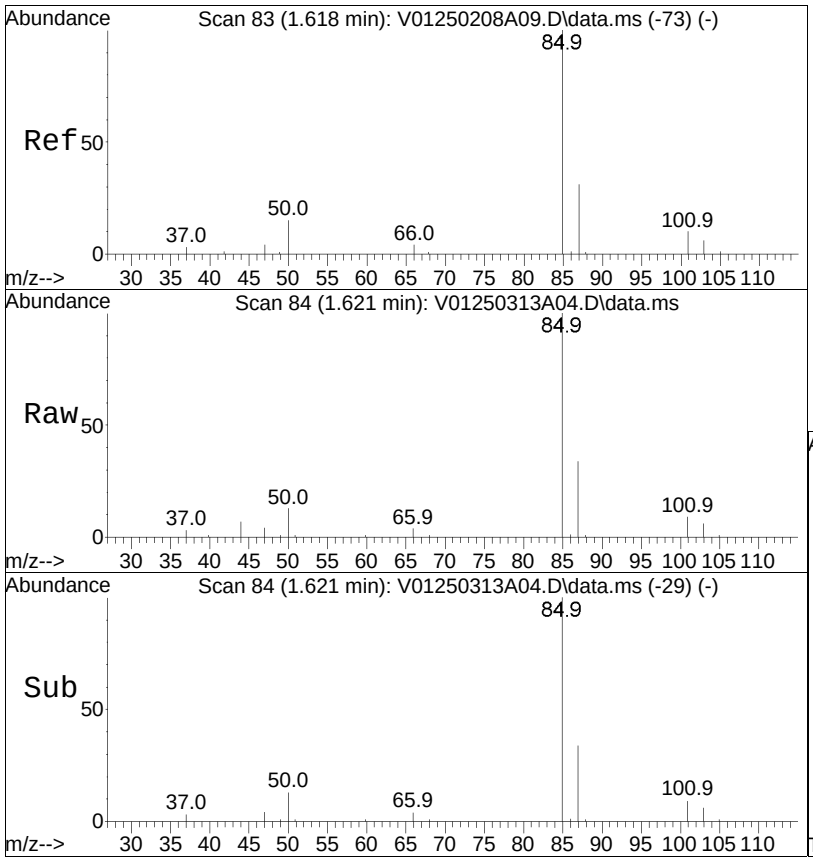
Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2025\250313A\
Data File : V01250313A04.D
Acq On : 13 Mar 2025 8:22 am
Operator : VOA101:PID
Sample : WG2040184-3,31,10,10
Misc : WG2040184,ICAL21969
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 13 09:16:03 2025
Quant Method : K:\VOA101\2025\250313A\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 12 10:30:07 2025
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

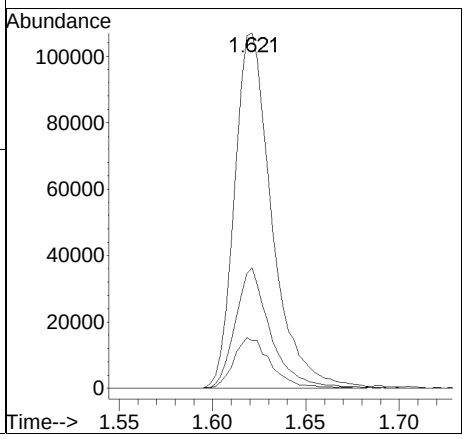


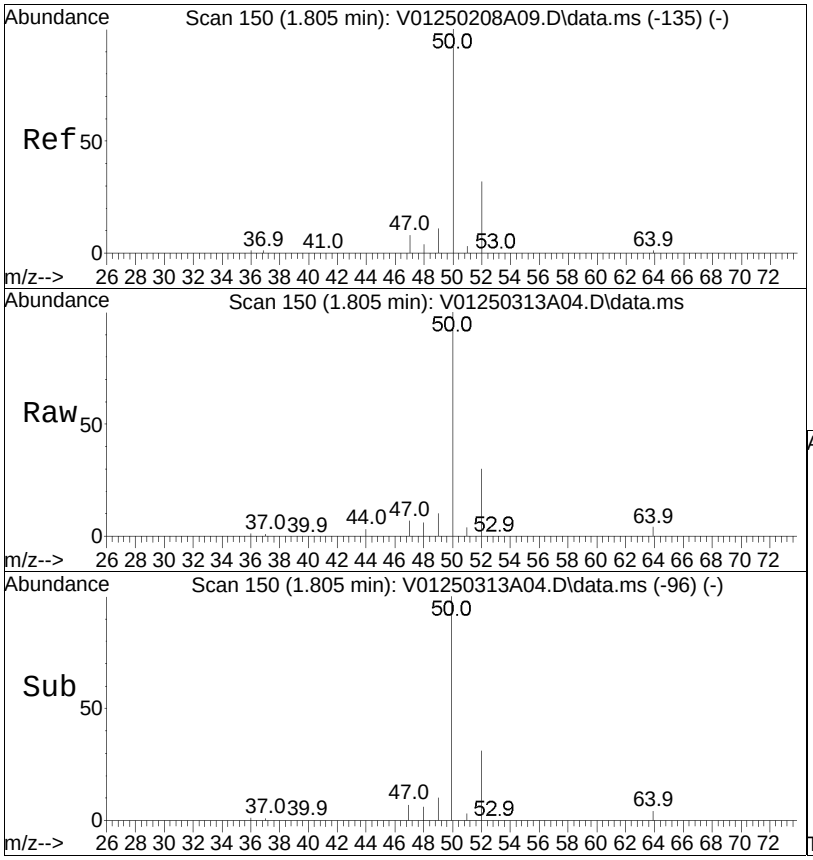


#2
Dichlorodifluoromethane
Concen: 9.29 ug/L
RT: 1.621 min Scan# 84
Delta R.T. 0.003 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion: 85 Resp: 148979

Ion	Ratio	Lower	Upper
85	100		
87	32.3	20.2	42.0
50	14.3	9.4	19.4

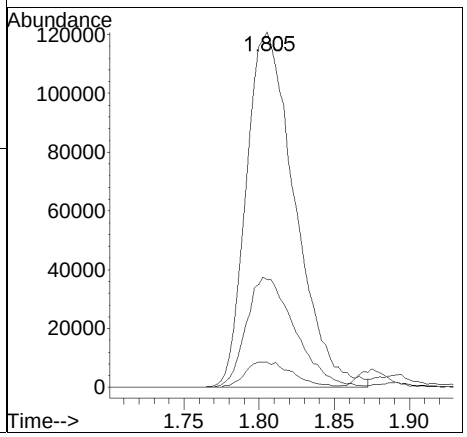


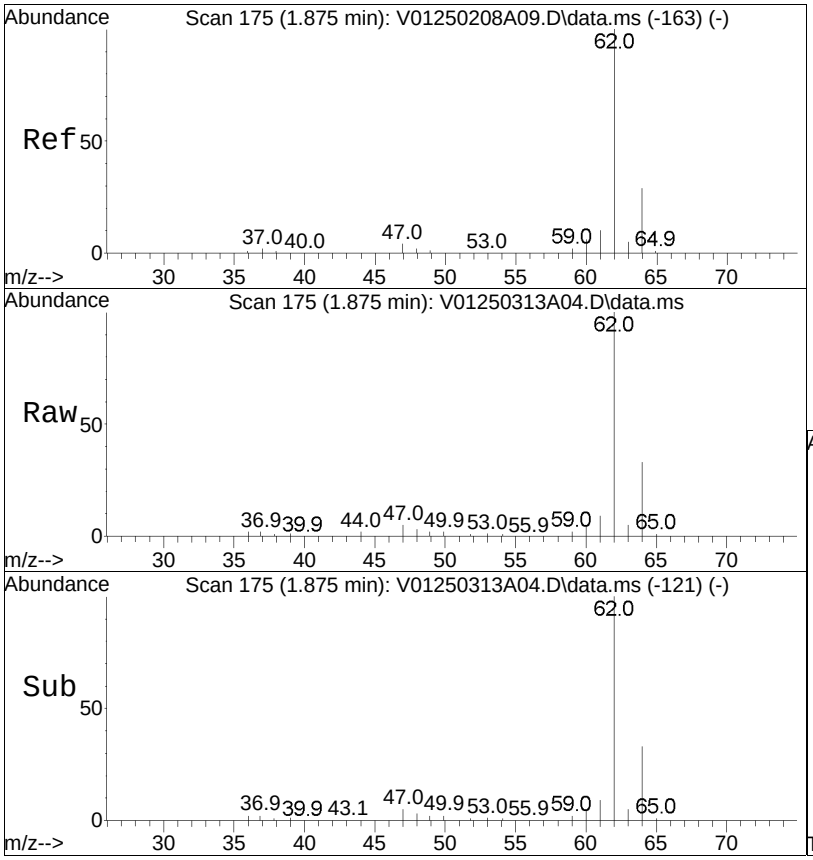


#3
Chloromethane
Concen: 9.16 ug/L
RT: 1.805 min Scan# 150
Delta R.T. 0.000 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion: 50 Resp: 271728

Ion	Ratio	Lower	Upper
50	100		
52	31.1	11.0	51.0
47	7.0	0.0	27.1

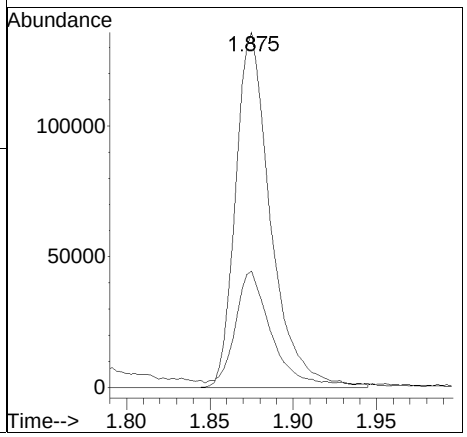


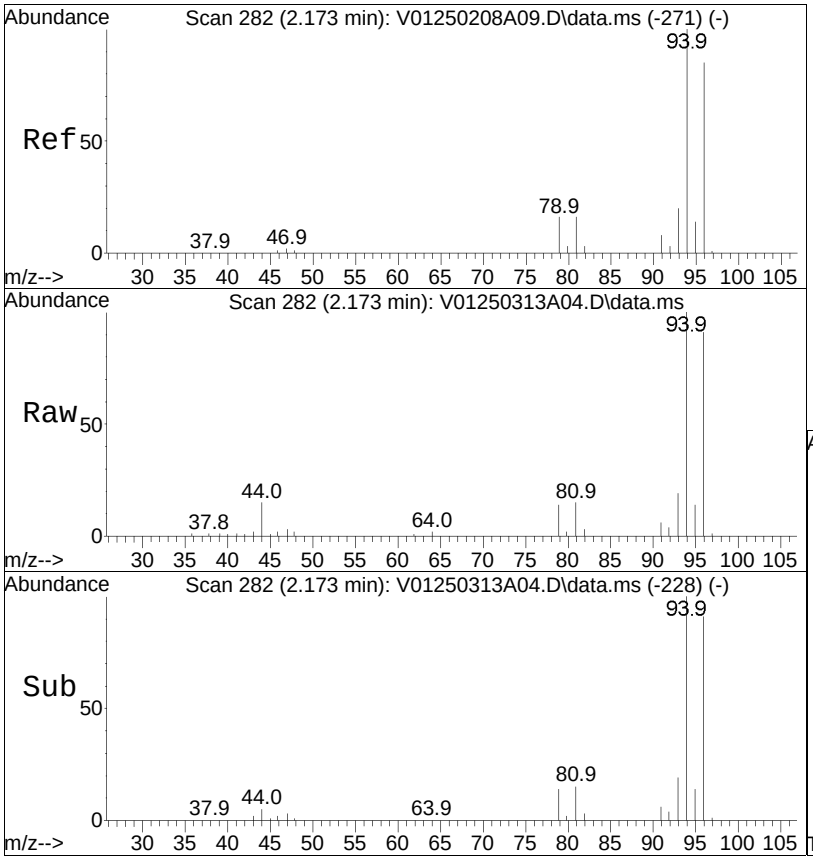


#4
Vinyl chloride
Concen: 10.63 ug/L
RT: 1.875 min Scan# 175
Delta R.T. -0.000 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion: 62 Resp: 198614

Ion	Ratio	Lower	Upper
62	100		
64	31.8	9.6	49.6

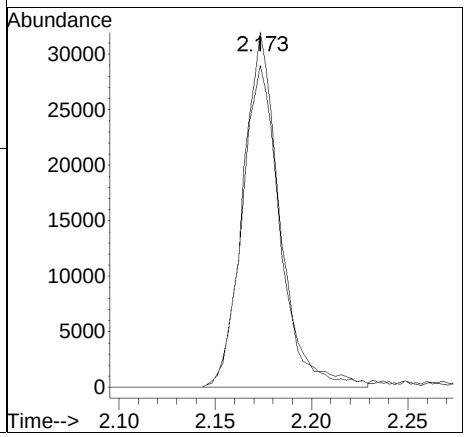


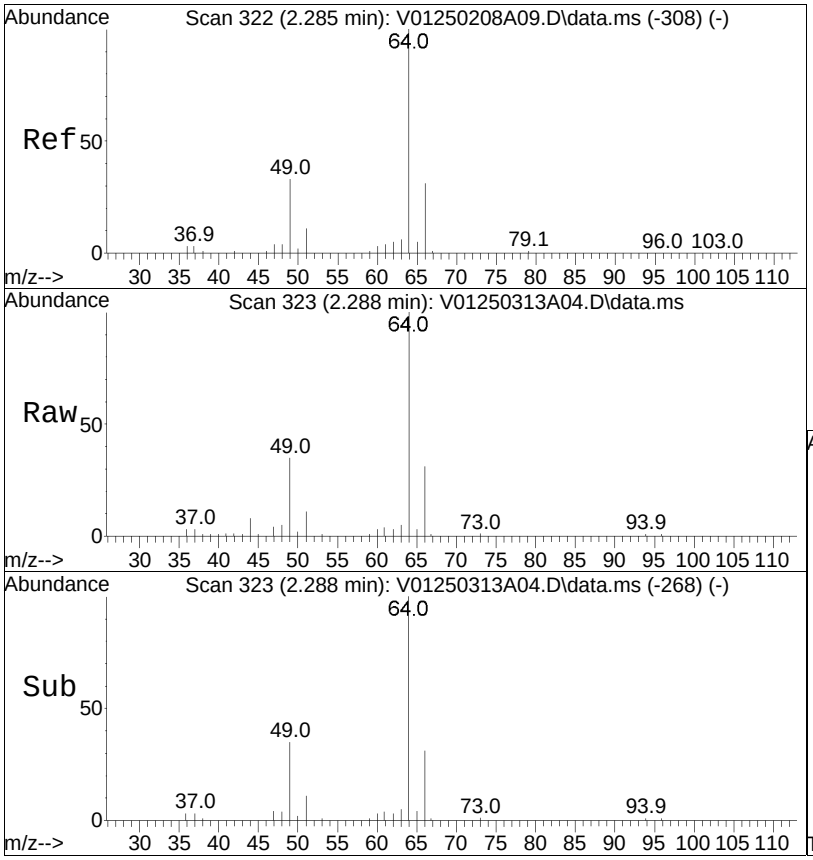


#5
Bromomethane
Concen: 11.06 ug/L
RT: 2.173 min Scan# 282
Delta R.T. 0.000 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion: 94 Resp: 42755

Ion	Ratio	Lower	Upper
94	100		
96	93.5	75.4	115.4

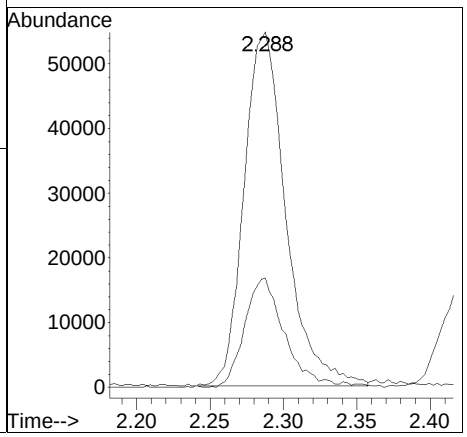


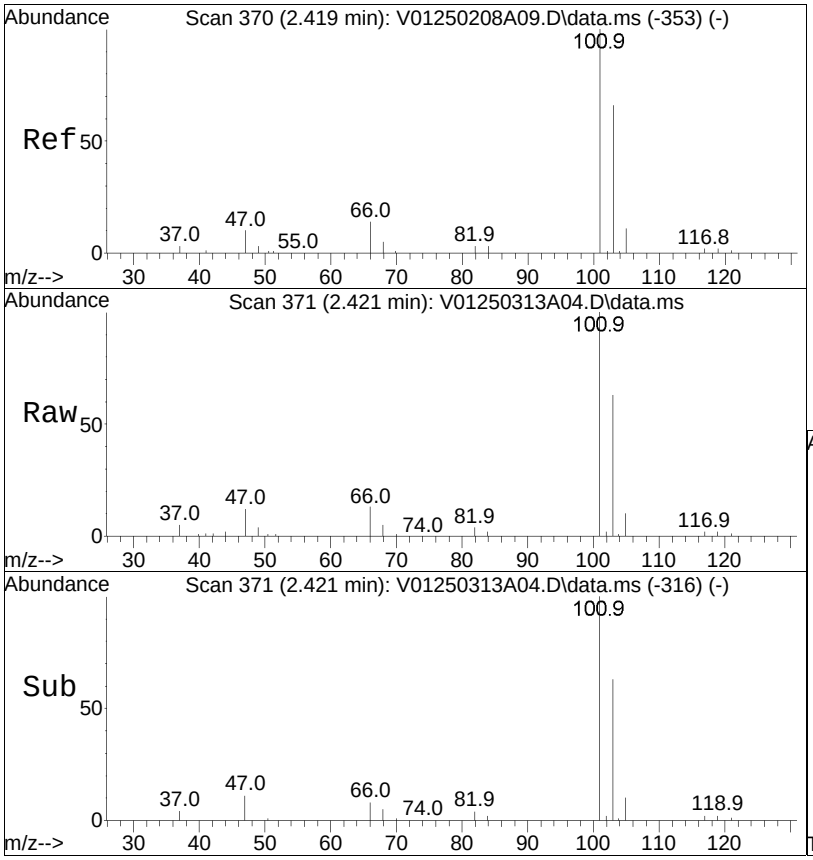


#6
Chloroethane
Concen: 12.24 ug/L
RT: 2.288 min Scan# 323
Delta R.T. 0.003 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion: 64 Resp: 109021

Ion	Ratio	Lower	Upper
64	100		
66	29.2	10.9	50.9

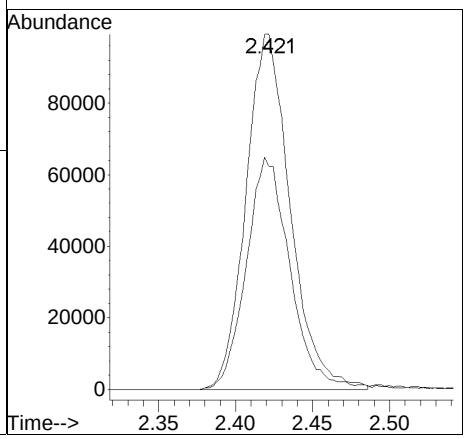


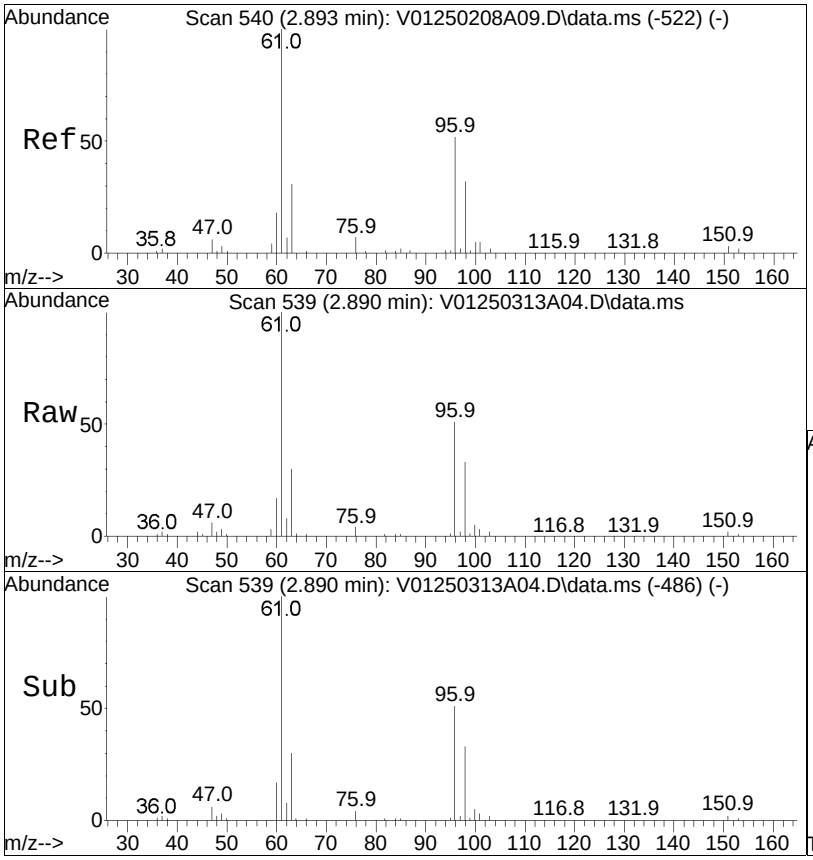


#7
Trichlorofluoromethane
Concen: 10.20 ug/L
RT: 2.421 min Scan# 371
Delta R.T. 0.002 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion:101 Resp: 198595

Ion	Ratio	Lower	Upper
101	100		
103	64.1	52.0	78.0

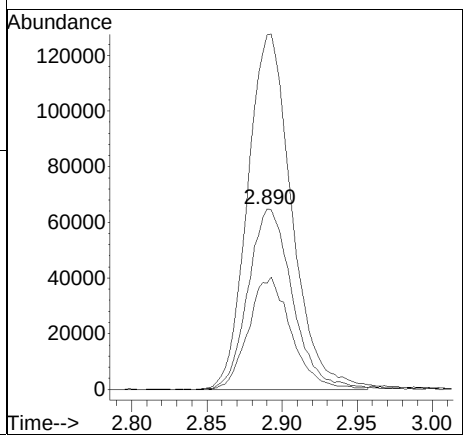


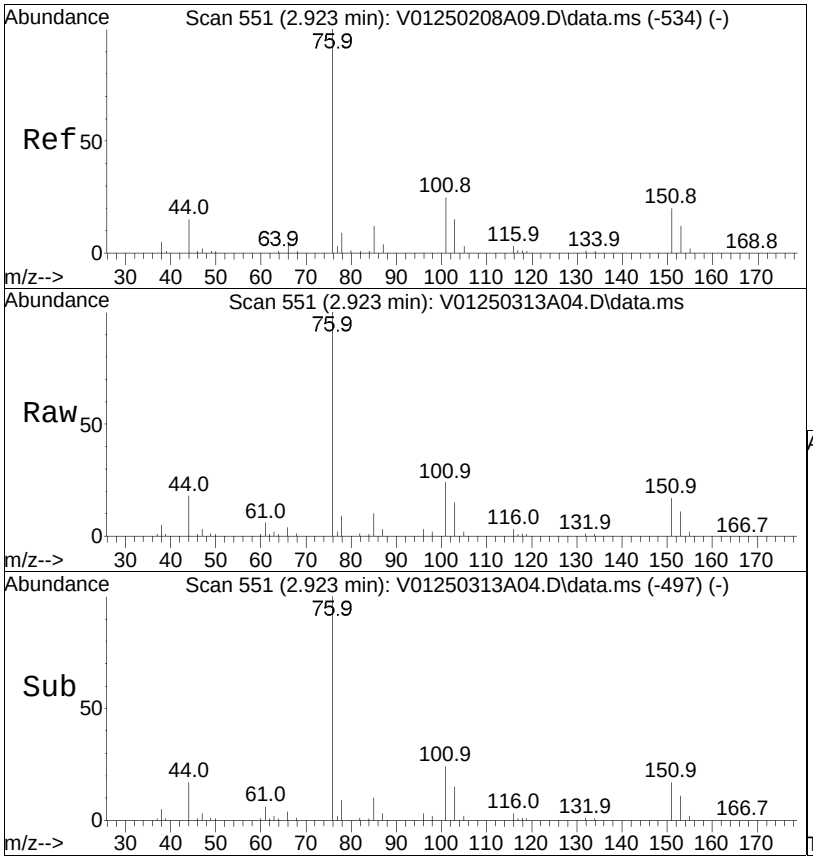


#10
1,1-Dichloroethene
Concen: 10.15 ug/L
RT: 2.890 min Scan# 539
Delta R.T. -0.003 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion: 96 Resp: 133154

Ion	Ratio	Lower	Upper
96	100		
61	197.3	156.6	235.0
63	60.0	49.7	74.5

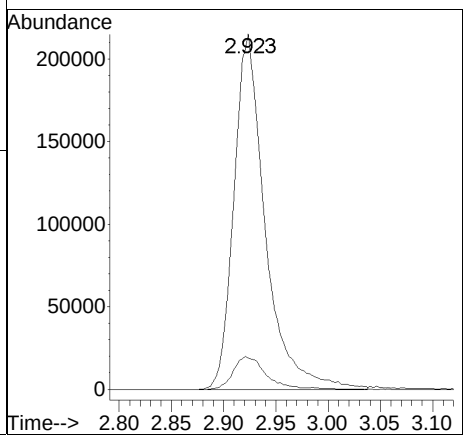


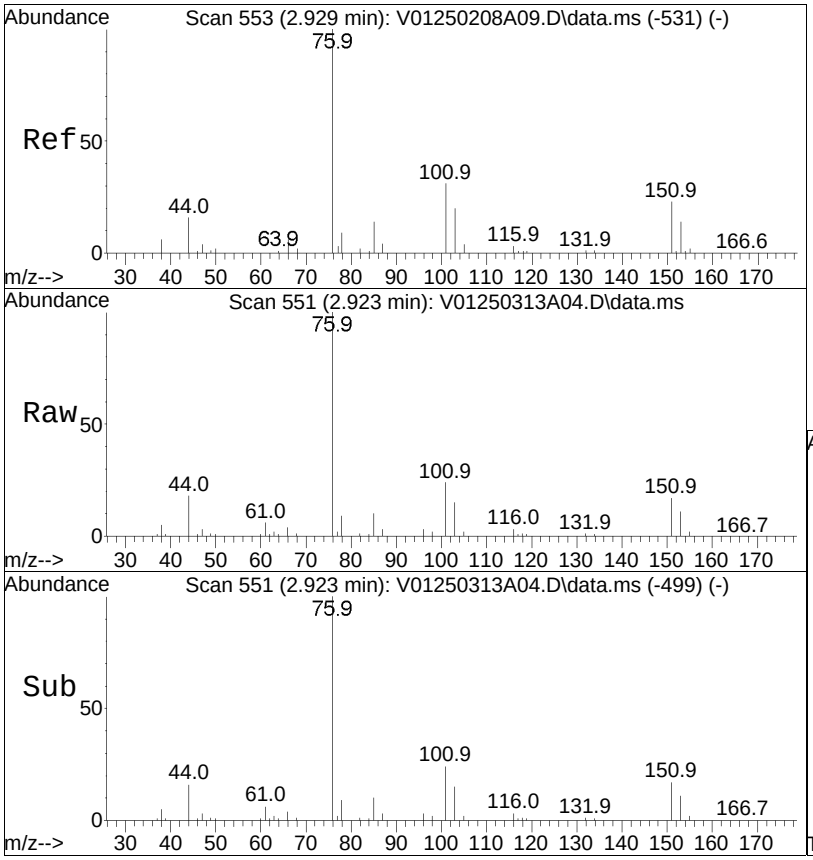


#11
Carbon disulfide
Concen: 10.34 ug/L
RT: 2.923 min Scan# 551
Delta R.T. 0.000 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion: 76 Resp: 449032

Ion	Ratio	Lower	Upper
76	100		
78	9.5	6.3	13.1

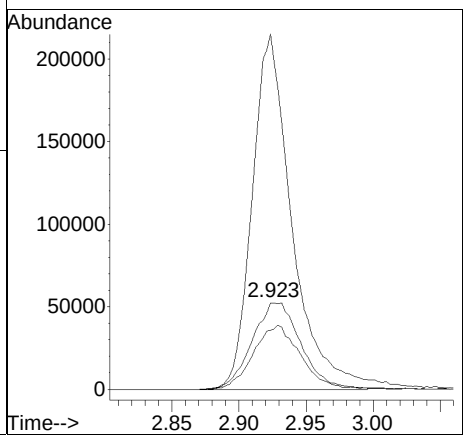


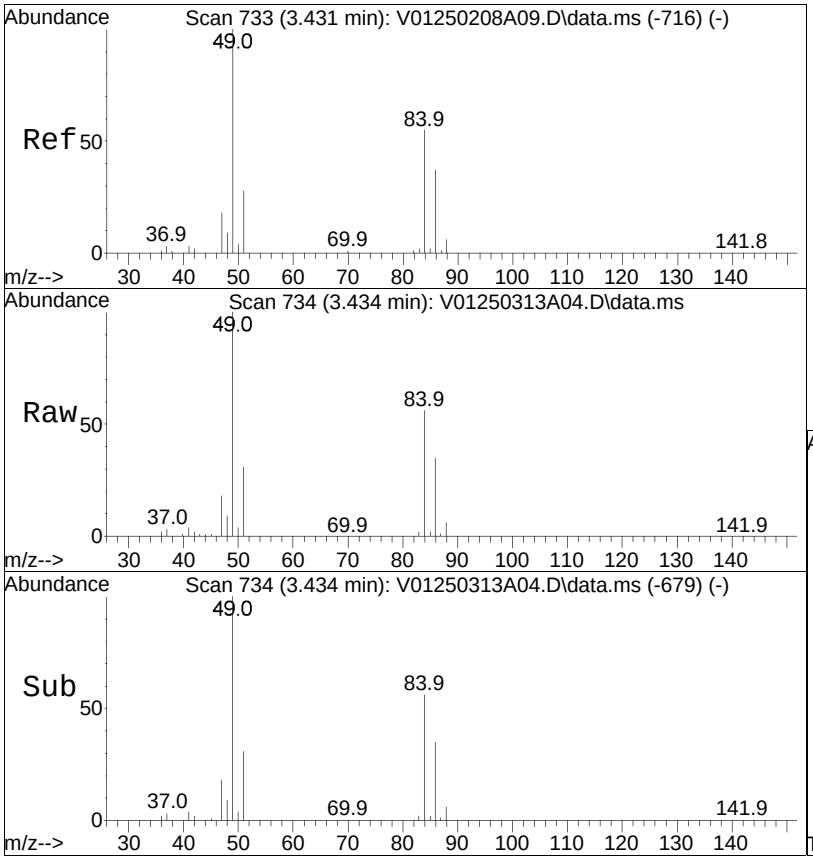


#12
Freon-113
Concen: 9.98 ug/L
RT: 2.923 min Scan# 551
Delta R.T. -0.006 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion:101 Resp: 133359

Ion	Ratio	Lower	Upper
101	100		
151	71.2	59.5	89.3
76	336.7	242.0	363.0

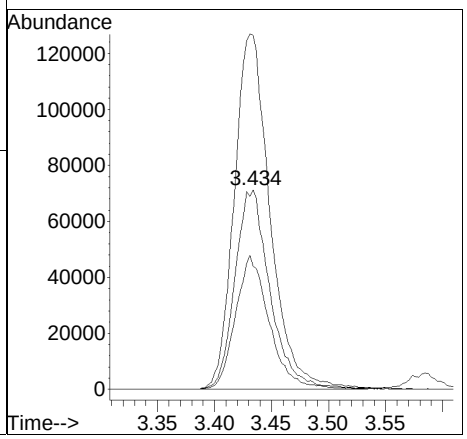


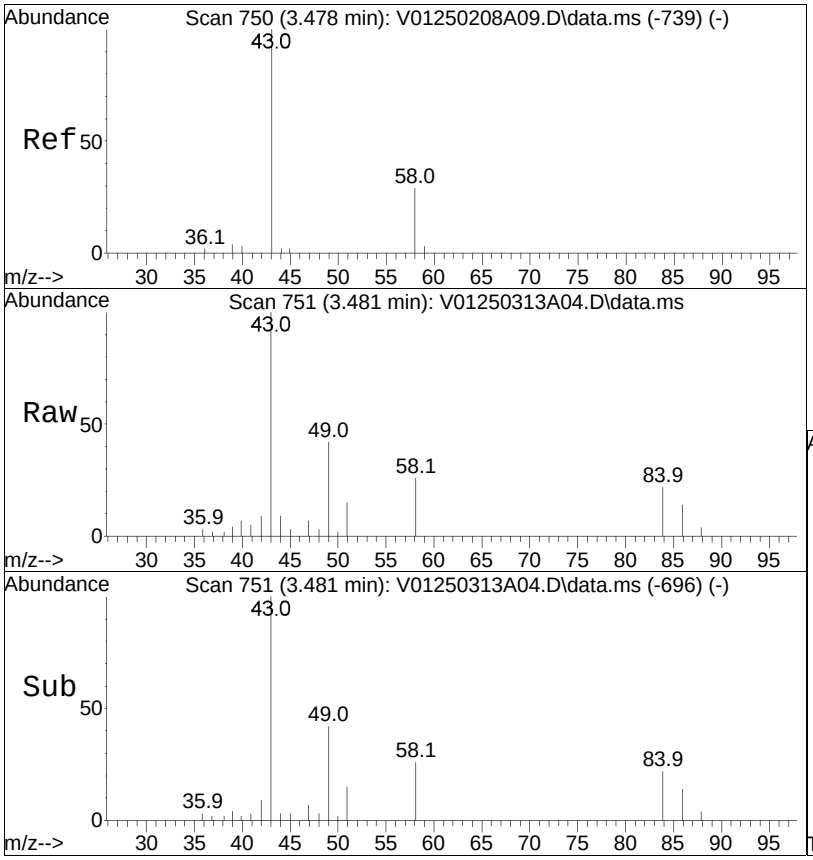


#15
Methylene chloride
Concen: 9.80 ug/L
RT: 3.434 min Scan# 734
Delta R.T. 0.003 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion: 84 Resp: 153332

Ion	Ratio	Lower	Upper
84	100		
86	64.6	41.7	86.5
49	181.0	114.6	238.0

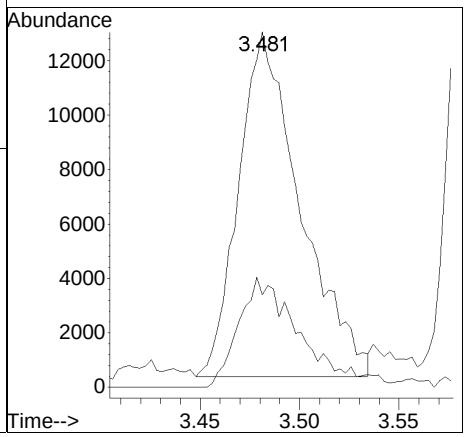


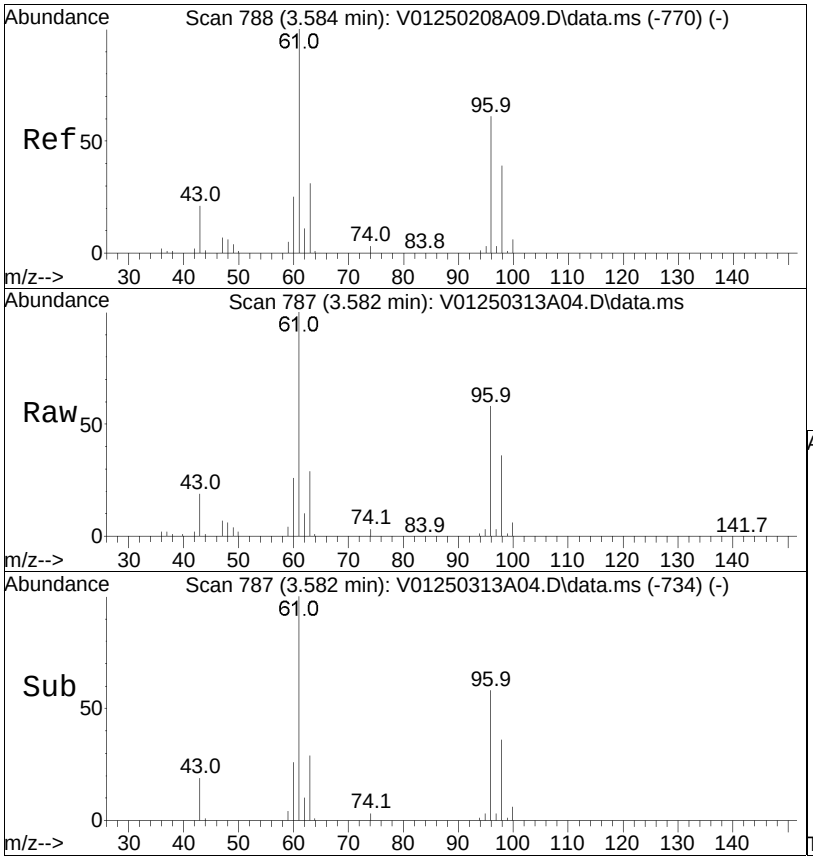


#17
Acetone
Concen: 8.91 ug/L
RT: 3.481 min Scan# 751
Delta R.T. 0.003 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion: 43 Resp: 27348

Ion	Ratio	Lower	Upper
43	100		
58	30.7	22.6	33.8

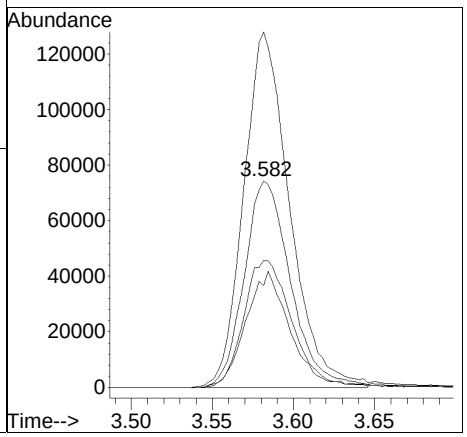


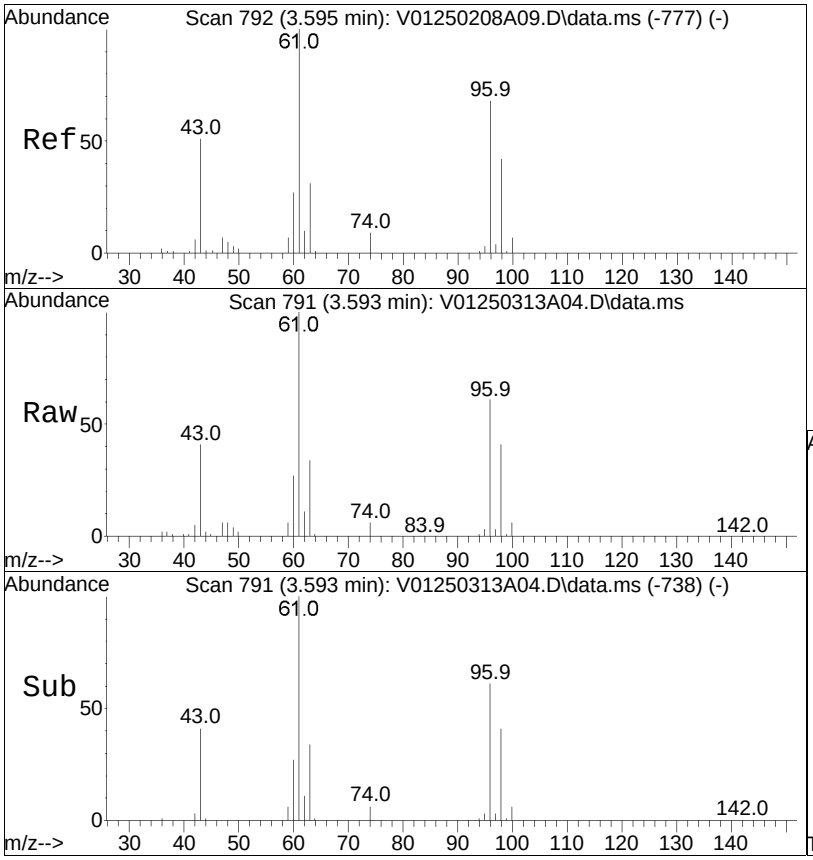


#18
trans-1,2-Dichloroethene
Concen: 10.09 ug/L
RT: 3.582 min Scan# 787
Delta R.T. -0.002 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion: 96 Resp: 147824

Ion	Ratio	Lower	Upper
96	100		
61	172.6	109.8	228.0
98	64.5	41.5	86.1
63	53.4	33.9	70.3

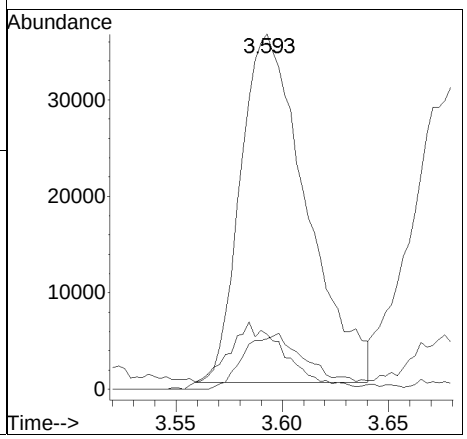


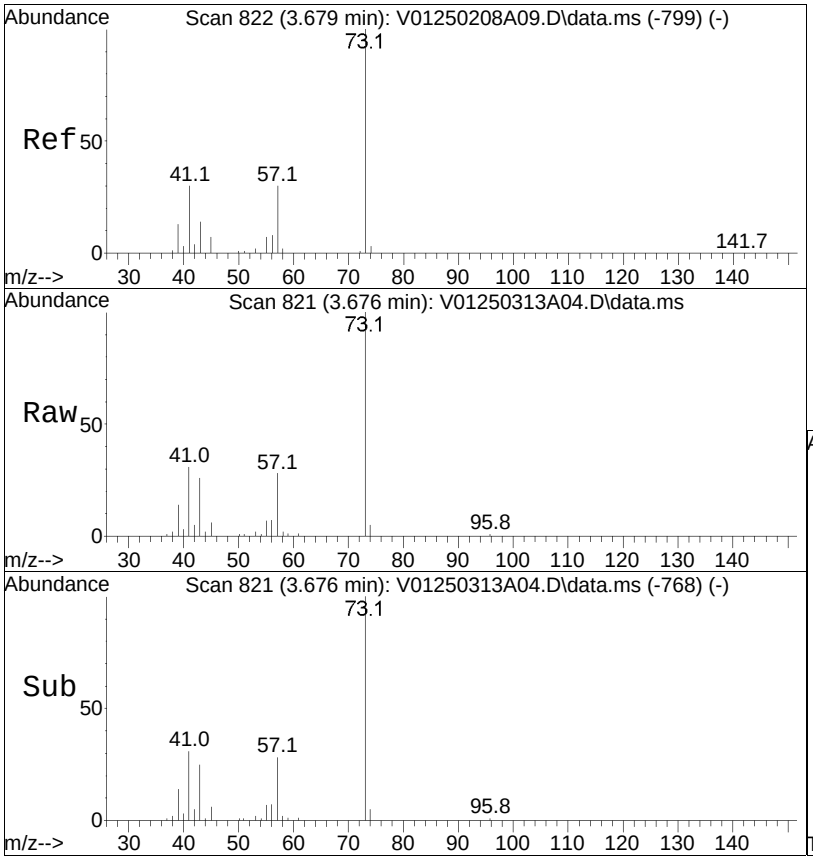


#19
Methyl acetate
Concen: 10.24 ug/L
RT: 3.593 min Scan# 791
Delta R.T. -0.002 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion: 43 Resp: 77562

Ion	Ratio	Lower	Upper
43	100		
74	16.0	13.2	19.8
59	17.3	14.4	21.6

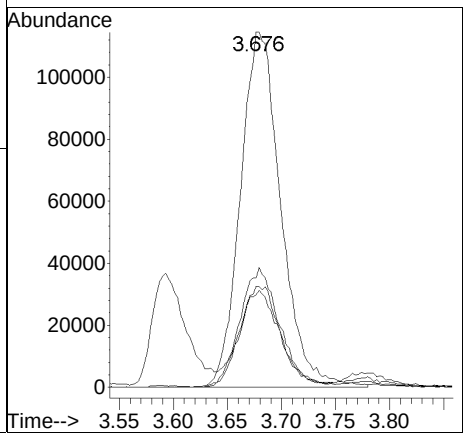


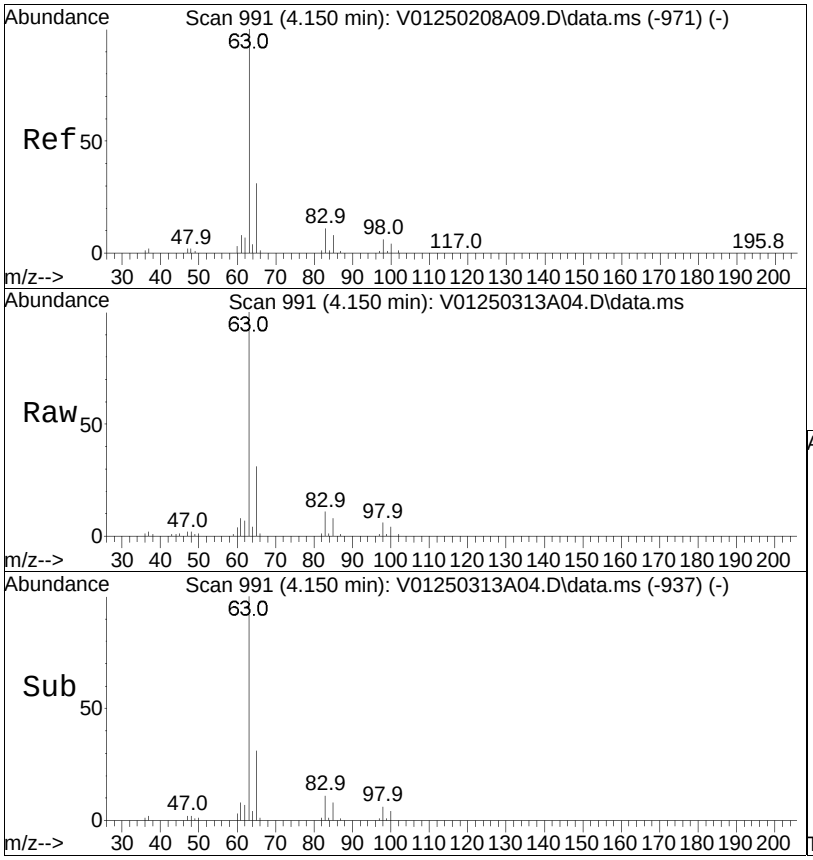


#20
Methyl tert-butyl ether
Concen: 9.74 ug/L
RT: 3.676 min Scan# 821
Delta R.T. -0.003 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion: 73 Resp: 298547

Ion	Ratio	Lower	Upper
73	100		
57	28.9	18.7	38.7
43	26.5	16.1	33.3
41	32.9	21.0	43.6

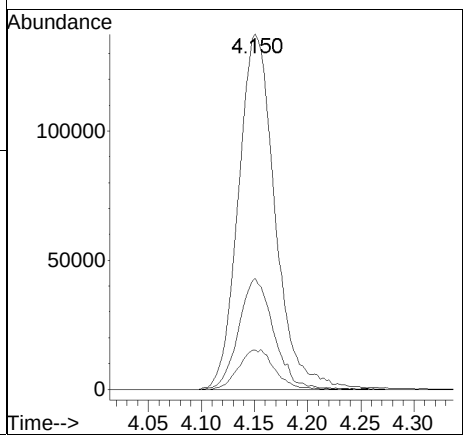


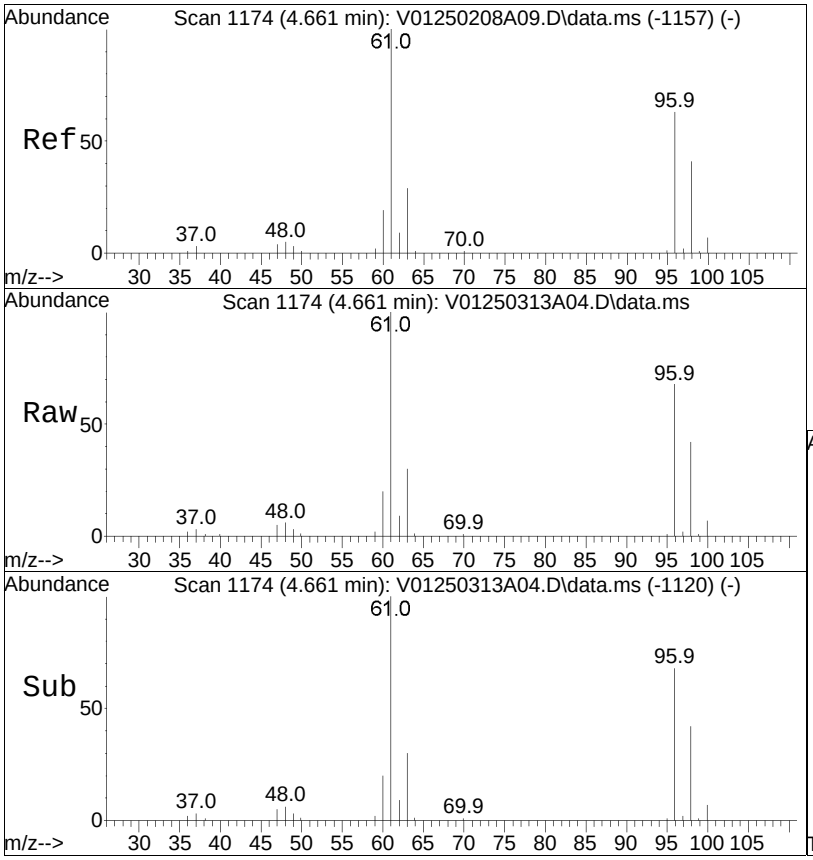


#23
1,1-Dichloroethane
Concen: 10.49 ug/L
RT: 4.150 min Scan# 991
Delta R.T. 0.000 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion: 63 Resp: 330447

Ion	Ratio	Lower	Upper
63	100		
65	29.8	10.3	50.3
83	11.0	0.0	31.1

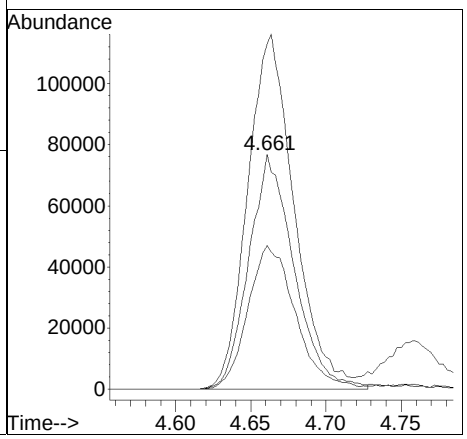


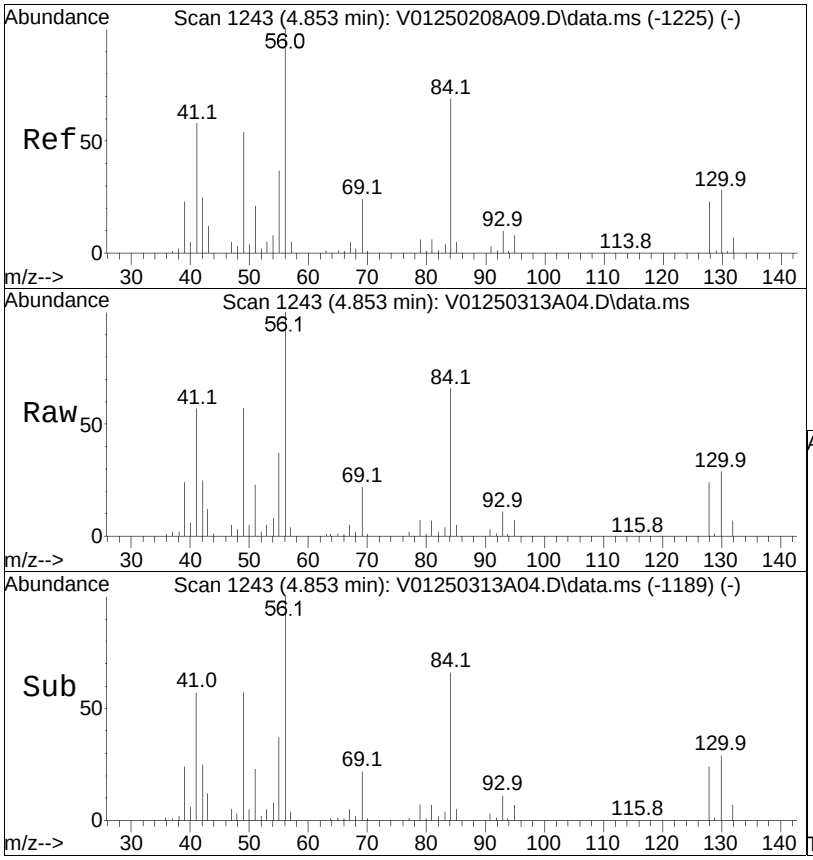


#28
cis-1,2-Dichloroethene
Concen: 10.05 ug/L
RT: 4.661 min Scan# 1174
Delta R.T. -0.000 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion: 96 Resp: 161155

Ion	Ratio	Lower	Upper
96	100		
61	155.4	123.3	184.9
98	64.4	51.0	76.6

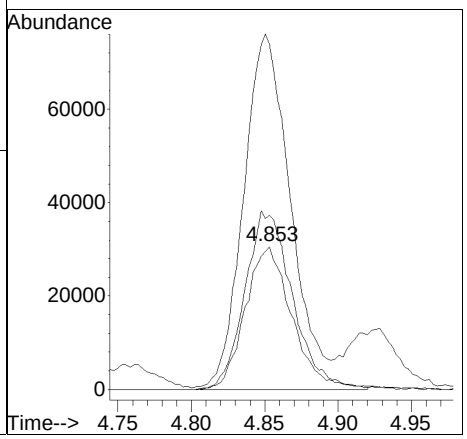


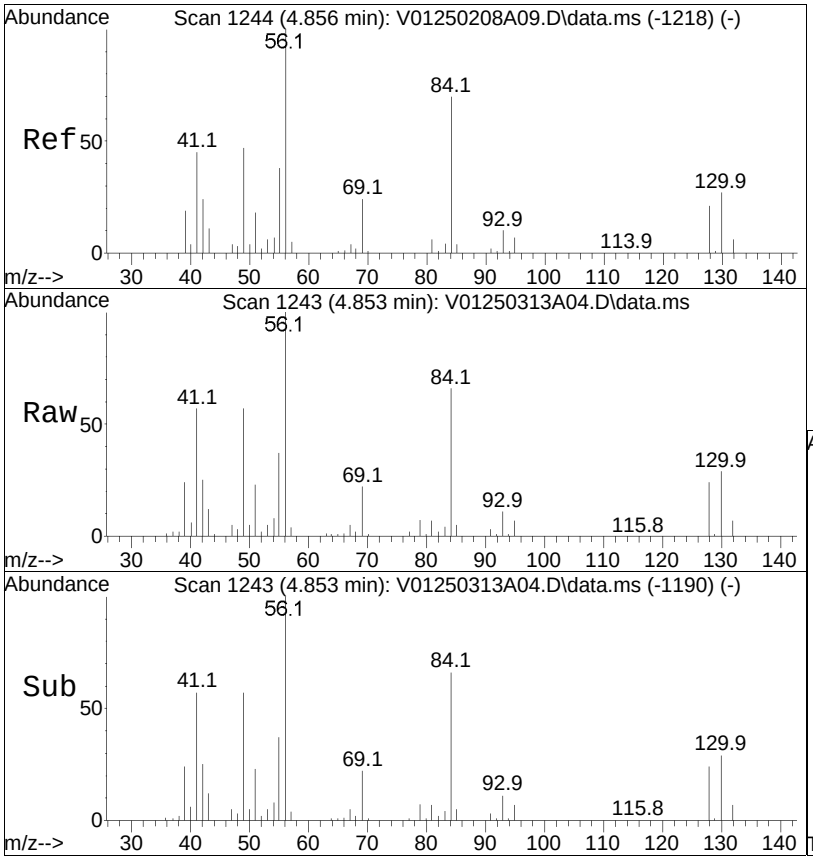


#30
Bromochloromethane
Concen: 10.67 ug/L
RT: 4.853 min Scan# 1243
Delta R.T. 0.000 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion:128 Resp: 67437

Ion	Ratio	Lower	Upper
128	100		
49	247.1	194.0	291.0
130	128.4	104.6	157.0

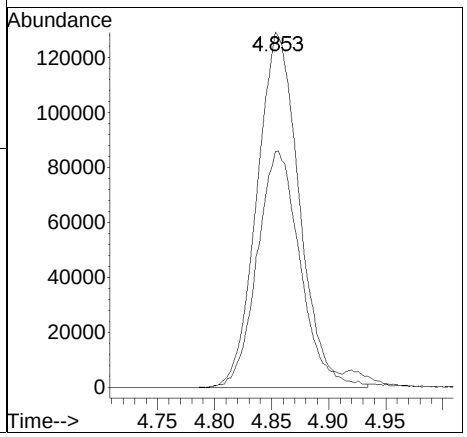


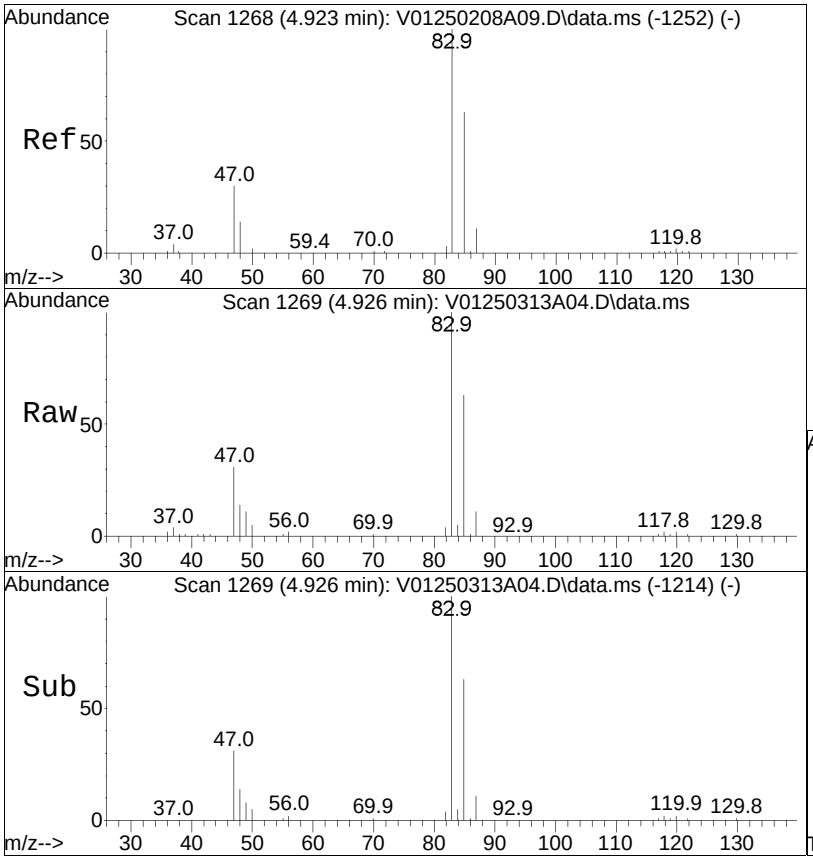


#31
Cyclohexane
Concen: 10.02 ug/L
RT: 4.853 min Scan# 1243
Delta R.T. -0.003 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion: 56 Resp: 331859

Ion	Ratio	Lower	Upper
56	100		
84	67.3	44.3	92.1

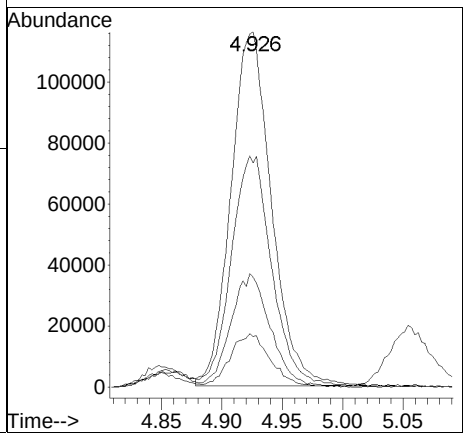


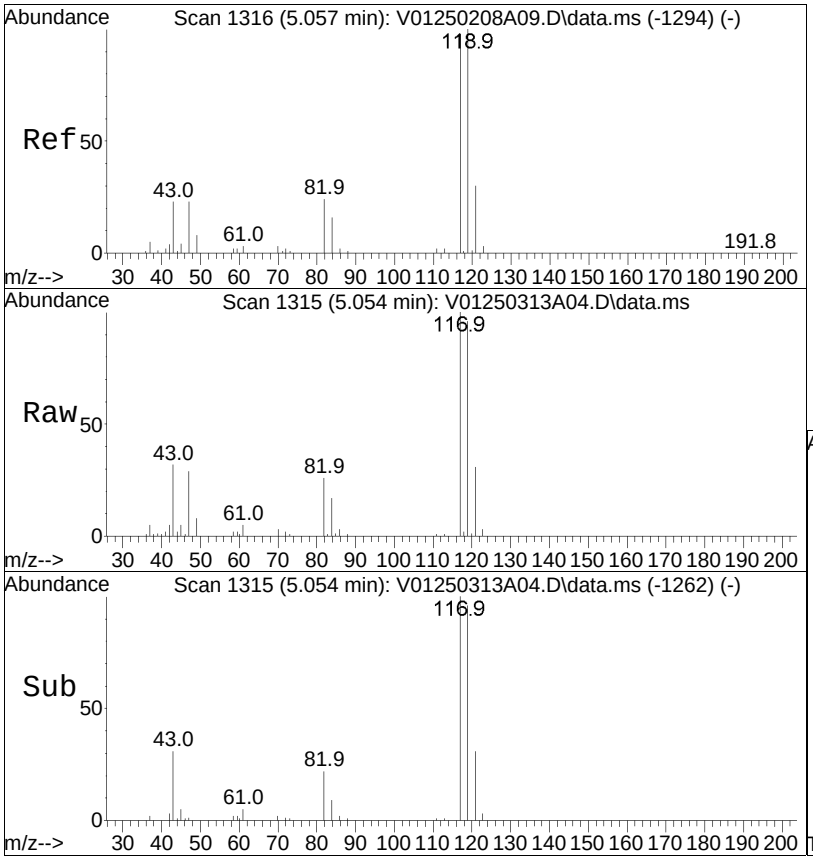


#32
Chloroform
Concen: 10.45 ug/L
RT: 4.926 min Scan# 1269
Delta R.T. 0.003 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion: 83 Resp: 272211

Ion	Ratio	Lower	Upper
83	100		
85	64.9	41.9	87.1
47	30.6	19.2	39.8
48	14.8	9.3	19.3

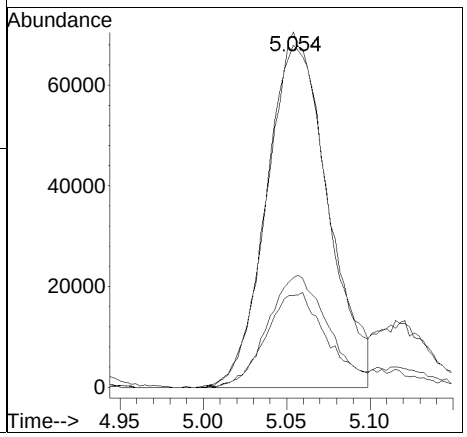


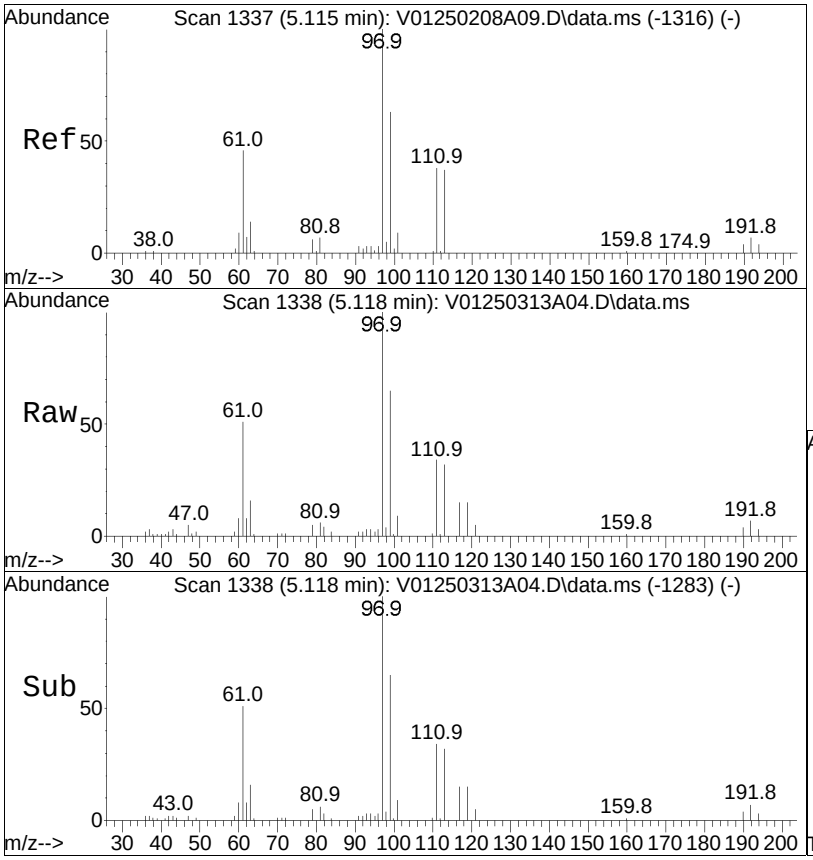


#34
Carbon tetrachloride
Concen: 9.42 ug/L
RT: 5.054 min Scan# 1315
Delta R.T. -0.003 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion:117 Resp: 178904

Ion	Ratio	Lower	Upper
117	100		
119	97.9	65.5	135.9
121	31.1	21.1	43.7
82	27.0	17.2	35.6

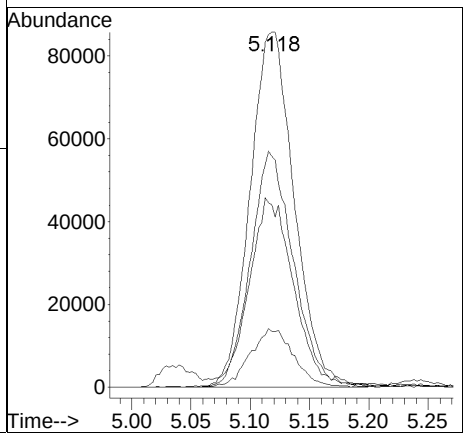


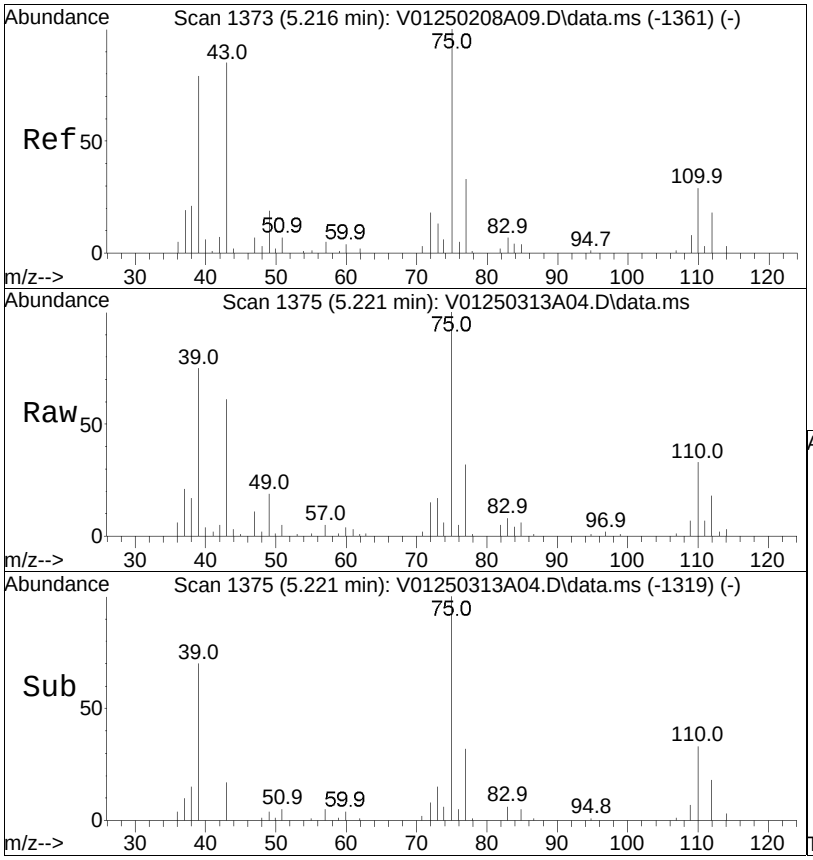


#37
1,1,1-Trichloroethane
Concen: 10.02 ug/L
RT: 5.118 min Scan# 1338
Delta R.T. 0.003 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion: 97 Resp: 223866

Ion	Ratio	Lower	Upper
97	100		
99	64.3	41.7	86.5
61	52.3	33.0	68.6
63	16.3	4.1	8.5#

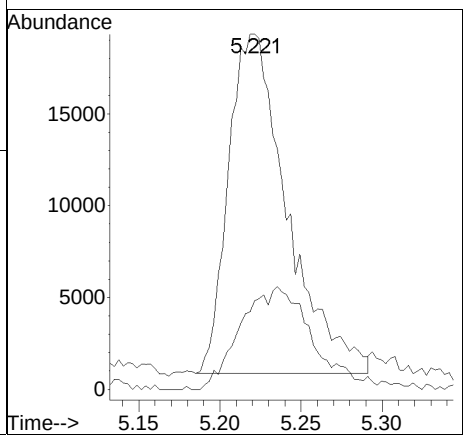


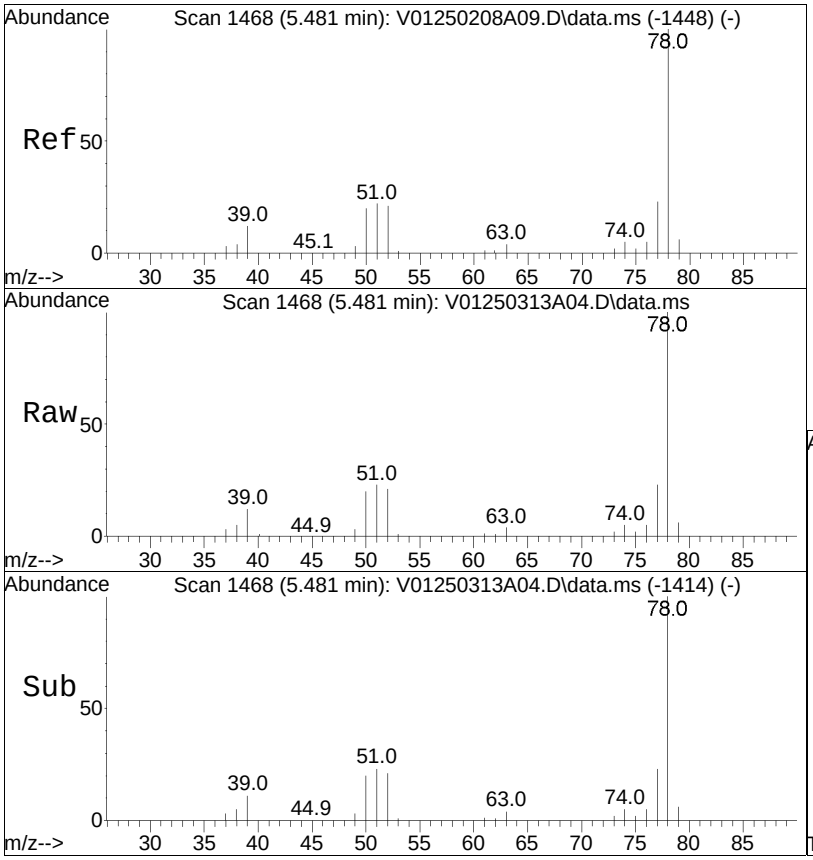


#39
2-Butanone
Concen: 10.76 ug/L
RT: 5.221 min Scan# 1375
Delta R.T. 0.005 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion: 43 Resp: 46593

Ion	Ratio	Lower	Upper
43	100		
72	36.2	16.5	24.7#

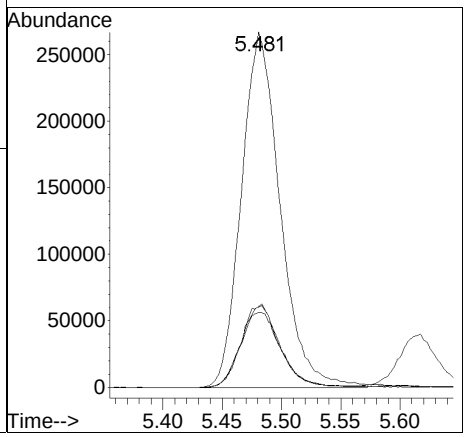


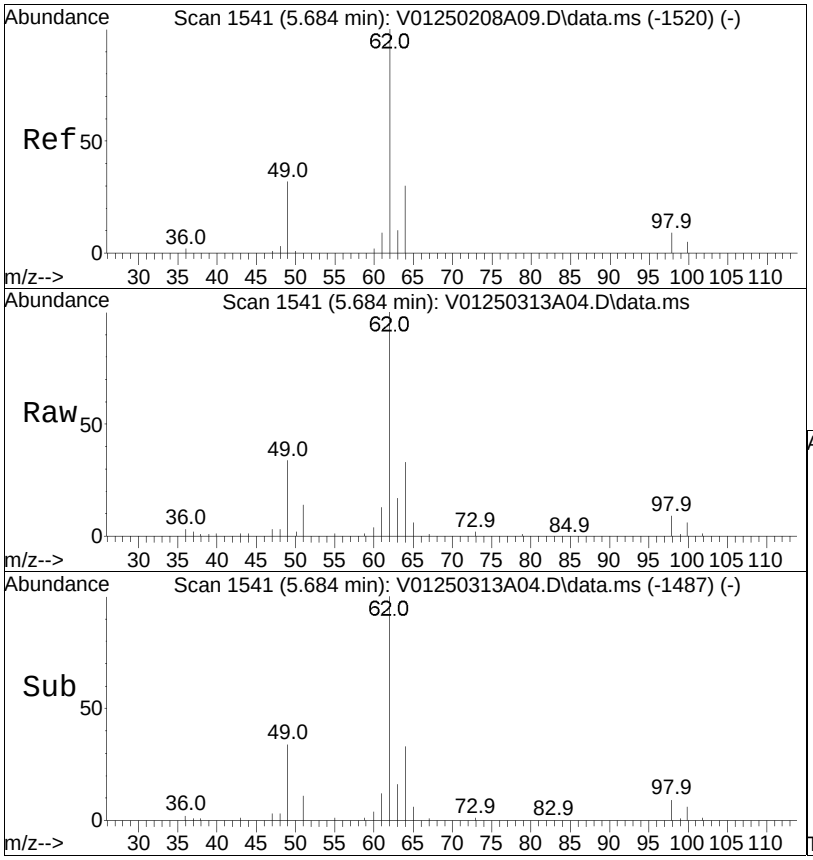


#41
Benzene
Concen: 10.62 ug/L
RT: 5.481 min Scan# 1468
Delta R.T. -0.000 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion: 78 Resp: 605812

Ion	Ratio	Lower	Upper
78	100		
77	23.5	15.0	31.2
51	22.9	14.6	30.2
52	22.1	14.4	30.0

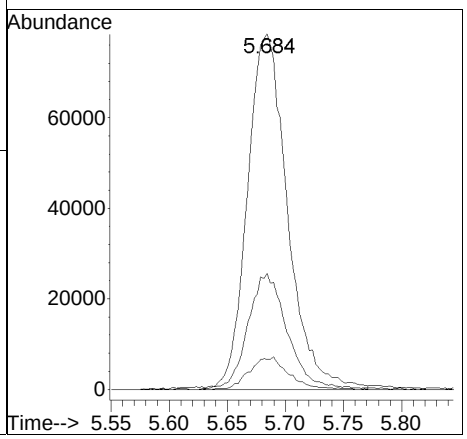


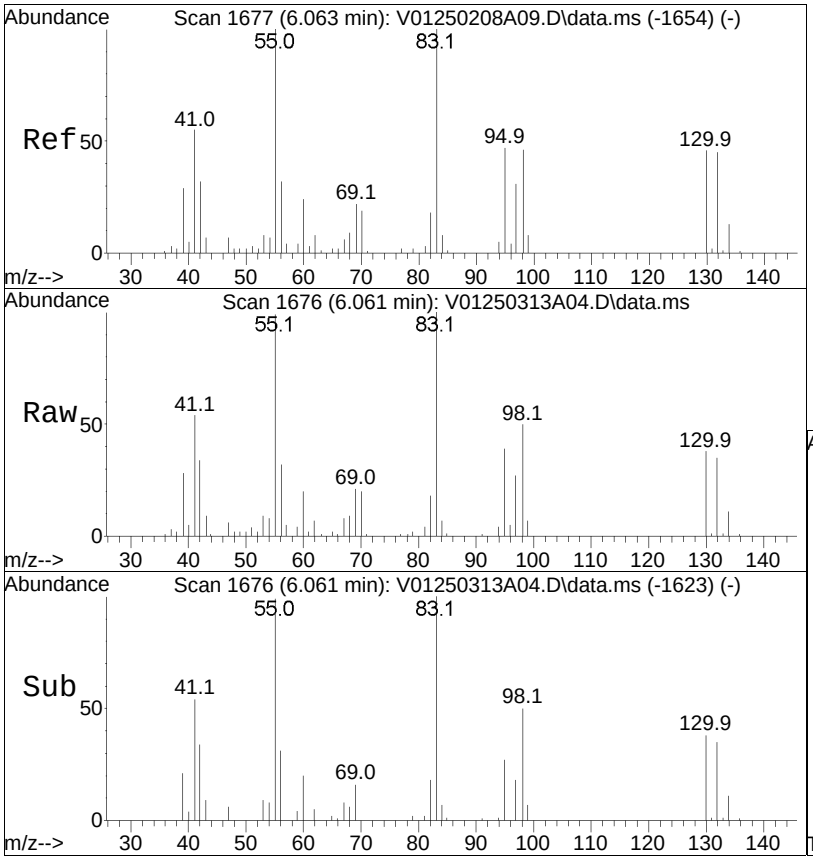


#44
1,2-Dichloroethane
Concen: 10.03 ug/L
RT: 5.684 min Scan# 1541
Delta R.T. 0.000 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion: 62 Resp: 188668

Ion	Ratio	Lower	Upper
62	100		
64	31.0	12.0	52.0
98	8.9	0.0	28.5

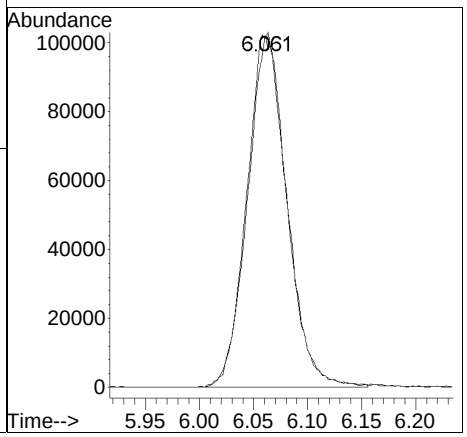


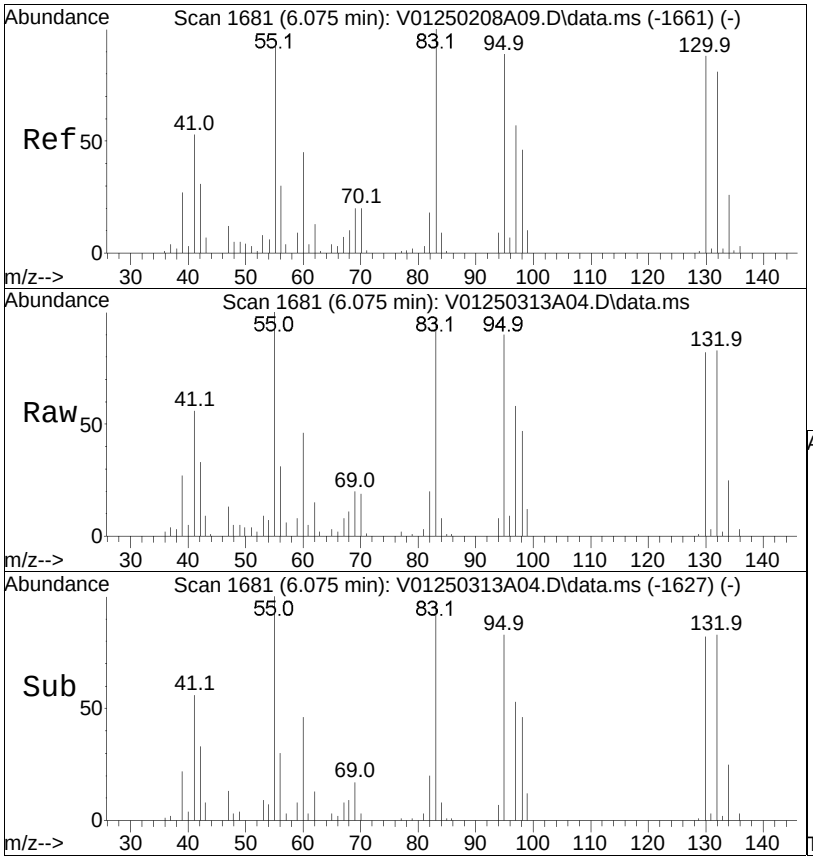


#47
Methyl cyclohexane
Concen: 10.09 ug/L
RT: 6.061 min Scan# 1676
Delta R.T. -0.002 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion: 83 Resp: 258328

Ion	Ratio	Lower	Upper
83	100		
55	102.1	80.2	120.4

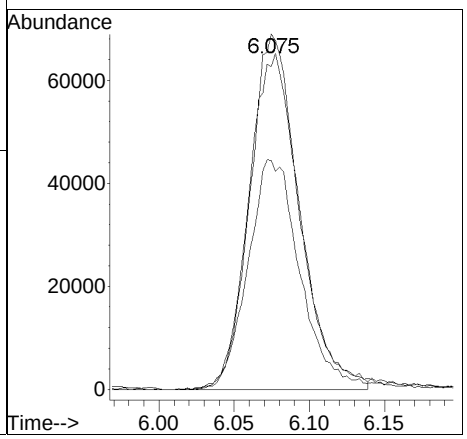


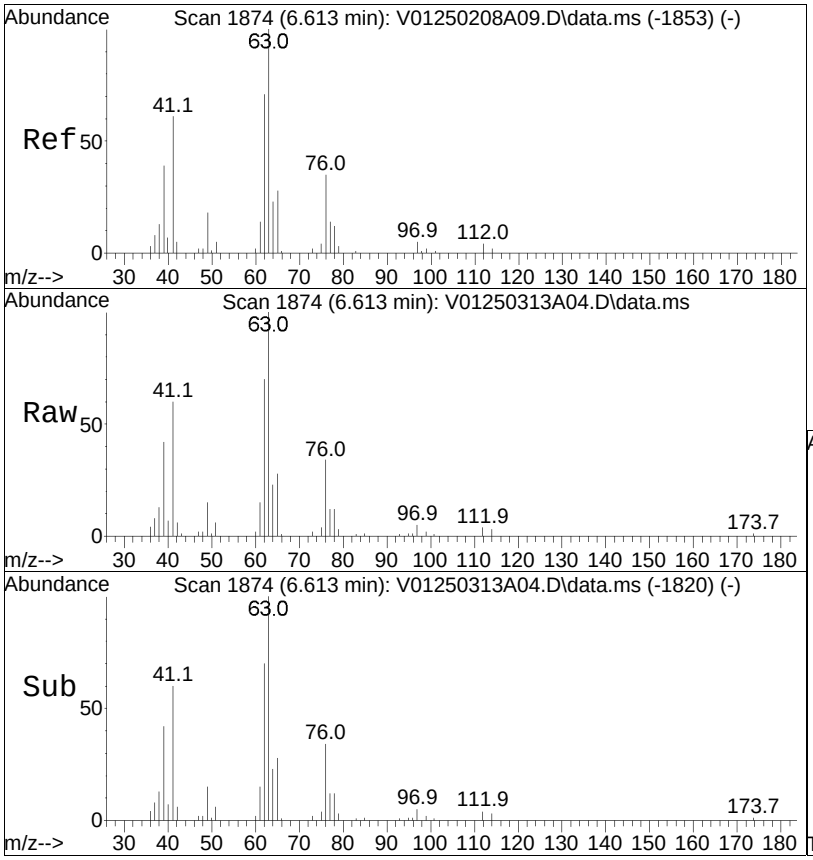


#48
Trichloroethene
Concen: 10.15 ug/L
RT: 6.075 min Scan# 1681
Delta R.T. -0.000 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion: 95 Resp: 159859

Ion	Ratio	Lower	Upper
95	100		
97	67.4	52.6	78.8
130	96.4	78.4	117.6

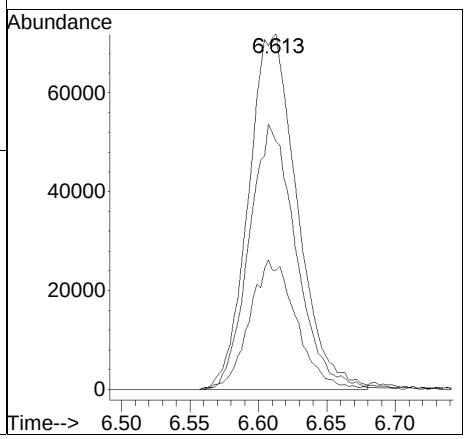


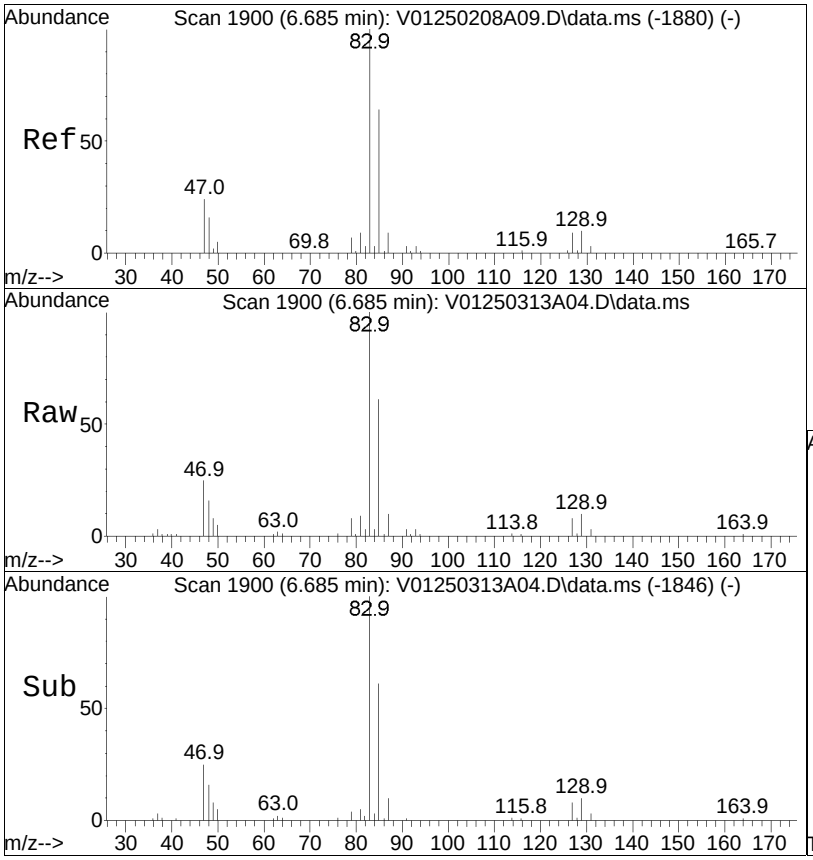


#51
1,2-Dichloropropane
Concen: 10.22 ug/L
RT: 6.613 min Scan# 1874
Delta R.T. -0.000 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion: 63 Resp: 177953

Ion	Ratio	Lower	Upper
63	100		
62	71.9	57.2	85.8
76	34.9	29.8	44.8

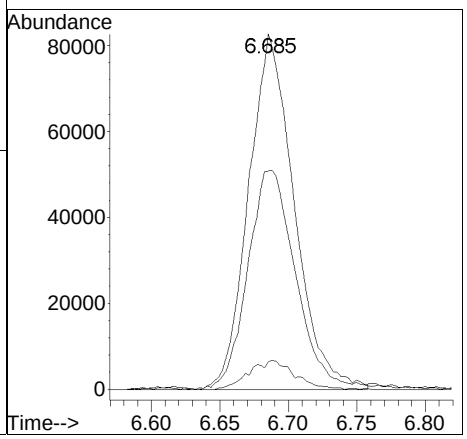


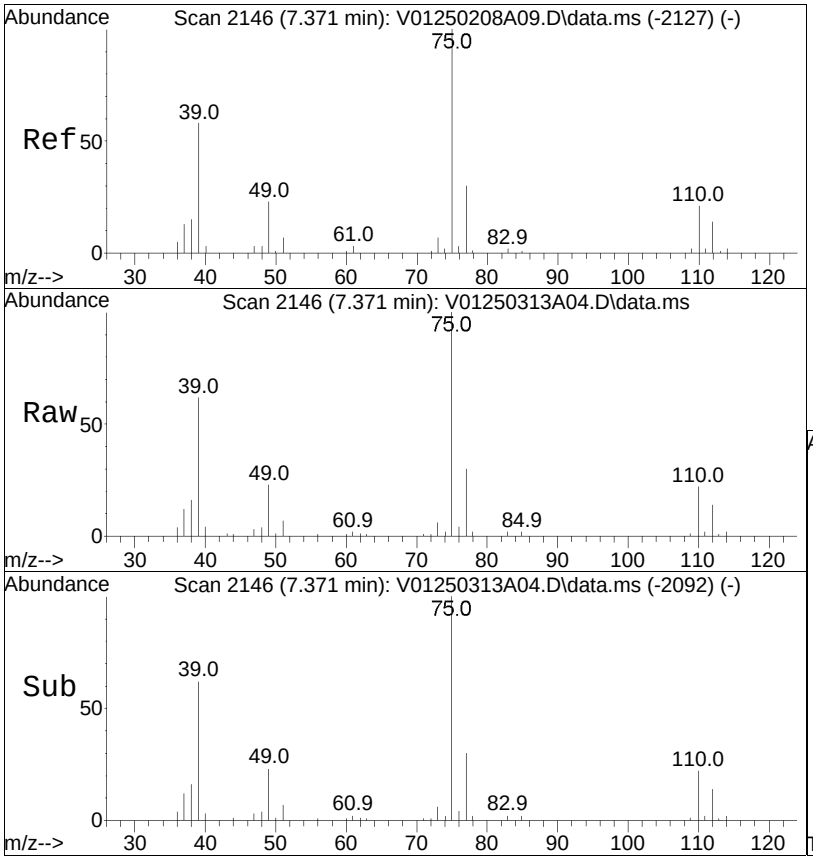


#54
Bromodichloromethane
Concen: 9.91 ug/L
RT: 6.685 min Scan# 1900
Delta R.T. 0.000 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion: 83 Resp: 191496

Ion	Ratio	Lower	Upper
83	100		
85	64.2	51.0	76.4
127	8.2	6.6	9.8

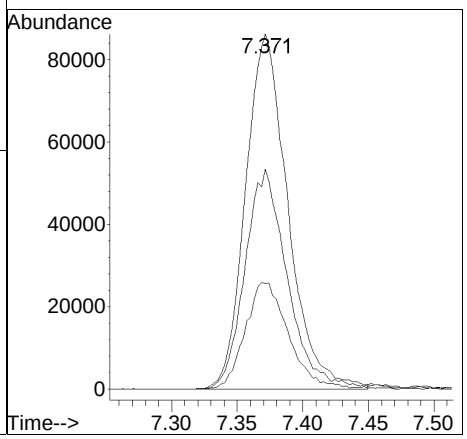


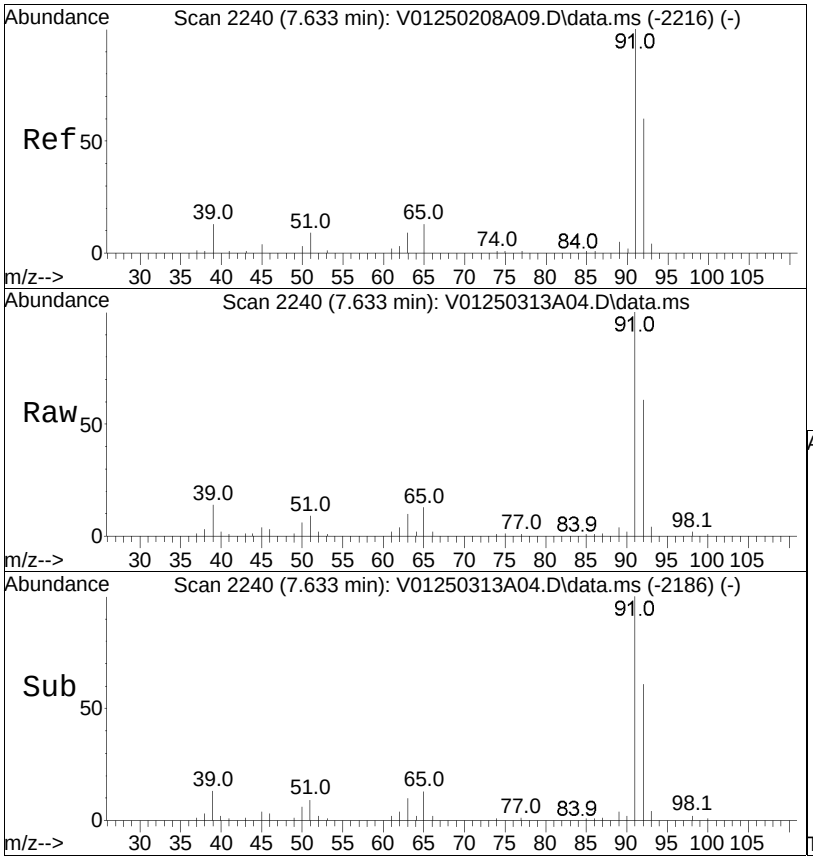


#58
cis-1,3-Dichloropropene
Concen: 9.08 ug/L
RT: 7.371 min Scan# 2146
Delta R.T. 0.000 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion: 75 Resp: 194250

Ion	Ratio	Lower	Upper
75	100		
77	30.8	25.4	38.0
39	61.8	47.9	71.9

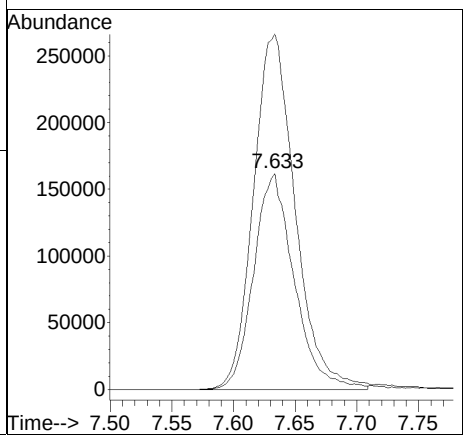


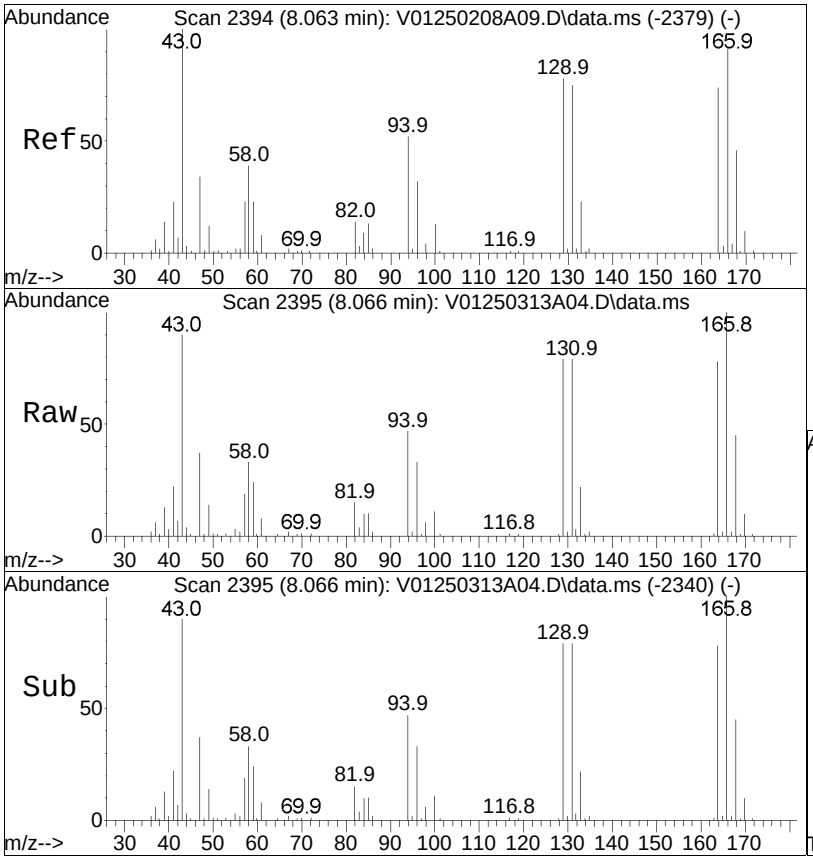


#61
Toluene
Concen: 10.79 ug/L
RT: 7.633 min Scan# 2240
Delta R.T. 0.000 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion: 92 Resp: 370125

Ion	Ratio	Lower	Upper
92	100		
91	169.9	136.0	204.0

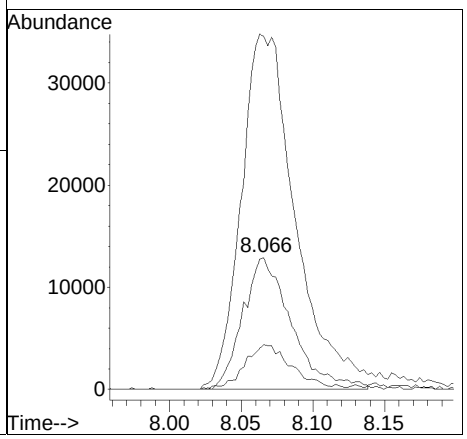


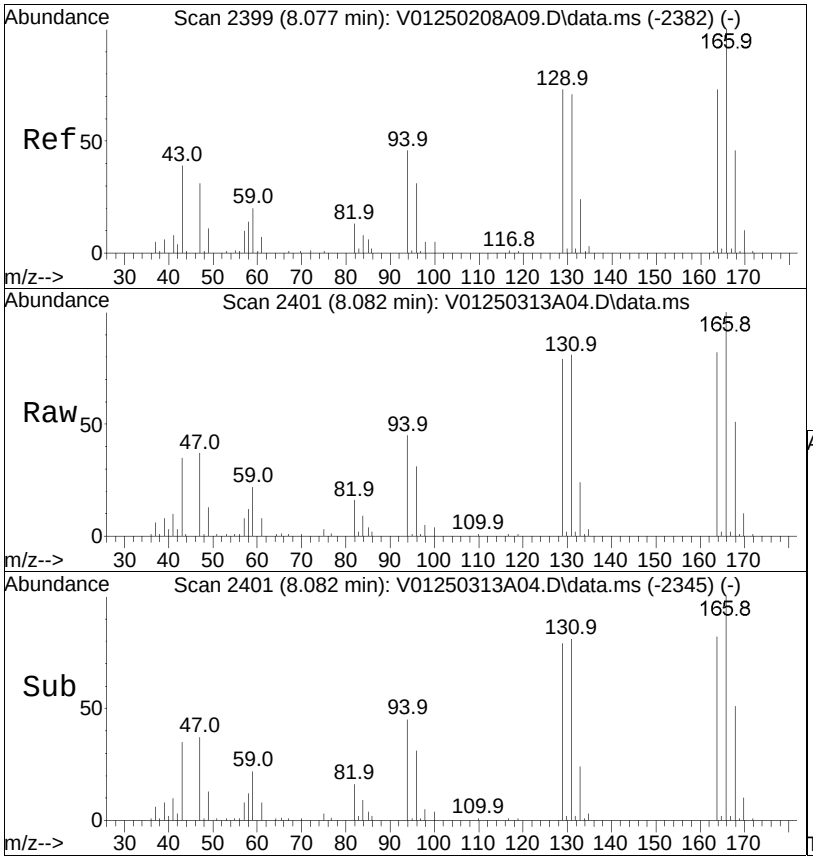


#62
4-Methyl-2-pentanone
Concen: 9.24 ug/L
RT: 8.066 min Scan# 2395
Delta R.T. 0.003 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion: 58 Resp: 30649

Ion	Ratio	Lower	Upper
58	100		
100	32.5	24.6	36.8
43	301.8	231.0	346.6

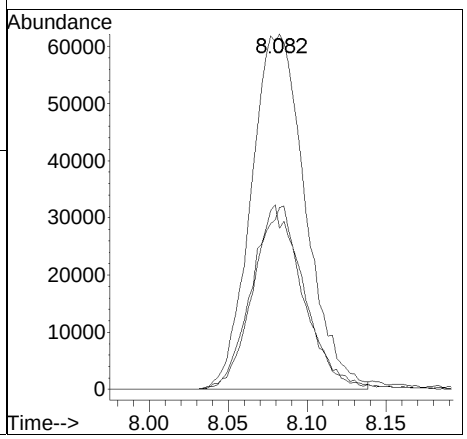


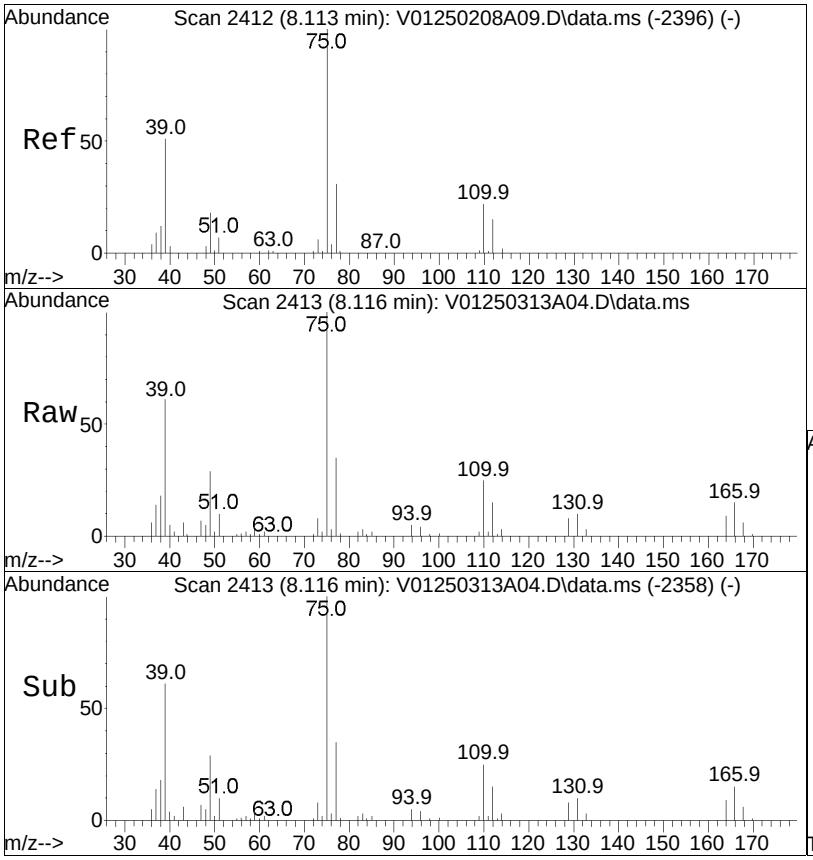


#63
Tetrachloroethene
Concen: 10.83 ug/L
RT: 8.082 min Scan# 2401
Delta R.T. 0.005 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion:166 Resp: 148875

Ion	Ratio	Lower	Upper
166	100		
168	49.4	28.4	68.4
94	49.3	29.3	69.3

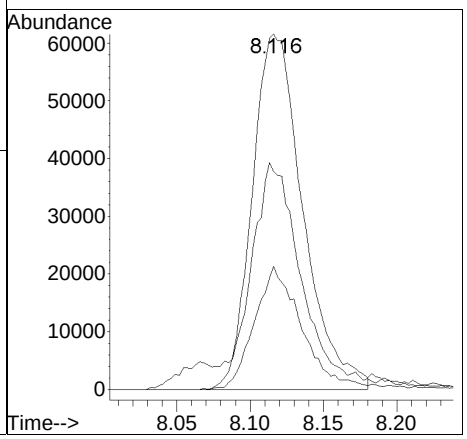


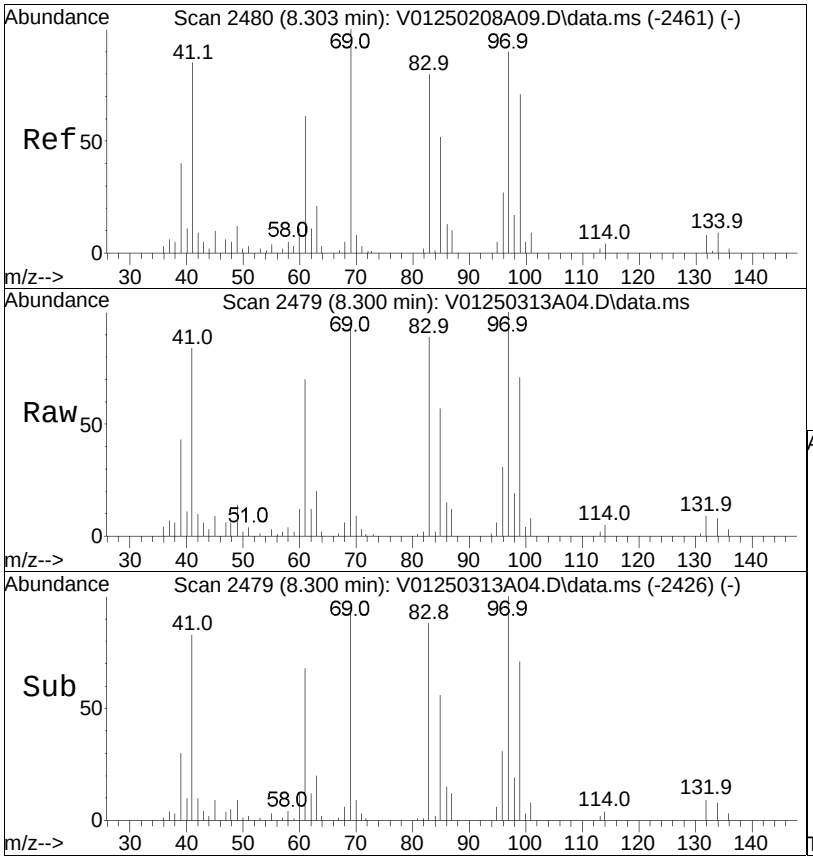


#65
trans-1,3-Dichloropropene
Concen: 9.27 ug/L
RT: 8.116 min Scan# 2413
Delta R.T. 0.003 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion: 75 Resp: 148164

Ion	Ratio	Lower	Upper
75	100		
77	32.1	11.1	51.1
39	59.8	36.8	76.8

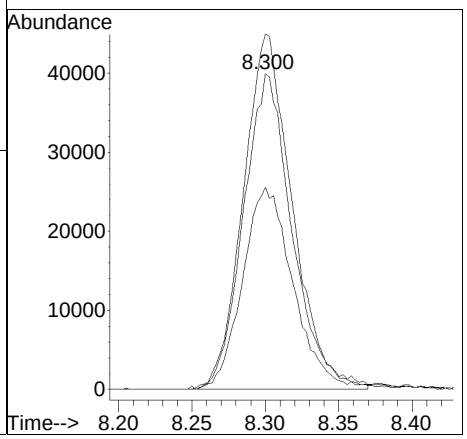


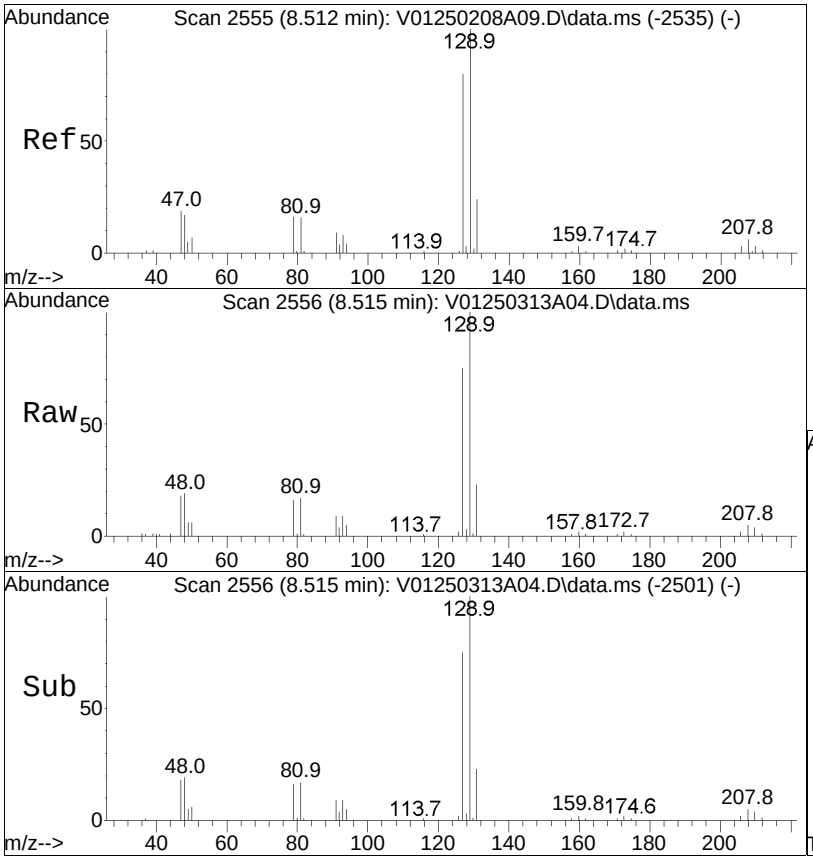


#68
1,1,2-Trichloroethane
Concen: 10.72 ug/L
RT: 8.300 min Scan# 2479
Delta R.T. -0.003 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion: 83 Resp: 92094

Ion	Ratio	Lower	Upper
83	100		
97	114.0	95.7	135.7
85	67.0	45.8	85.8

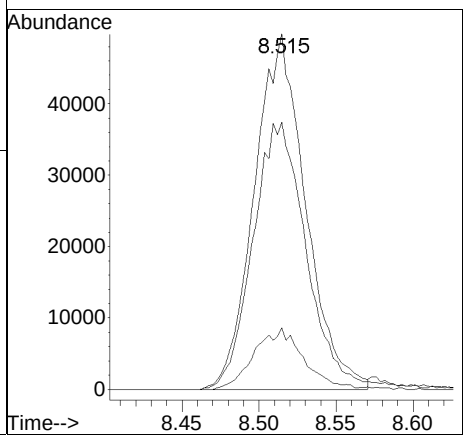


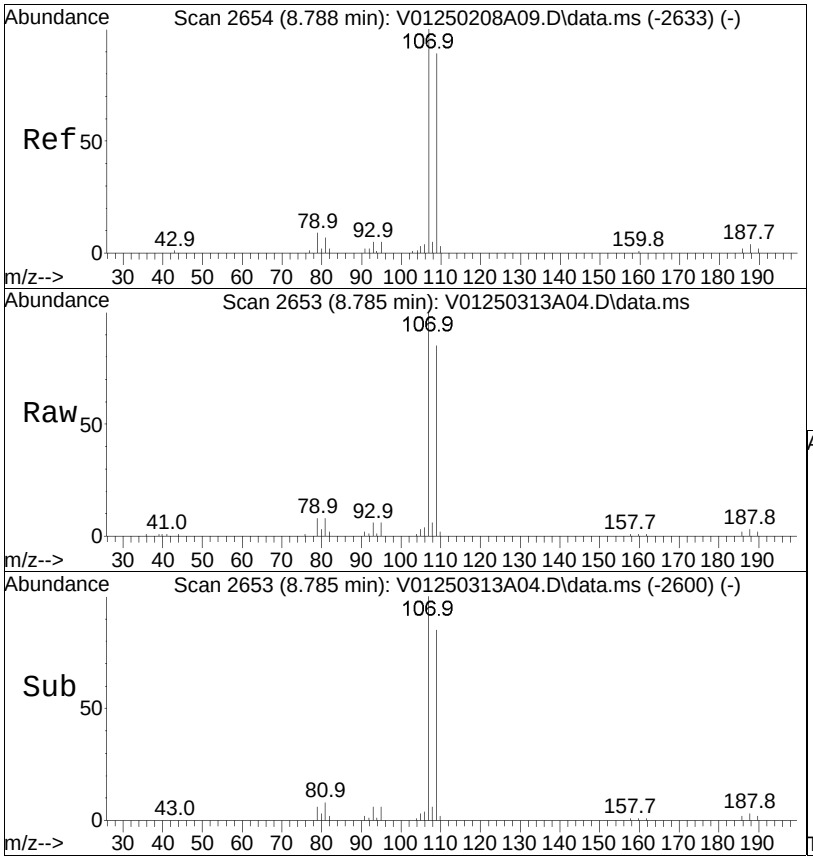


#69
Chlorodibromomethane
Concen: 9.71 ug/L
RT: 8.515 min Scan# 2556
Delta R.T. 0.003 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion:129 Resp: 115188

Ion	Ratio	Lower	Upper
129	100		
81	16.5	0.0	35.9
127	78.7	58.8	98.8

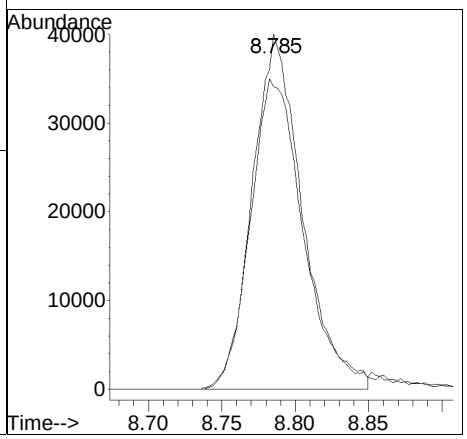


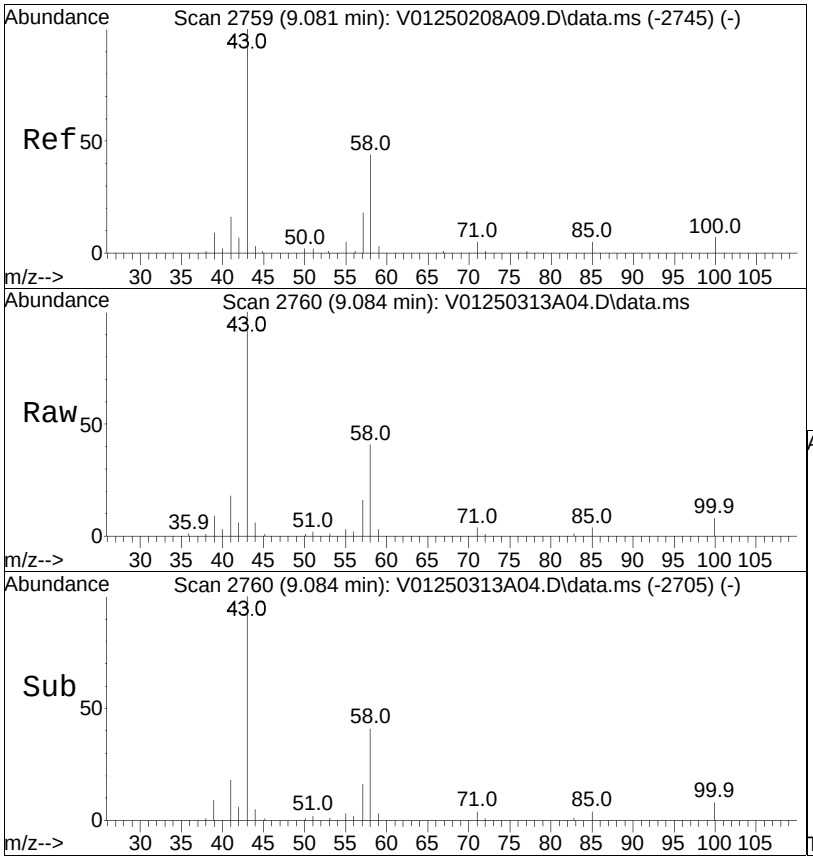


#71
1,2-Dibromoethane
Concen: 10.19 ug/L
RT: 8.785 min Scan# 2653
Delta R.T. -0.003 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion:107 Resp: 94993

Ion	Ratio	Lower	Upper
107	100		
109	91.5	74.7	112.1

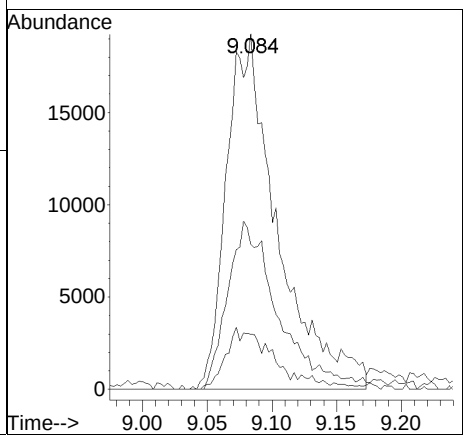


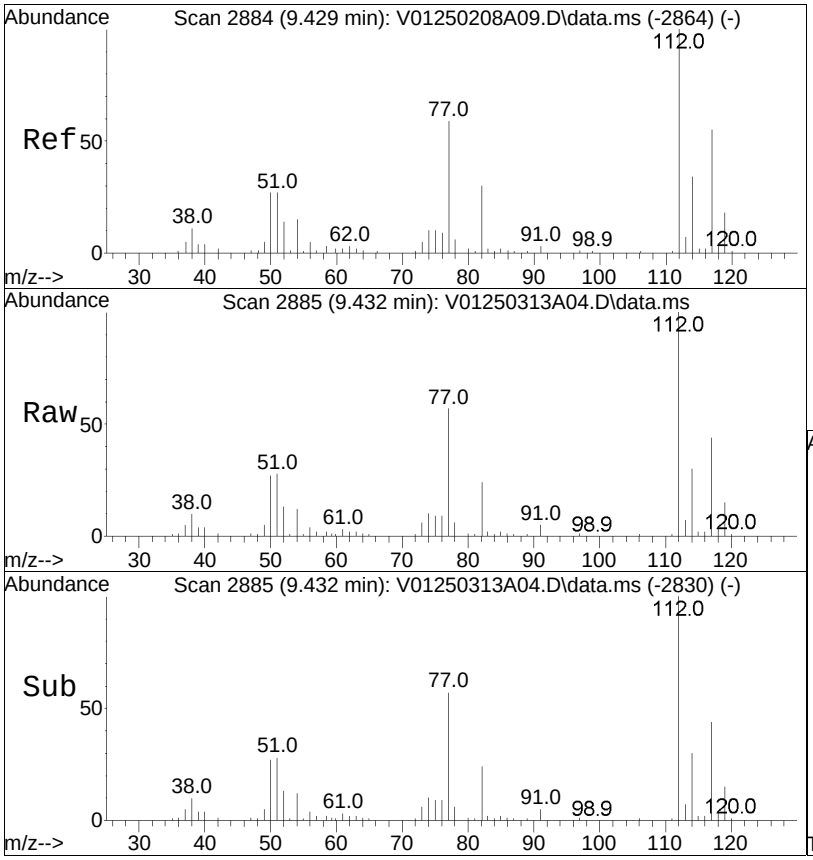


#72
2-Hexanone
Concen: 9.18 ug/L M3
RT: 9.084 min Scan# 2760
Delta R.T. 0.003 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion: 43 Resp: 53115

Ion	Ratio	Lower	Upper
43	100		
58	43.5	35.9	53.9
57	5.2	13.5	20.3#

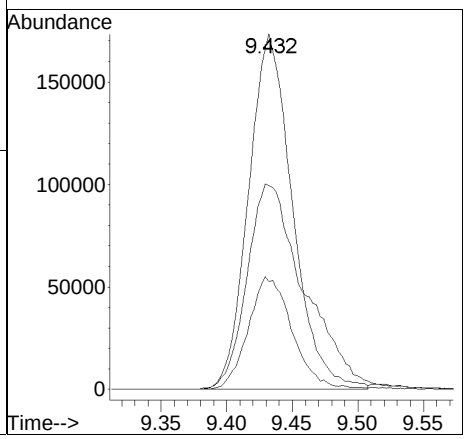


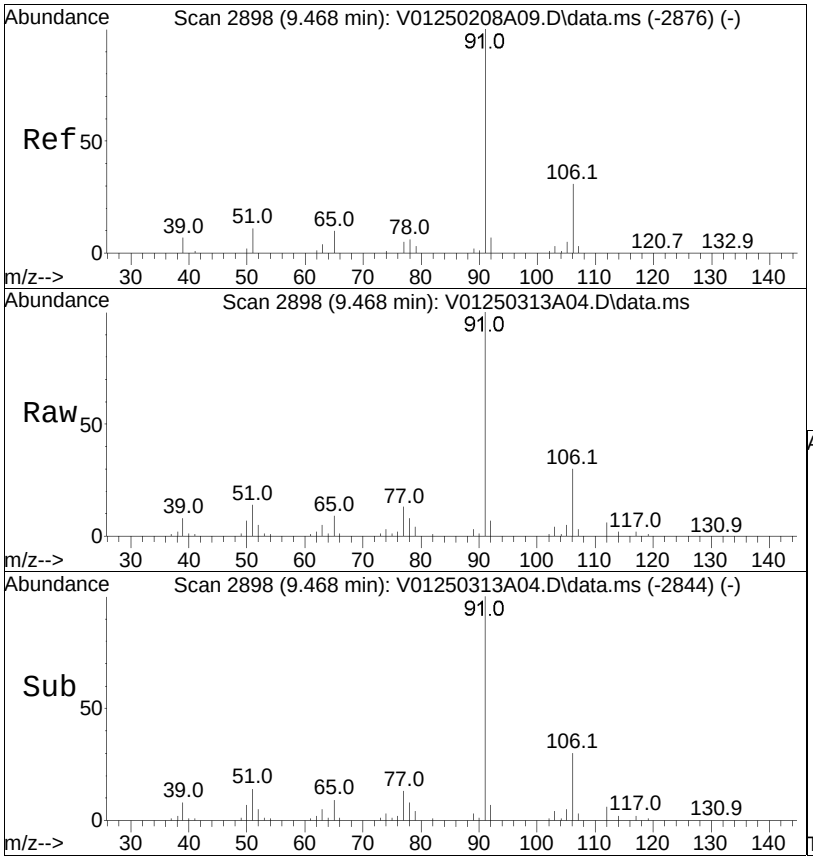


#73
Chlorobenzene
Concen: 10.60 ug/L
RT: 9.432 min Scan# 2885
Delta R.T. 0.003 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion:112 Resp: 403650

Ion	Ratio	Lower	Upper
112	100		
77	76.6	60.9	91.3
114	31.4	25.7	38.5

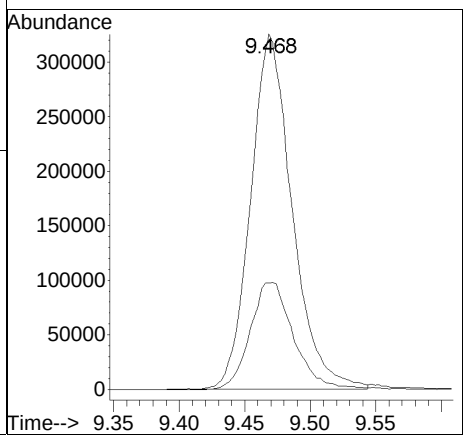


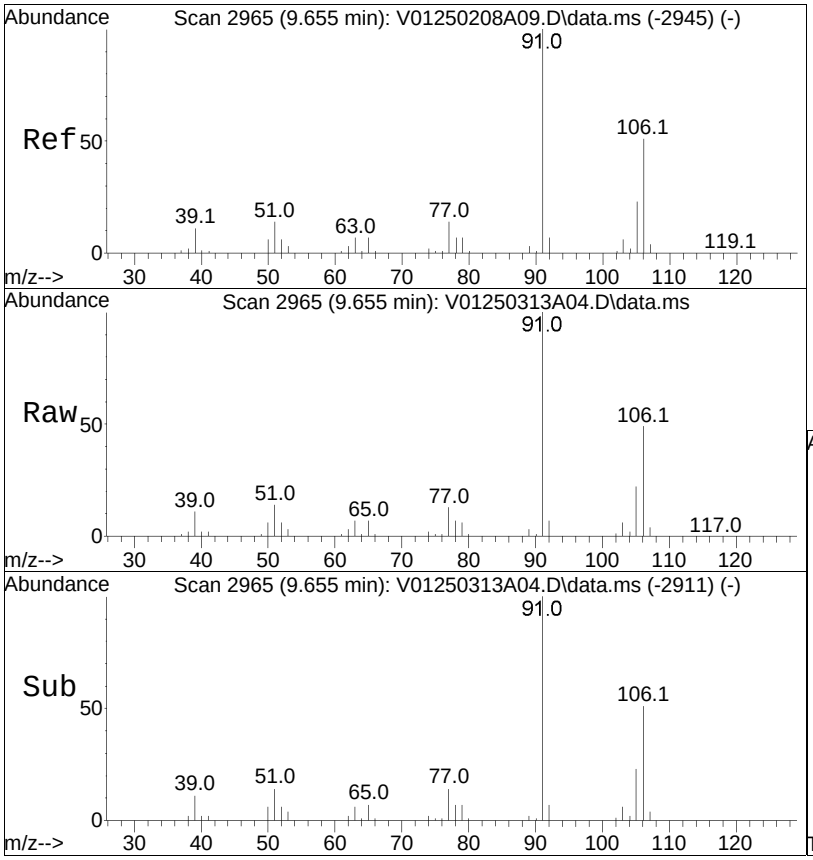


#74
Ethylbenzene
Concen: 10.80 ug/L
RT: 9.468 min Scan# 2898
Delta R.T. 0.000 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion: 91 Resp: 715715

Ion	Ratio	Lower	Upper
91	100		
106	31.4	25.1	37.7

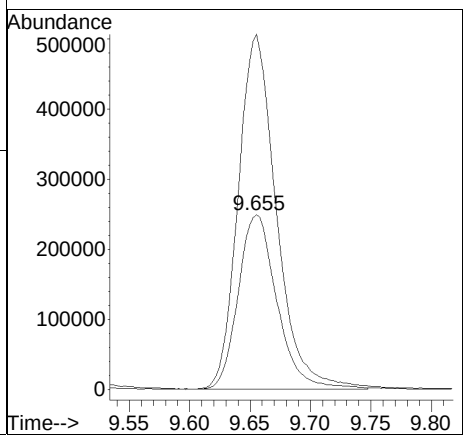


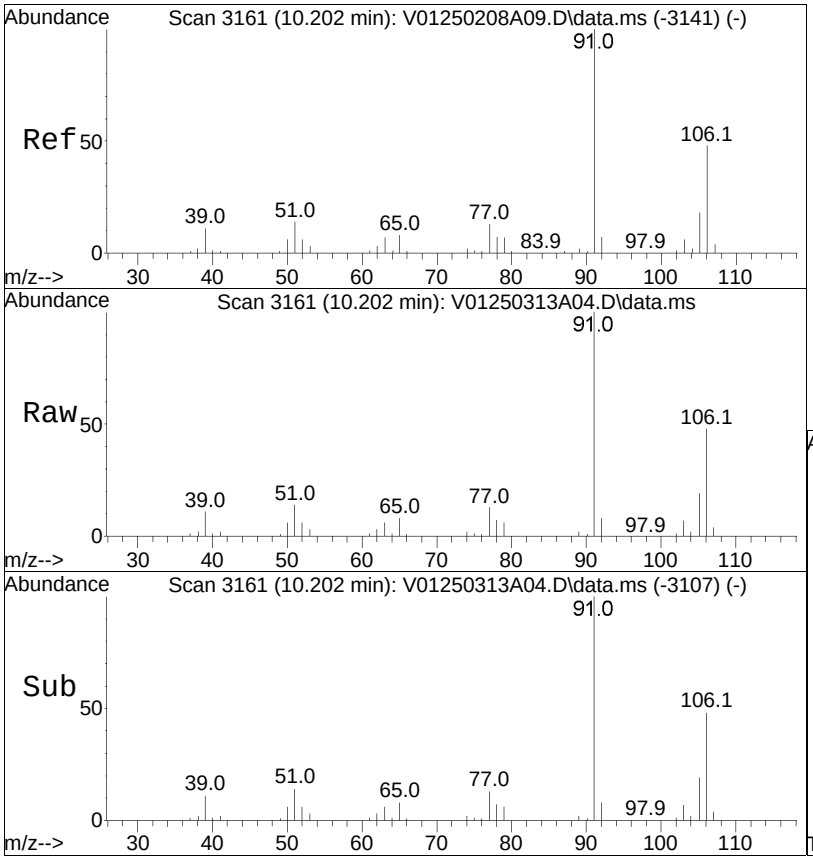


#76
p/m Xylene
Concen: 22.04 ug/L
RT: 9.655 min Scan# 2965
Delta R.T. 0.000 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion:106 Resp: 557088

Ion	Ratio	Lower	Upper
106	100		
91	200.0	159.6	239.4

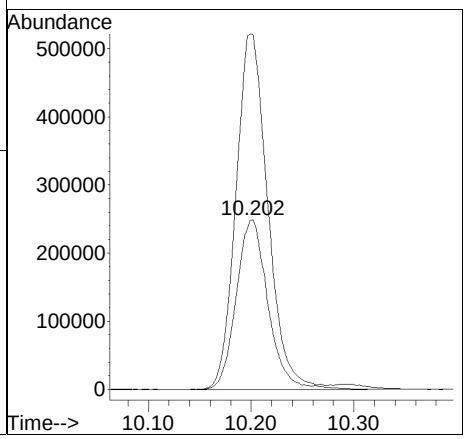


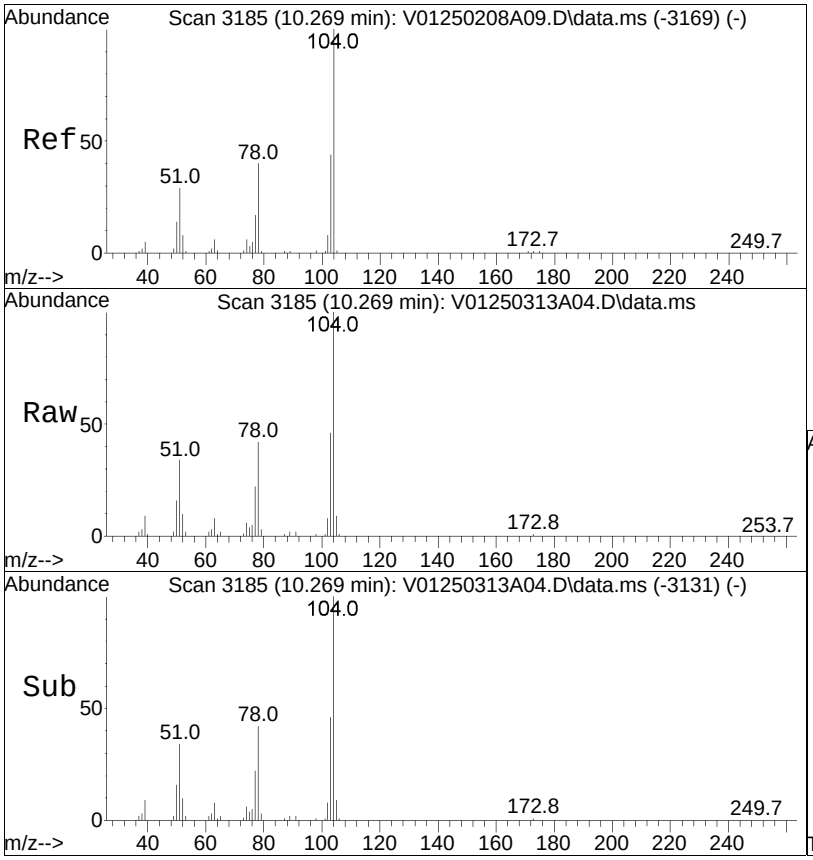


#77
o Xylene
Concen: 21.97 ug/L
RT: 10.202 min Scan# 3161
Delta R.T. -0.000 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion:106 Resp: 536119

Ion	Ratio	Lower	Upper
106	100		
91	209.1	168.7	253.1

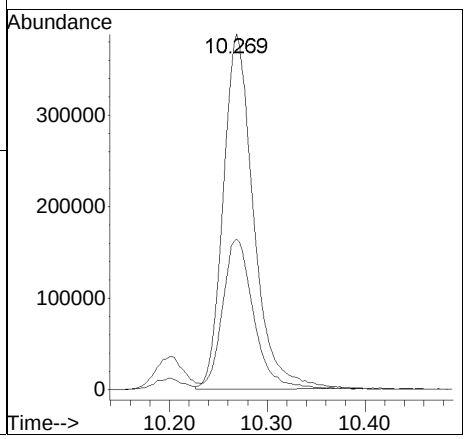


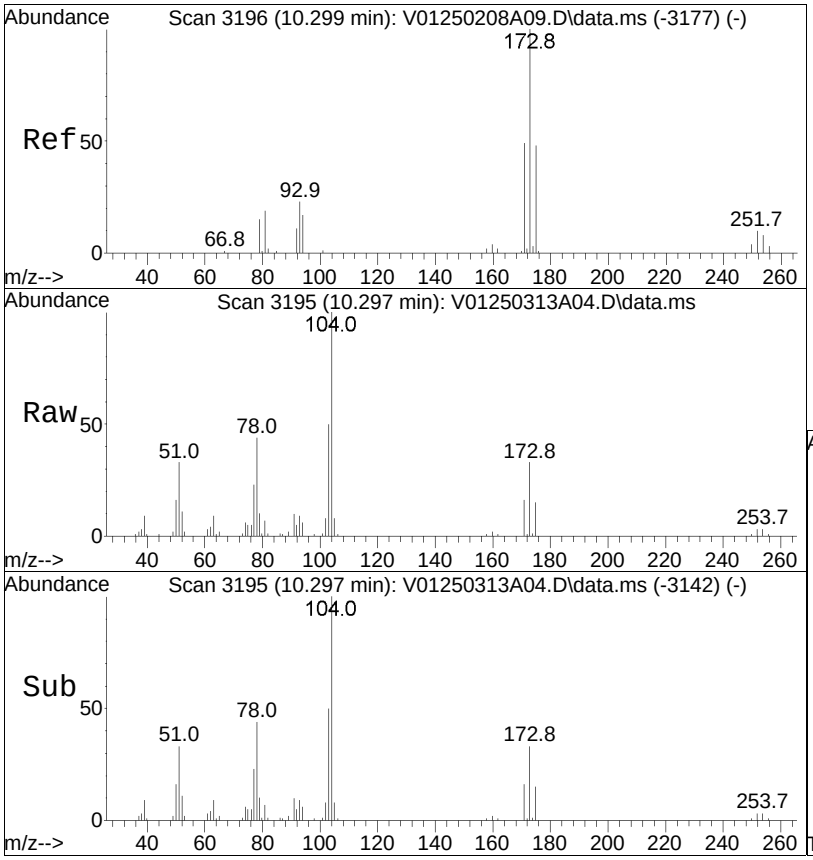


#78
Styrene
Concen: 22.34 ug/L
RT: 10.269 min Scan# 3185
Delta R.T. -0.000 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion:104 Resp: 835887

Ion	Ratio	Lower	Upper
104	100		
78	42.6	35.0	52.6

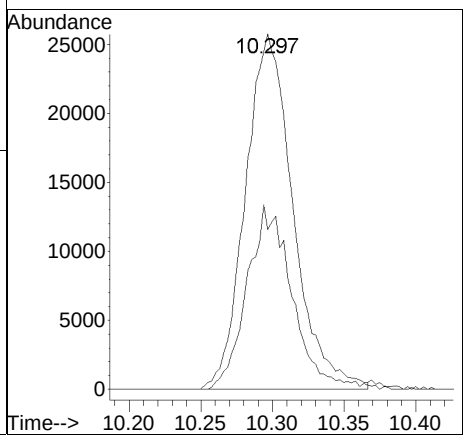


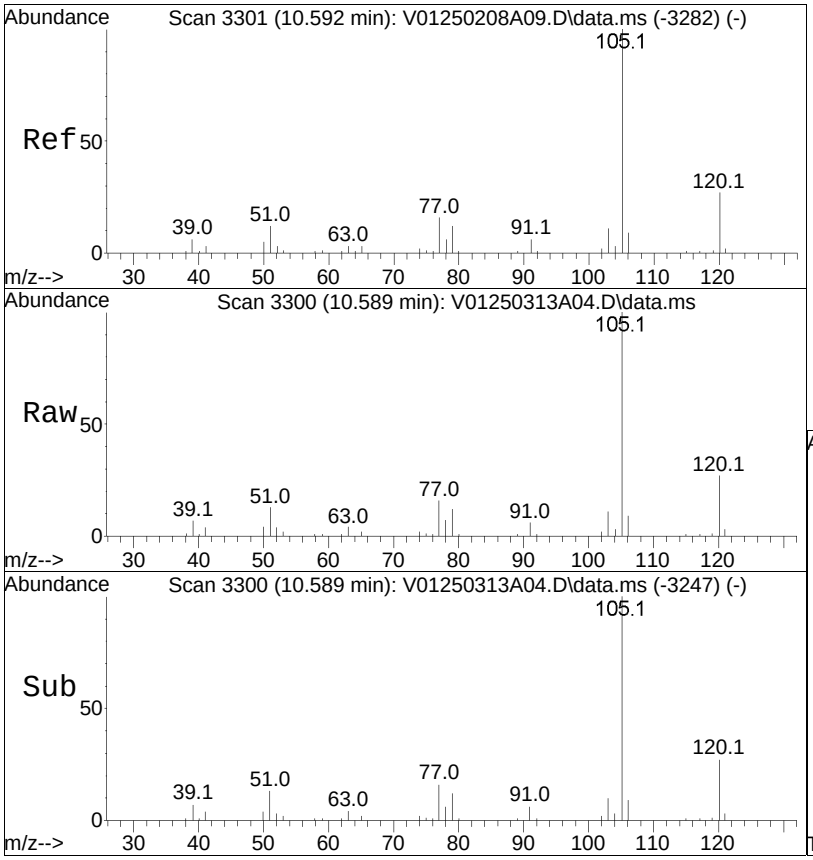


#80
Bromoform
Concen: 9.21 ug/L
RT: 10.297 min Scan# 3195
Delta R.T. -0.002 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion:173 Resp: 59628

Ion	Ratio	Lower	Upper
173	100		
175	49.0	27.6	67.6

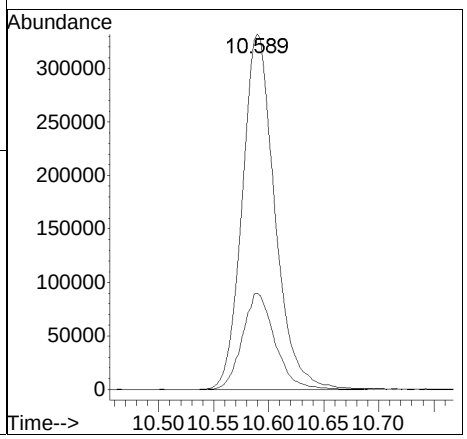


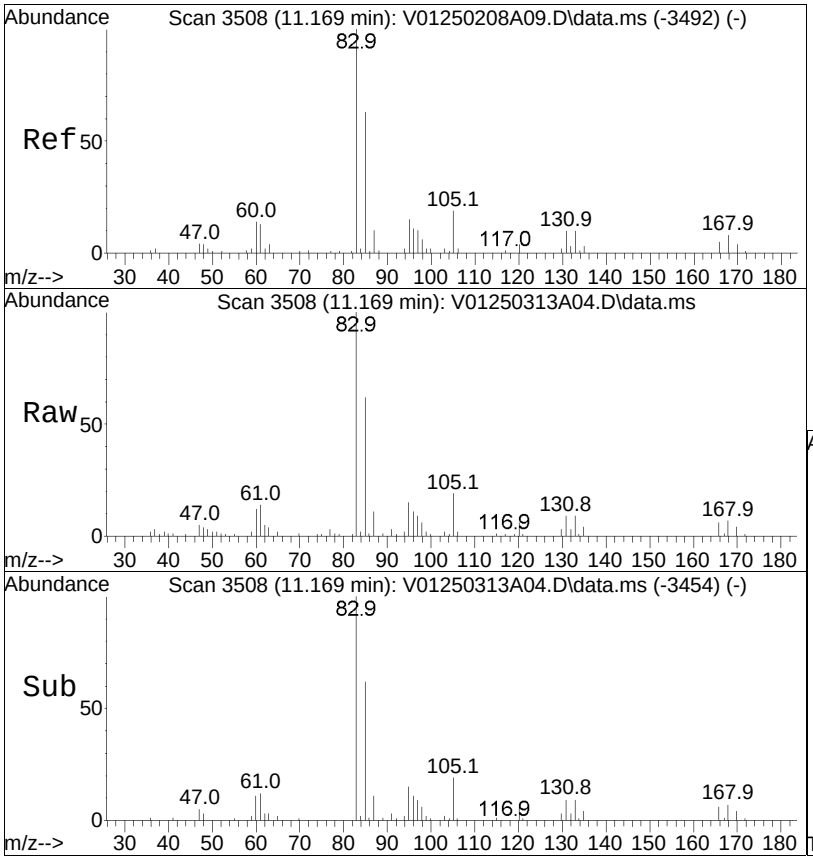


#82
Isopropylbenzene
Concen: 10.66 ug/L
RT: 10.589 min Scan# 3300
Delta R.T. -0.003 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion:105 Resp: 683411

Ion	Ratio	Lower	Upper
105	100		
120	27.1	7.2	47.2

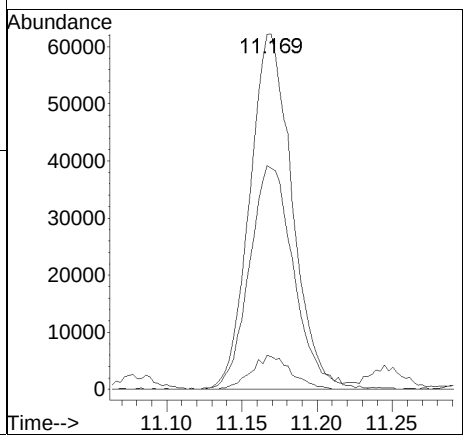


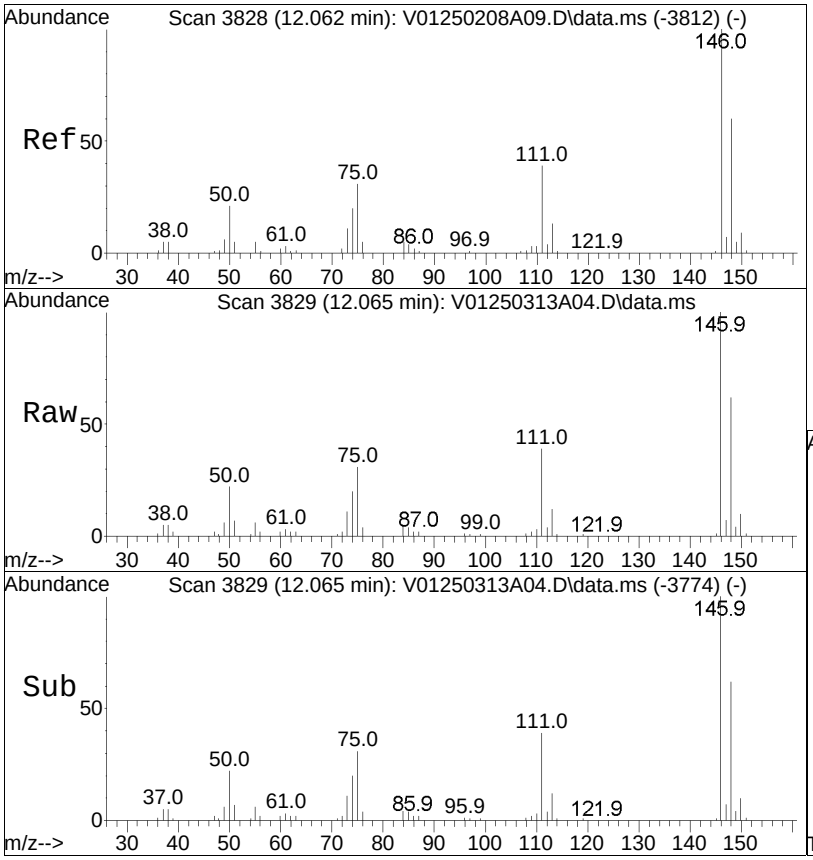


#87
1,1,2,2-Tetrachloroethane
Concen: 10.79 ug/L
RT: 11.169 min Scan# 3508
Delta R.T. 0.000 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion: 83 Resp: 122488

Ion	Ratio	Lower	Upper
83	100		
131	9.0	0.0	29.5
85	65.2	45.9	85.9

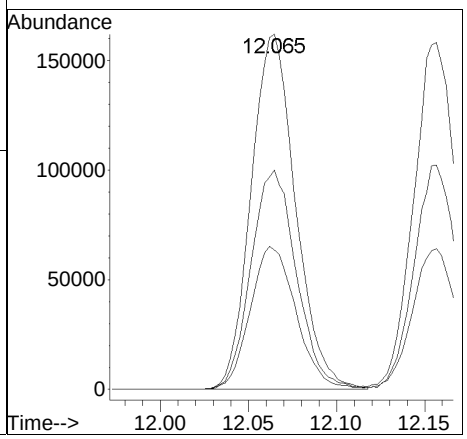


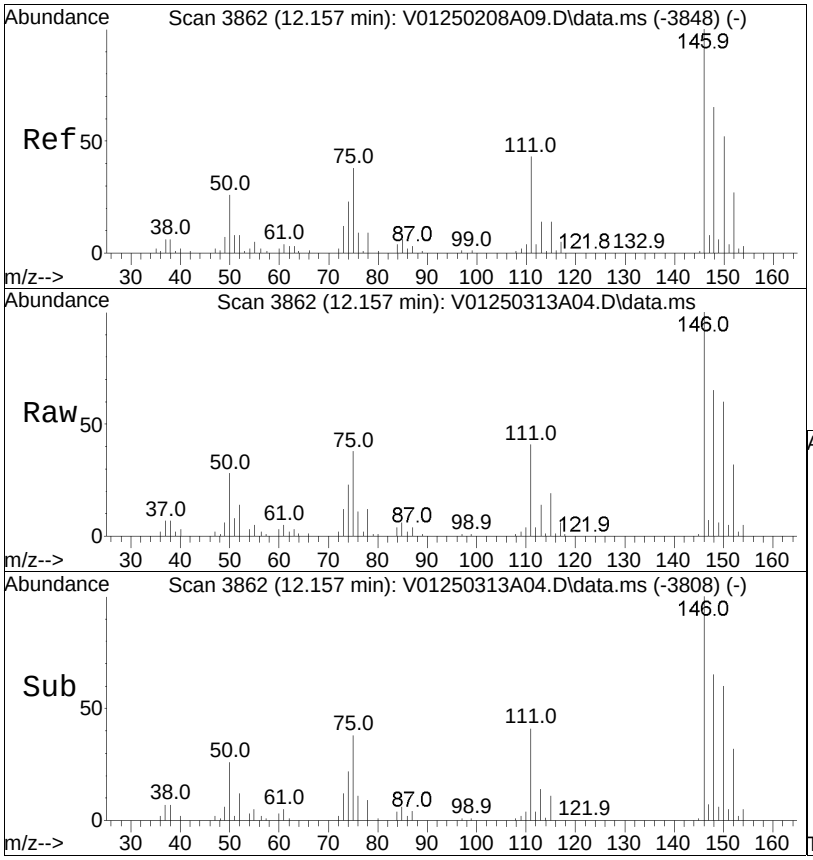


#100
1,3-Dichlorobenzene
Concen: 10.83 ug/L
RT: 12.065 min Scan# 3829
Delta R.T. 0.003 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion:146 Resp: 284845

Ion	Ratio	Lower	Upper
146	100		
111	41.5	27.2	56.4
148	63.0	40.8	84.6

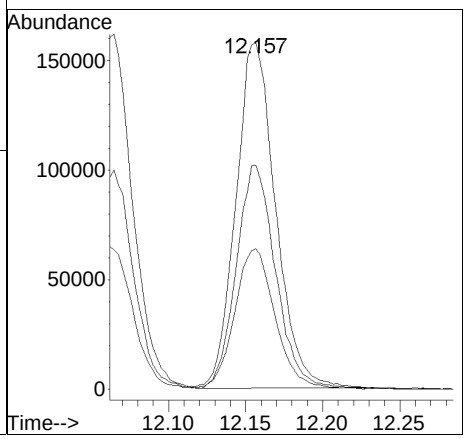


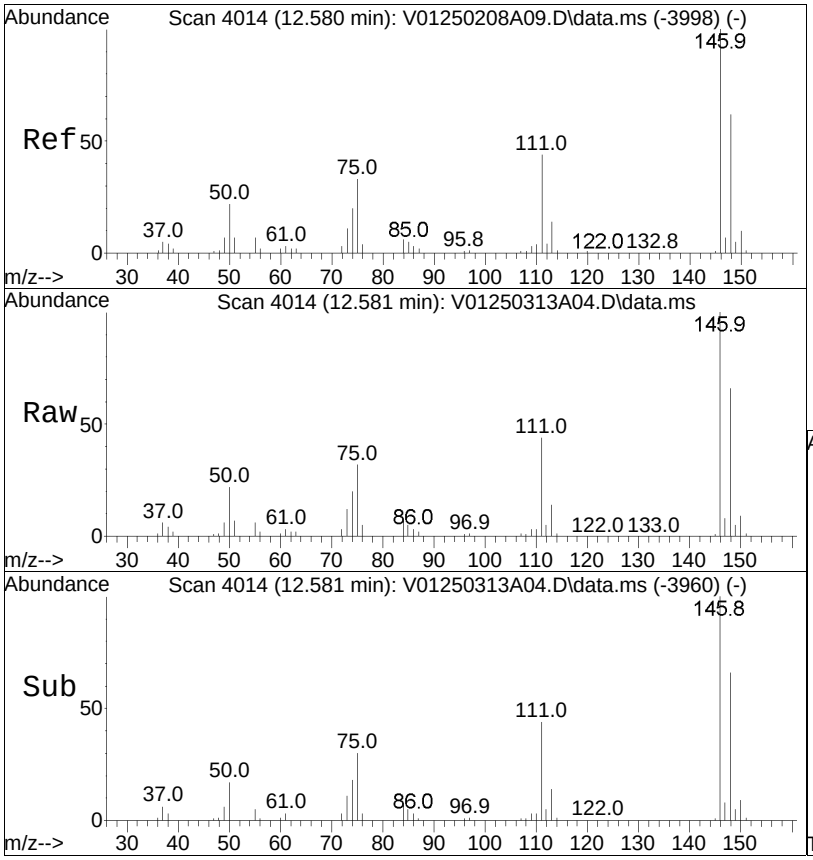


#101
1,4-Dichlorobenzene
Concen: 10.49 ug/L
RT: 12.157 min Scan# 3862
Delta R.T. -0.000 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion:146 Resp: 282818

Ion	Ratio	Lower	Upper
146	100		
111	41.3	33.5	50.3
148	64.4	50.4	75.6

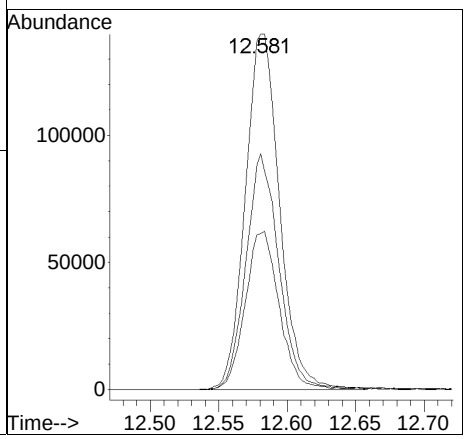


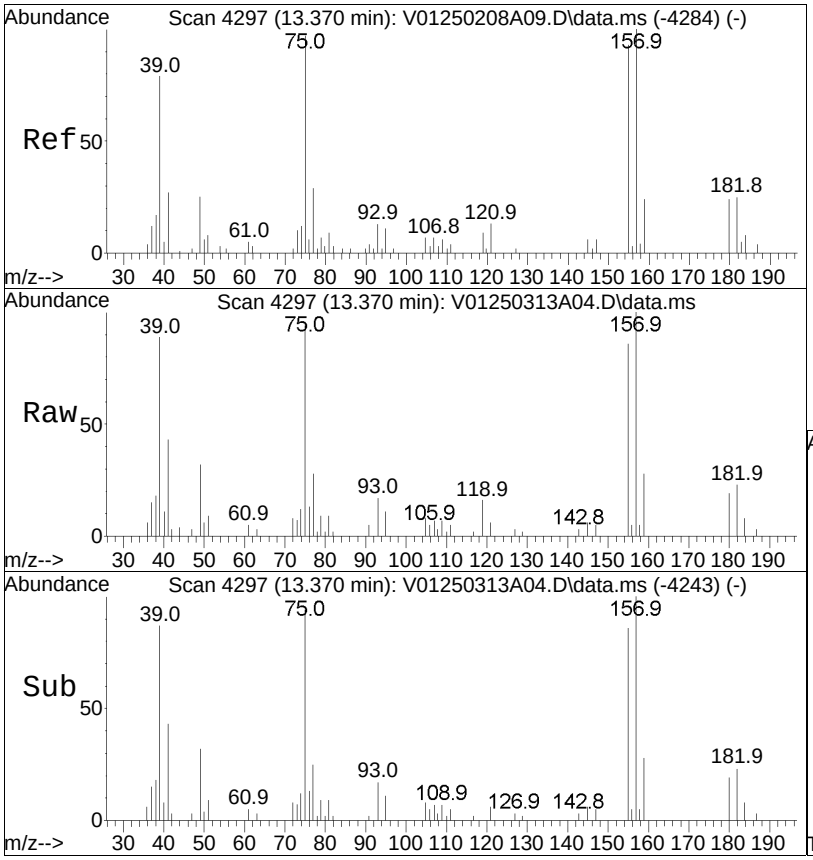


#104
1,2-Dichlorobenzene
Concen: 10.48 ug/L
RT: 12.581 min Scan# 4014
Delta R.T. 0.001 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion:146 Resp: 244288

Ion	Ratio	Lower	Upper
146	100		
111	43.8	28.2	58.6
148	63.2	41.1	85.5

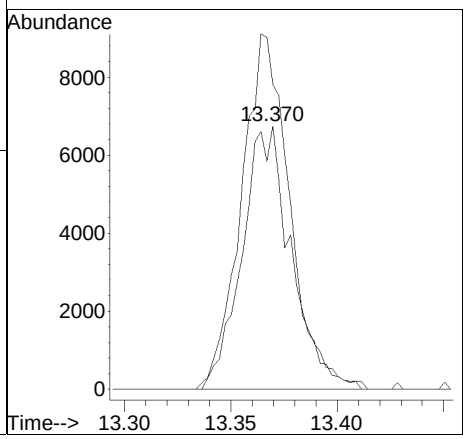


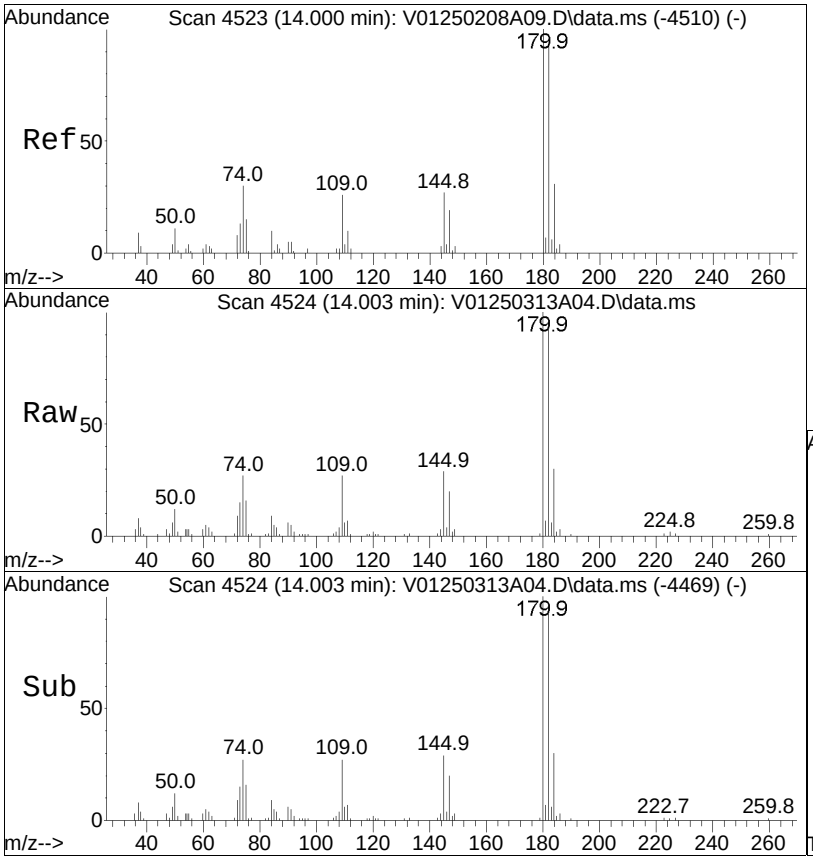


#106
1,2-Dibromo-3-chloropropane
Concen: 8.11 ug/L
RT: 13.370 min Scan# 4297
Delta R.T. -0.000 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion:155 Resp: 10846

Ion	Ratio	Lower	Upper
155	100		
157	132.7	99.0	148.6

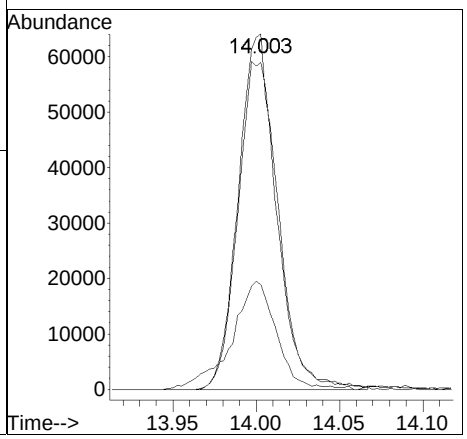


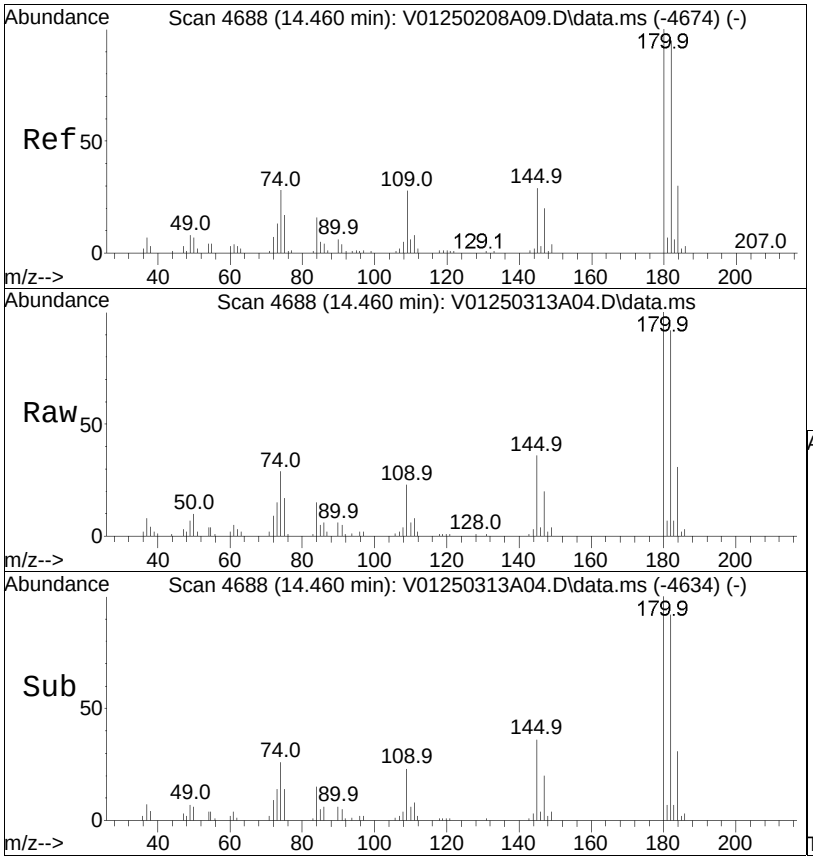


#109
1,2,4-Trichlorobenzene
Concen: 9.51 ug/L
RT: 14.003 min Scan# 4524
Delta R.T. 0.003 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion:180 Resp: 104837

Ion	Ratio	Lower	Upper
180	100		
182	93.5	76.6	114.8
145	34.9	28.7	43.1

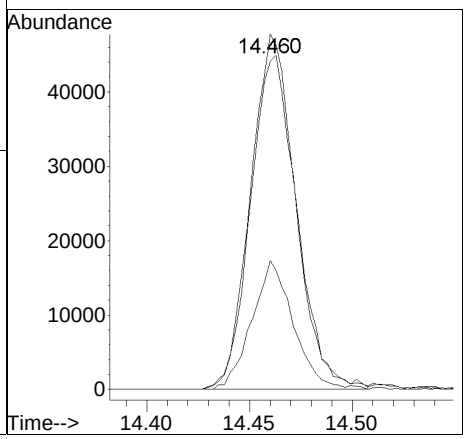




#111
1,2,3-Trichlorobenzene
Concen: 8.71 ug/L
RT: 14.460 min Scan# 4688
Delta R.T. 0.000 min
Lab File: V01250313A04.D
Acq: 13 Mar 2025 8:22 am

Tgt Ion:180 Resp: 73445

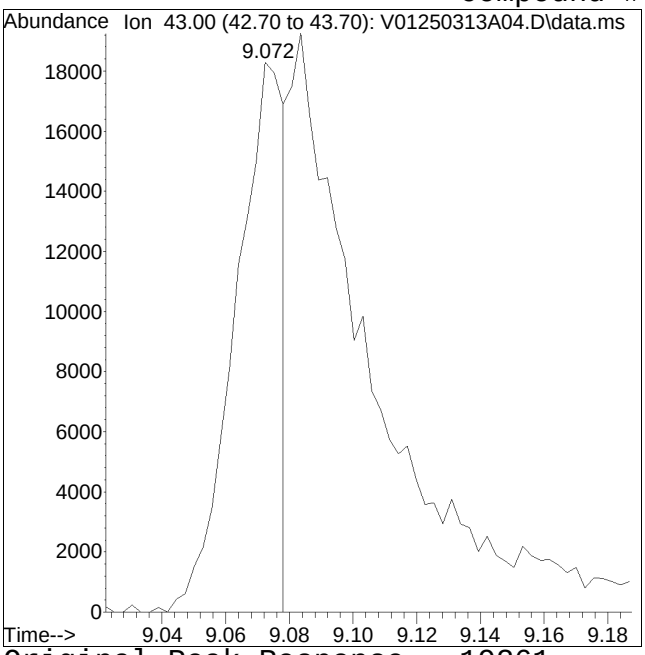
Ion	Ratio	Lower	Upper
180	100		
182	94.8	76.6	114.8
145	32.9	25.6	38.4



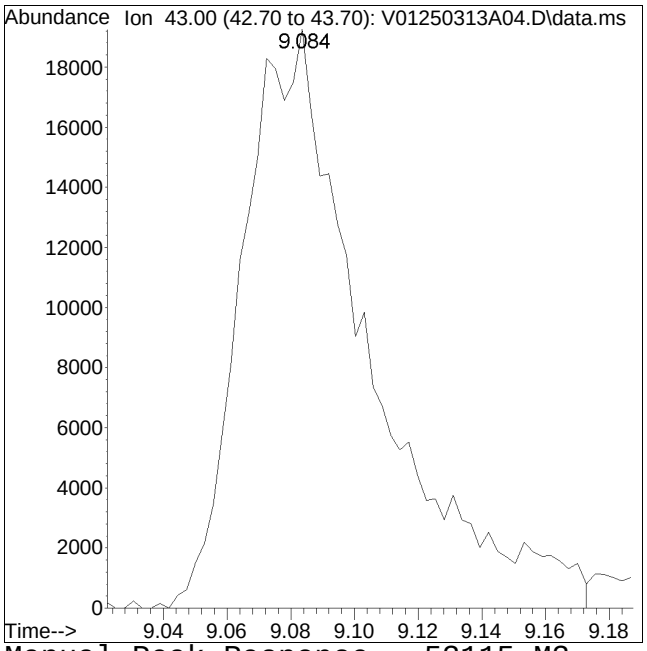
Manual Integration Report

Data Path	: K:\VOA101\2025\250313A\	QMethod	: V101_250208A_8260.m
Data File	: V01250313A04.D	Operator	: VOA101:PID
Date Inj'd	: 3/13/2025 8:22 am	Instrument	: VOA 101
Sample	: WG2040184-3,31,10,10	Quant Date	: 3/13/2025 9:14 am

Compound #72: 2-Hexanone



Original Peak Response = 19261



Manual Peak Response = 53115 M3

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

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A02.D
Acq On : 12 Mar 2025 9:51 am
Operator : ELAINE:PID
Sample : WG2039699-4,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2039699,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 12 10:31:52 2025
Quant Method : K:\Elaine\2025\250312A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250312A\VE250312A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.768	96	293639	10.000	ug/L	0.00
Standard Area 1 = 297682			Recovery = 98.64%			
63) Chlorobenzene-d5	9.275	117	220579	10.000	ug/L	0.00
Standard Area 1 = 223126			Recovery = 98.86%			
84) 1,4-Dichlorobenzene-d4	12.032	152	122323	10.000	ug/L	0.00
Standard Area 1 = 121415			Recovery = 100.75%			
System Monitoring Compounds						
39) Dibromofluoromethane	4.973	113	83649	10.438	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.38%			
47) 1,2-Dichloroethane-d4	5.491	65	90447	10.662	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.62%			
64) Toluene-d8	7.447	98	292798	10.033	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.33%			
88) 4-Bromofluorobenzene	10.799	95	104619	10.687	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.87%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.522	85	60217	7.970	ug/L	98
3) Chloromethane	1.702	50	57986	8.514	ug/L	99
4) Vinyl chloride	1.773	62	71923	8.132	ug/L	99
5) Bromomethane	2.062	94	44245	5.667	ug/L	96
6) Chloroethane	2.172	64	57529	8.495	ug/L	96
7) Trichlorofluoromethane	2.308	101	111564	7.316	ug/L	98
10) 1,1-Dichloroethene	2.774	96	66956	8.118	ug/L	94
11) Carbon disulfide	2.800	76	199664	8.588	ug/L	100
12) Freon-113	2.809	101	67855	8.569	ug/L	97
15) Methylene chloride	3.314	84	70848	10.246	ug/L	97
17) Acetone	3.349	43	11874	10.108	ug/L	95
18) trans-1,2-Dichloroethene	3.459	96	65899	10.189	ug/L	95
19) Methyl acetate	3.463	43	31784	10.851	ug/L	96
21) Methyl tert-butyl ether	3.555	73	142968	9.374	ug/L #	96
25) 1,1-Dichloroethane	4.029	63	125031	10.461	ug/L	99
30) cis-1,2-Dichloroethene	4.534	96	76324	10.126	ug/L	97
33) Bromochloromethane	4.727	128	36122	10.505	ug/L	98
34) Cyclohexane	4.736	56	110524	9.945	ug/L	97
35) Chloroform	4.802	83	123307	10.416	ug/L	99
37) Carbon tetrachloride	4.929	117	91289M6	10.421	ug/L	

Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A02.D
Acq On : 12 Mar 2025 9:51 am
Operator : ELAINE:PID
Sample : WG2039699-4,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2039699,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 12 10:31:52 2025
Quant Method : K:\Elaine\2025\250312A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250312A\VE250312A01.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) 1,1,1-Trichloroethane	4.991	97	97550	10.019	ug/L		98
42) 2-Butanone	5.088	43	19847	12.125	ug/L	#	80
45) Benzene	5.355	78	246500	9.458	ug/L		99
48) 1,2-Dichloroethane	5.557	62	83445	10.138	ug/L		99
51) Methyl cyclohexane	5.931	83	100473	8.679	ug/L		93
52) Trichloroethene	5.945	95	61541	9.731	ug/L		99
55) 1,2-Dichloropropane	6.483	63	64899	10.583	ug/L		99
58) Bromodichloromethane	6.565	83	86140	9.774	ug/L		99
62) cis-1,3-Dichloropropene	7.244	75	91575	9.598	ug/L		99
65) Toluene	7.506	92	149946	9.089	ug/L		98
66) 4-Methyl-2-pentanone	7.941	58	11603	8.247	ug/L		93
67) Tetrachloroethene	7.954	166	65289	10.288	ug/L		97
69) trans-1,3-Dichloropropene	7.990	75	72419	9.079	ug/L		99
72) 1,1,2-Trichloroethane	8.176	83	37956	9.163	ug/L		95
73) Chlorodibromomethane	8.380	129	55257	9.585	ug/L		98
75) 1,2-Dibromoethane	8.651	107	46608	9.830	ug/L		97
77) 2-Hexanone	8.941	43	19867	8.865	ug/L		97
78) Chlorobenzene	9.298	112	175251	9.339	ug/L		98
79) Ethylbenzene	9.339	91	303065	9.177	ug/L		99
81) p/m Xylene	9.529	106	248919	18.423	ug/L		100
82) o Xylene	10.072	106	244558	18.184	ug/L		98
83) Styrene	10.140	104	398491	17.395	ug/L		99
85) Bromoform	10.167	173	31016	8.992	ug/L		96
87) Isopropylbenzene	10.468	105	317538	9.411	ug/L		100
92) 1,1,2,2-Tetrachloroethane	11.054	83	53190	9.281	ug/L		98
105) 1,3-Dichlorobenzene	11.953	146	158061	9.650	ug/L		99
106) 1,4-Dichlorobenzene	12.046	146	152925	9.384	ug/L		99
109) 1,2-Dichlorobenzene	12.473	146	147245	9.570	ug/L		97
111) 1,2-Dibromo-3-chloropr...	13.253	155	8433	9.499	ug/L		90
114) 1,2,4-Trichlorobenzene	13.892	180	96340	9.930	ug/L		99
116) 1,2,3-Trichlorobenzene	14.350	180	85938	9.661	ug/L		99

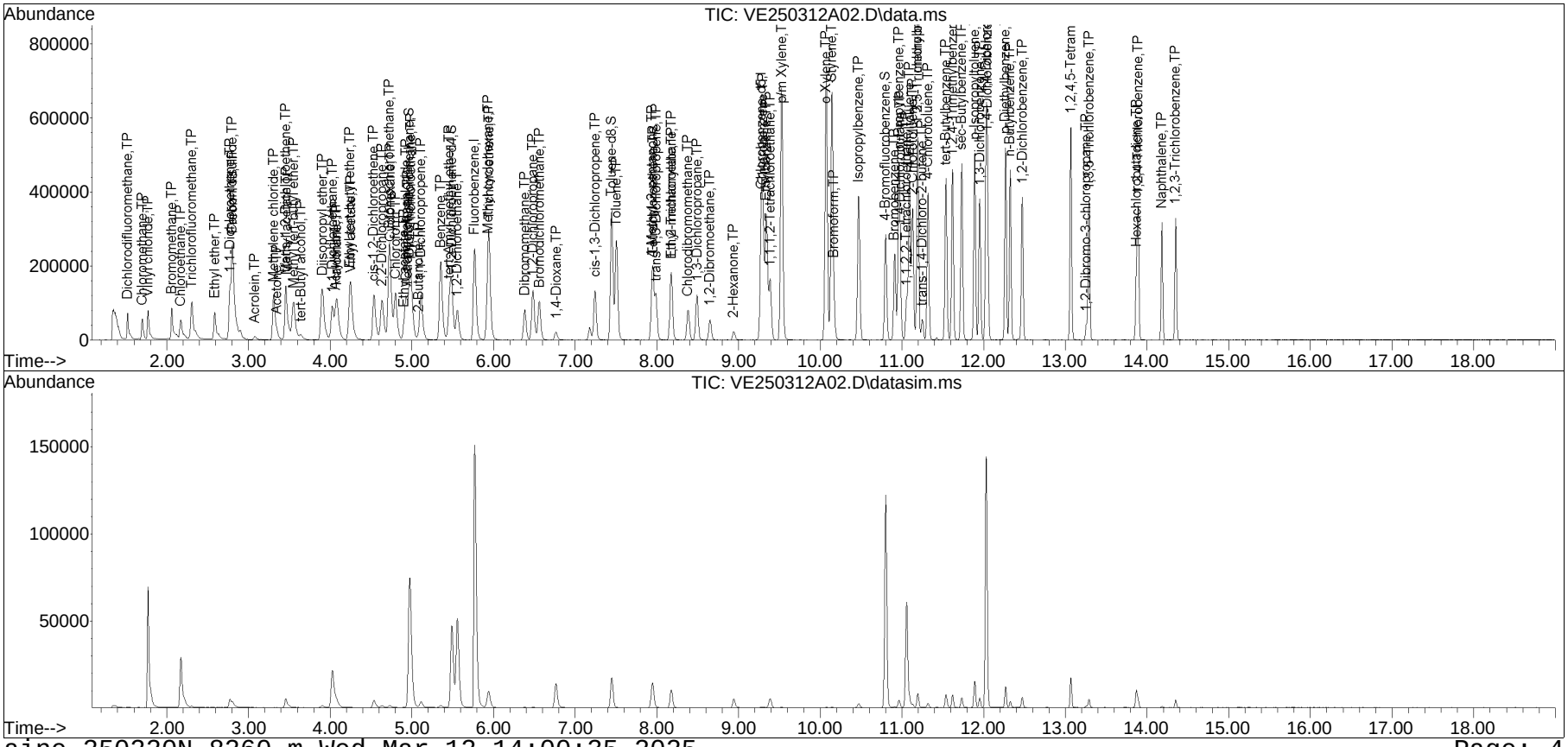
(#) = qualifier out of range (m) = manual integration (+) = signals summed

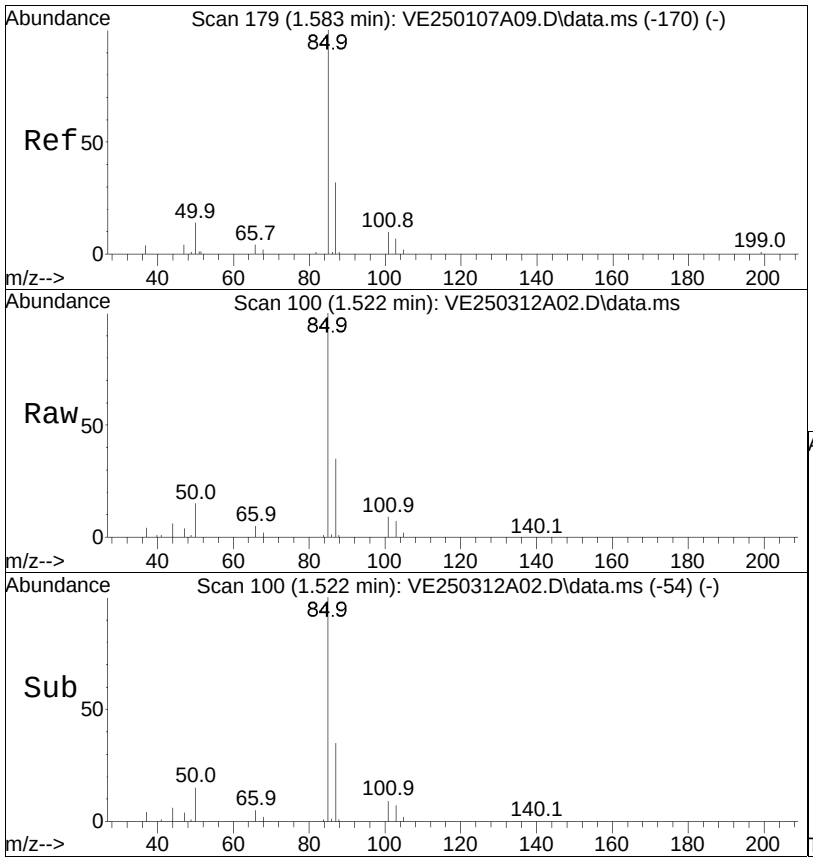
Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A02.D
Acq On : 12 Mar 2025 9:51 am
Operator : ELAINE:PID
Sample : WG2039699-4,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2039699,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 12 10:31:52 2025
Quant Method : K:\Elaine\2025\250312A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

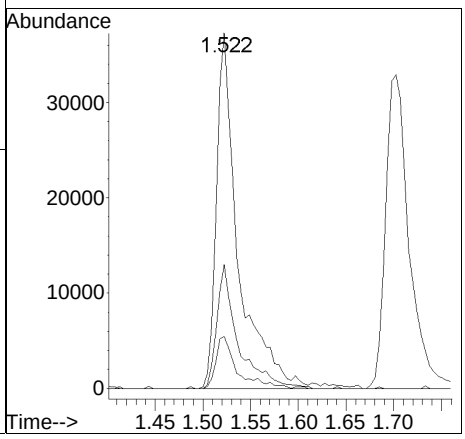


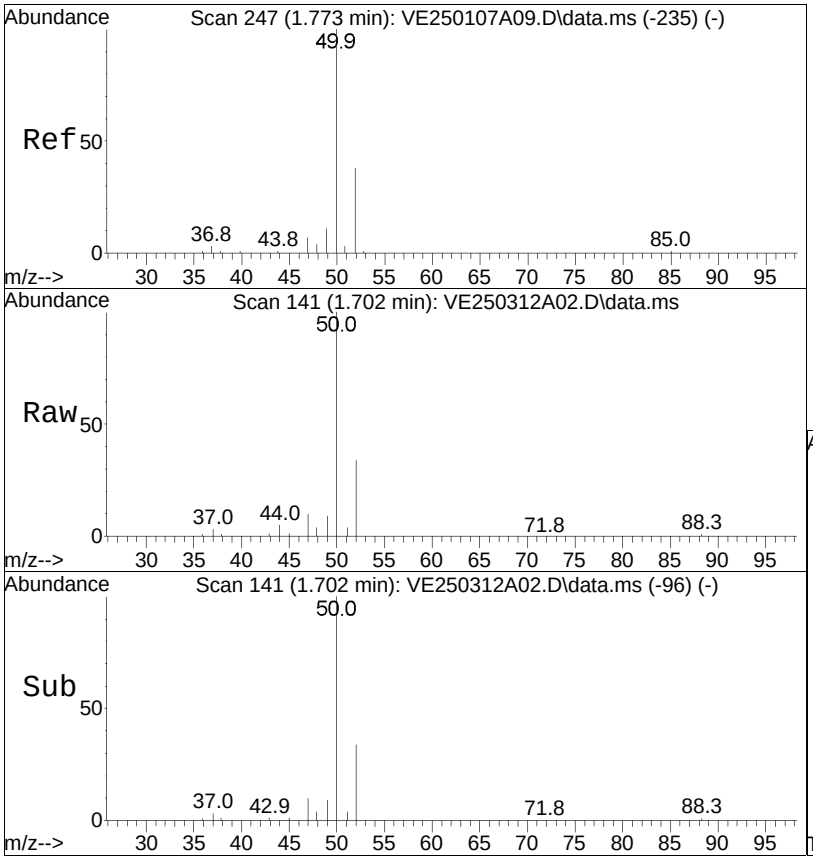


#2
Dichlorodifluoromethane
Concen: 7.97 ug/L
RT: 1.522 min Scan# 100
Delta R.T. 0.000 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion: 85 Resp: 60217

Ion	Ratio	Lower	Upper
85	100		
87	33.4	21.1	43.7
50	13.8	8.3	17.1

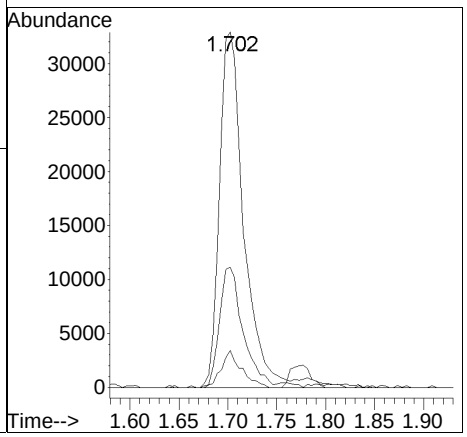


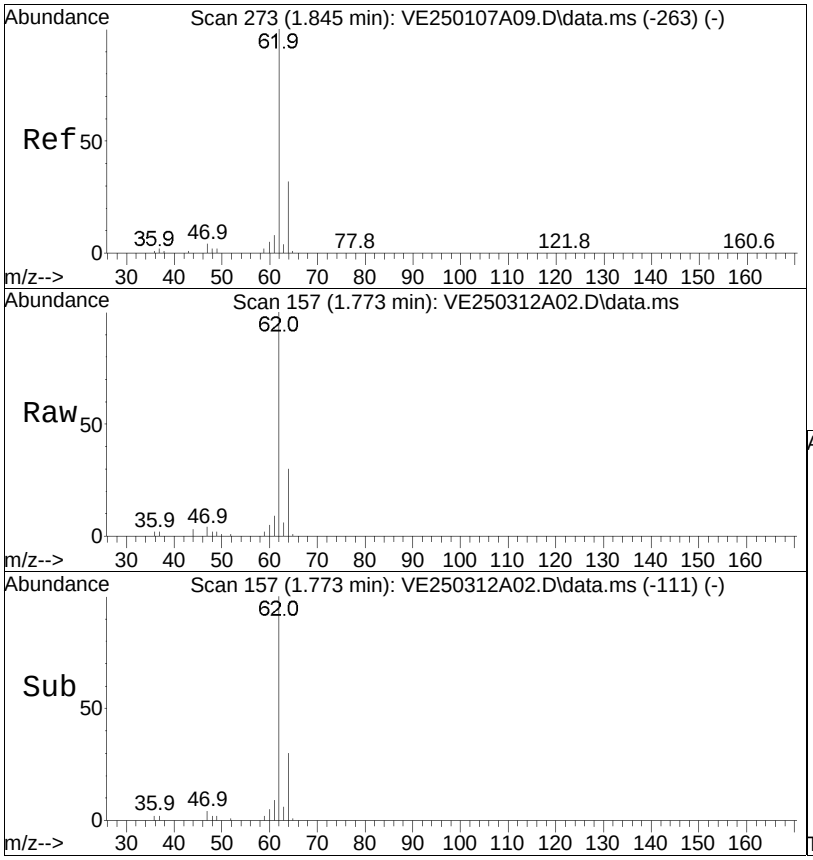


#3
Chloromethane
Concen: 8.51 ug/L
RT: 1.702 min Scan# 141
Delta R.T. -0.001 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion: 50 Resp: 57986

Ion	Ratio	Lower	Upper
50	100		
52	32.9	12.5	52.5
47	8.4	0.0	27.7

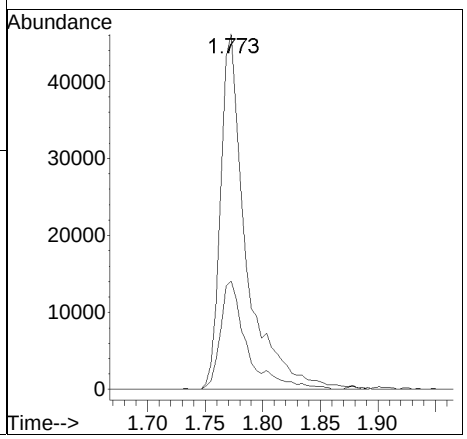


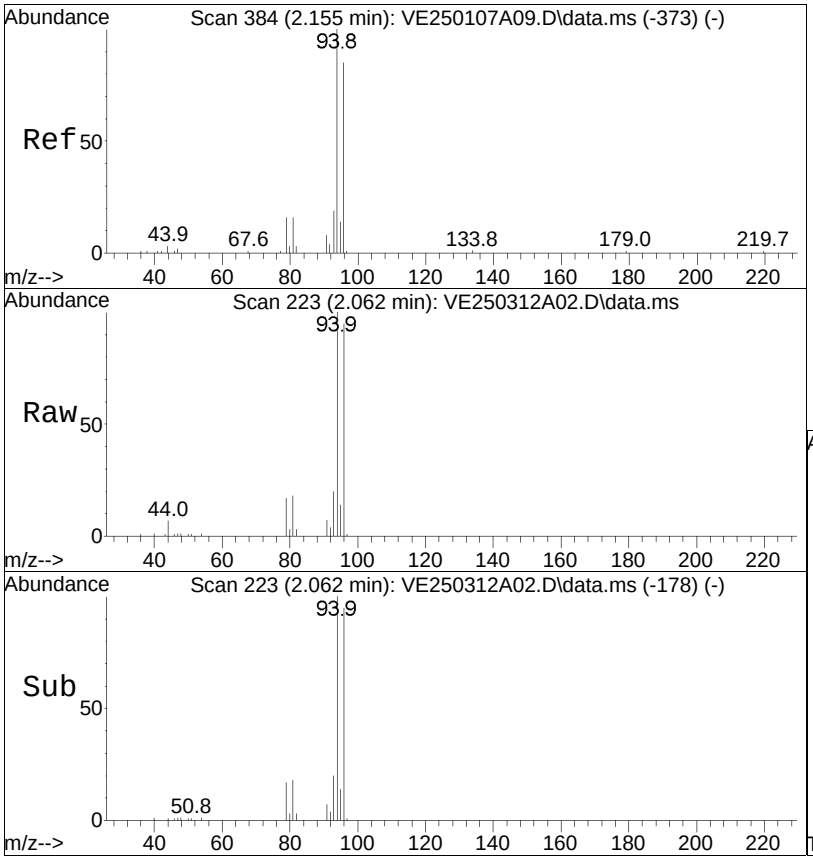


#4
Vinyl chloride
Concen: 8.13 ug/L
RT: 1.773 min Scan# 157
Delta R.T. 0.002 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion: 62 Resp: 71923

Ion	Ratio	Lower	Upper
62	100		
64	31.8	12.1	52.1

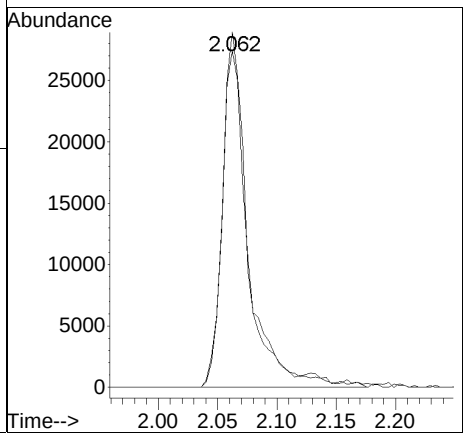


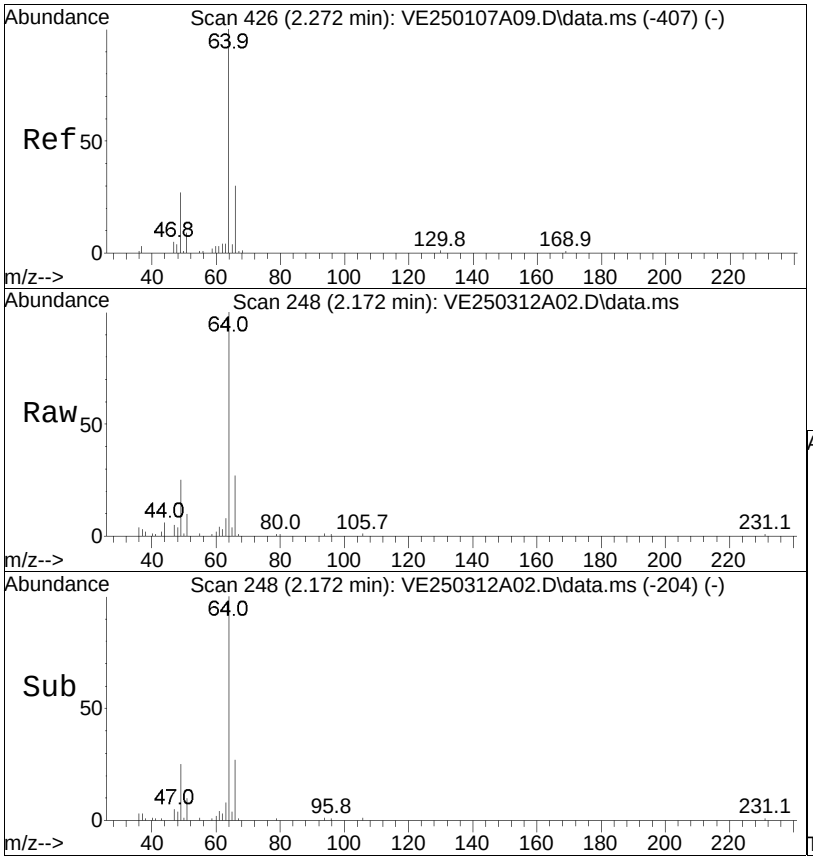


#5
Bromomethane
Concen: 5.67 ug/L
RT: 2.062 min Scan# 223
Delta R.T. -0.003 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion: 94 Resp: 44245

Ion	Ratio	Lower	Upper
94	100		
96	95.4	71.2	111.2

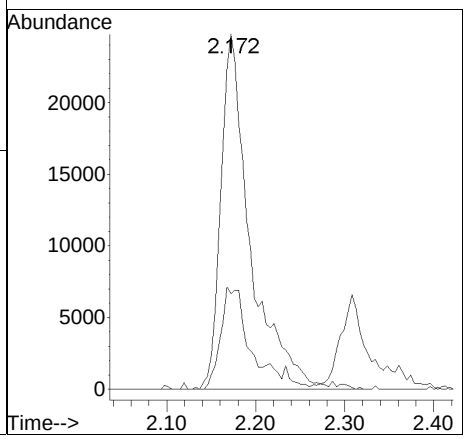


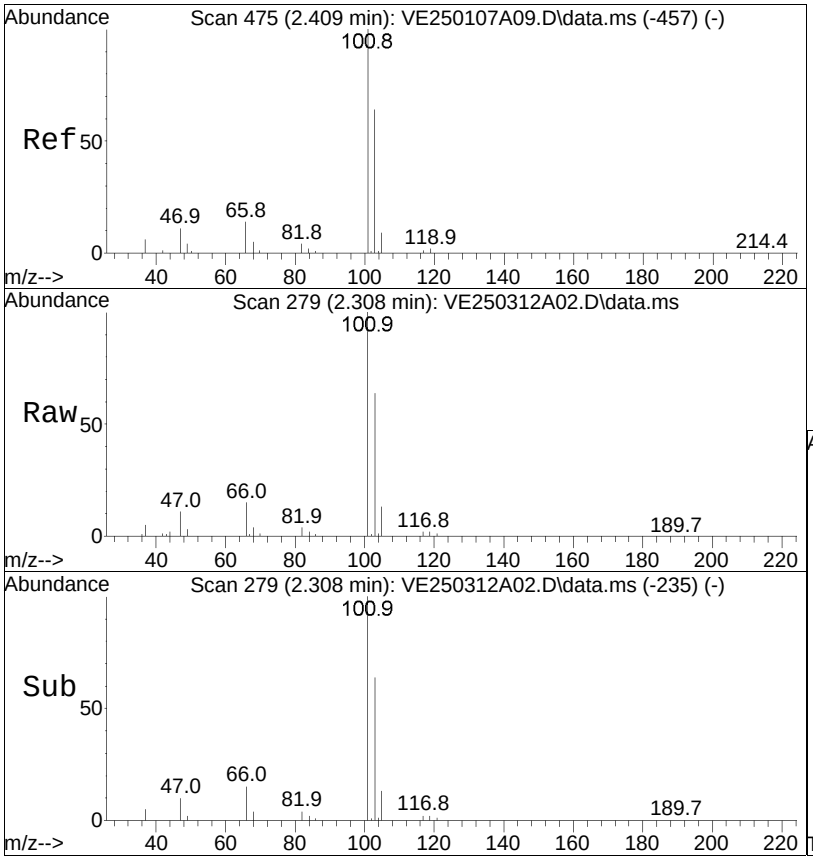


#6
Chloroethane
Concen: 8.50 ug/L
RT: 2.172 min Scan# 248
Delta R.T. -0.008 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion: 64 Resp: 57529

Ion	Ratio	Lower	Upper
64	100		
66	30.5	12.5	52.5

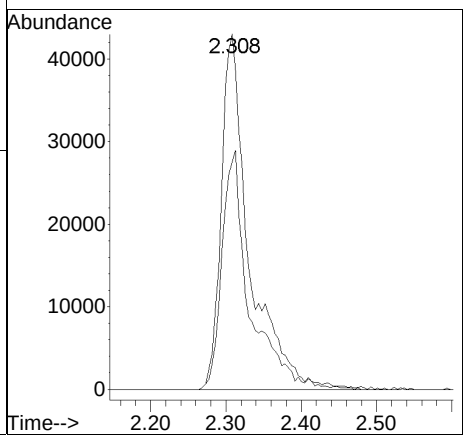


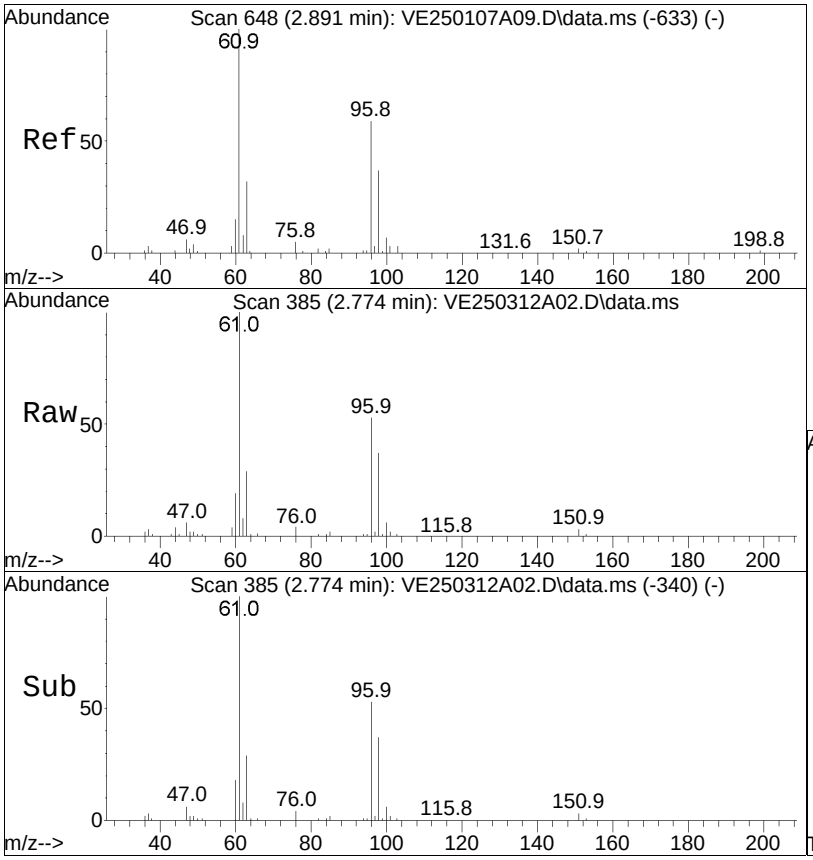


#7
Trichlorofluoromethane
Concen: 7.32 ug/L
RT: 2.308 min Scan# 279
Delta R.T. -0.006 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion:101 Resp: 111564

Ion	Ratio	Lower	Upper
101	100		
103	66.0	51.4	77.0

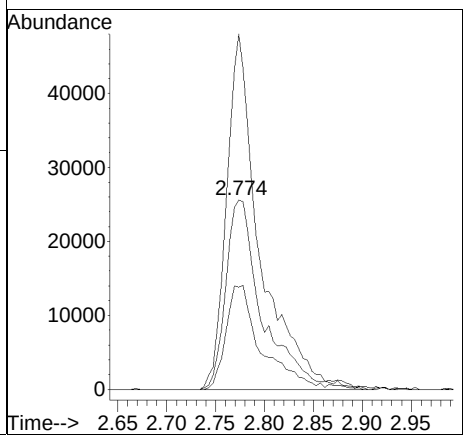


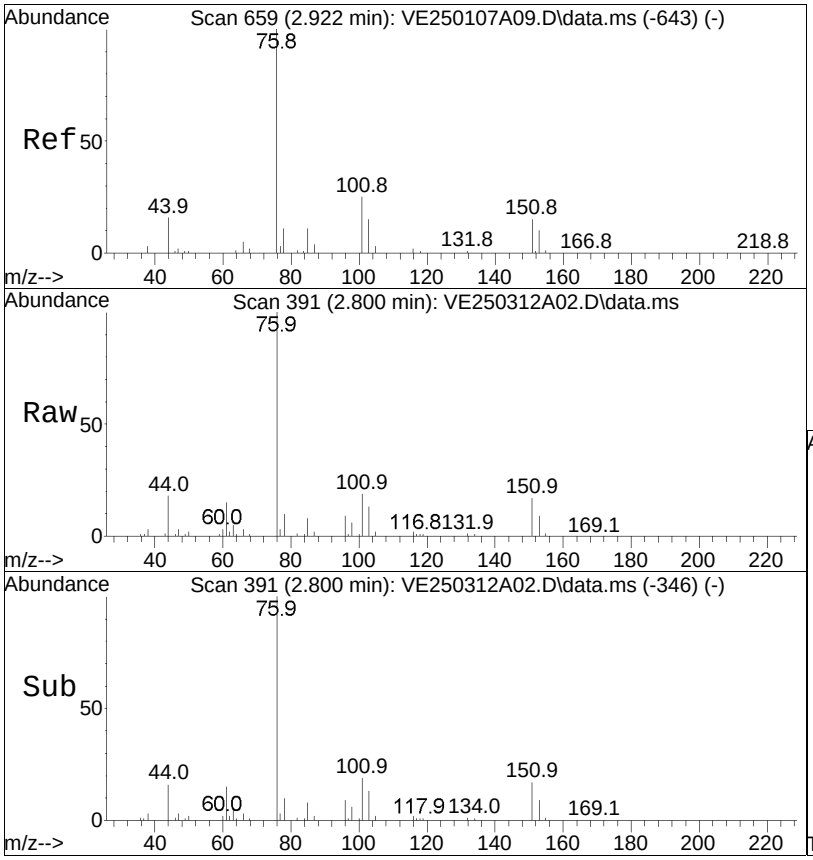


#10
1,1-Dichloroethene
Concen: 8.12 ug/L
RT: 2.774 min Scan# 385
Delta R.T. -0.003 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion: 96 Resp: 66956

Ion	Ratio	Lower	Upper
96	100		
61	171.1	129.0	193.6
63	54.2	41.7	62.5

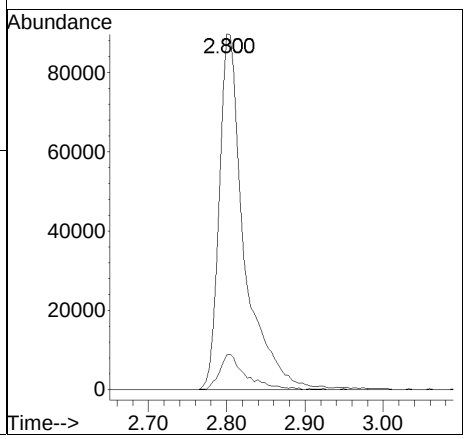


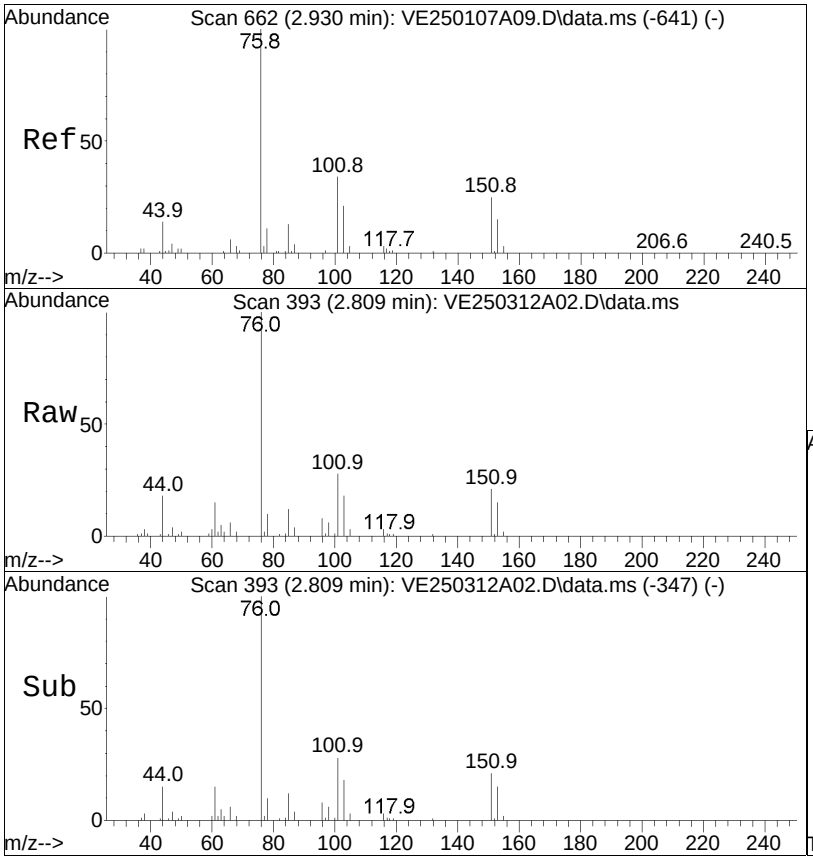


#11
Carbon disulfide
Concen: 8.59 ug/L
RT: 2.800 min Scan# 391
Delta R.T. -0.002 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion: 76 Resp: 199664

Ion	Ratio	Lower	Upper
76	100		
78	10.2	6.7	13.9

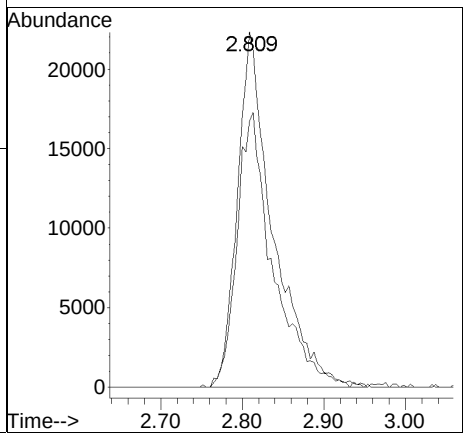


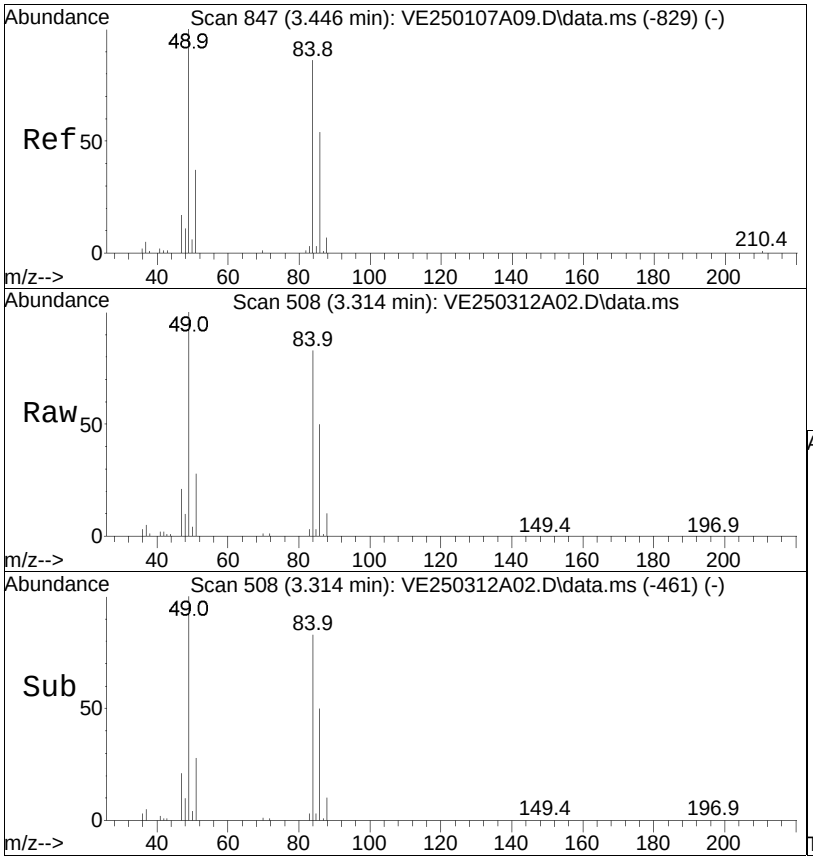


#12
Freon-113
Concen: 8.57 ug/L
RT: 2.809 min Scan# 393
Delta R.T. 0.002 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion:101 Resp: 67855

Ion	Ratio	Lower	Upper
101	100		
151	78.0	60.1	90.1

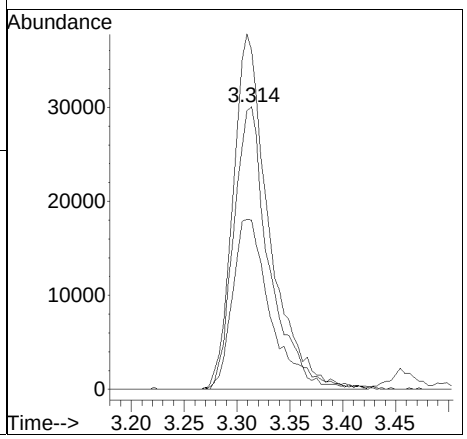


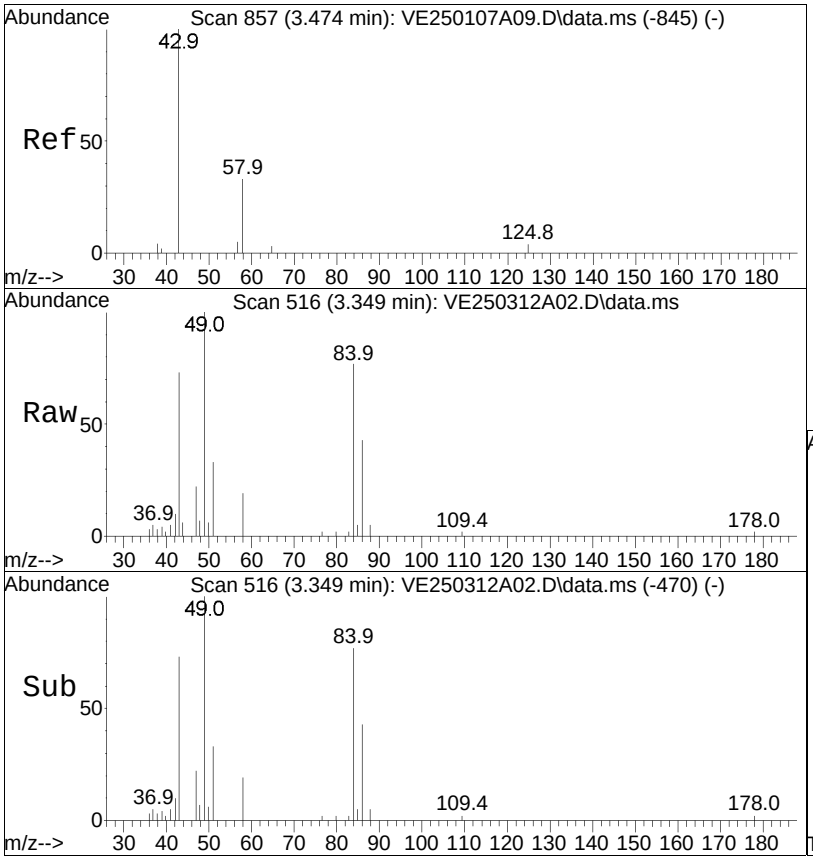


#15
Methylene chloride
Concen: 10.25 ug/L
RT: 3.314 min Scan# 508
Delta R.T. 0.004 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion: 84 Resp: 70848

Ion	Ratio	Lower	Upper
84	100		
86	64.2	42.1	87.3
49	127.5	79.9	165.9

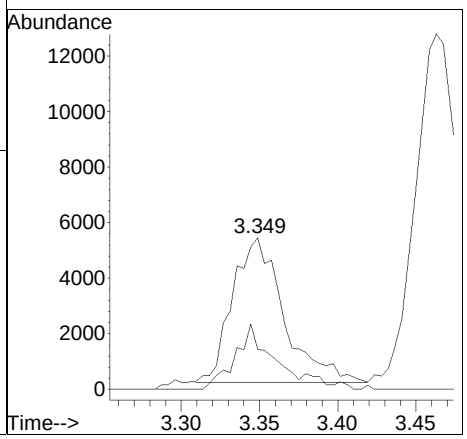


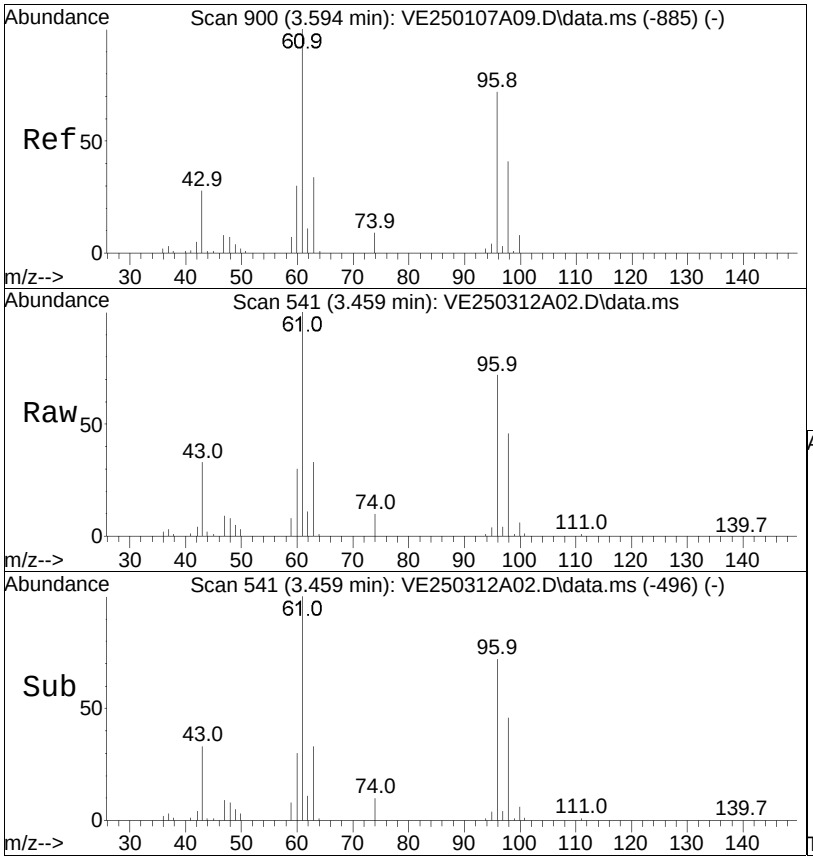


#17
Acetone
Concen: 10.11 ug/L
RT: 3.349 min Scan# 516
Delta R.T. 0.000 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion: 43 Resp: 11874

Ion	Ratio	Lower	Upper
43	100		
58	36.4	26.6	40.0

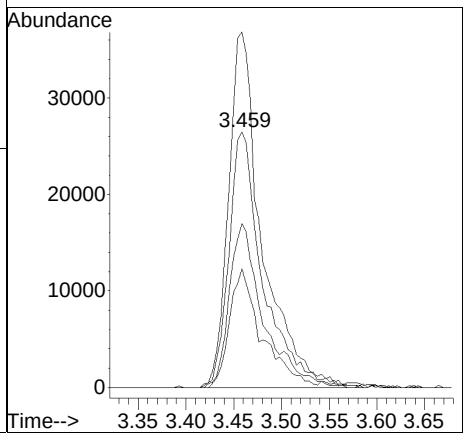


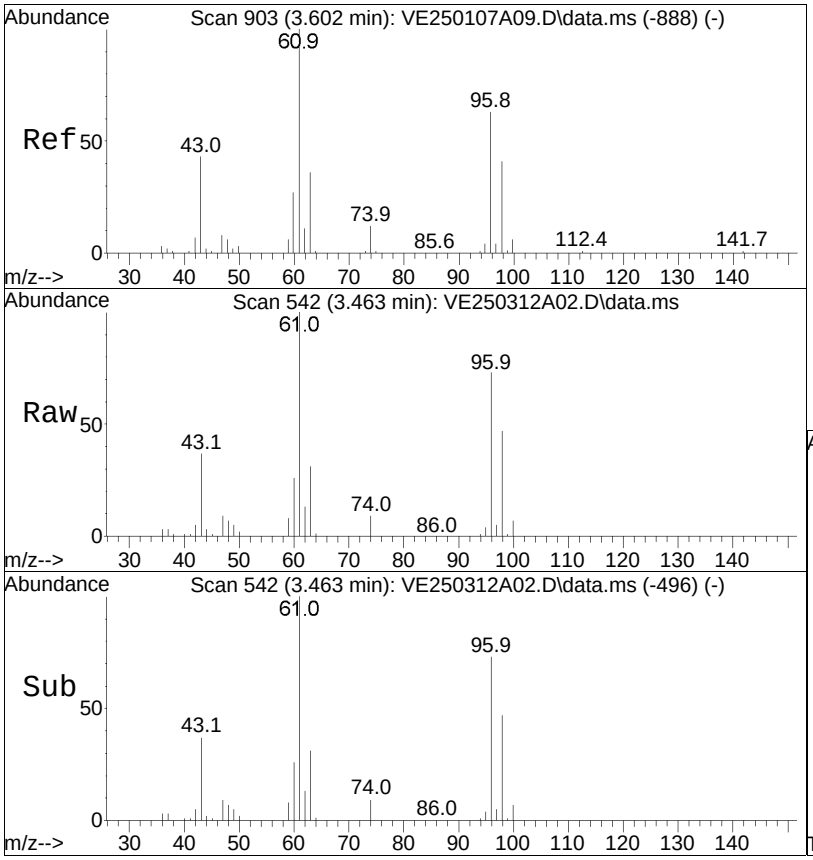


#18
trans-1,2-Dichloroethene
Concen: 10.19 ug/L
RT: 3.459 min Scan# 541
Delta R.T. -0.004 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion: 96 Resp: 65899

Ion	Ratio	Lower	Upper
96	100		
61	137.4	84.8	176.2
98	64.3	42.0	87.2
63	44.8	26.4	54.8

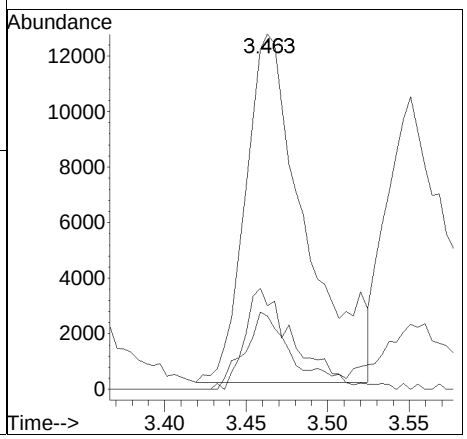


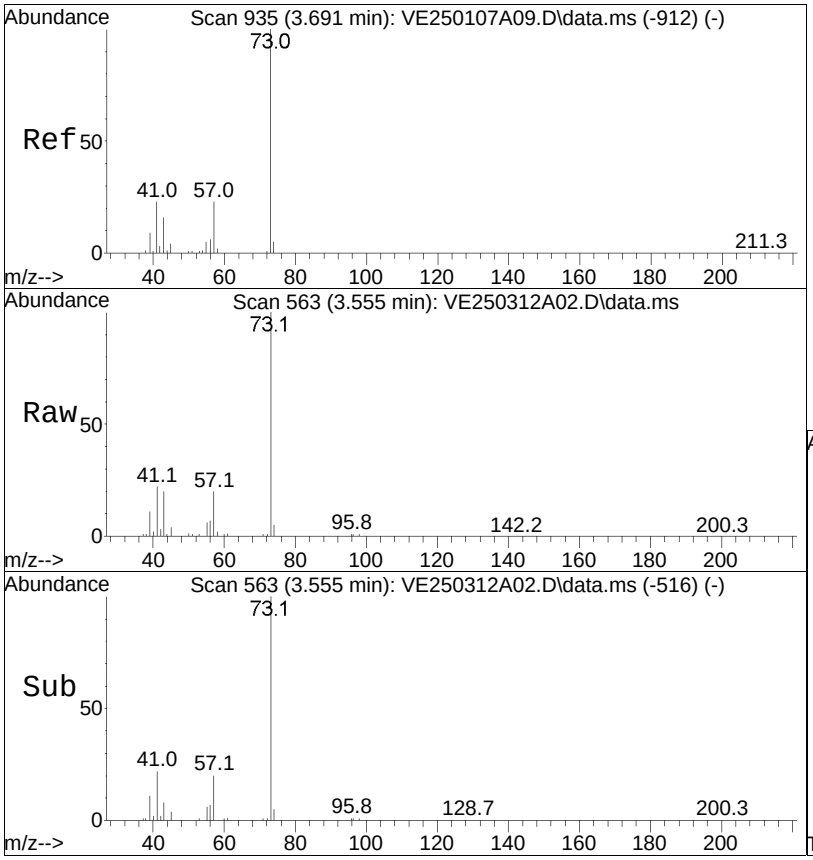


#19
Methyl acetate
Concen: 10.85 ug/L
RT: 3.463 min Scan# 542
Delta R.T. 0.000 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion: 43 Resp: 31784

Ion	Ratio	Lower	Upper
43	100		
74	23.8	21.0	31.4
59	18.9	16.6	24.8

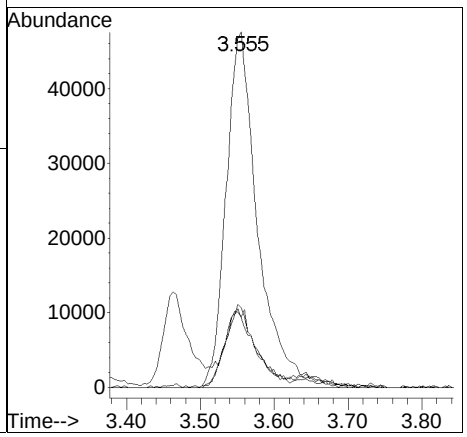


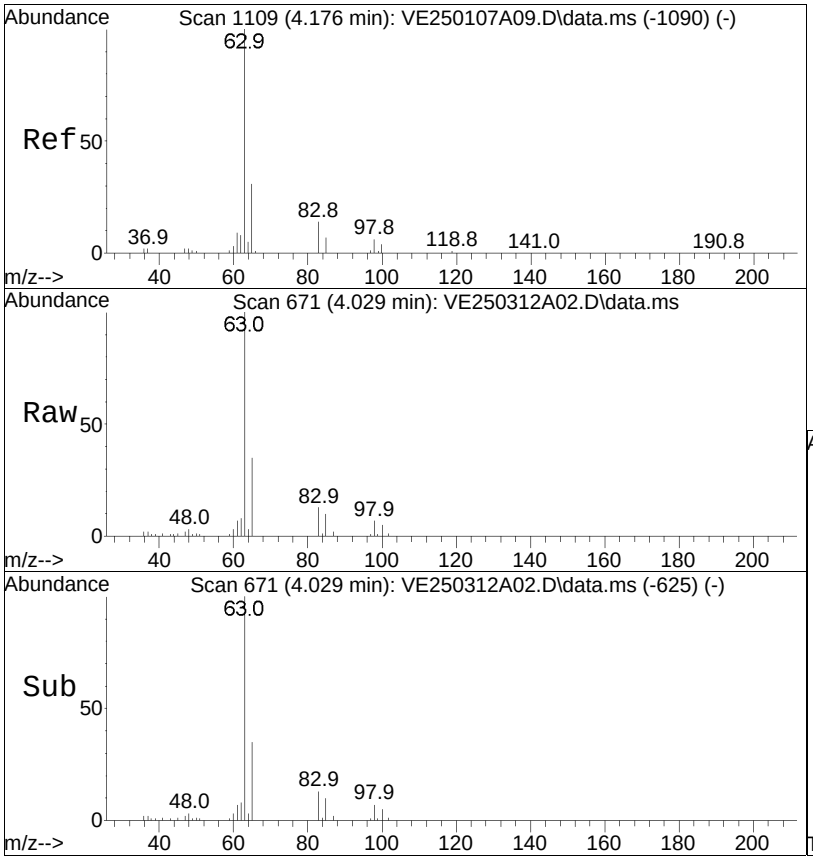


#21
Methyl tert-butyl ether
Concen: 9.37 ug/L
RT: 3.555 min Scan# 563
Delta R.T. 0.006 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion: 73 Resp: 142968

Ion	Ratio	Lower	Upper
73	100		
57	23.7	15.2	31.6
43	23.0	0.0	0.0#
41	26.0	14.4	30.0

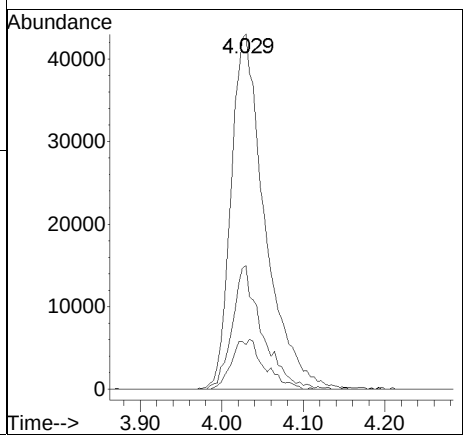


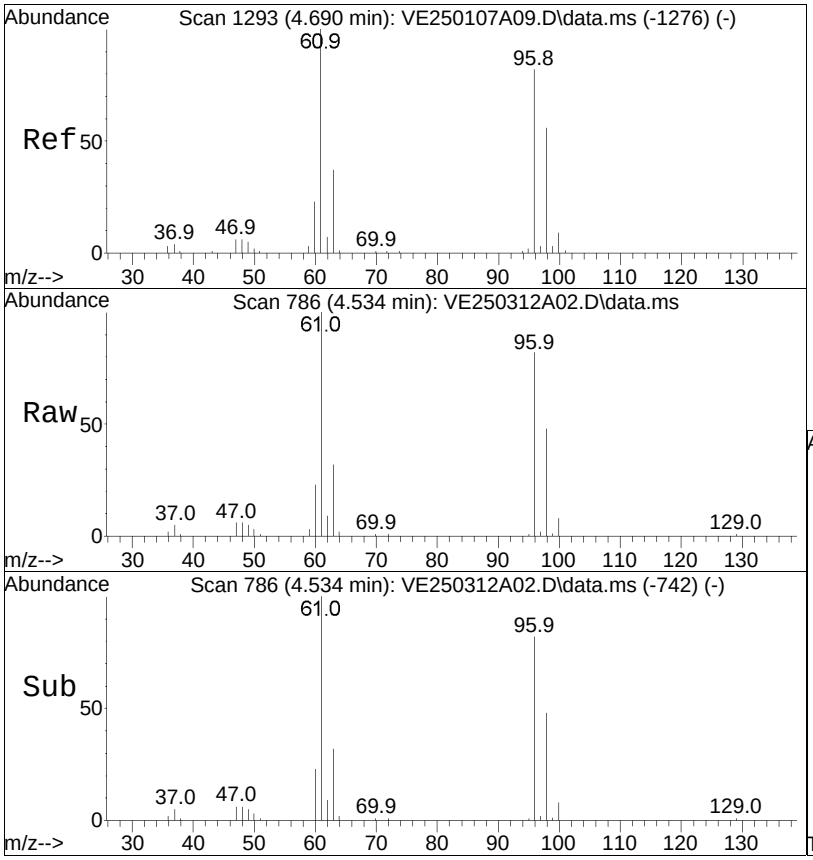


#25
1,1-Dichloroethane
Concen: 10.46 ug/L
RT: 4.029 min Scan# 671
Delta R.T. 0.001 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion: 63 Resp: 125031

Ion	Ratio	Lower	Upper
63	100		
65	30.7	11.7	51.7
83	13.6	0.0	33.3

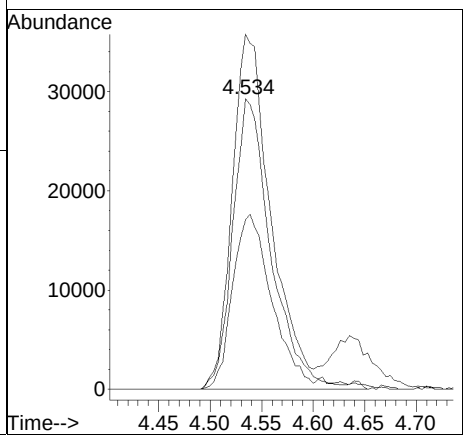


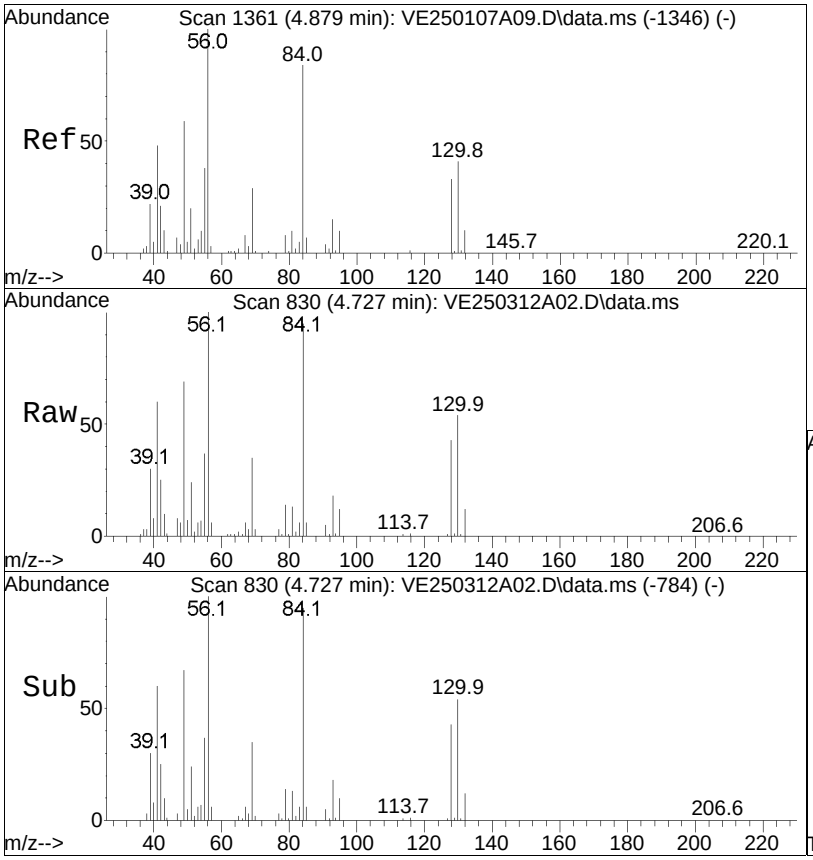


#30
cis-1,2-Dichloroethene
Concen: 10.13 ug/L
RT: 4.534 min Scan# 786
Delta R.T. -0.005 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion: 96 Resp: 76324

Ion	Ratio	Lower	Upper
96	100		
61	143.1	111.0	166.6
98	64.2	50.3	75.5

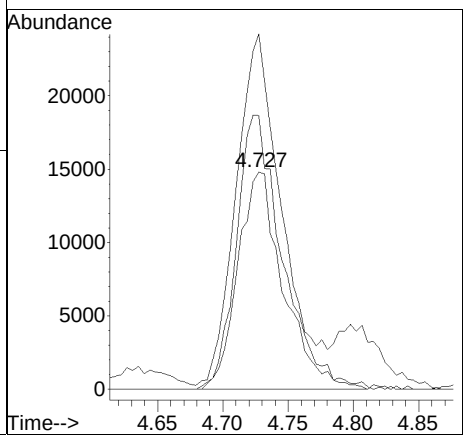


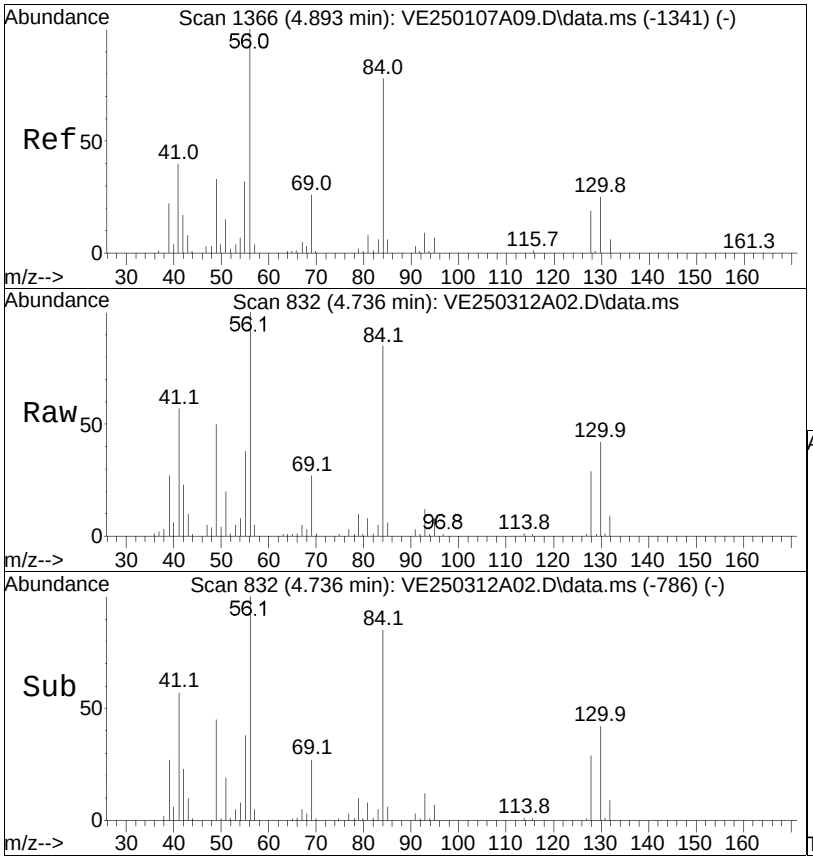


#33
Bromochloromethane
Concen: 10.50 ug/L
RT: 4.727 min Scan# 830
Delta R.T. 0.001 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion:128 Resp: 36122

Ion	Ratio	Lower	Upper
128	100		
49	195.3	152.6	228.8
130	127.3	101.8	152.6

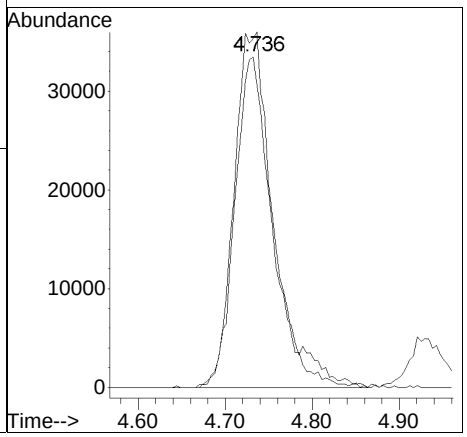


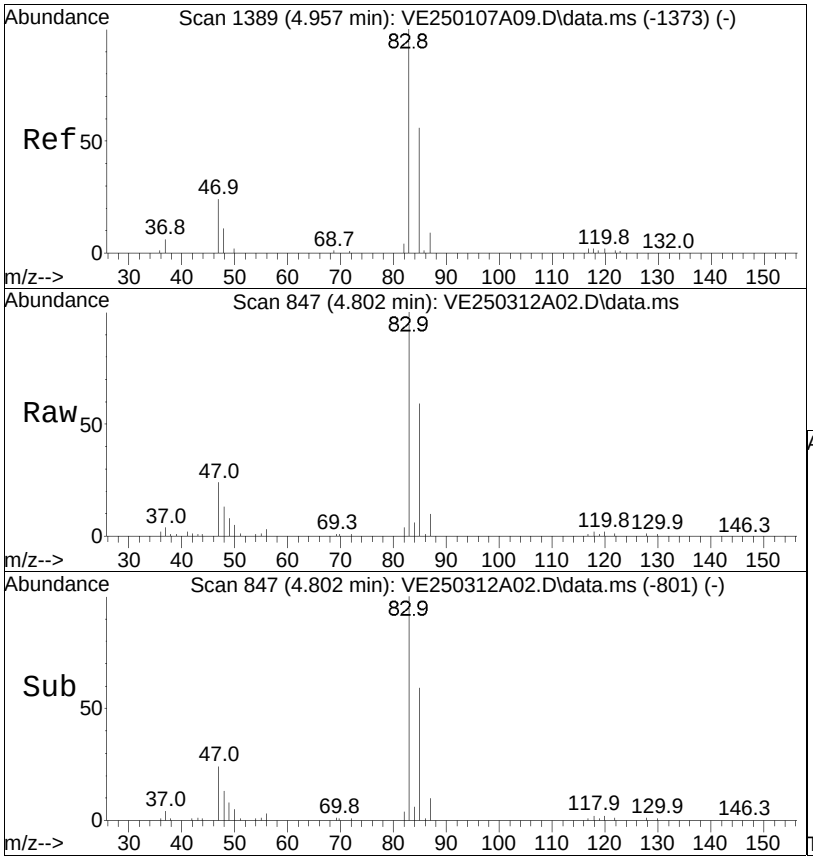


#34
Cyclohexane
Concen: 9.95 ug/L
RT: 4.736 min Scan# 832
Delta R.T. 0.002 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion: 56 Resp: 110524

Ion	Ratio	Lower	Upper
56	100		
84	94.1	62.9	130.7

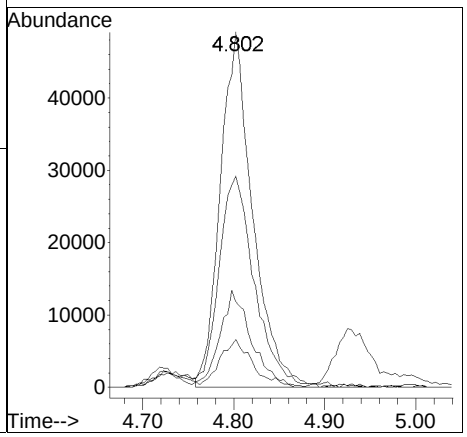


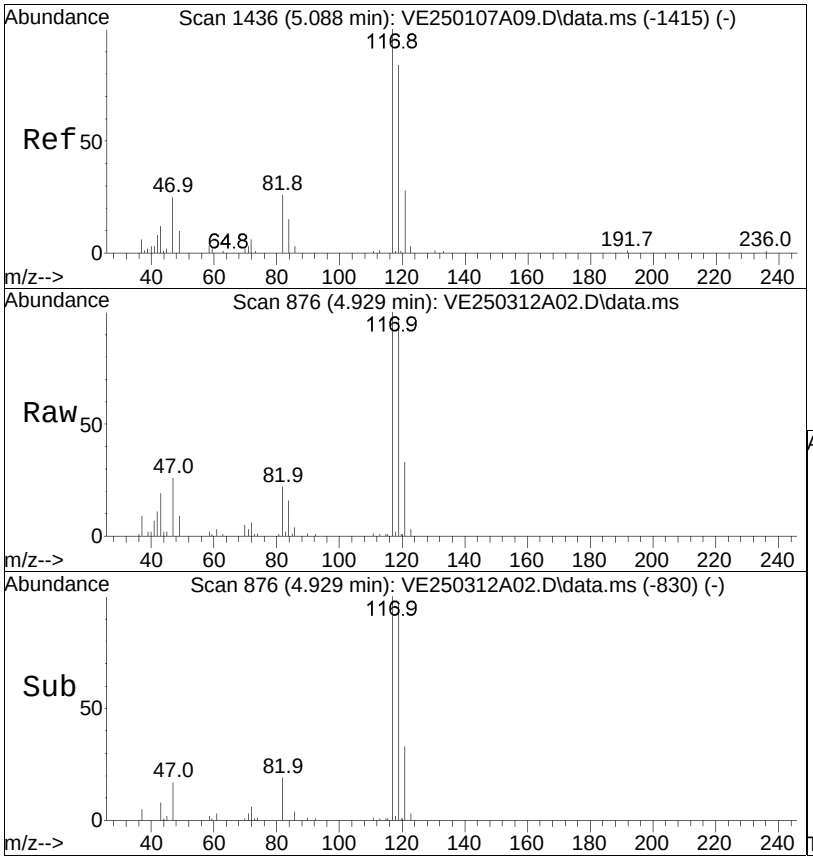


#35
Chloroform
Concen: 10.42 ug/L
RT: 4.802 min Scan# 847
Delta R.T. 0.001 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion: 83 Resp: 123307

Ion	Ratio	Lower	Upper
83	100		
85	64.5	42.5	88.3
47	26.1	16.8	35.0
48	13.6	9.2	19.2

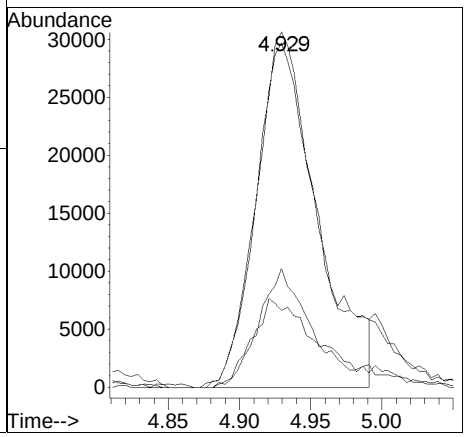


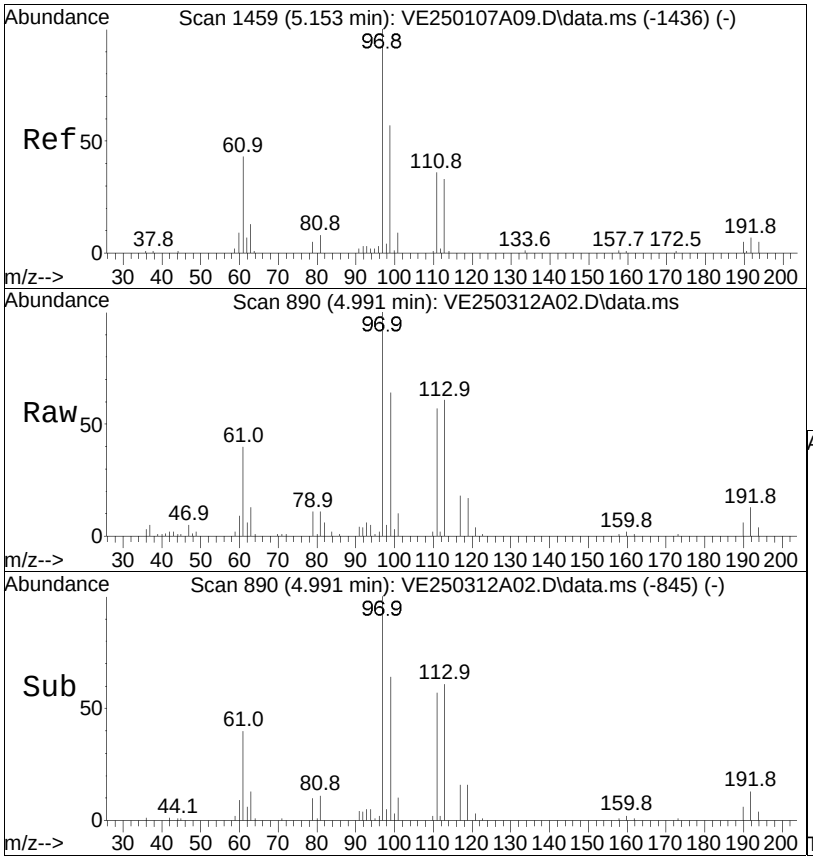


#37
Carbon tetrachloride
Concen: 10.42 ug/L M6
RT: 4.929 min Scan# 876
Delta R.T. -0.000 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion:117 Resp: 91289

Ion	Ratio	Lower	Upper
117	100		
119	106.8	70.2	145.8
121	33.7	22.9	47.7
82	28.4	19.7	40.9

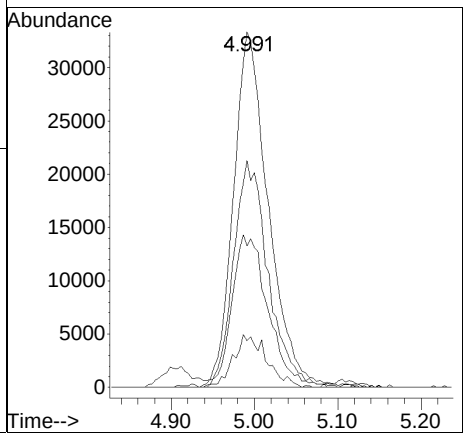


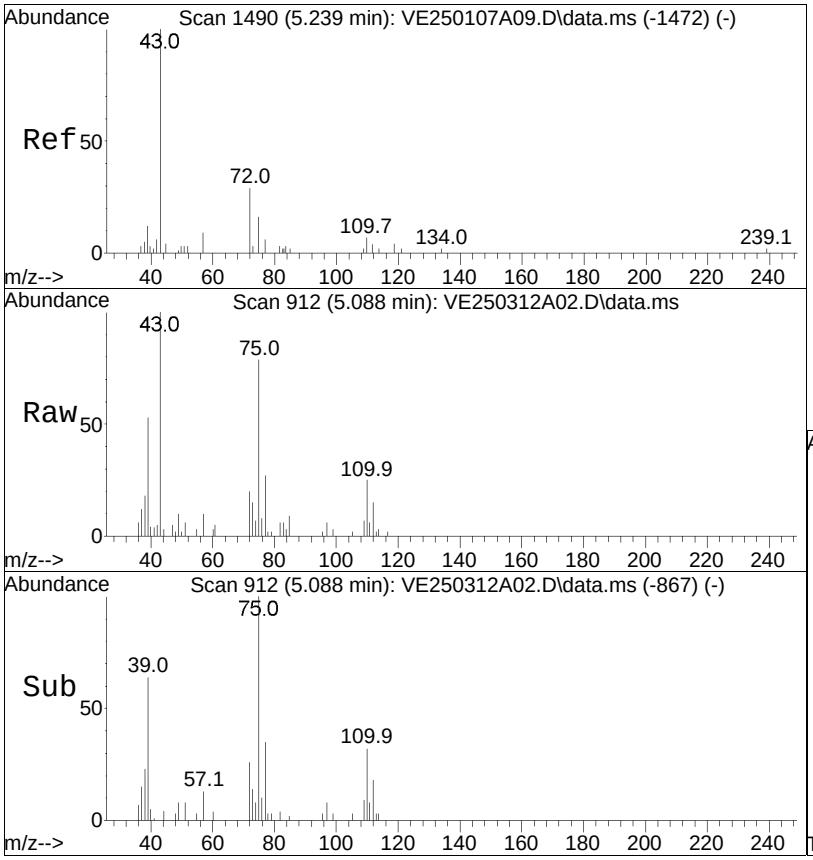


#40
1,1,1-Trichloroethane
Concen: 10.02 ug/L
RT: 4.991 min Scan# 890
Delta R.T. -0.003 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion: 97 Resp: 97550

Ion	Ratio	Lower	Upper
97	100		
99	63.2	42.4	88.2
61	44.1	29.0	60.2
63	14.1	9.4	19.6

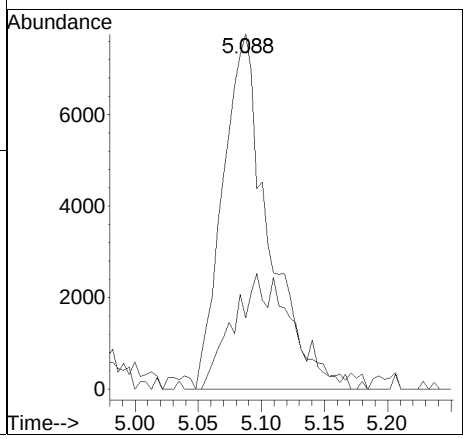


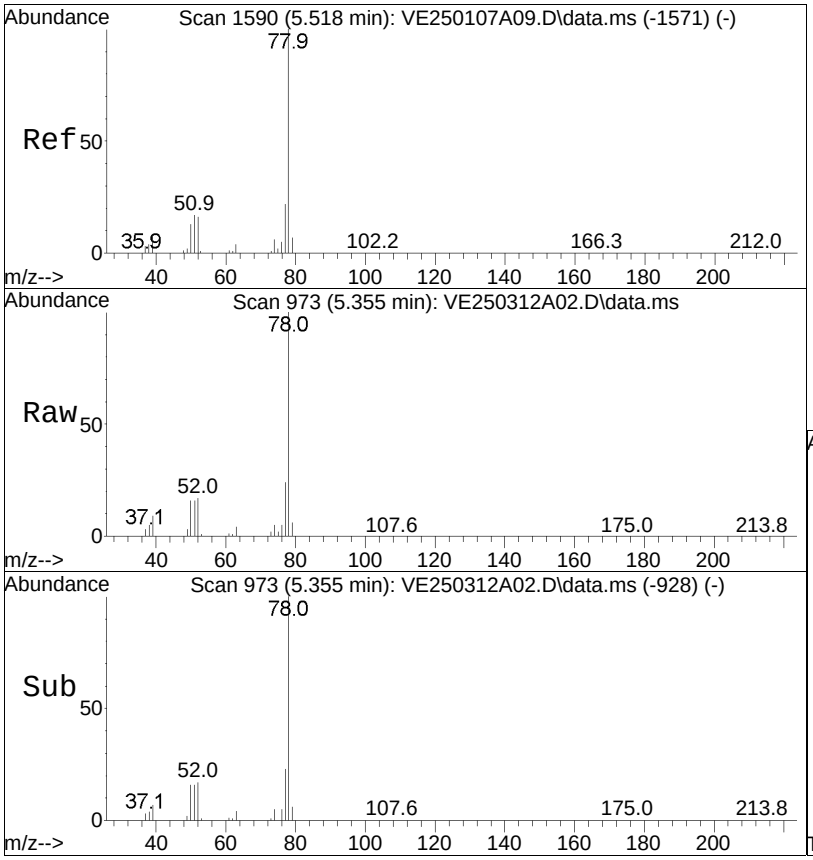


#42
2-Butanone
Concen: 12.12 ug/L
RT: 5.088 min Scan# 912
Delta R.T. -0.001 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion: 43 Resp: 19847

Ion	Ratio	Lower	Upper
43	100		
72	41.2	44.9	67.3#

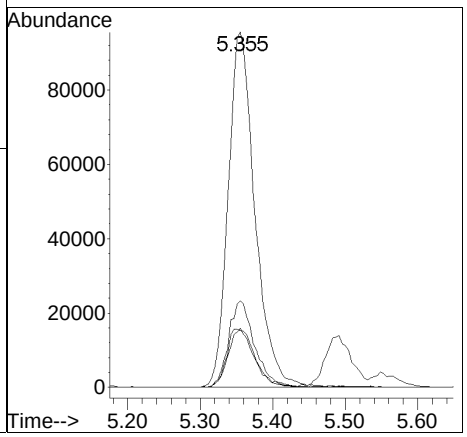


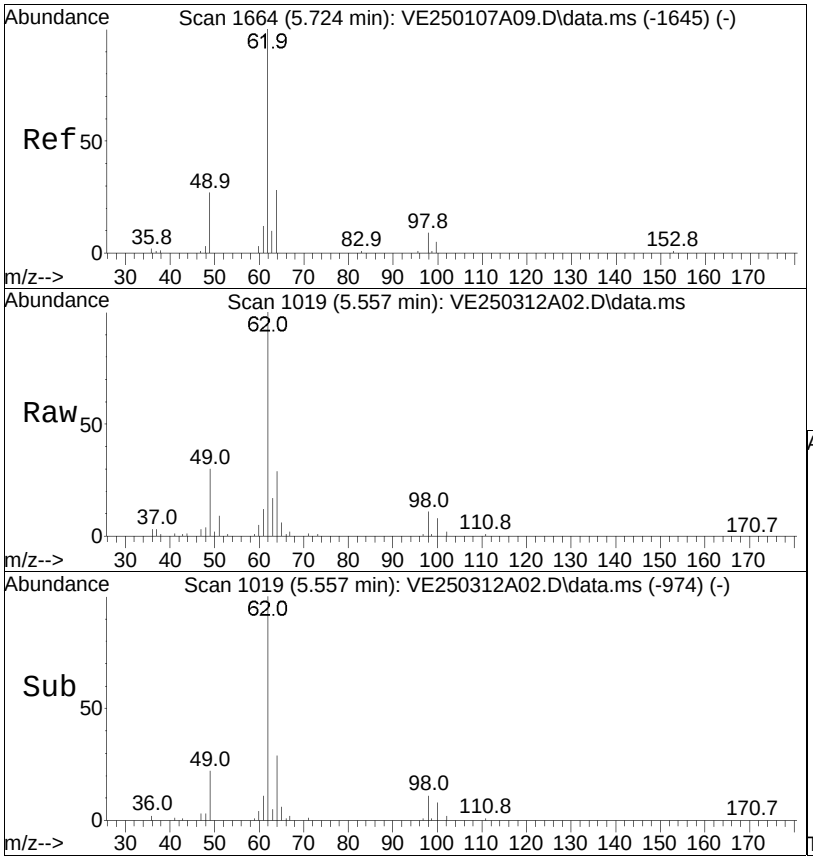


#45
Benzene
Concen: 9.46 ug/L
RT: 5.355 min Scan# 973
Delta R.T. -0.004 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion: 78 Resp: 246500

Ion	Ratio	Lower	Upper
78	100		
77	23.6	15.3	31.9
51	17.5	10.9	22.5
52	16.0	9.6	19.8

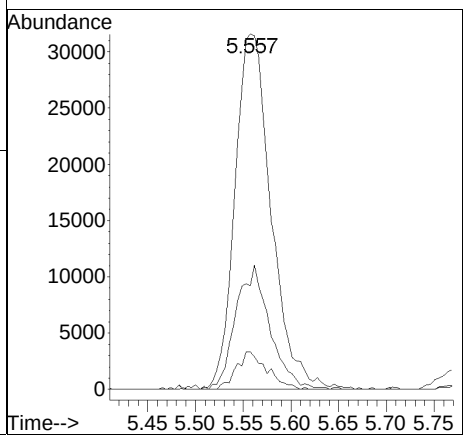


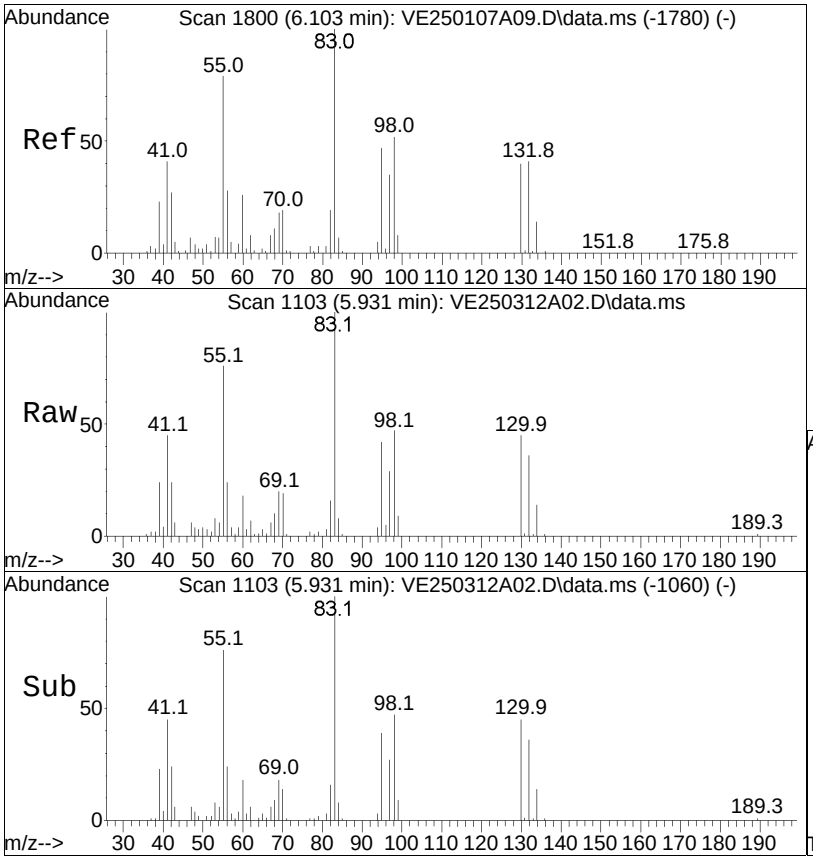


#48
1,2-Dichloroethane
Concen: 10.14 ug/L
RT: 5.557 min Scan# 1019
Delta R.T. -0.003 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion: 62 Resp: 83445

Ion	Ratio	Lower	Upper
62	100		
64	32.9	13.2	53.2
98	9.1	0.0	29.9

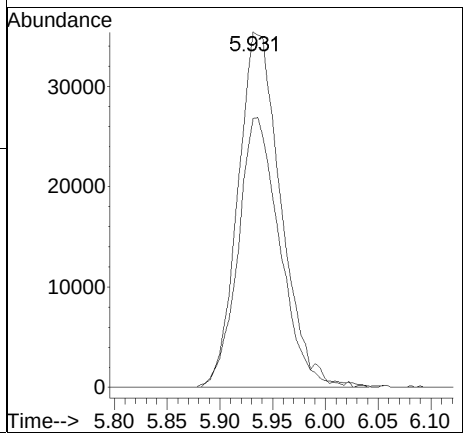


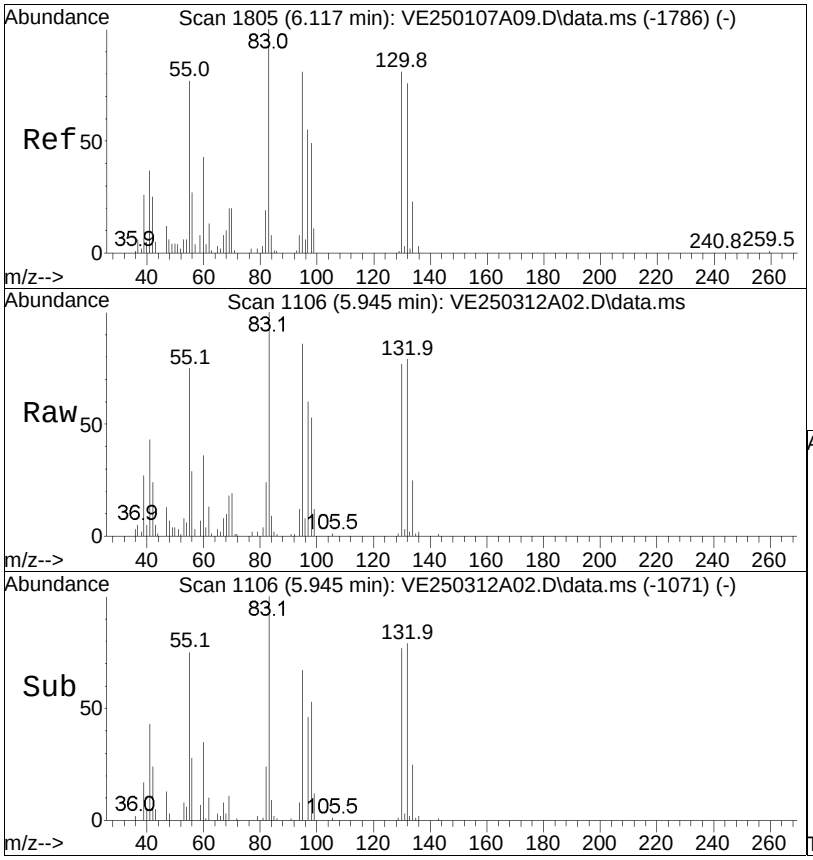


#51
Methyl cyclohexane
Concen: 8.68 ug/L
RT: 5.931 min Scan# 1103
Delta R.T. -0.008 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion: 83 Resp: 100473

Ion	Ratio	Lower	Upper
83	100		
55	73.9	54.4	81.6

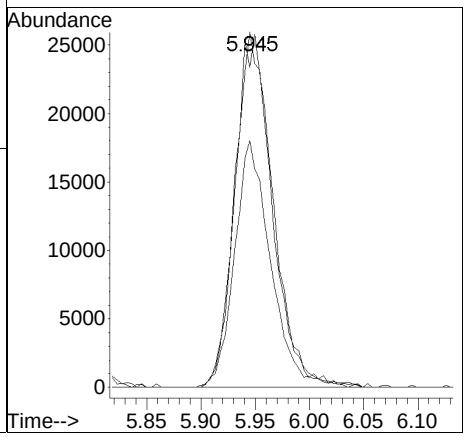


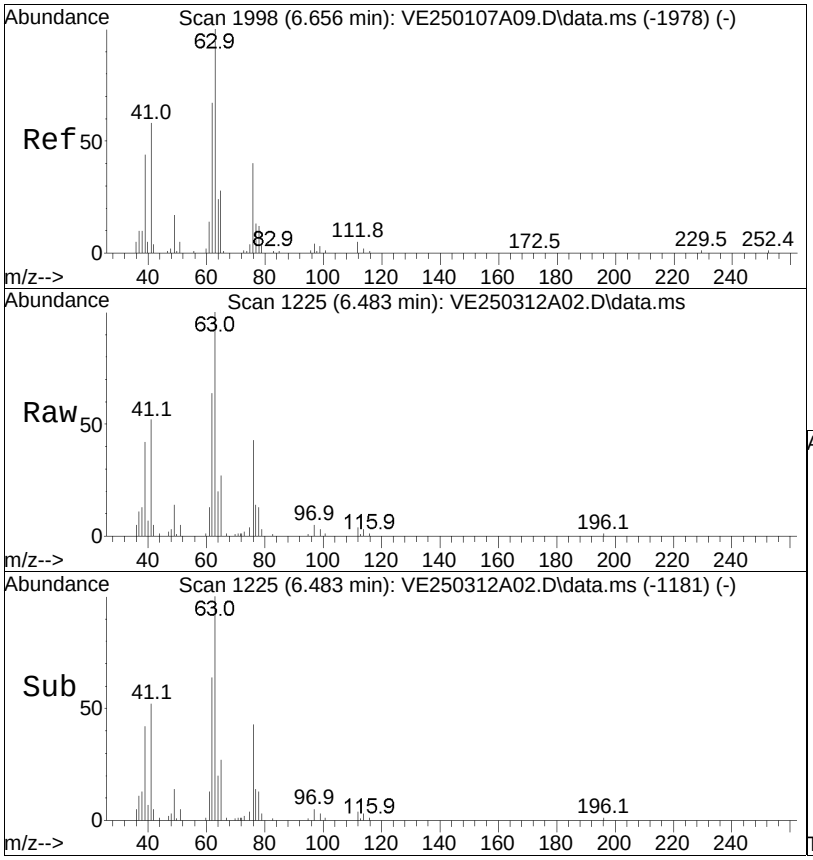


#52
Trichloroethene
Concen: 9.73 ug/L
RT: 5.945 min Scan# 1106
Delta R.T. -0.002 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion: 95 Resp: 61541

Ion	Ratio	Lower	Upper
95	100		
97	67.8	54.3	81.5
130	103.9	82.5	123.7

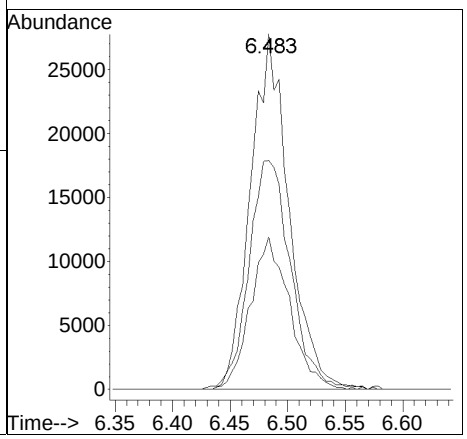


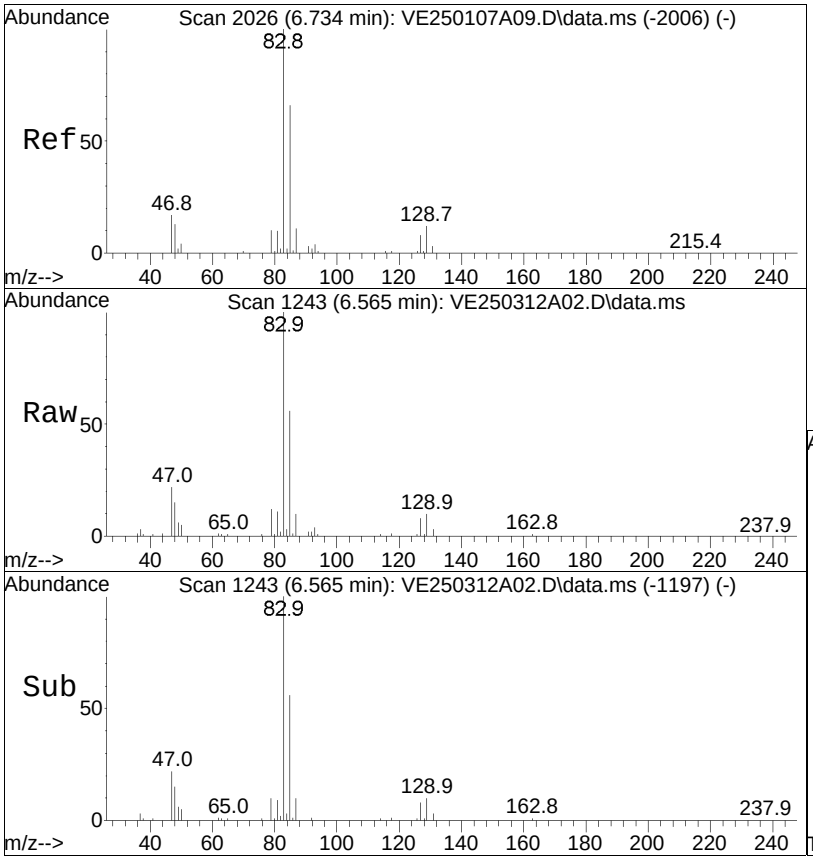


#55
1,2-Dichloropropane
Concen: 10.58 ug/L
RT: 6.483 min Scan# 1225
Delta R.T. -0.002 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion: 63 Resp: 64899

Ion	Ratio	Lower	Upper
63	100		
62	69.4	56.2	84.4
76	43.5	34.8	52.2

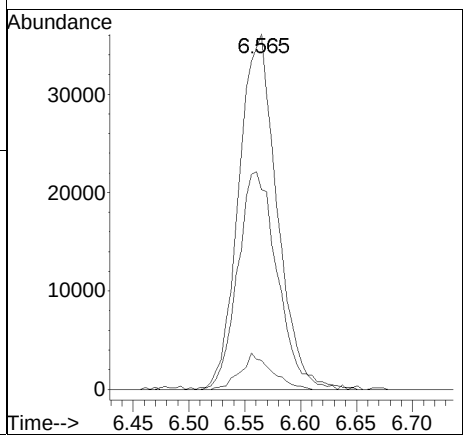


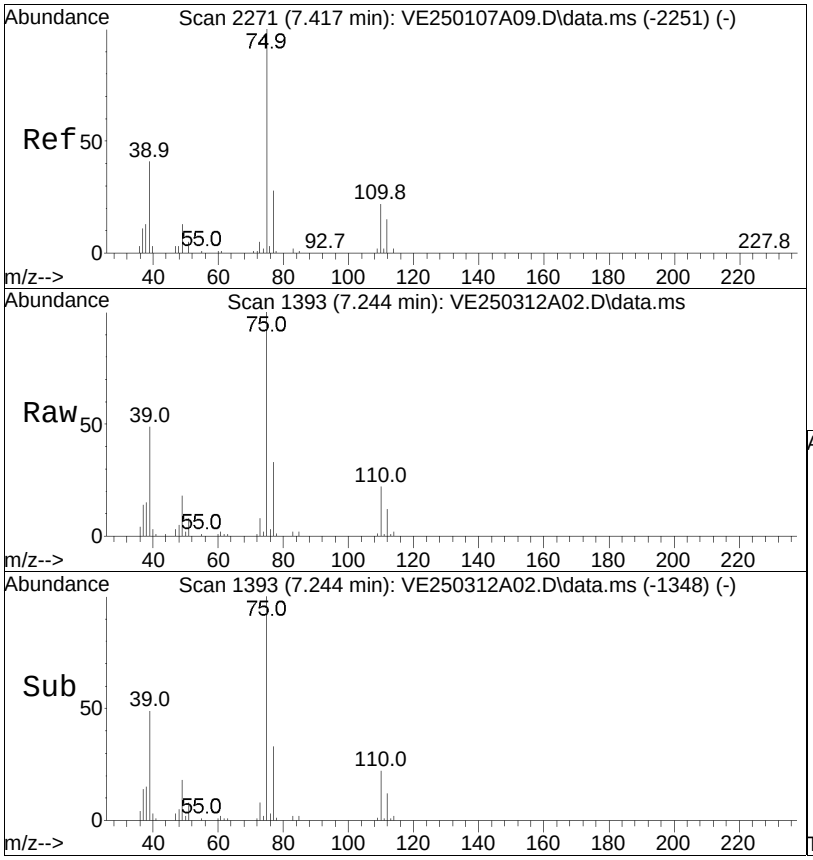


#58
Bromodichloromethane
Concen: 9.77 ug/L
RT: 6.565 min Scan# 1243
Delta R.T. 0.007 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion: 83 Resp: 86140

Ion	Ratio	Lower	Upper
83	100		
85	63.1	51.0	76.6
127	8.3	7.0	10.4

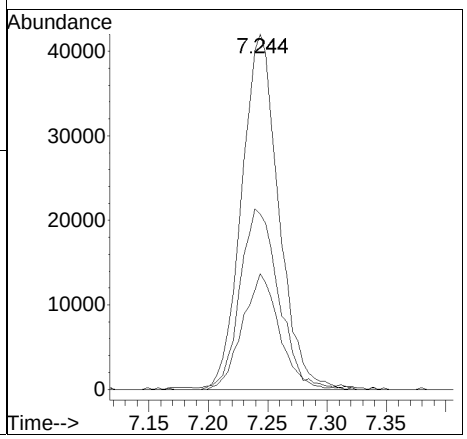


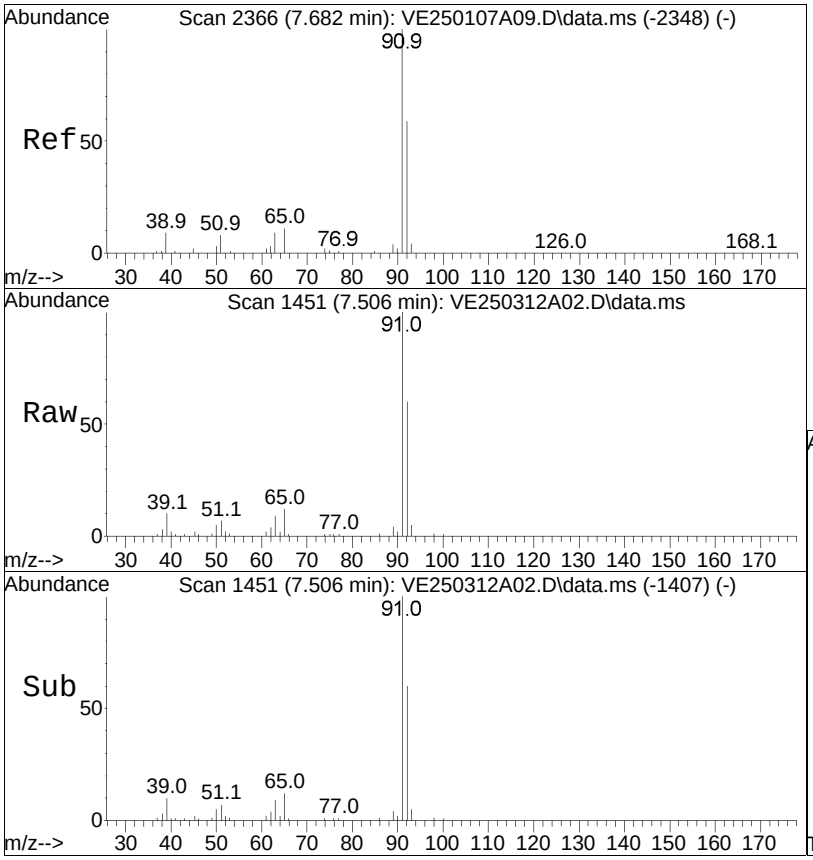


#62
cis-1,3-Dichloropropene
Concen: 9.60 ug/L
RT: 7.244 min Scan# 1393
Delta R.T. 0.002 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion: 75 Resp: 91575

Ion	Ratio	Lower	Upper
75	100		
77	32.4	25.0	37.4
39	53.3	42.9	64.3

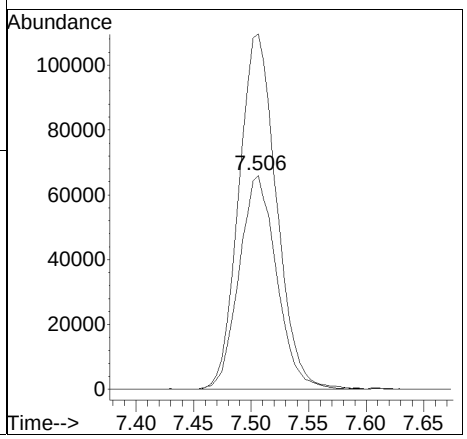


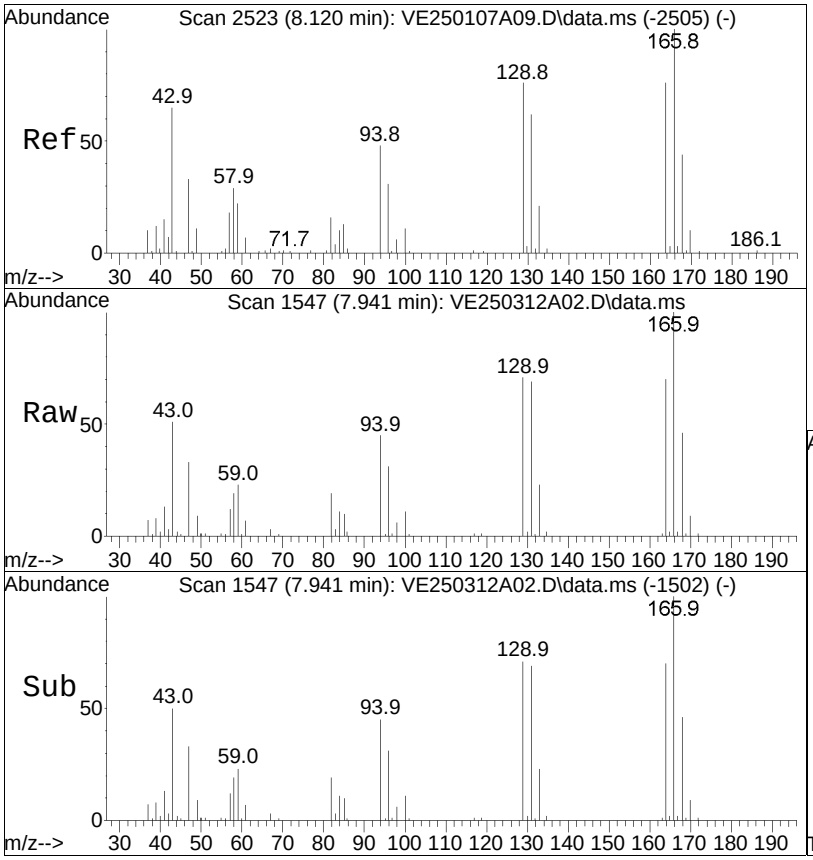


#65
Toluene
Concen: 9.09 ug/L
RT: 7.506 min Scan# 1451
Delta R.T. -0.000 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion: 92 Resp: 149946

Ion	Ratio	Lower	Upper
92	100		
91	166.4	134.8	202.2

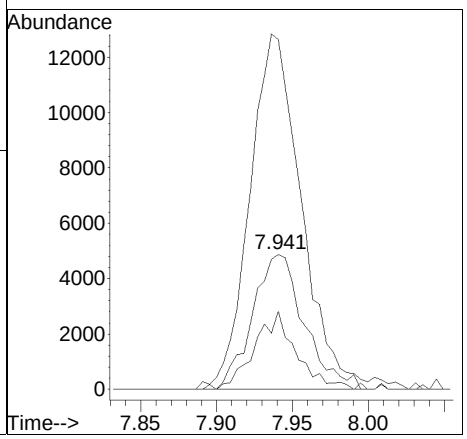


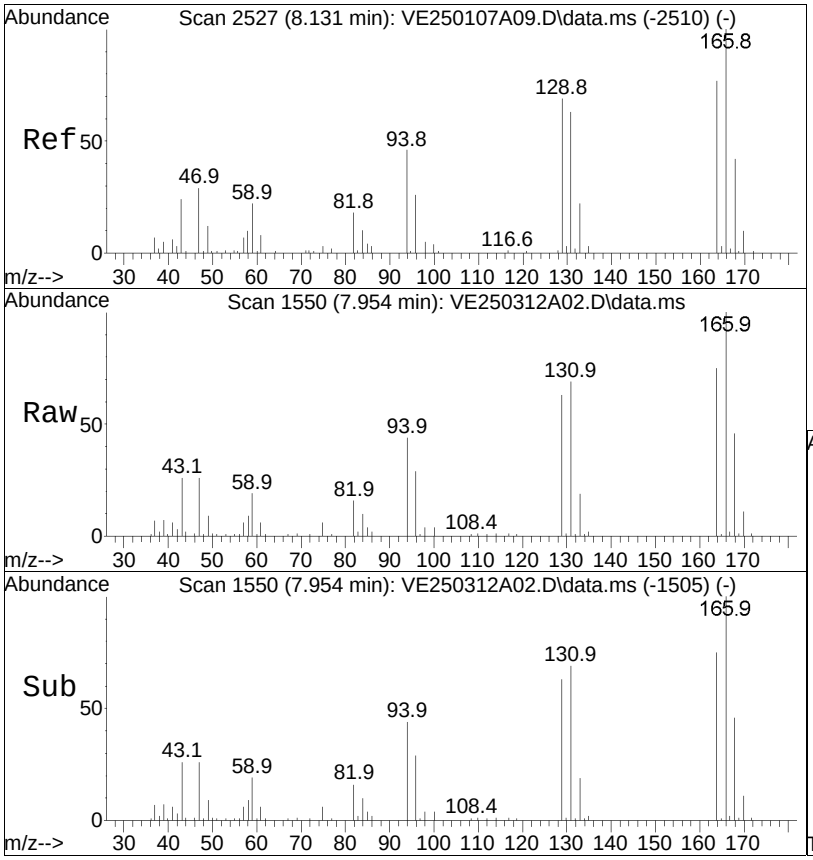


#66
4-Methyl-2-pentanone
Concen: 8.25 ug/L
RT: 7.941 min Scan# 1547
Delta R.T. 0.002 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion: 58 Resp: 11603

Ion	Ratio	Lower	Upper
58	100		
100	46.1	34.8	52.2
43	263.6	201.1	301.7

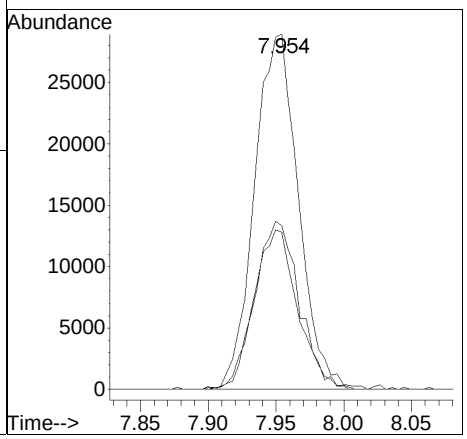


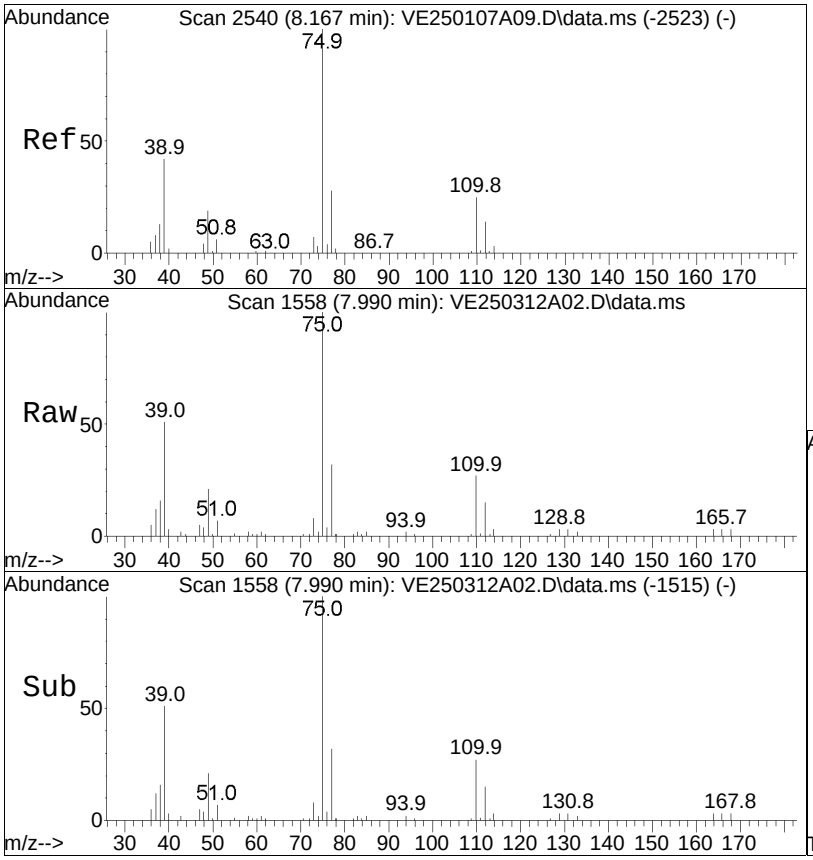


#67
Tetrachloroethene
Concen: 10.29 ug/L
RT: 7.954 min Scan# 1550
Delta R.T. 0.002 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion:166 Resp: 65289

Ion	Ratio	Lower	Upper
166	100		
168	47.5	28.3	68.3
94	44.8	27.4	67.4

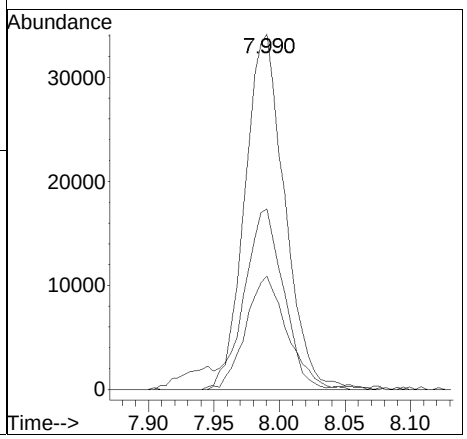


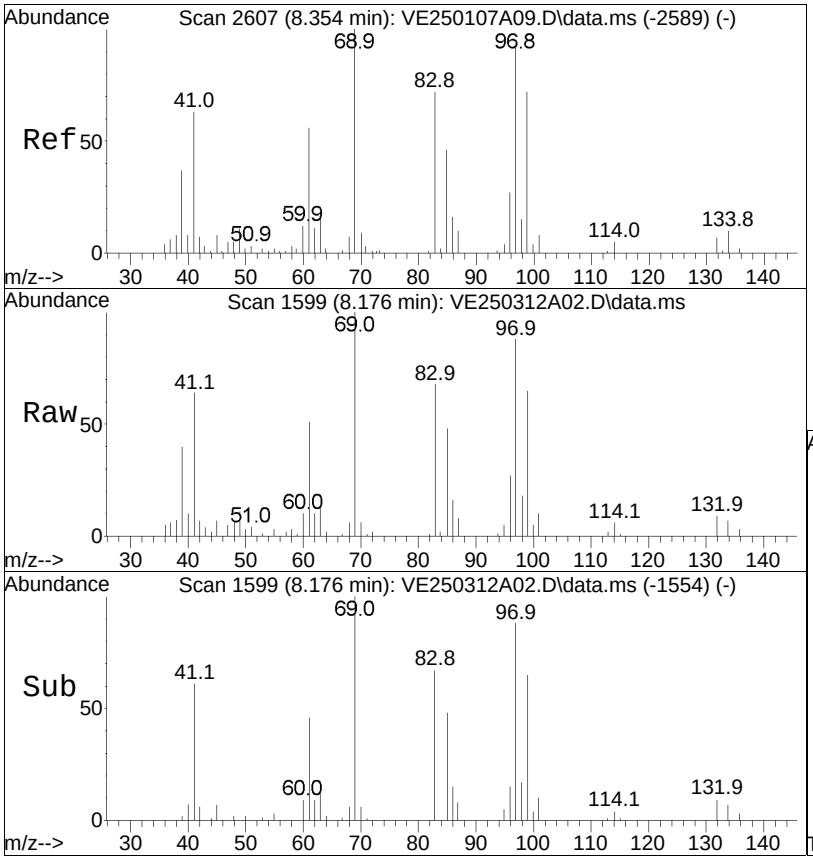


#69
trans-1,3-Dichloropropene
Concen: 9.08 ug/L
RT: 7.990 min Scan# 1558
Delta R.T. -0.004 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion: 75 Resp: 72419

Ion	Ratio	Lower	Upper
75	100		
77	32.2	11.5	51.5
39	49.6	29.6	69.6

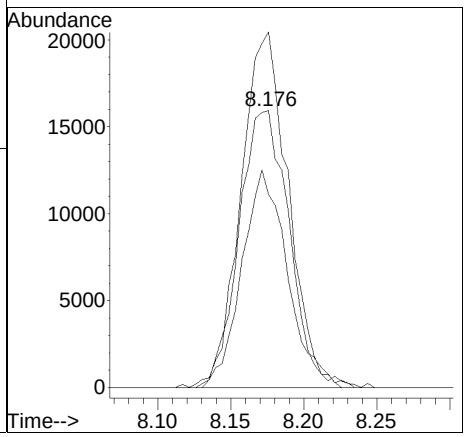


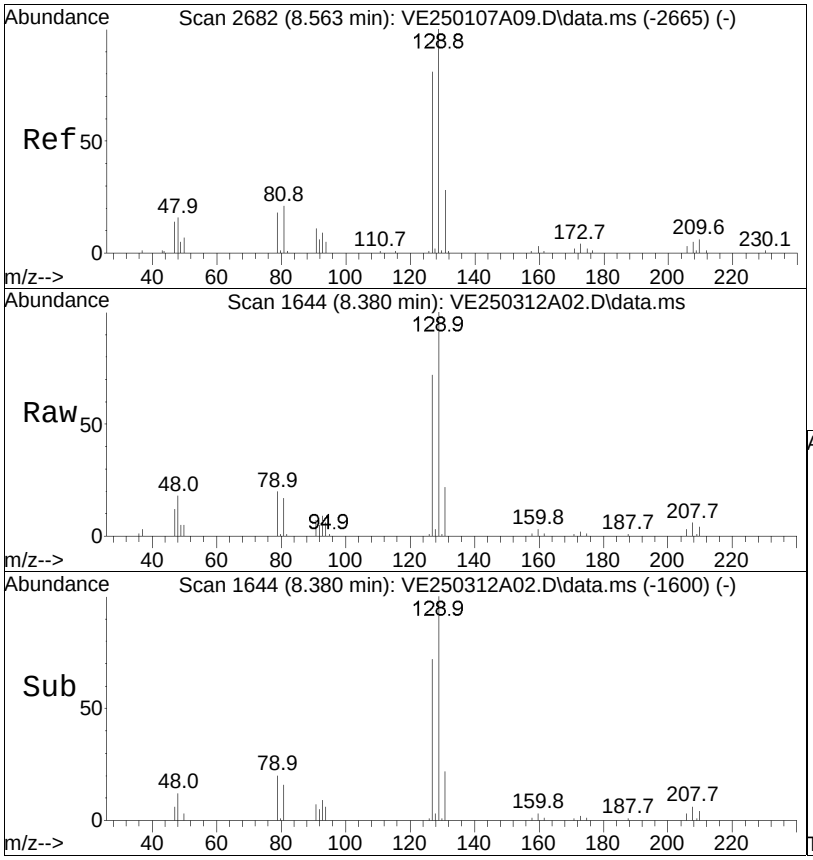


#72
1,1,2-Trichloroethane
Concen: 9.16 ug/L
RT: 8.176 min Scan# 1599
Delta R.T. 0.003 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion: 83 Resp: 37956

Ion	Ratio	Lower	Upper
83	100		
97	121.4	96.9	136.9
85	71.3	46.7	86.7

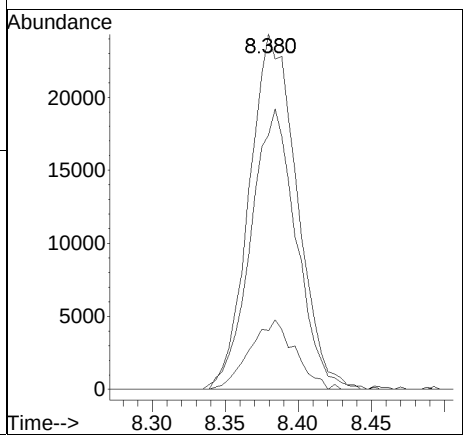


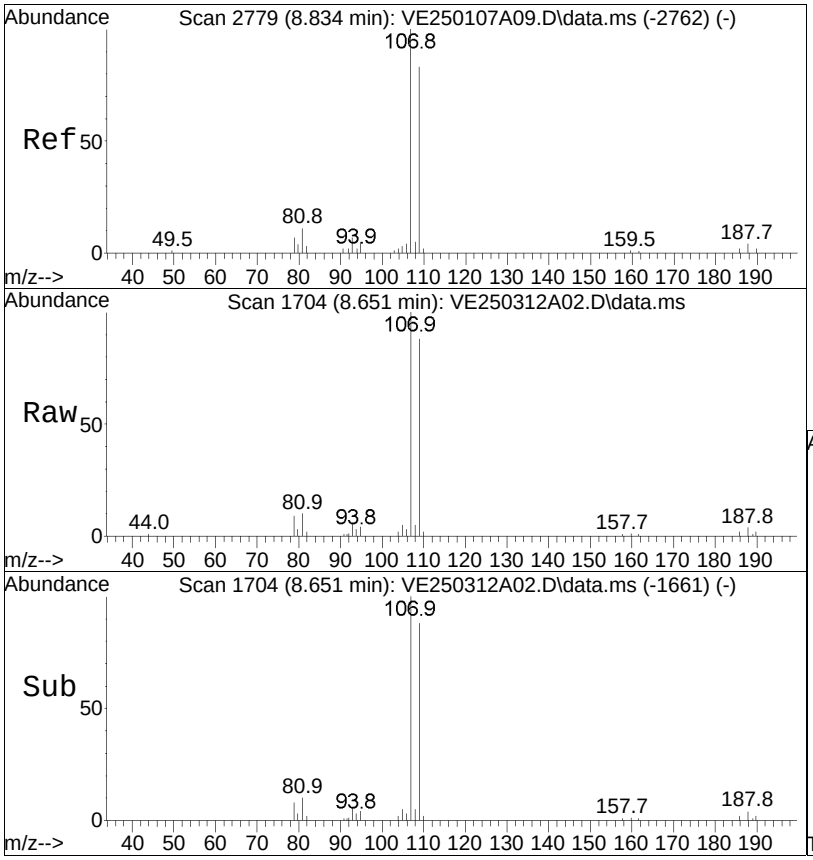


#73
Chlorodibromomethane
Concen: 9.58 ug/L
RT: 8.380 min Scan# 1644
Delta R.T. -0.002 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion:129 Resp: 55257

Ion	Ratio	Lower	Upper
129	100		
81	18.6	0.9	40.9
127	75.7	56.5	96.5

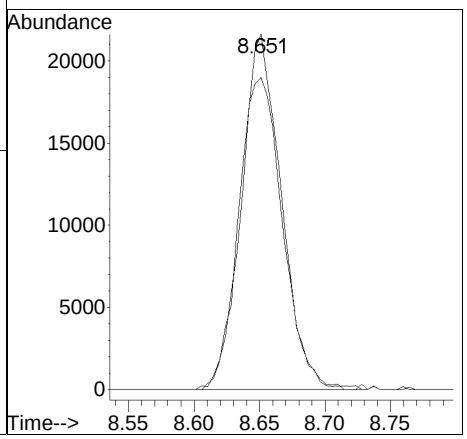


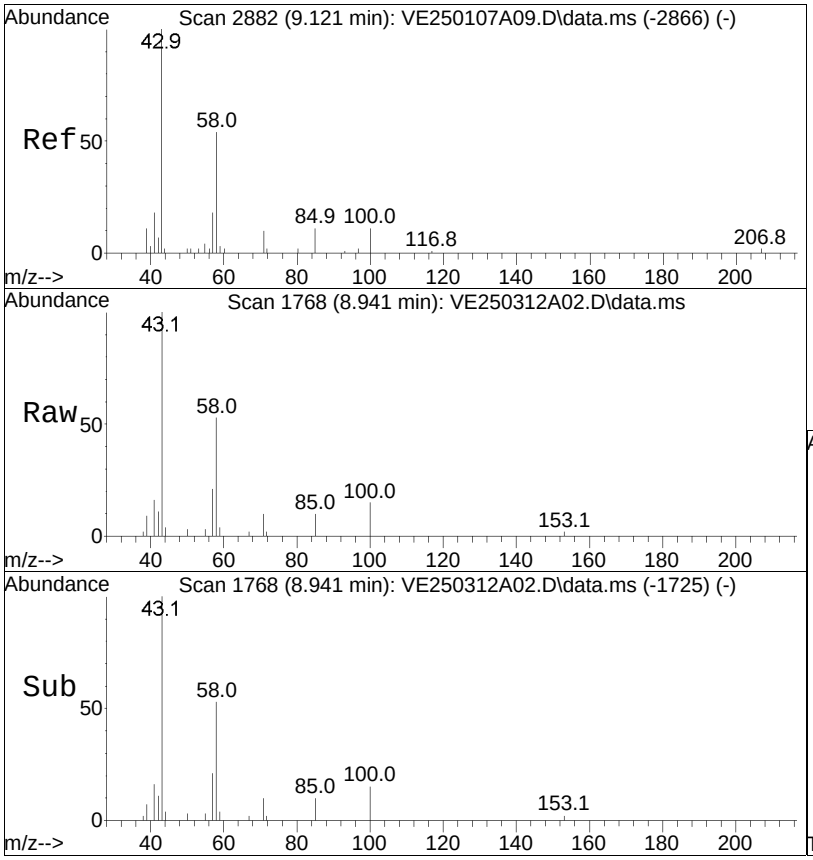


#75
1,2-Dibromoethane
Concen: 9.83 ug/L
RT: 8.651 min Scan# 1704
Delta R.T. -0.004 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion:107 Resp: 46608

Ion	Ratio	Lower	Upper
107	100		
109	93.4	72.7	109.1

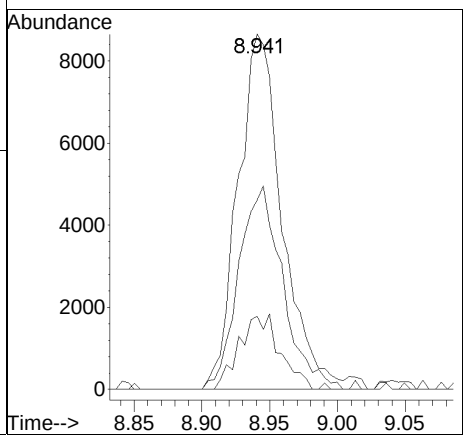


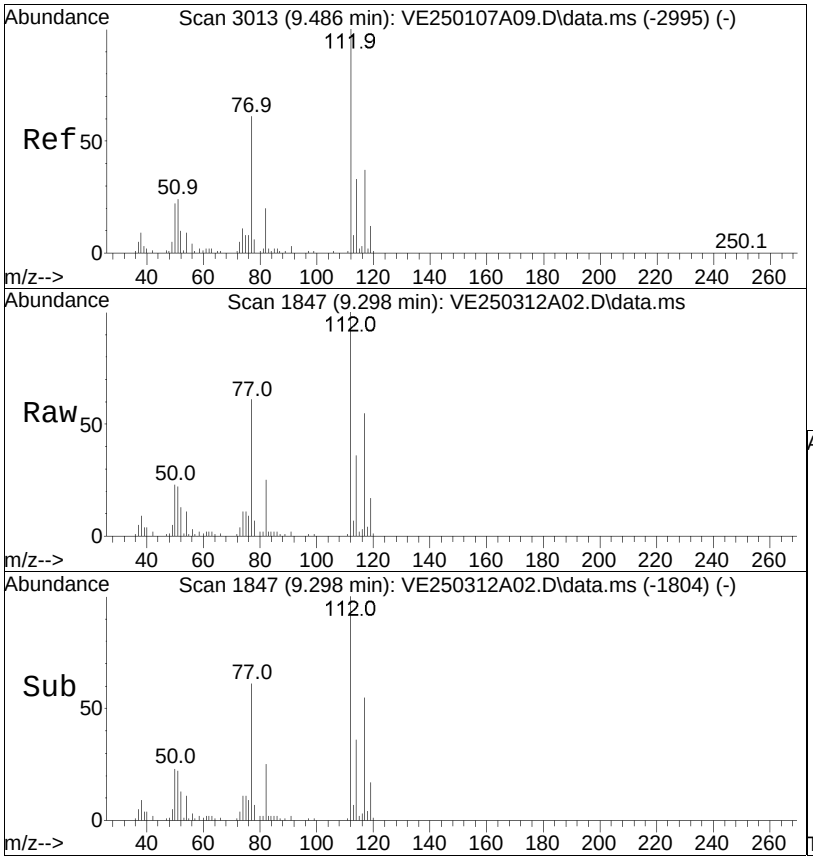


#77
2-Hexanone
Concen: 8.87 ug/L
RT: 8.941 min Scan# 1768
Delta R.T. -0.005 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion: 43 Resp: 19867

Ion	Ratio	Lower	Upper
43	100		
58	56.5	42.7	64.1
57	19.1	15.5	23.3

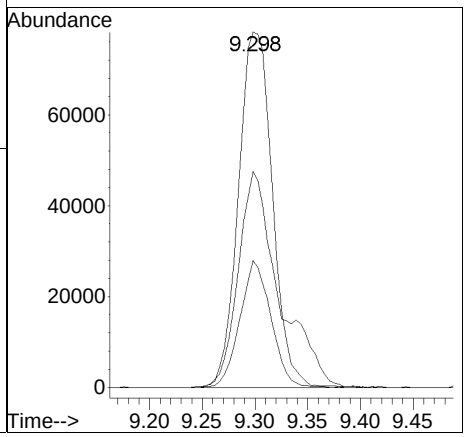


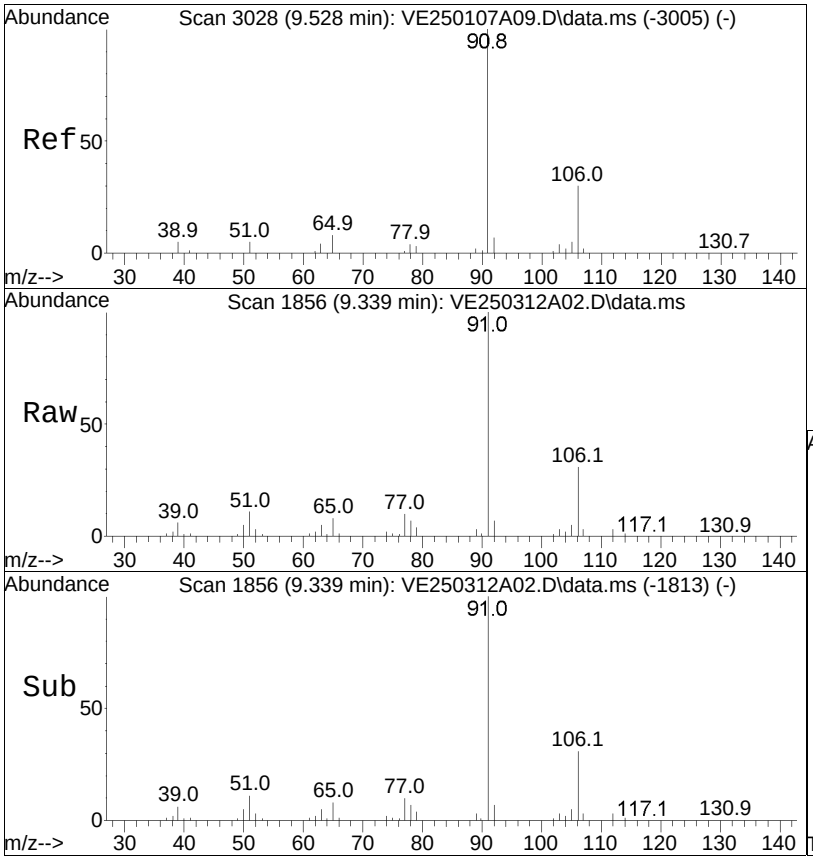


#78
Chlorobenzene
Concen: 9.34 ug/L
RT: 9.298 min Scan# 1847
Delta R.T. -0.004 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion:112 Resp: 175251

Ion	Ratio	Lower	Upper
112	100		
77	73.3	56.4	84.6
114	32.5	25.8	38.6

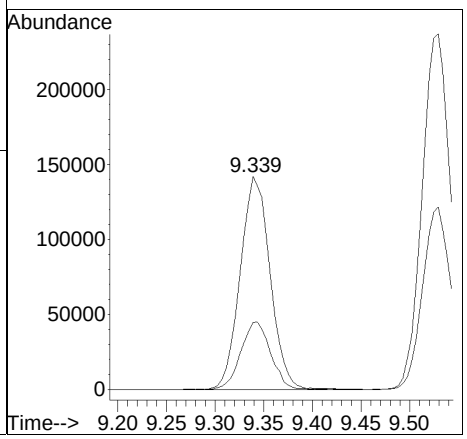


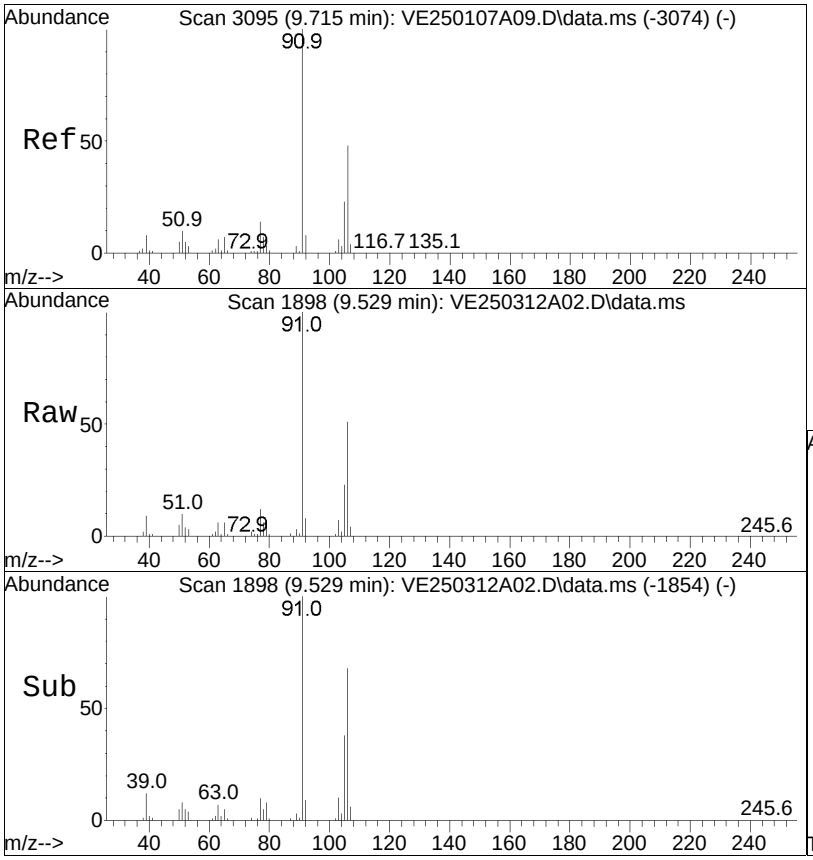


#79
Ethylbenzene
Concen: 9.18 ug/L
RT: 9.339 min Scan# 1856
Delta R.T. -0.005 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion: 91 Resp: 303065

Ion	Ratio	Lower	Upper
91	100		
106	31.4	25.4	38.2

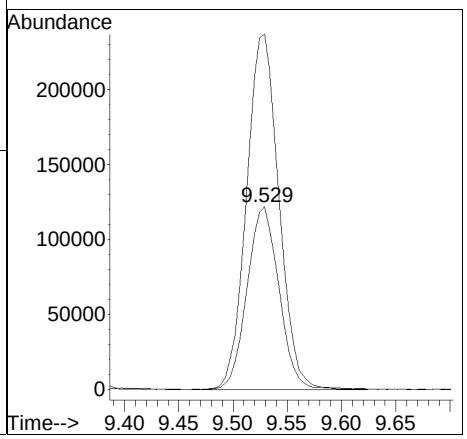


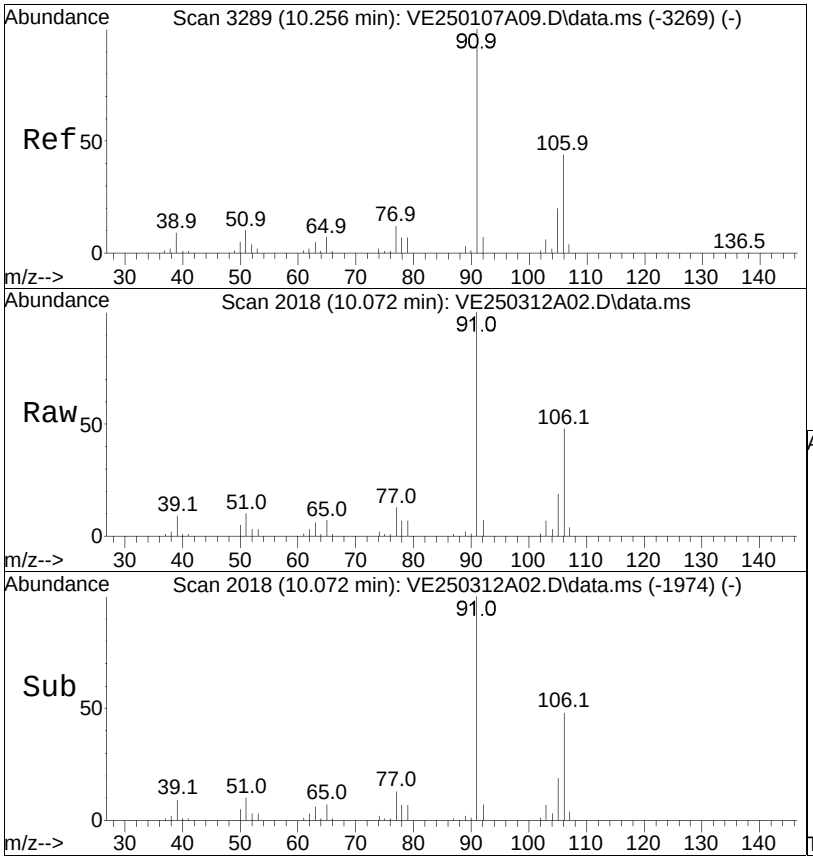


#81
p/m Xylene
Concen: 18.42 ug/L
RT: 9.529 min Scan# 1898
Delta R.T. -0.002 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion:106 Resp: 248919

Ion	Ratio	Lower	Upper
106	100		
91	197.5	158.3	237.5

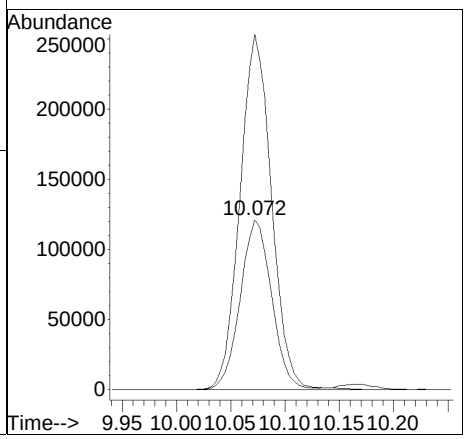


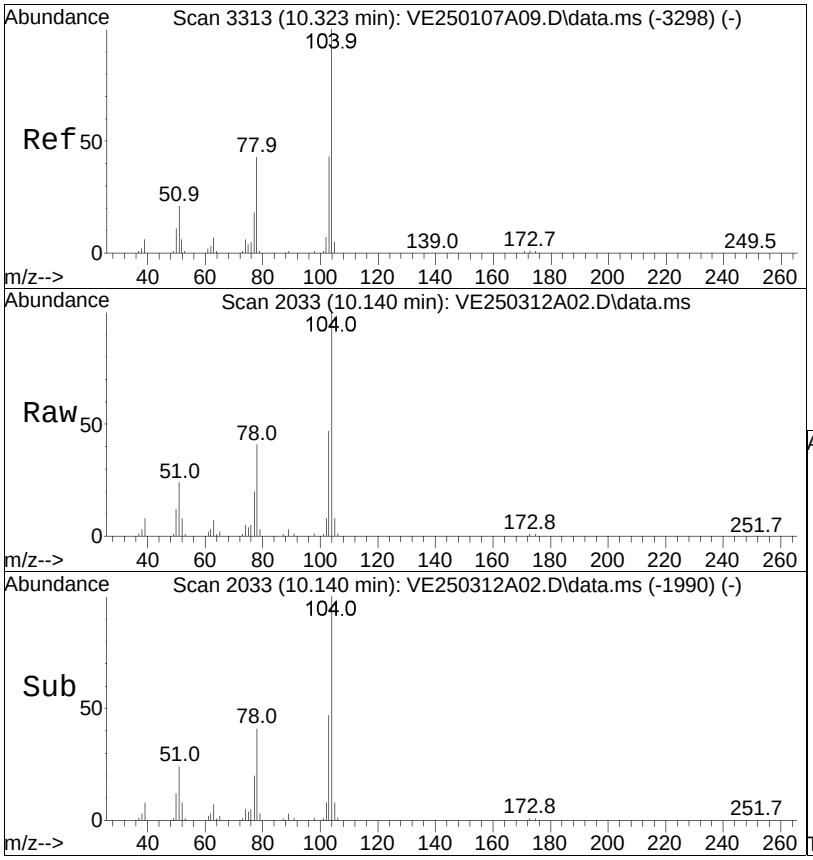


#82
o Xylene
Concen: 18.18 ug/L
RT: 10.072 min Scan# 2018
Delta R.T. -0.003 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion:106 Resp: 244558

Ion	Ratio	Lower	Upper
106	100		
91	208.3	168.7	253.1

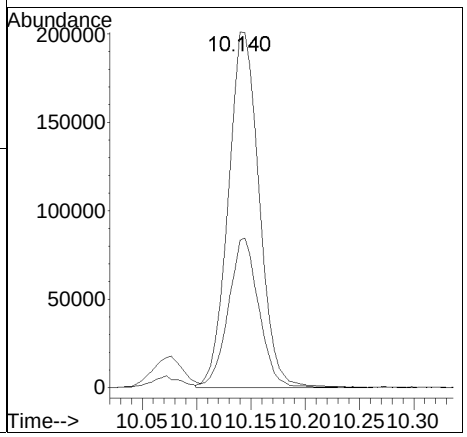


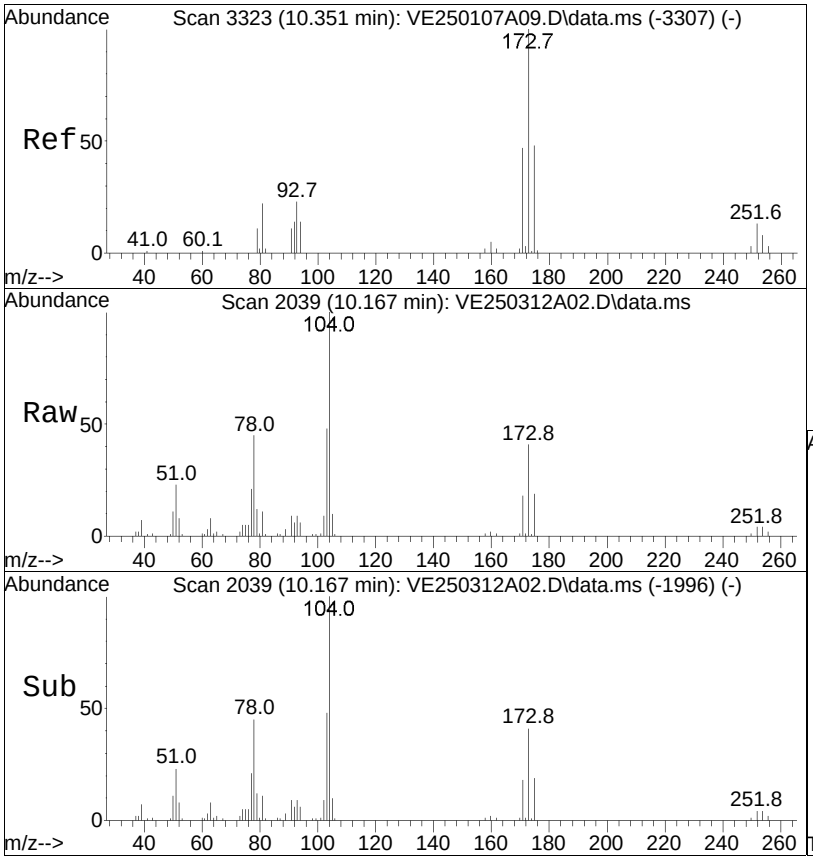


#83
Styrene
Concen: 17.39 ug/L
RT: 10.140 min Scan# 2033
Delta R.T. -0.007 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion:104 Resp: 398491

Ion	Ratio	Lower	Upper
104	100		
78	41.2	32.4	48.6

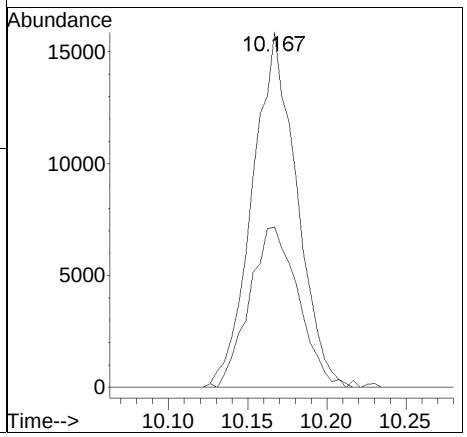


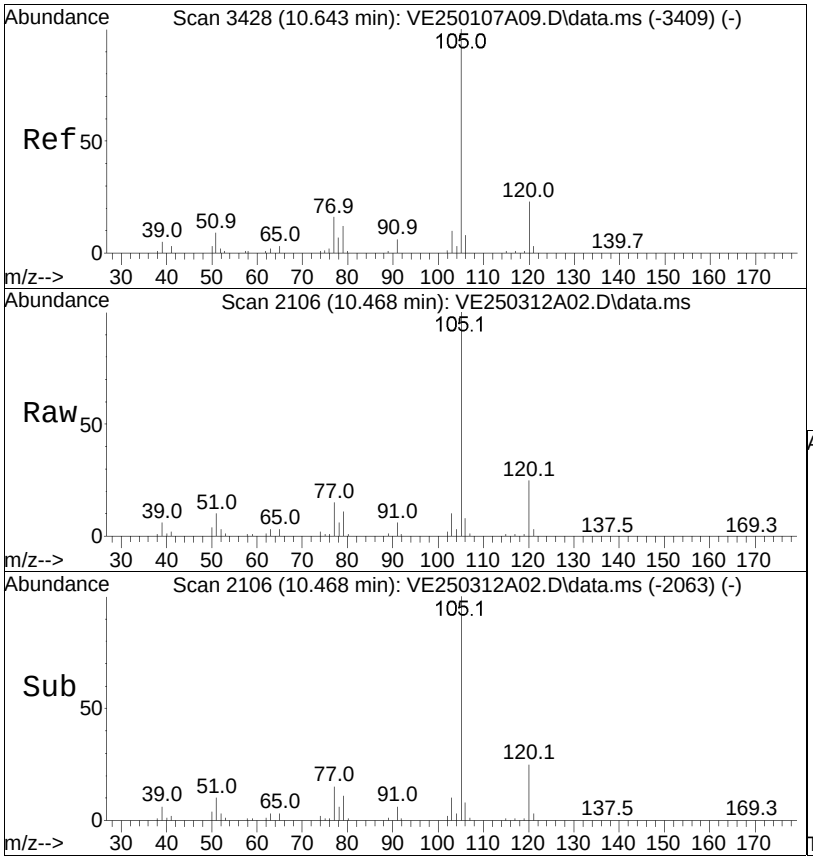


#85
Bromoform
Concen: 8.99 ug/L
RT: 10.167 min Scan# 2039
Delta R.T. -0.005 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion:173 Resp: 31016

Ion	Ratio	Lower	Upper
173	100		
175	49.9	27.0	67.0

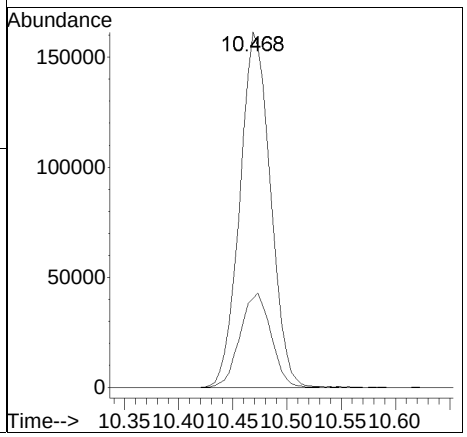


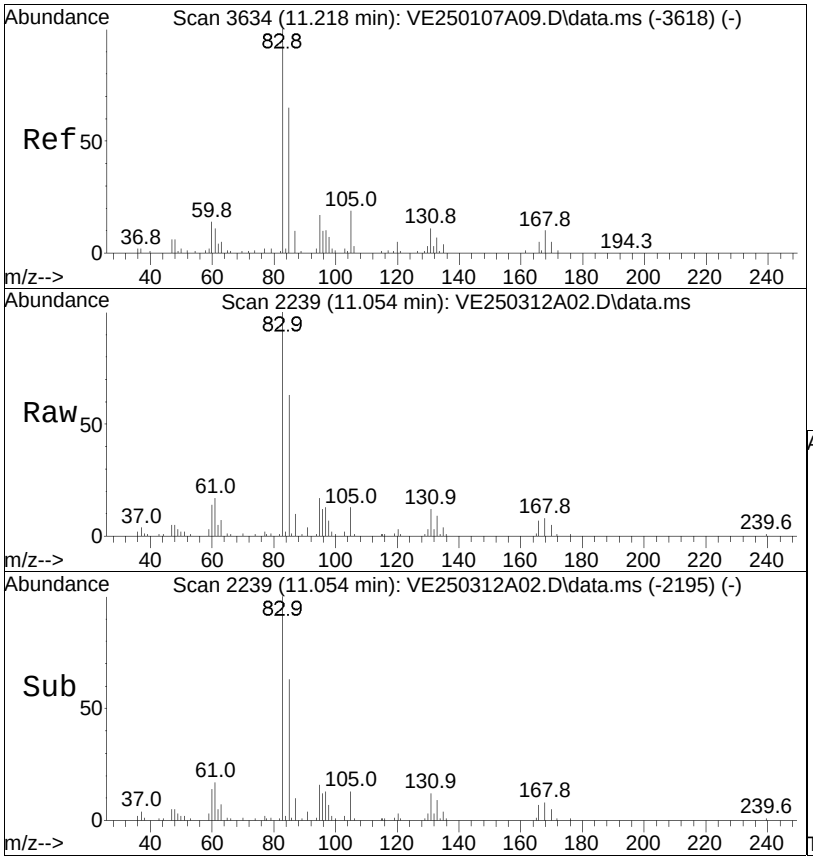


#87
Isopropylbenzene
Concen: 9.41 ug/L
RT: 10.468 min Scan# 2106
Delta R.T. -0.005 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion:105 Resp: 317538

Ion	Ratio	Lower	Upper
105	100		
120	26.8	6.7	46.7

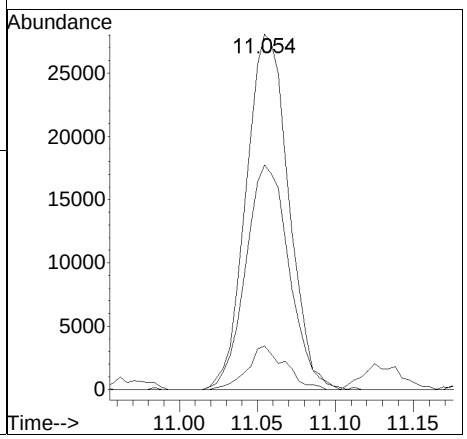


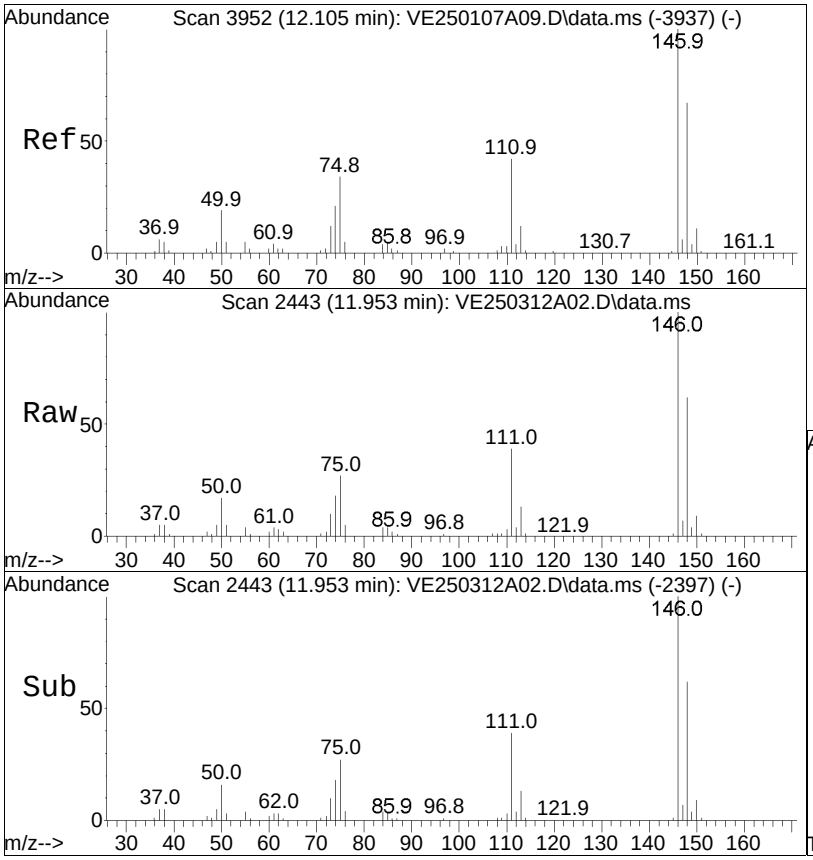


#92
1,1,2,2-Tetrachloroethane
Concen: 9.28 ug/L
RT: 11.054 min Scan# 2239
Delta R.T. -0.007 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion: 83 Resp: 53190

Ion	Ratio	Lower	Upper
83	100		
131	10.9	0.0	30.1
85	64.6	46.3	86.3

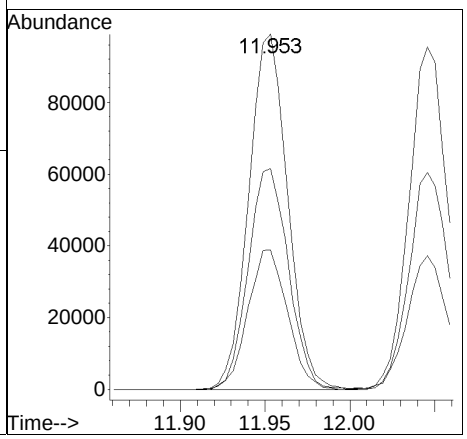


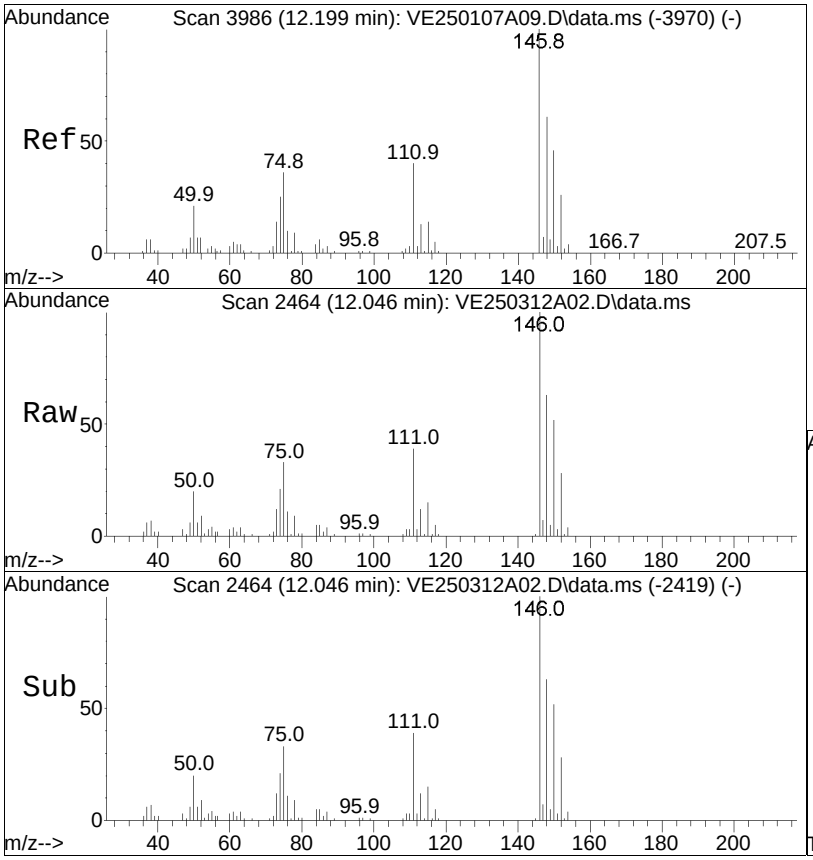


#105
1,3-Dichlorobenzene
Concen: 9.65 ug/L
RT: 11.953 min Scan# 2443
Delta R.T. 0.002 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion:146 Resp: 158061

Ion	Ratio	Lower	Upper
146	100		
111	39.9	26.0	54.0
148	64.0	42.1	87.3

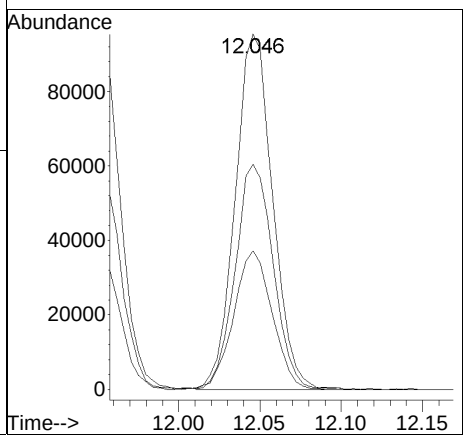


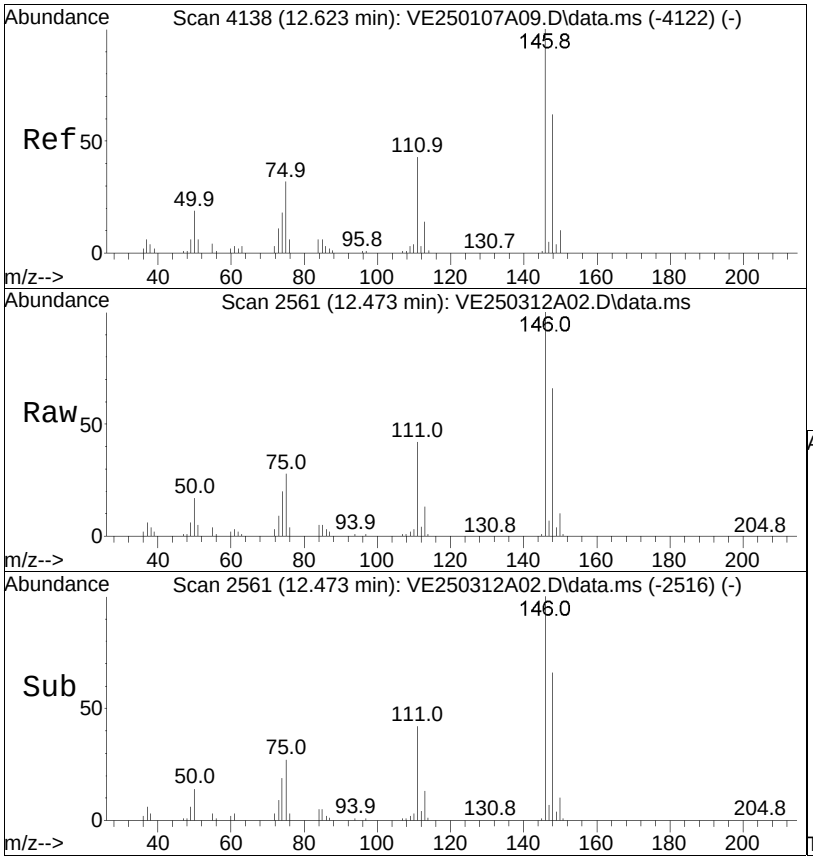


#106
1,4-Dichlorobenzene
Concen: 9.38 ug/L
RT: 12.046 min Scan# 2464
Delta R.T. -0.003 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion:146 Resp: 152925

Ion	Ratio	Lower	Upper
146	100		
111	40.1	31.5	47.3
148	64.5	51.1	76.7

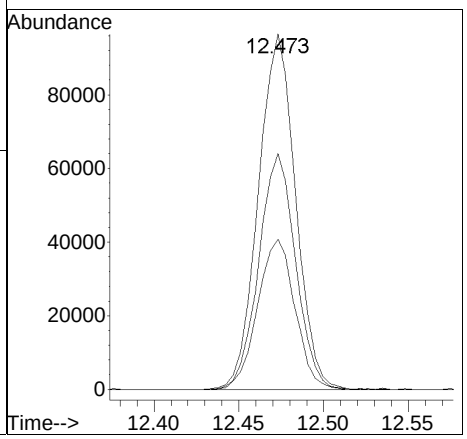


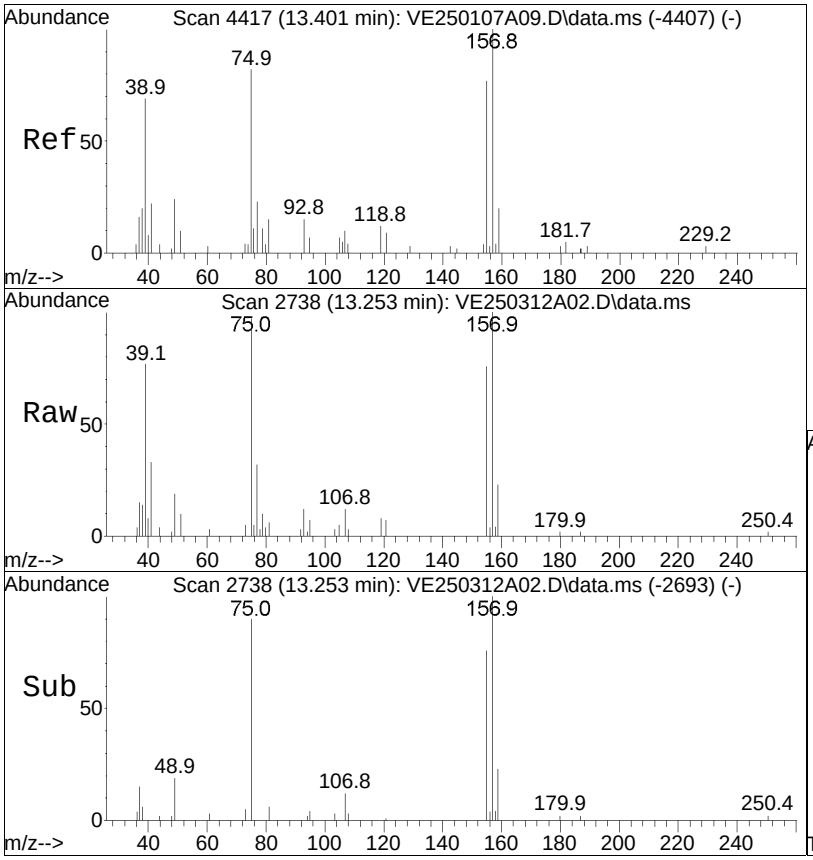


#109
1,2-Dichlorobenzene
Concen: 9.57 ug/L
RT: 12.473 min Scan# 2561
Delta R.T. 0.000 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion:146 Resp: 147245

Ion	Ratio	Lower	Upper
146	100		
111	42.4	26.8	55.6
148	65.7	40.9	84.9

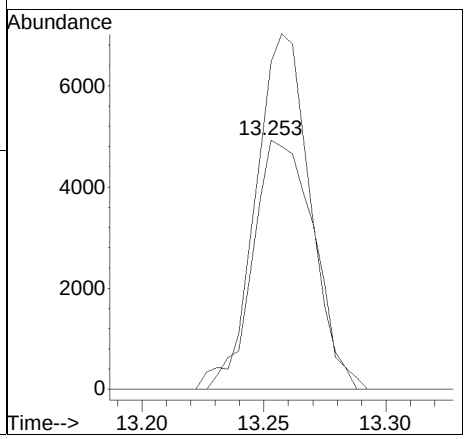


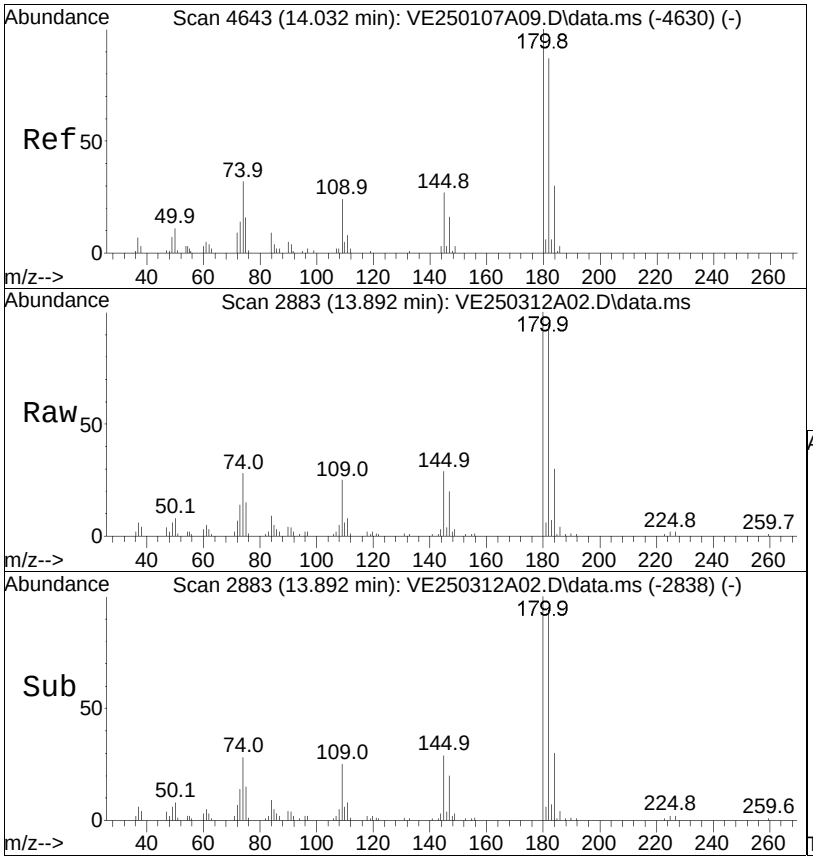


#111
1,2-Dibromo-3-chloropropane
Concen: 9.50 ug/L
RT: 13.253 min Scan# 2738
Delta R.T. -0.003 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion:155 Resp: 8433

Ion	Ratio	Lower	Upper
155	100		
157	130.4	95.8	143.8

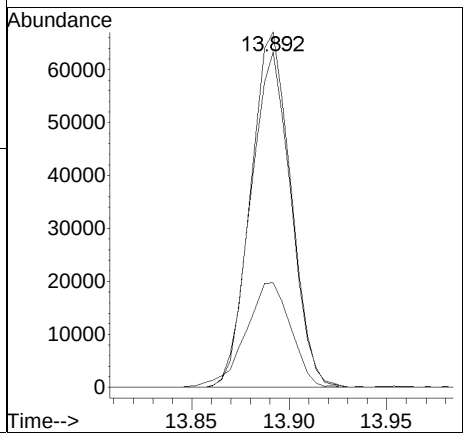


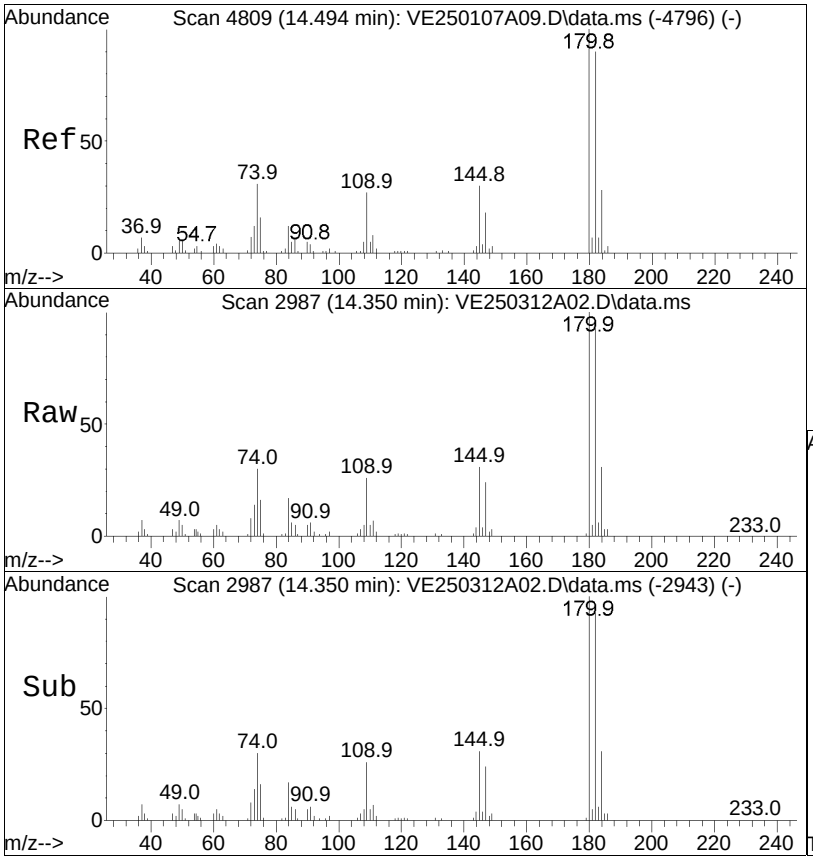


#114
1,2,4-Trichlorobenzene
Concen: 9.93 ug/L
RT: 13.892 min Scan# 2883
Delta R.T. -0.003 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion:180 Resp: 96340

Ion	Ratio	Lower	Upper
180	100		
182	94.3	76.2	114.2
145	33.1	27.8	41.6

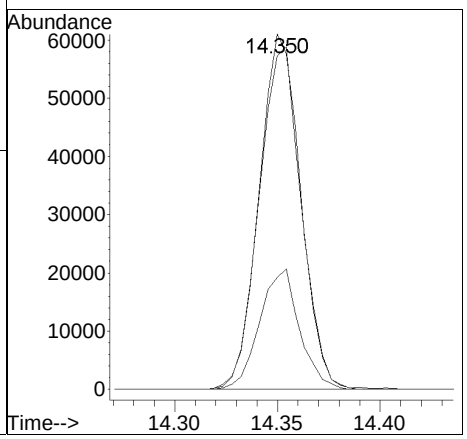




#116
1,2,3-Trichlorobenzene
Concen: 9.66 ug/L
RT: 14.350 min Scan# 2987
Delta R.T. -0.005 min
Lab File: VE250312A02.D
Acq: 12 Mar 2025 9:51 am

Tgt Ion:180 Resp: 85938

Ion	Ratio	Lower	Upper
180	100		
182	97.4	77.0	115.4
145	32.4	25.9	38.9

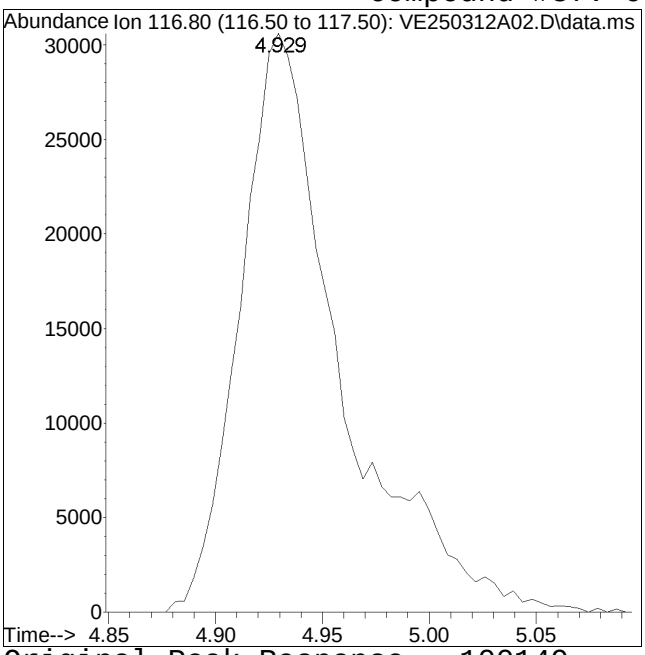


Manual Integration Report

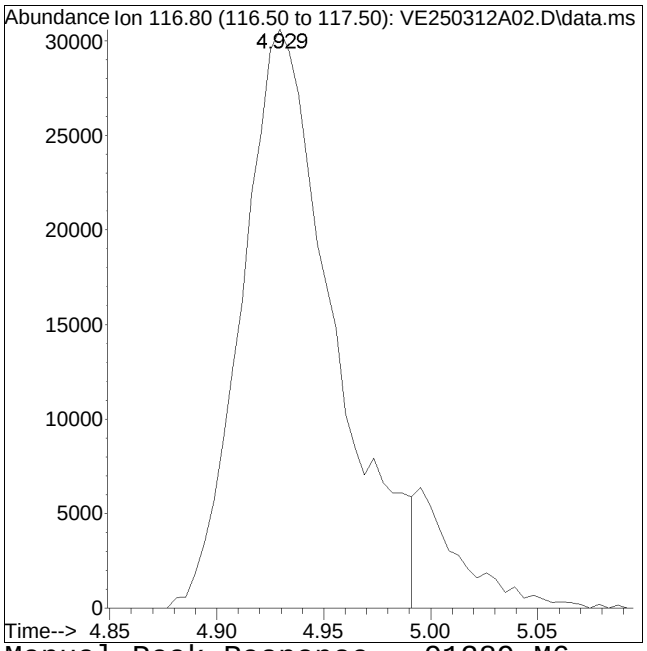
Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A02.D
Date Inj'd : 3/12/2025 9:51 am
Sample : WG2039699-4,31,10,10

QMethod : Elaine_250220N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 3/12/2025 10:30 am

Compound #37: Carbon tetrachloride



Original Peak Response = 100149



Manual Peak Response = 91289 M6

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

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2025\250313A\
Data File : V01250313A05.D
Acq On : 13 Mar 2025 8:49 am
Operator : VOA101:PID
Sample : WG2040184-4,31,10,10
Misc : WG2040184,ICAL21969
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 13 09:17:38 2025
Quant Method : K:\VOA101\2025\250313A\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 12 10:30:07 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2025\250313A\V01250313A04.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.896	96	621831	10.000	ug/L	0.00
Standard Area 1 = 602809			Recovery = 103.16%			
59) Chlorobenzene-d5	9.413	117	446910	10.000	ug/L	0.00
Standard Area 1 = 429416			Recovery = 104.07%			
79) 1,4-Dichlorobenzene-d4	12.140	152	242309	10.000	ug/L	0.00
Standard Area 1 = 232552			Recovery = 104.20%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.098	113	158994	10.057	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.57%			
43) 1,2-Dichloroethane-d4	5.614	65	183102	10.098	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.98%			
60) Toluene-d8	7.575	98	613967	10.341	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.41%			
83) 4-Bromofluorobenzene	10.921	95	229398	9.670	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.70%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.621	85	147867	8.938	ug/L	98
3) Chloromethane	1.805	50	264309	8.634	ug/L	98
4) Vinyl chloride	1.875	62	201207	10.441	ug/L	100
5) Bromomethane	2.173	94	43027	10.809	ug/L	98
6) Chloroethane	2.285	64	107604	11.715	ug/L	99
7) Trichlorofluoromethane	2.421	101	196740	9.792	ug/L	97
10) 1,1-Dichloroethene	2.893	96	133197	9.844	ug/L	98
11) Carbon disulfide	2.923	76	443354	9.892	ug/L	100
12) Freon-113	2.926	101	129779	9.416	ug/L	84
15) Methylene chloride	3.431	84	154736	9.583	ug/L	99
17) Acetone	3.484	43	27448	8.625	ug/L	93
18) trans-1,2-Dichloroethene	3.581	96	147830	9.784	ug/L	99
19) Methyl acetate	3.590	43	79737	10.202	ug/L	100
20) Methyl tert-butyl ether	3.682	73	300709	9.506	ug/L	98
23) 1,1-Dichloroethane	4.150	63	325898	10.030	ug/L	98
28) cis-1,2-Dichloroethene	4.663	96	162981	9.851	ug/L	100
30) Bromochloromethane	4.848	128	66658	10.220	ug/L	97
31) Cyclohexane	4.853	56	330430	9.669	ug/L	98
32) Chloroform	4.926	83	269297	10.022	ug/L	99
34) Carbon tetrachloride	5.059	117	178959	9.132	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2025\250313A\
Data File : V01250313A05.D
Acq On : 13 Mar 2025 8:49 am
Operator : VOA101:PID
Sample : WG2040184-4,31,10,10
Misc : WG2040184,ICAL21969
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 13 09:17:38 2025
Quant Method : K:\VOA101\2025\250313A\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 12 10:30:07 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA101\2025\250313A\V01250313A04.D
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) 1,1,1-Trichloroethane	5.121	97	223519	9.699	ug/L	#	97
39) 2-Butanone	5.216	43	47839	10.713	ug/L	#	63
41) Benzene	5.478	78	606191	10.302	ug/L		100
44) 1,2-Dichloroethane	5.684	62	189935	9.790	ug/L		97
47) Methyl cyclohexane	6.063	83	259233	9.816	ug/L		99
48) Trichloroethene	6.075	95	160460	9.872	ug/L		98
51) 1,2-Dichloropropane	6.610	63	181181	10.089	ug/L		98
54) Bromodichloromethane	6.685	83	192122	9.635	ug/L		100
58) cis-1,3-Dichloropropene	7.371	75	199231	9.025	ug/L		99
61) Toluene	7.628	92	369674	10.354	ug/L		100
62) 4-Methyl-2-pentanone	8.063	58	32564M1	9.429	ug/L		
63) Tetrachloroethene	8.082	166	150066	10.487	ug/L		99
65) trans-1,3-Dichloropropene	8.119	75	150657	9.065	ug/L		94
68) 1,1,2-Trichloroethane	8.300	83	94647	10.585	ug/L		98
69) Chlorodibromomethane	8.515	129	119515	9.678	ug/L		97
71) 1,2-Dibromoethane	8.782	107	101606	10.474	ug/L		98
72) 2-Hexanone	9.081	43	51367	8.527	ug/L	#	87
73) Chlorobenzene	9.435	112	410094	10.349	ug/L		99
74) Ethylbenzene	9.468	91	728464	10.566	ug/L		98
76) p/m Xylene	9.655	106	560758	21.316	ug/L		100
77) o Xylene	10.199	106	536675	21.128	ug/L		100
78) Styrene	10.269	104	841797	21.618	ug/L		97
80) Bromoform	10.297	173	62240	9.229	ug/L		98
82) Isopropylbenzene	10.592	105	684974	10.256	ug/L		99
87) 1,1,2,2-Tetrachloroethane	11.169	83	127452	10.773	ug/L		99
100) 1,3-Dichlorobenzene	12.062	146	290091	10.586	ug/L		99
101) 1,4-Dichlorobenzene	12.157	146	288719	10.277	ug/L		99
104) 1,2-Dichlorobenzene	12.580	146	253016	10.420	ug/L		99
106) 1,2-Dibromo-3-chloropr...	13.364	155	12174	8.705	ug/L		94
109) 1,2,4-Trichlorobenzene	14.000	180	114262	9.943	ug/L		100
111) 1,2,3-Trichlorobenzene	14.460	180	86143	9.807	ug/L		100

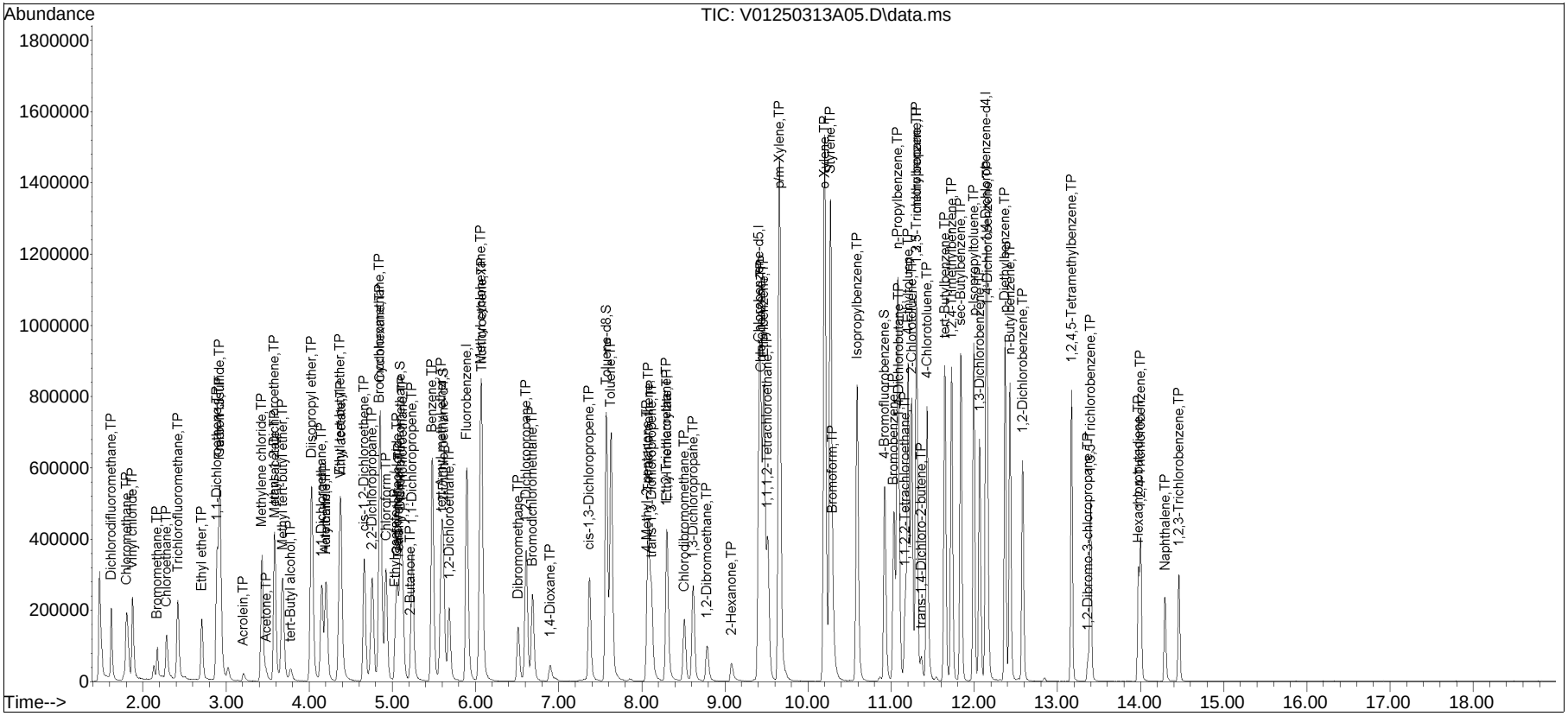
(#) = qualifier out of range (m) = manual integration (+) = signals summed

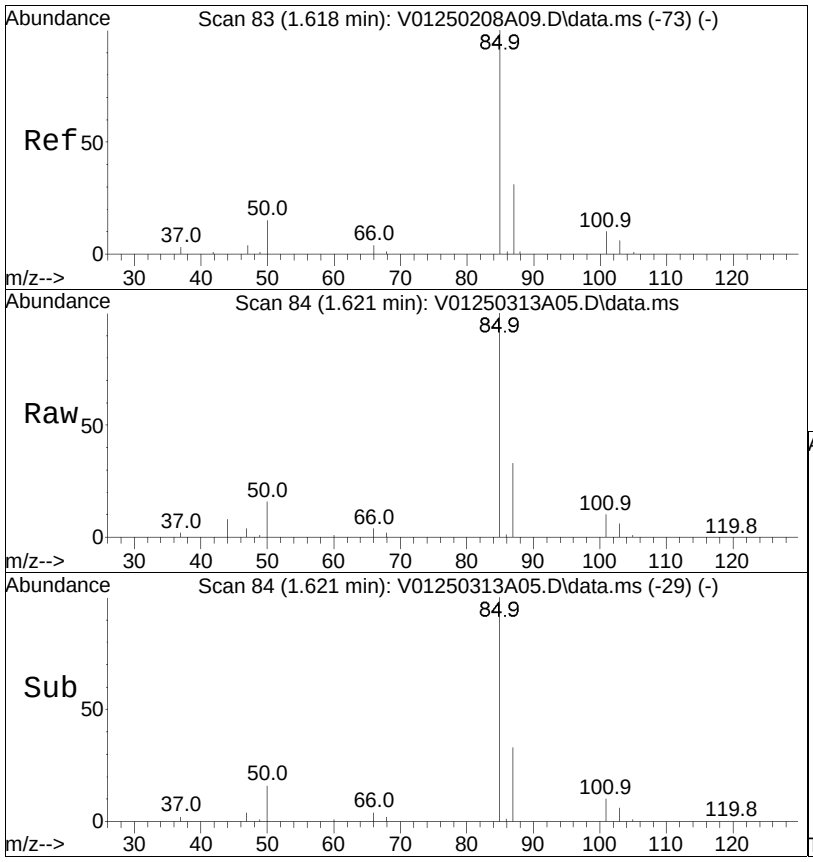
Quantitation Report (QT Reviewed)

Data Path : K:\VOA101\2025\250313A\
Data File : V01250313A05.D
Acq On : 13 Mar 2025 8:49 am
Operator : VOA101:PID
Sample : WG2040184-4,31,10,10
Misc : WG2040184,ICAL21969
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 13 09:17:38 2025
Quant Method : K:\VOA101\2025\250313A\V101_250208A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Feb 12 10:30:07 2025
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

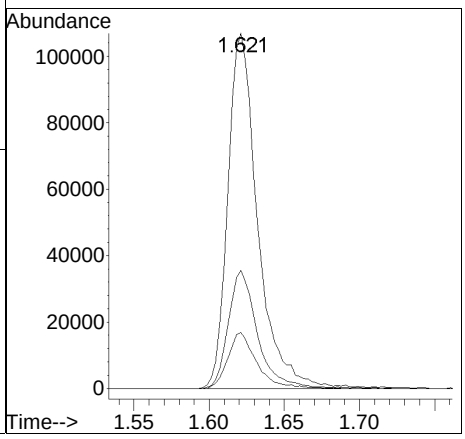


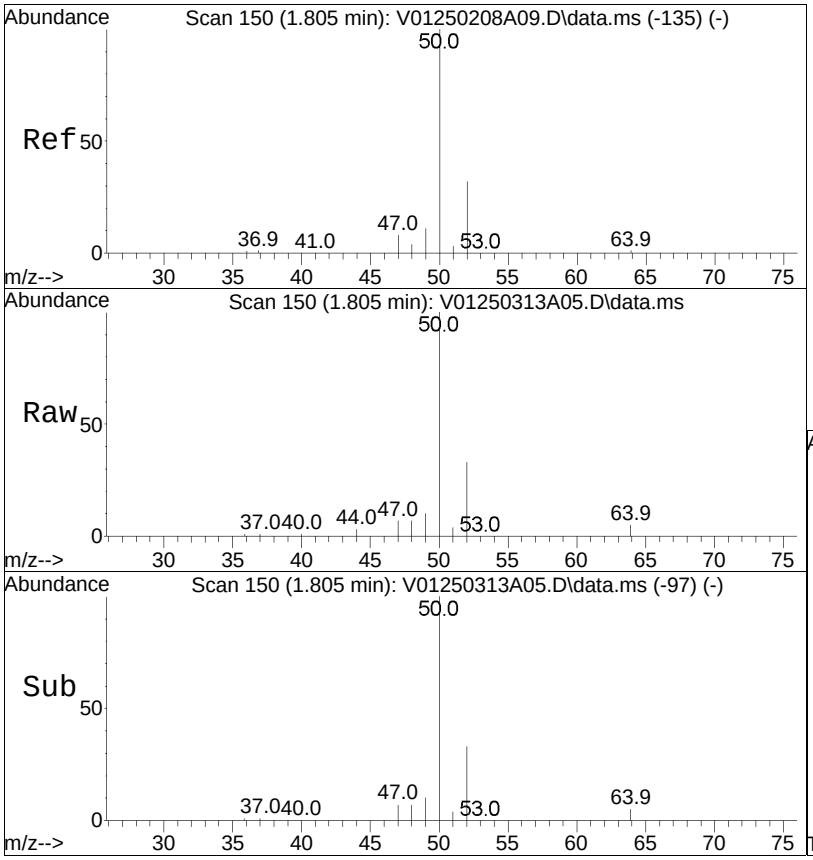


#2
Dichlorodifluoromethane
Concen: 8.94 ug/L
RT: 1.621 min Scan# 84
Delta R.T. 0.003 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion: 85 Resp: 147867

Ion	Ratio	Lower	Upper
85	100		
87	32.2	20.2	42.0
50	15.1	9.4	19.4

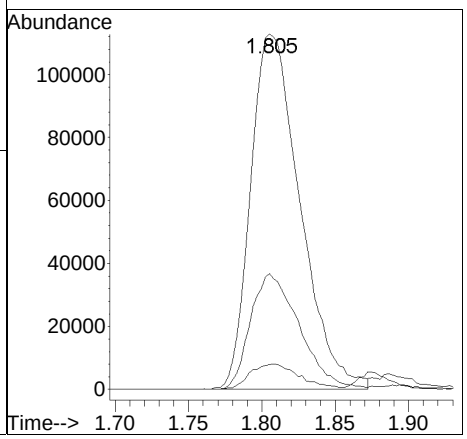


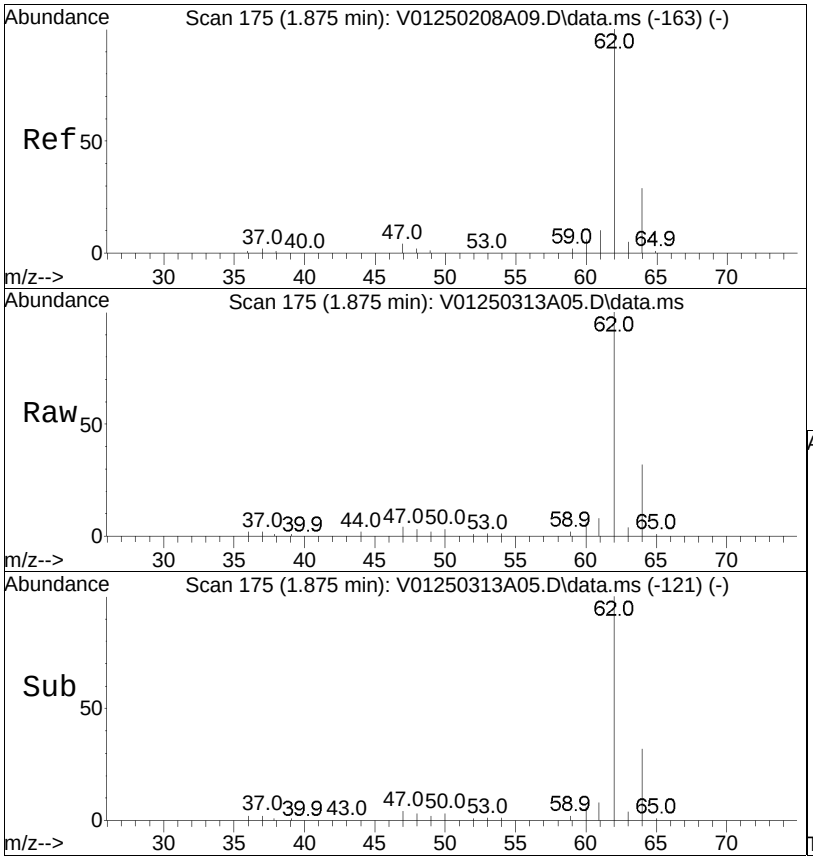


#3
Chloromethane
Concen: 8.63 ug/L
RT: 1.805 min Scan# 150
Delta R.T. 0.000 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion: 50 Resp: 264309

Ion	Ratio	Lower	Upper
50	100		
52	32.2	11.0	51.0
47	7.2	0.0	27.1

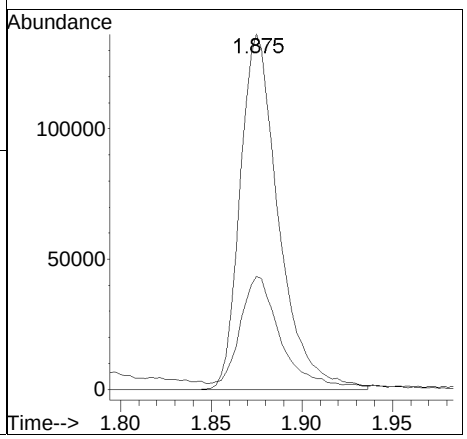


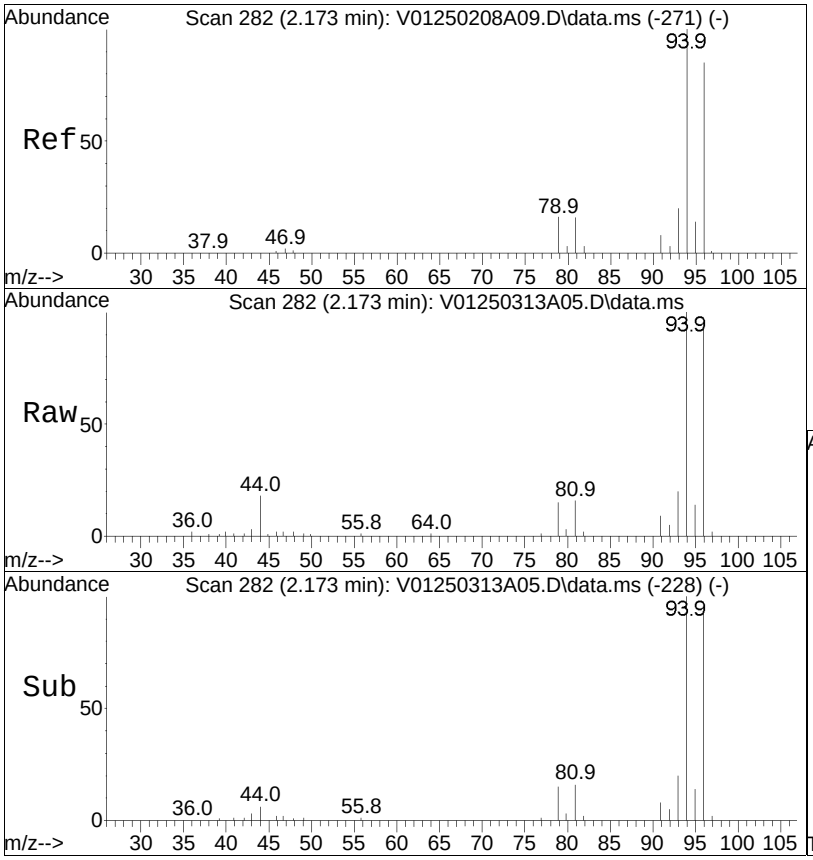


#4
Vinyl chloride
Concen: 10.44 ug/L
RT: 1.875 min Scan# 175
Delta R.T. -0.000 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion: 62 Resp: 201207

Ion	Ratio	Lower	Upper
62	100		
64	29.8	9.6	49.6

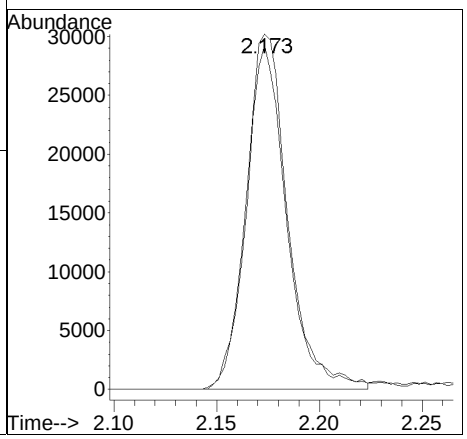


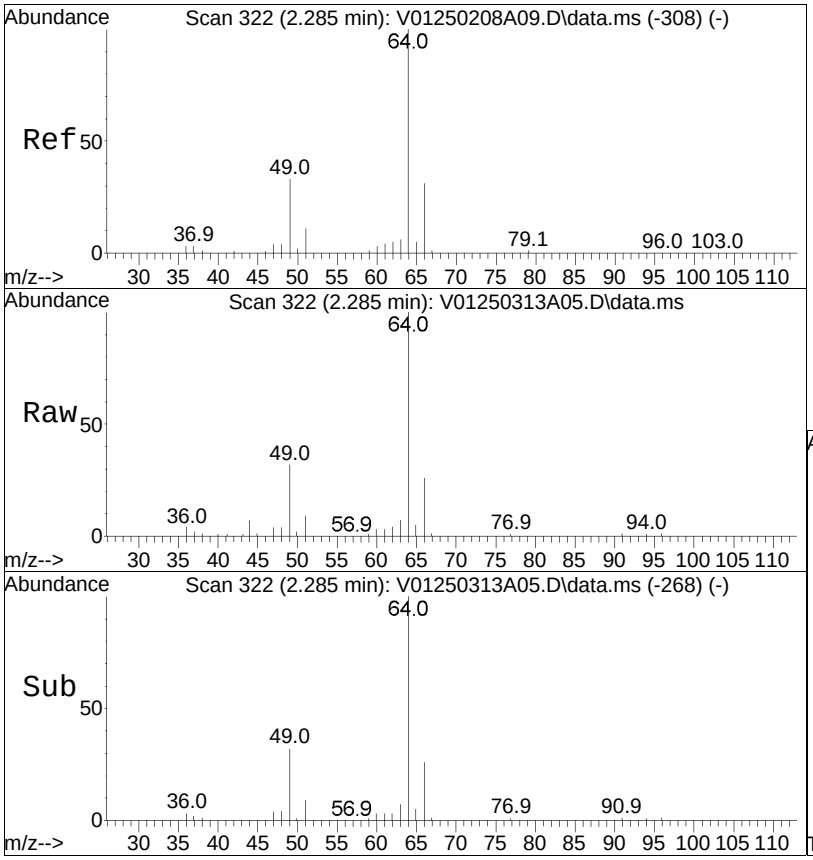


#5
Bromomethane
Concen: 10.81 ug/L
RT: 2.173 min Scan# 282
Delta R.T. 0.000 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion: 94 Resp: 43027

Ion	Ratio	Lower	Upper
94	100		
96	93.0	75.4	115.4

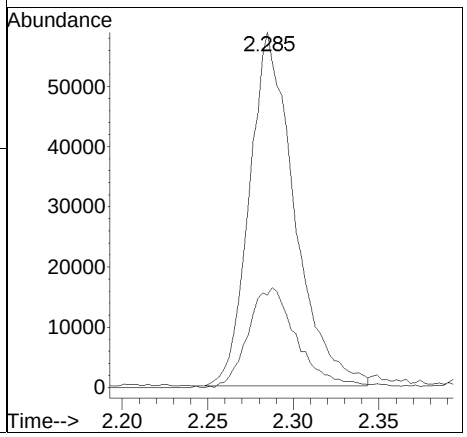


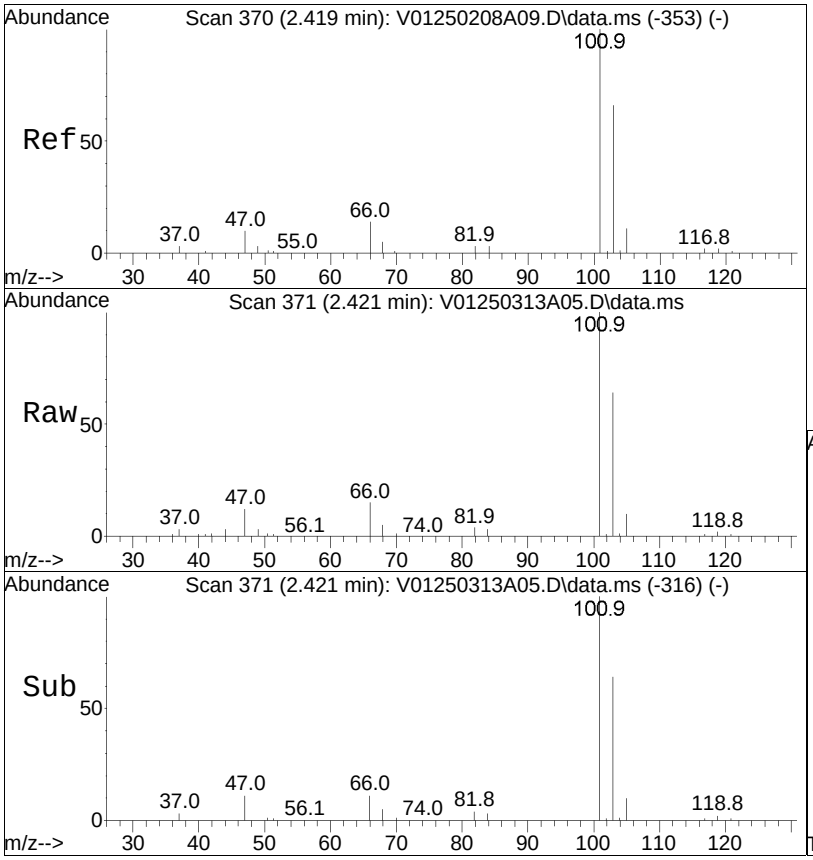


#6
Chloroethane
Concen: 11.71 ug/L
RT: 2.285 min Scan# 322
Delta R.T. -0.000 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion: 64 Resp: 107604

Ion	Ratio	Lower	Upper
64	100		
66	30.5	10.9	50.9

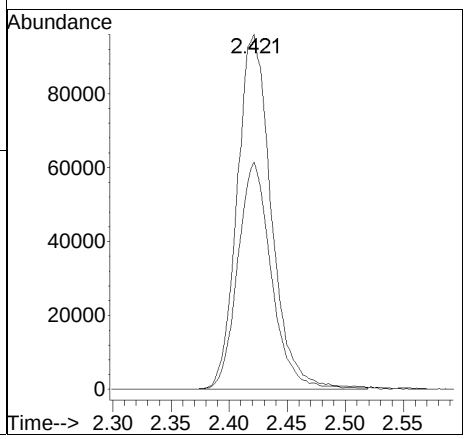


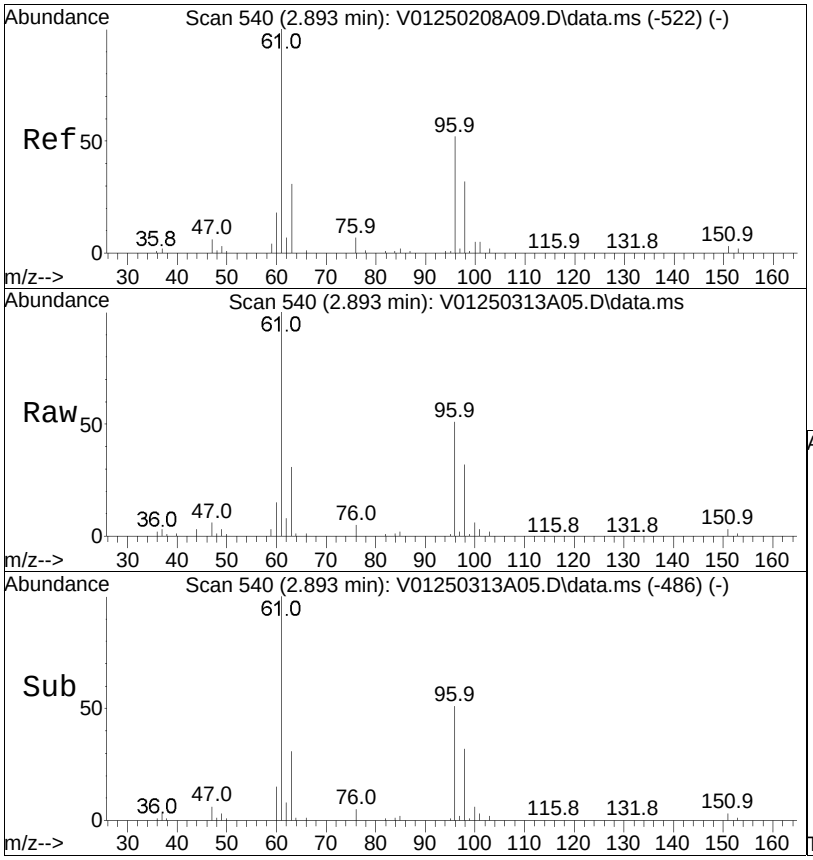


#7
Trichlorofluoromethane
Concen: 9.79 ug/L
RT: 2.421 min Scan# 371
Delta R.T. 0.002 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion:101 Resp: 196740

Ion	Ratio	Lower	Upper
101	100		
103	62.8	52.0	78.0

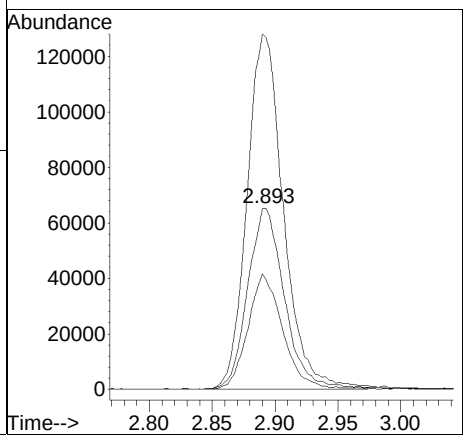


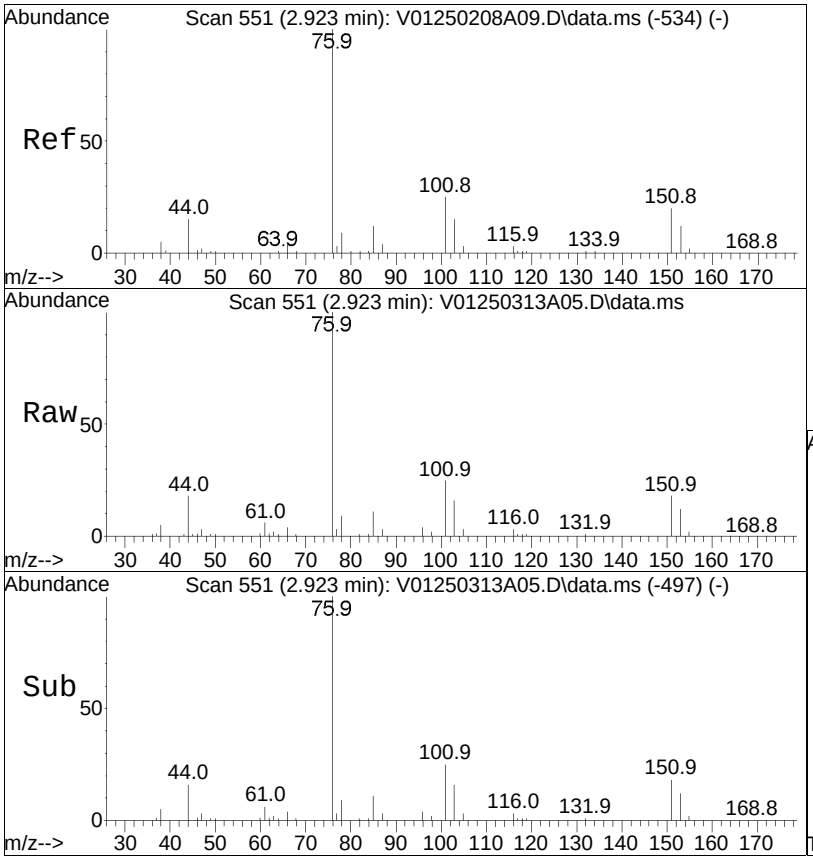


#10
1,1-Dichloroethene
Concen: 9.84 ug/L
RT: 2.893 min Scan# 540
Delta R.T. -0.000 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion: 96 Resp: 133197

Ion	Ratio	Lower	Upper
96	100		
61	194.1	156.6	235.0
63	59.7	49.7	74.5

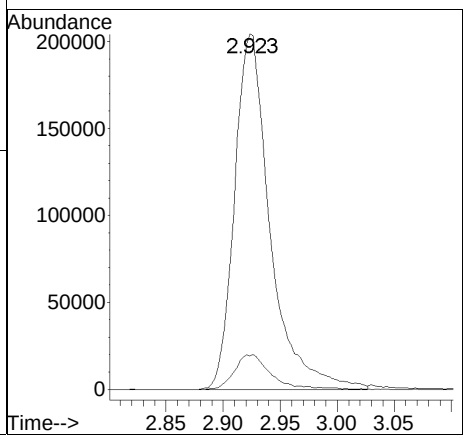


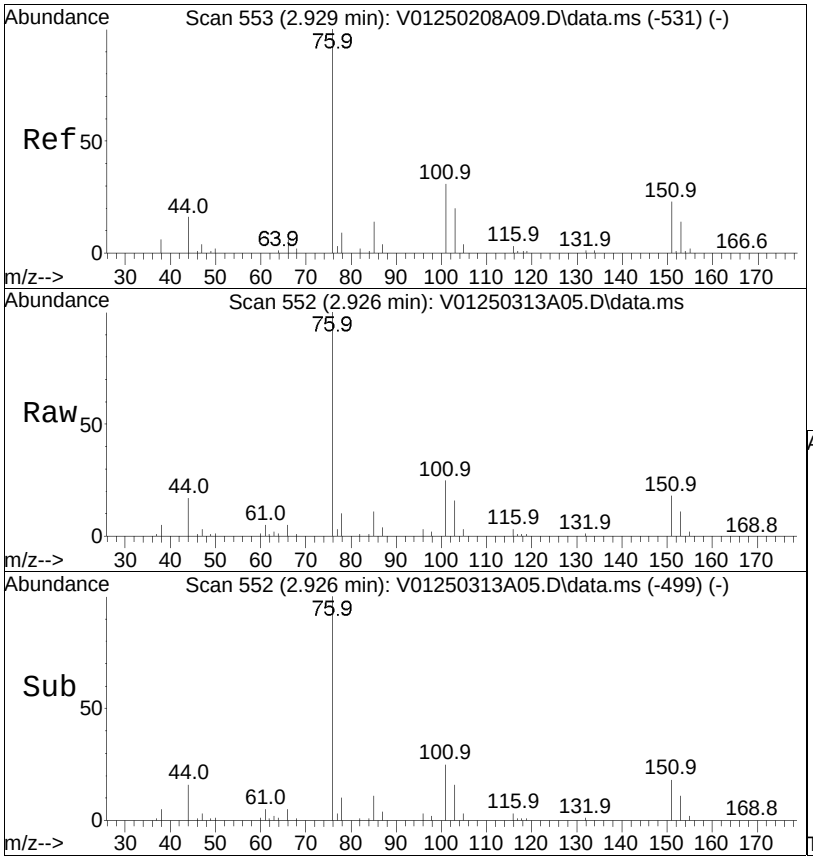


#11
Carbon disulfide
Concen: 9.89 ug/L
RT: 2.923 min Scan# 551
Delta R.T. 0.000 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion: 76 Resp: 443354

Ion	Ratio	Lower	Upper
76	100		
78	9.8	6.3	13.1

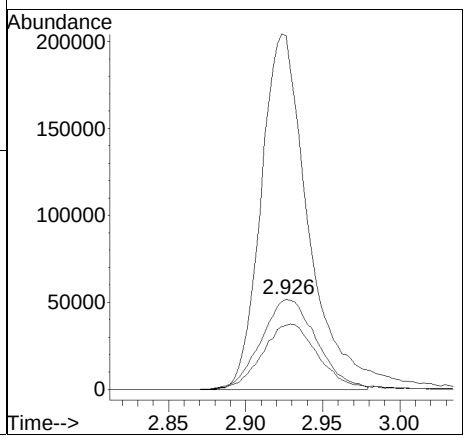


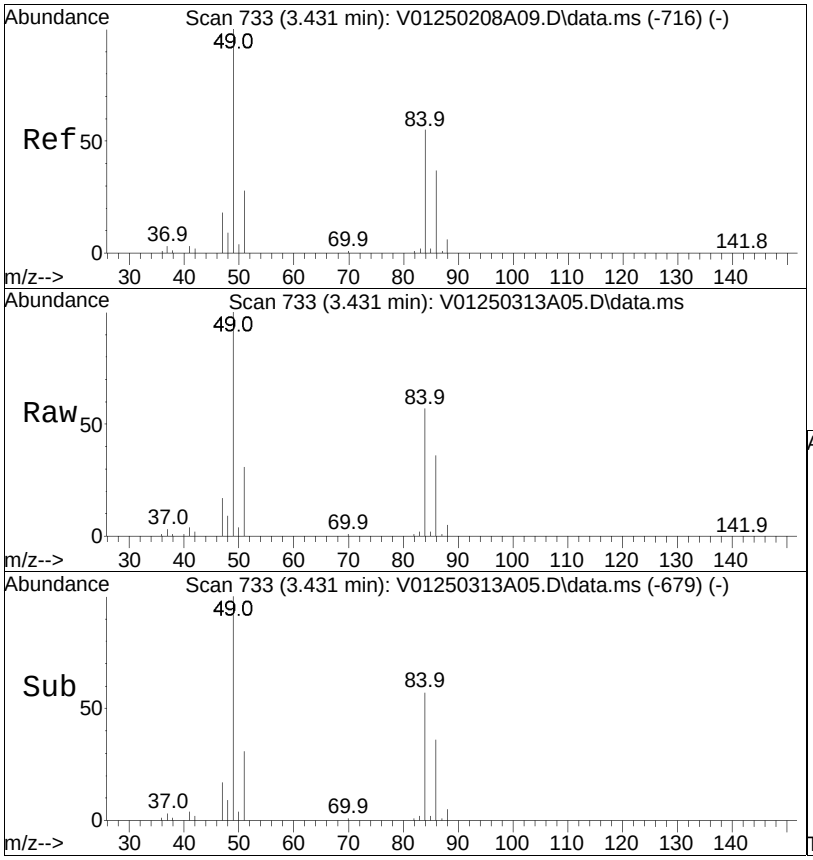


#12
Freon-113
Concen: 9.42 ug/L
RT: 2.926 min Scan# 552
Delta R.T. -0.003 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion:101 Resp: 129779

Ion	Ratio	Lower	Upper
101	100		
151	73.5	59.5	89.3
76	341.6	242.0	363.0

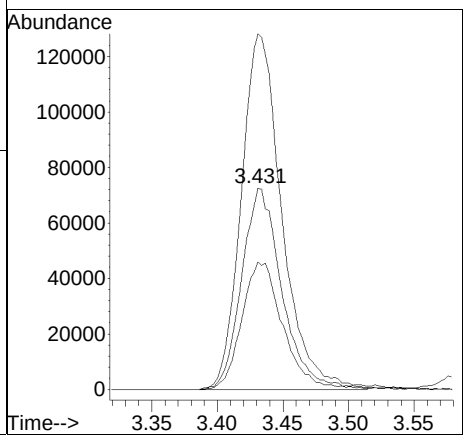


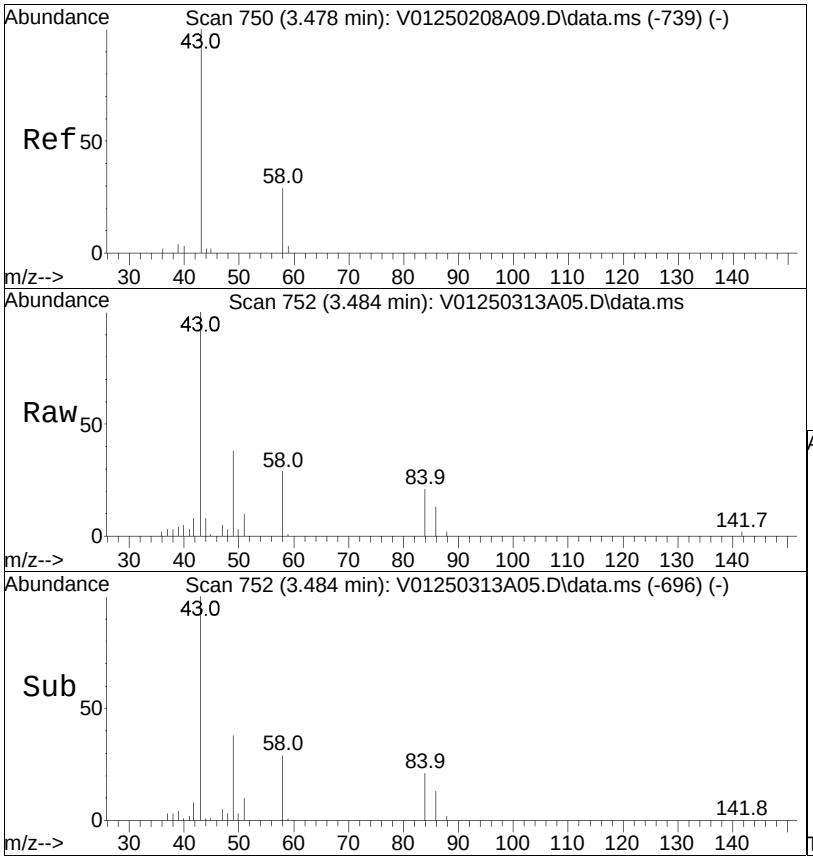


#15
Methylene chloride
Concen: 9.58 ug/L
RT: 3.431 min Scan# 733
Delta R.T. -0.000 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion: 84 Resp: 154736

Ion	Ratio	Lower	Upper
84	100		
86	64.7	41.7	86.5
49	177.9	114.6	238.0

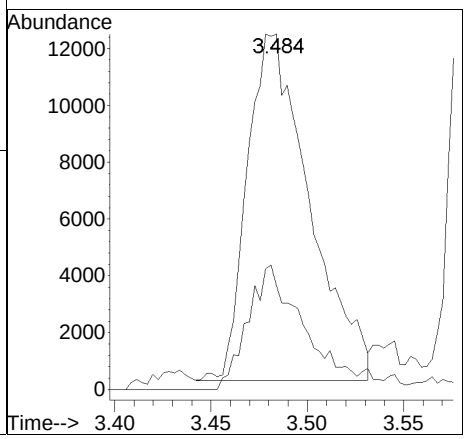


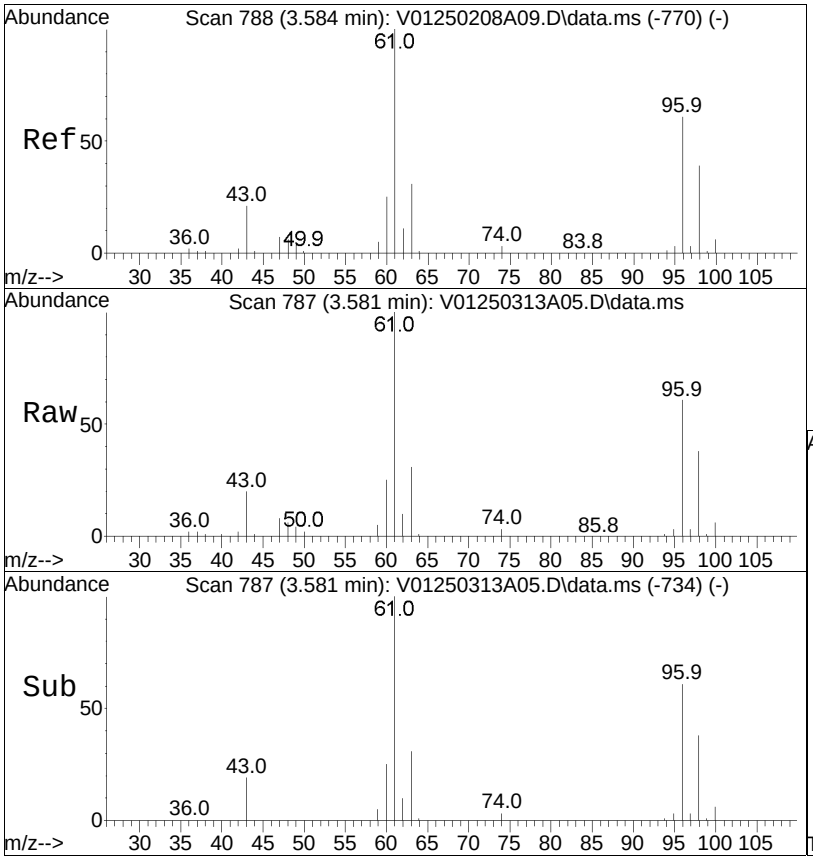


#17
Acetone
Concen: 8.63 ug/L
RT: 3.484 min Scan# 752
Delta R.T. 0.006 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion: 43 Resp: 27448

Ion	Ratio	Lower	Upper
43	100		
58	31.7	22.6	33.8

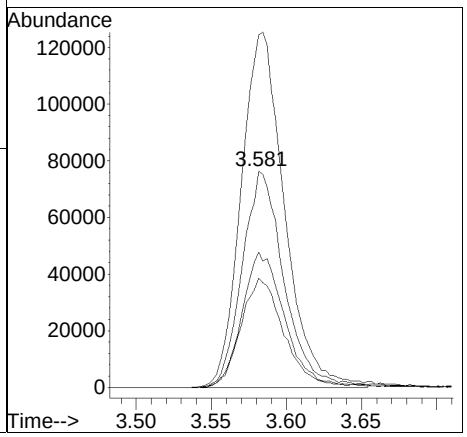


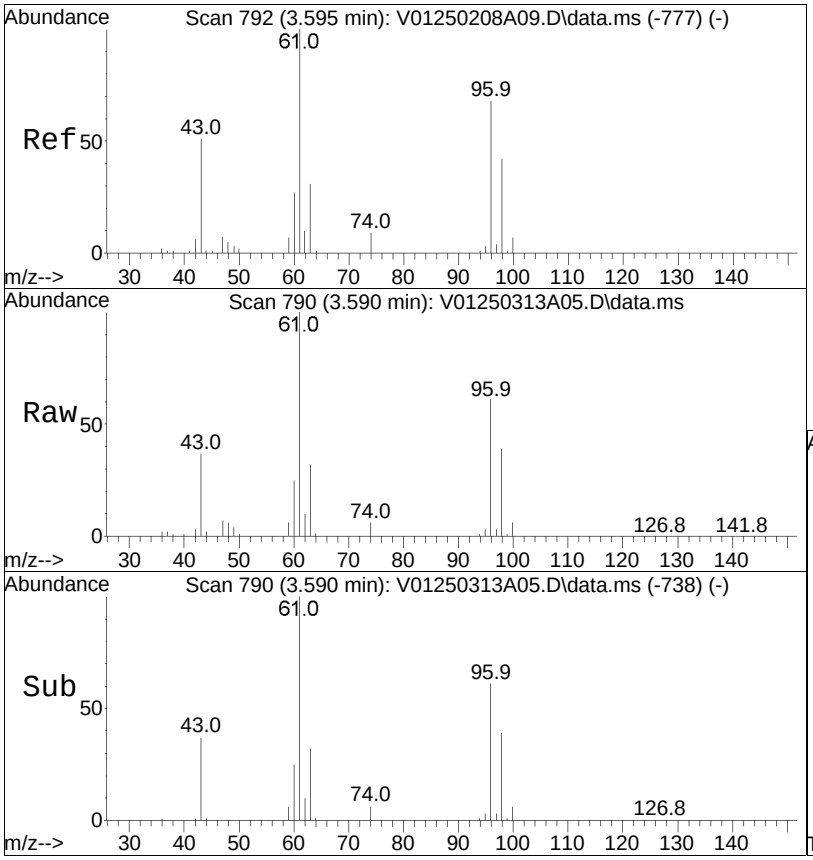


#18
trans-1,2-Dichloroethene
Concen: 9.78 ug/L
RT: 3.581 min Scan# 787
Delta R.T. -0.003 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion: 96 Resp: 147830

Ion	Ratio	Lower	Upper
96	100		
61	171.1	109.8	228.0
98	63.2	41.5	86.1
63	51.5	33.9	70.3

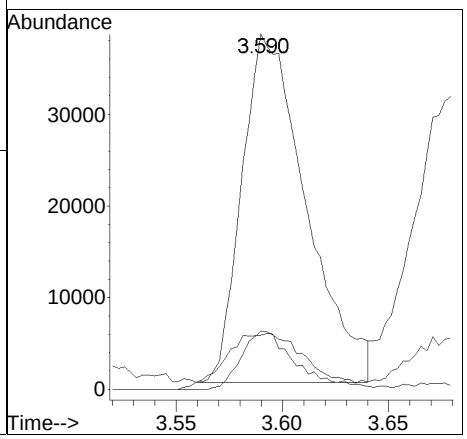


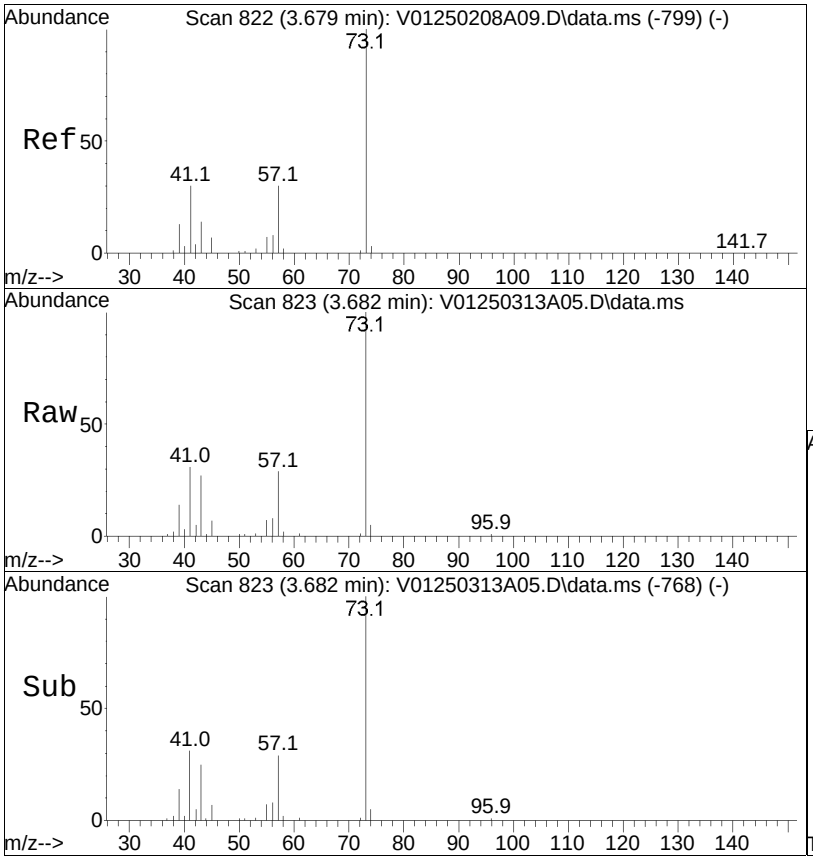


#19
Methyl acetate
Concen: 10.20 ug/L
RT: 3.590 min Scan# 790
Delta R.T. -0.005 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion: 43 Resp: 79737

Ion	Ratio	Lower	Upper
43	100		
74	16.4	13.2	19.8
59	17.7	14.4	21.6

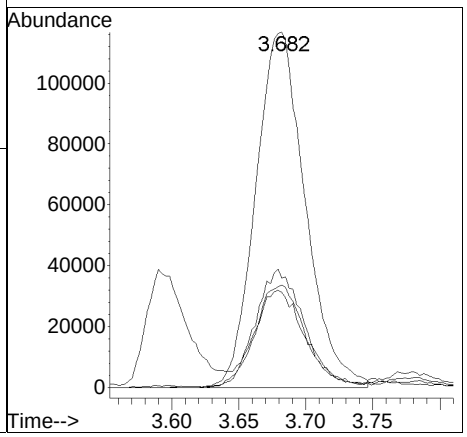


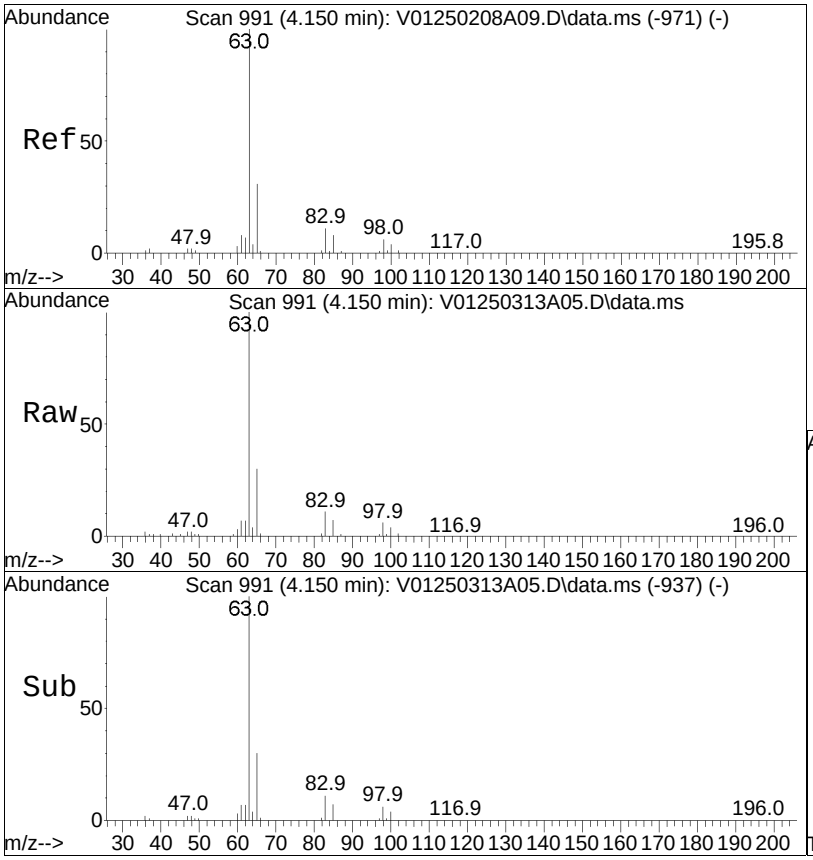


#20
Methyl tert-butyl ether
Concen: 9.51 ug/L
RT: 3.682 min Scan# 823
Delta R.T. 0.003 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion: 73 Resp: 300709

Ion	Ratio	Lower	Upper
73	100		
57	29.1	18.7	38.7
43	26.6	16.1	33.3
41	32.6	21.0	43.6

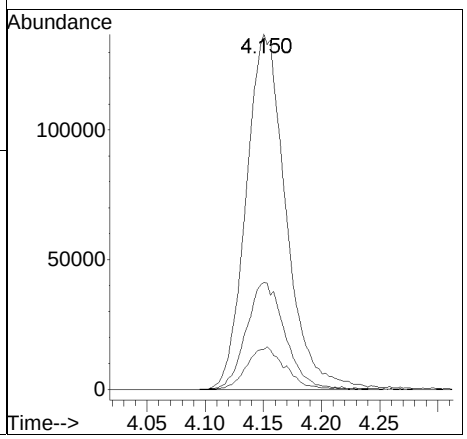


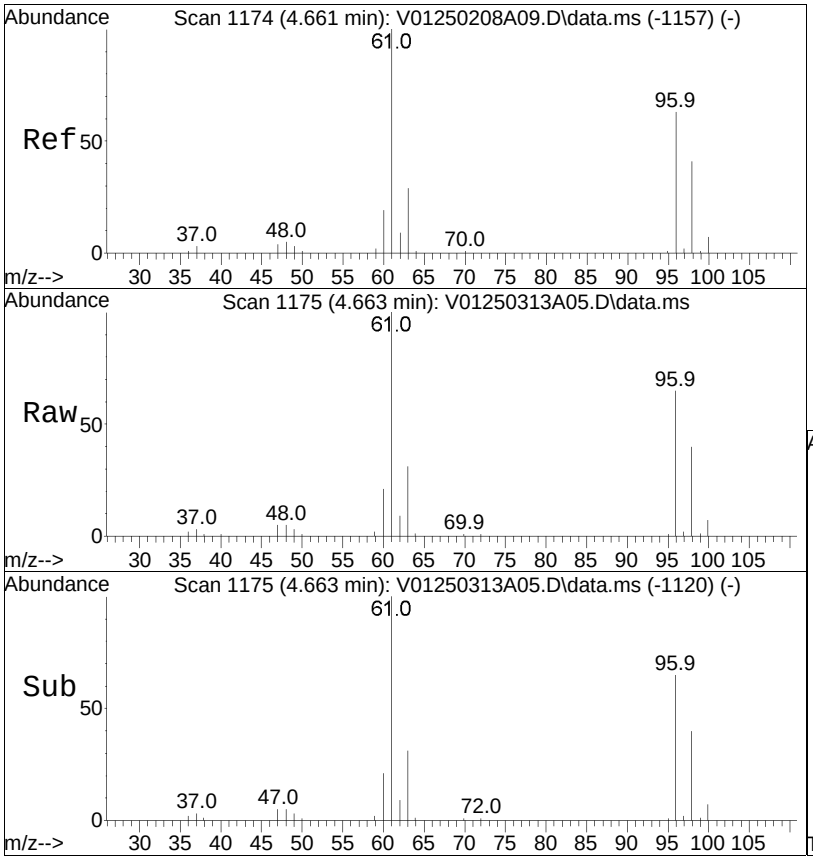


#23
1,1-Dichloroethane
Concen: 10.03 ug/L
RT: 4.150 min Scan# 991
Delta R.T. 0.000 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion: 63 Resp: 325898

Ion	Ratio	Lower	Upper
63	100		
65	29.3	10.3	50.3
83	11.5	0.0	31.1

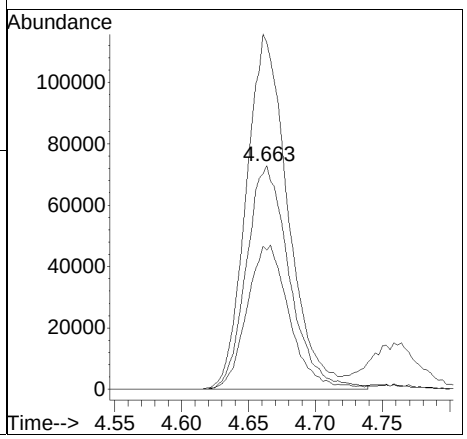


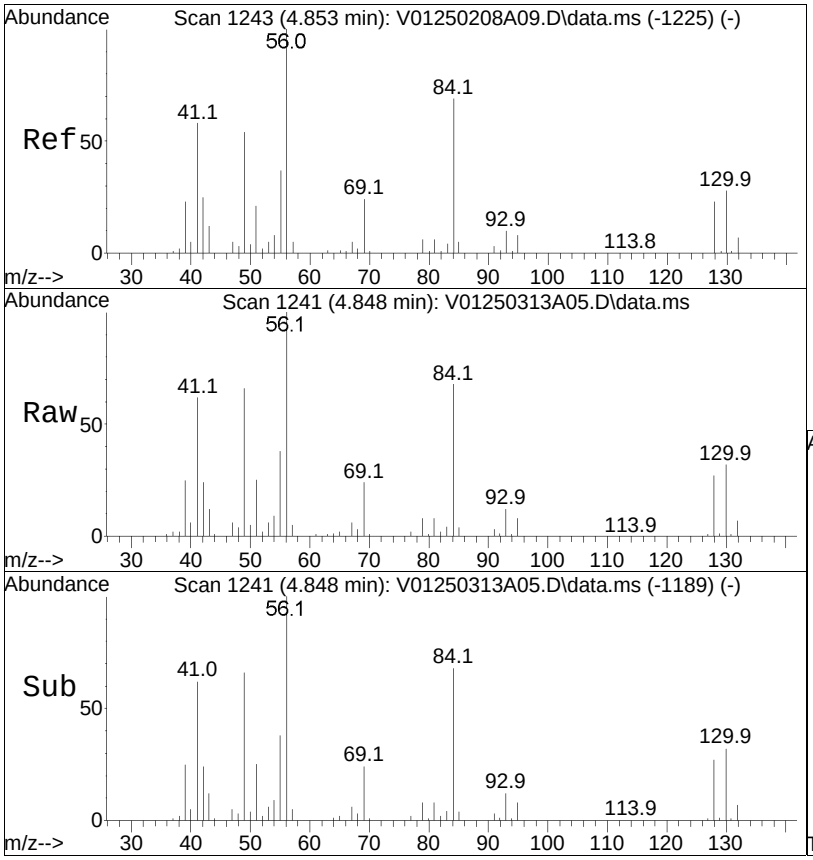


#28
cis-1,2-Dichloroethene
Concen: 9.85 ug/L
RT: 4.663 min Scan# 1175
Delta R.T. 0.002 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion: 96 Resp: 162981

Ion	Ratio	Lower	Upper
96	100		
61	153.7	123.3	184.9
98	63.7	51.0	76.6

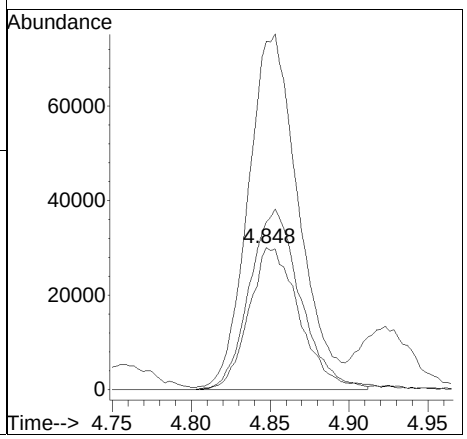


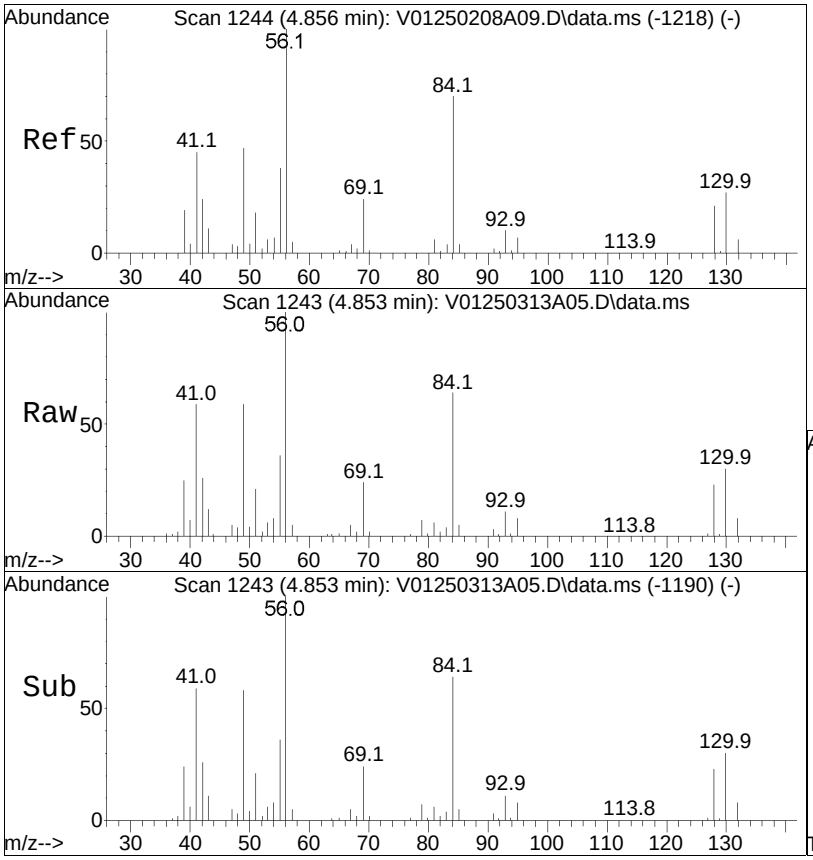


#30
Bromochloromethane
Concen: 10.22 ug/L
RT: 4.848 min Scan# 1241
Delta R.T. -0.005 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion:128 Resp: 66658

Ion	Ratio	Lower	Upper
128	100		
49	247.8	194.0	291.0
130	128.6	104.6	157.0

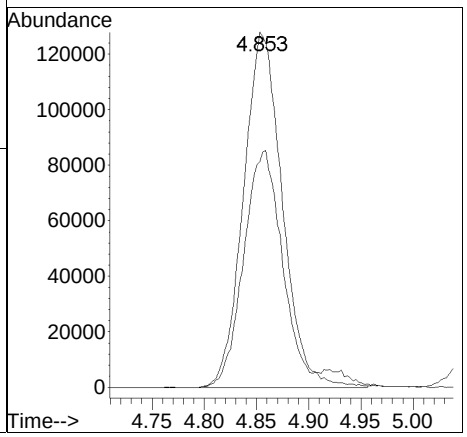


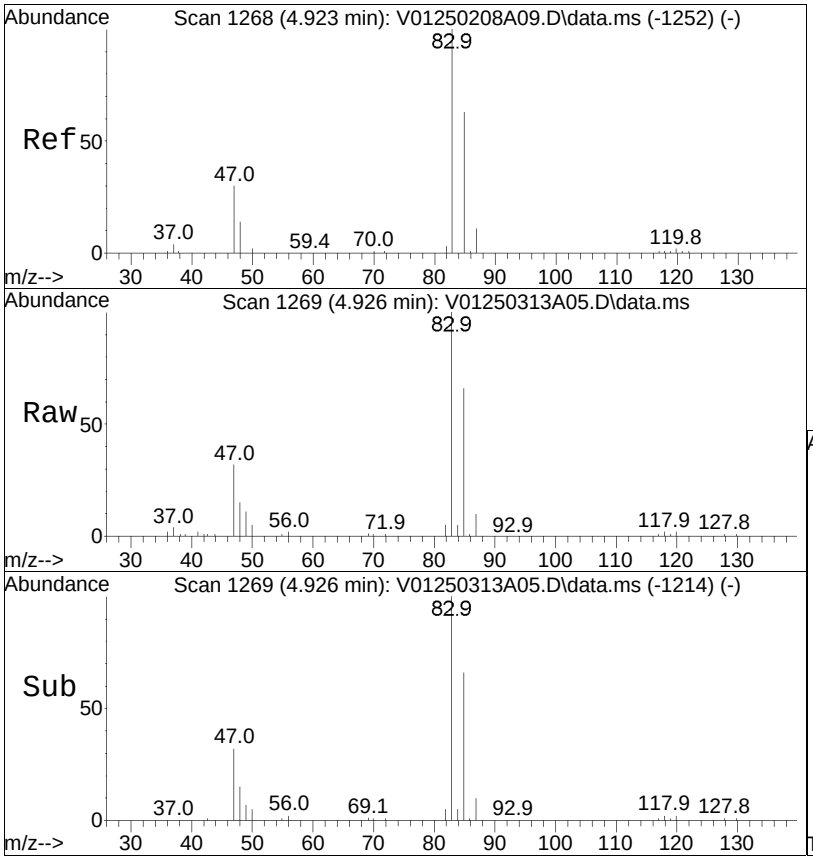


#31
Cyclohexane
Concen: 9.67 ug/L
RT: 4.853 min Scan# 1243
Delta R.T. -0.003 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion: 56 Resp: 330430

Ion	Ratio	Lower	Upper
56	100		
84	66.2	44.3	92.1

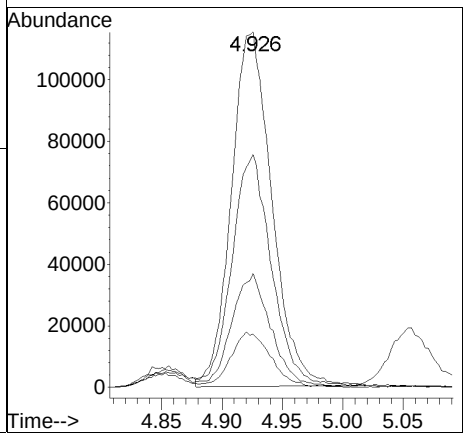


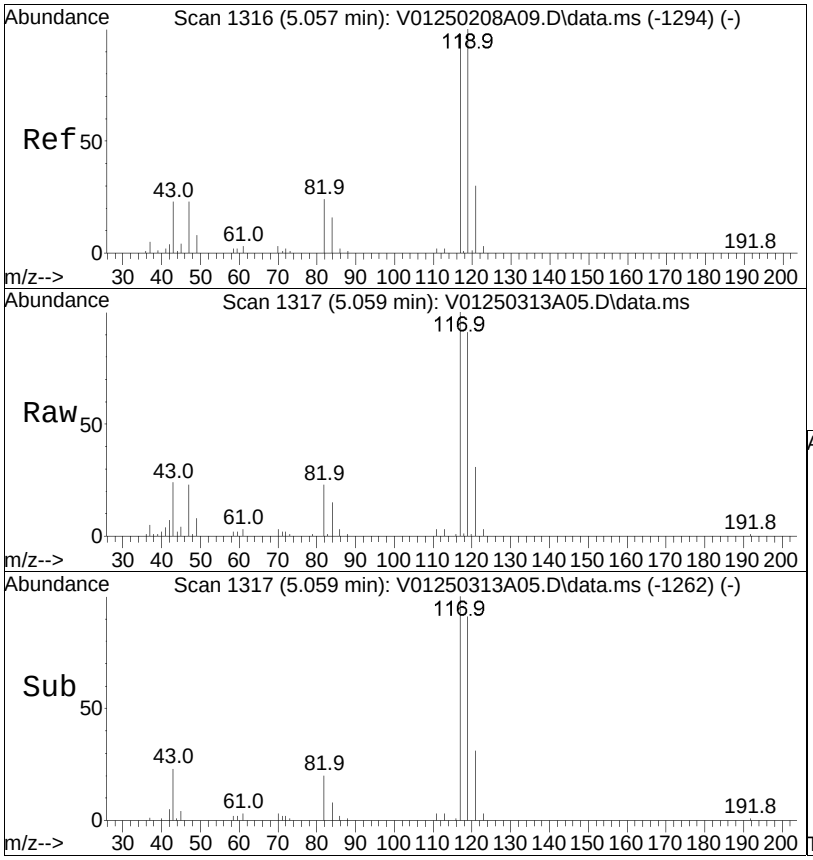


#32
Chloroform
Concen: 10.02 ug/L
RT: 4.926 min Scan# 1269
Delta R.T. 0.003 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion: 83 Resp: 269297

Ion	Ratio	Lower	Upper
83	100		
85	63.5	41.9	87.1
47	30.0	19.2	39.8
48	14.9	9.3	19.3

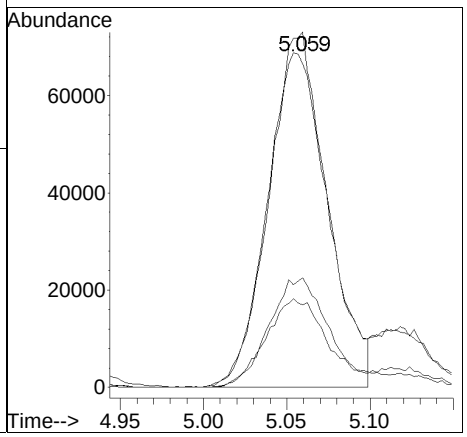


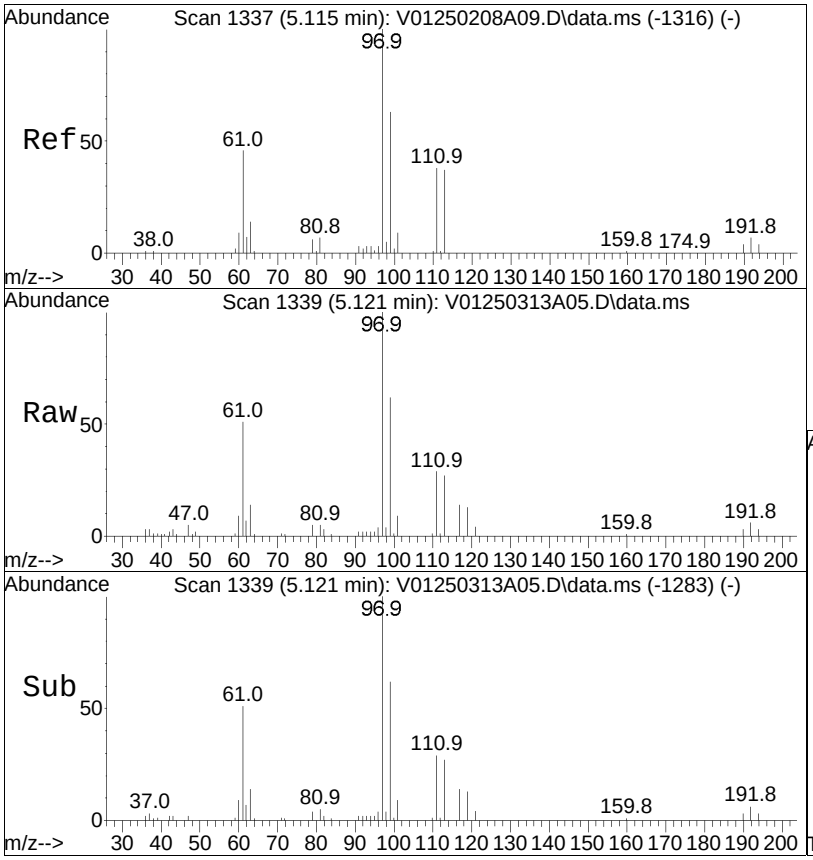


#34
Carbon tetrachloride
Concen: 9.13 ug/L
RT: 5.059 min Scan# 1317
Delta R.T. 0.002 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion:117 Resp: 178959

Ion	Ratio	Lower	Upper
117	100		
119	97.0	65.5	135.9
121	31.9	21.1	43.7
82	26.3	17.2	35.6

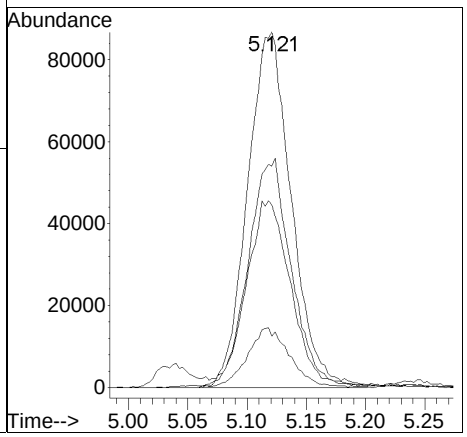


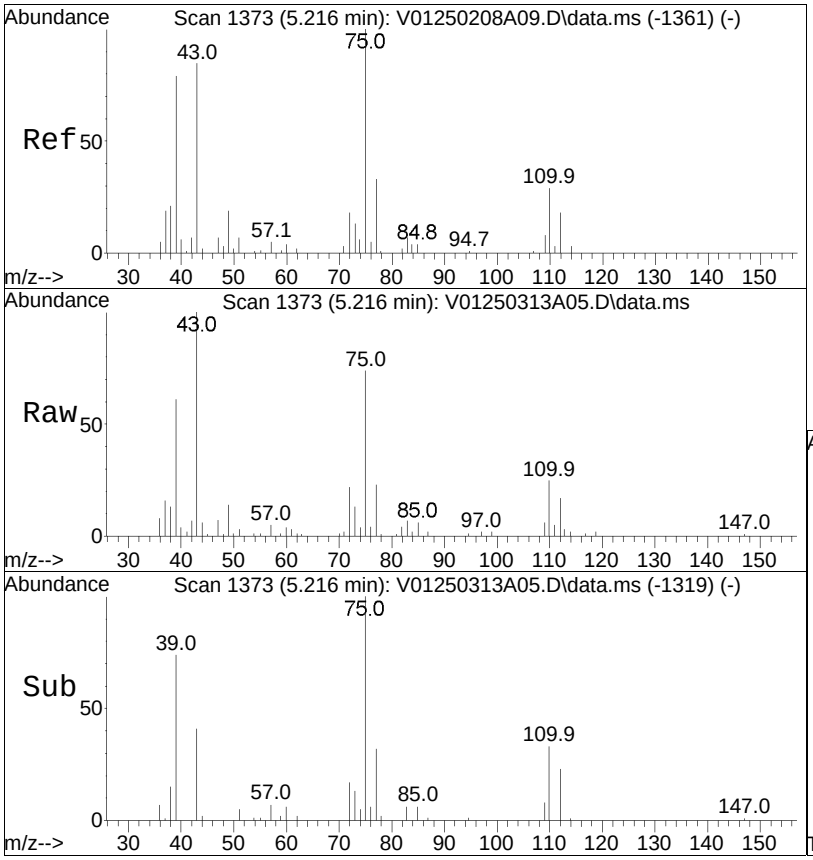


#37
1,1,1-Trichloroethane
Concen: 9.70 ug/L
RT: 5.121 min Scan# 1339
Delta R.T. 0.006 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion: 97 Resp: 223519

Ion	Ratio	Lower	Upper
97	100		
99	63.4	41.7	86.5
61	52.2	33.0	68.6
63	16.1	4.1	8.5#

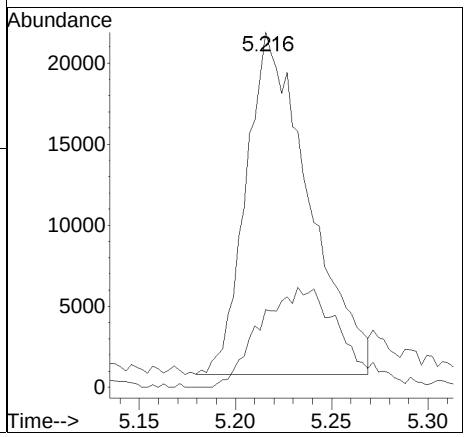


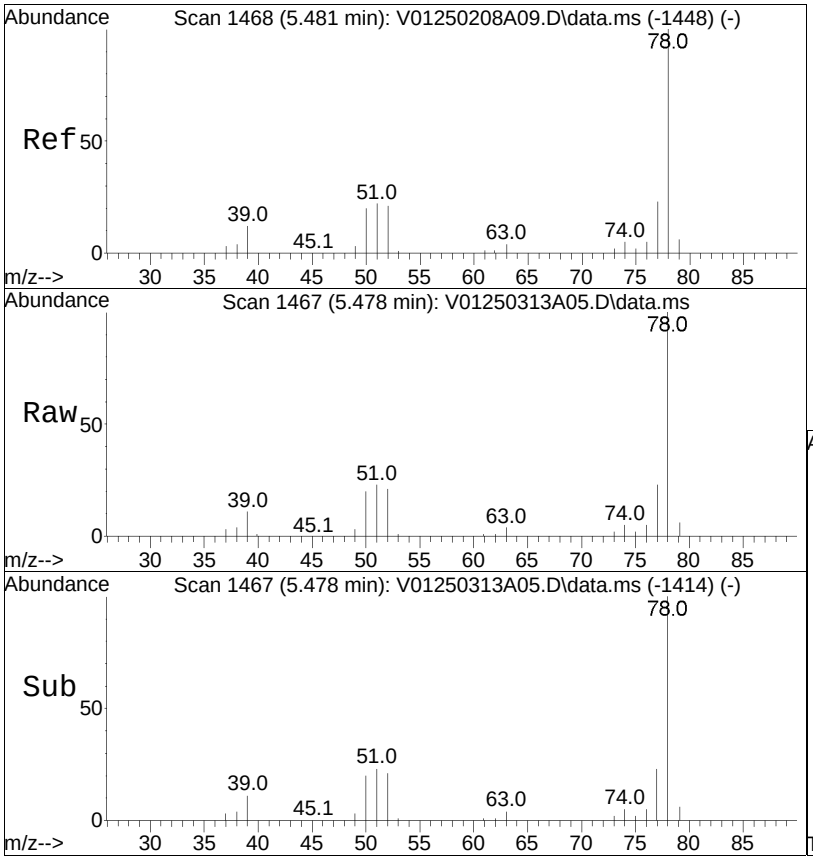


#39
2-Butanone
Concen: 10.71 ug/L
RT: 5.216 min Scan# 1373
Delta R.T. -0.000 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion: 43 Resp: 47839

Ion	Ratio	Lower	Upper
43	100		
72	37.6	16.5	24.7#

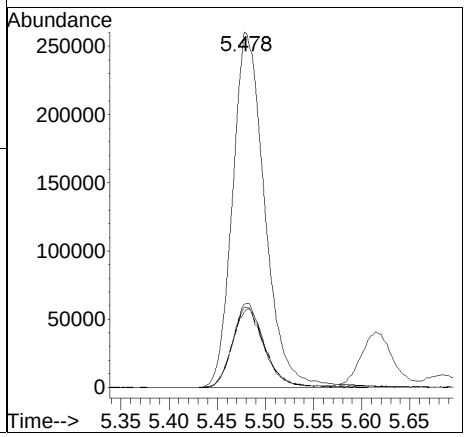


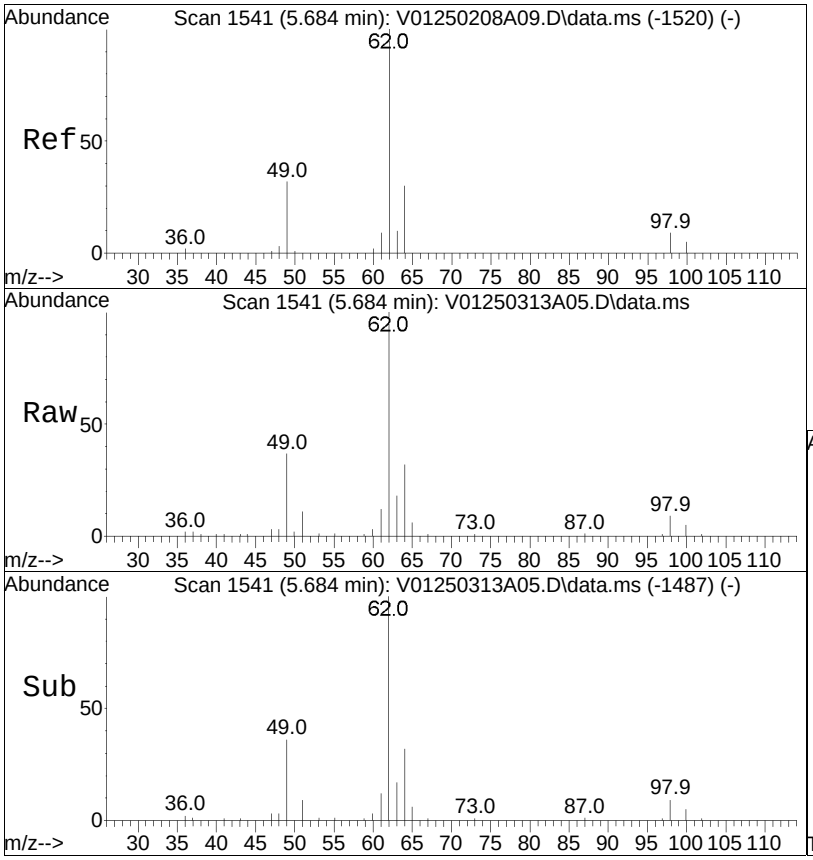


#41
Benzene
Concen: 10.30 ug/L
RT: 5.478 min Scan# 1467
Delta R.T. -0.003 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion: 78 Resp: 606191

Ion	Ratio	Lower	Upper
78	100		
77	23.2	15.0	31.2
51	22.3	14.6	30.2
52	22.0	14.4	30.0

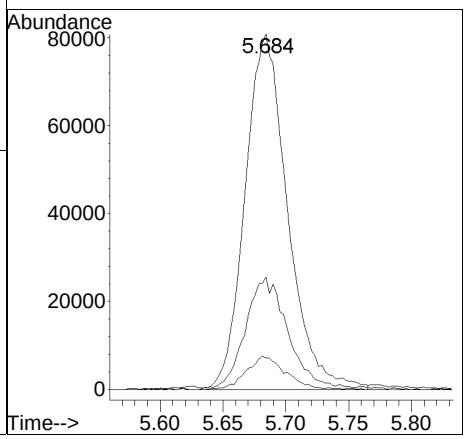


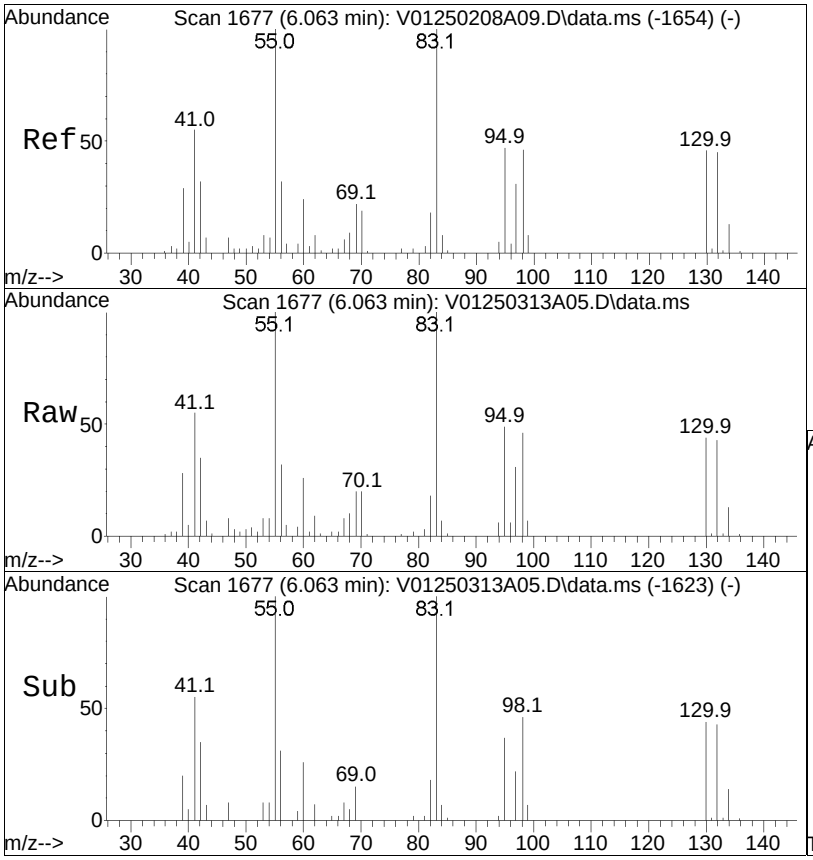


#44
1,2-Dichloroethane
Concen: 9.79 ug/L
RT: 5.684 min Scan# 1541
Delta R.T. 0.000 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion: 62 Resp: 189935

Ion	Ratio	Lower	Upper
62	100		
64	30.1	12.0	52.0
98	8.6	0.0	28.5

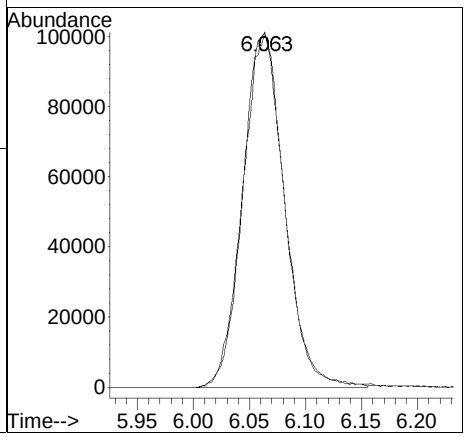


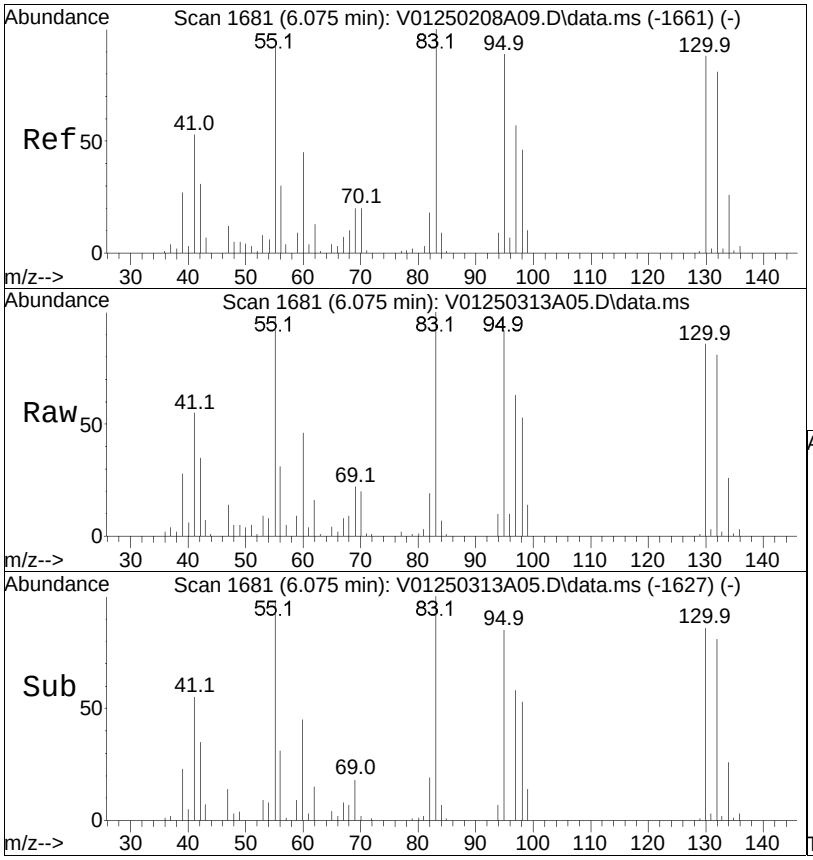


#47
Methyl cyclohexane
Concen: 9.82 ug/L
RT: 6.063 min Scan# 1677
Delta R.T. 0.000 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion: 83 Resp: 259233

Ion	Ratio	Lower	Upper
83	100		
55	101.6	80.2	120.4

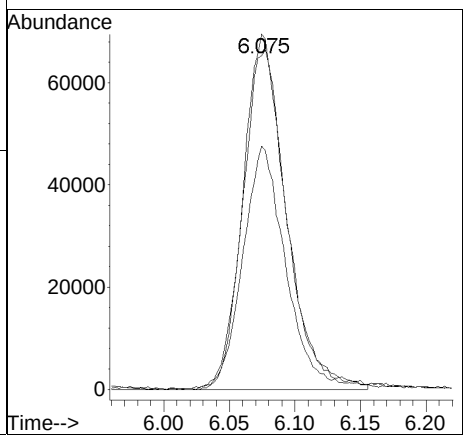


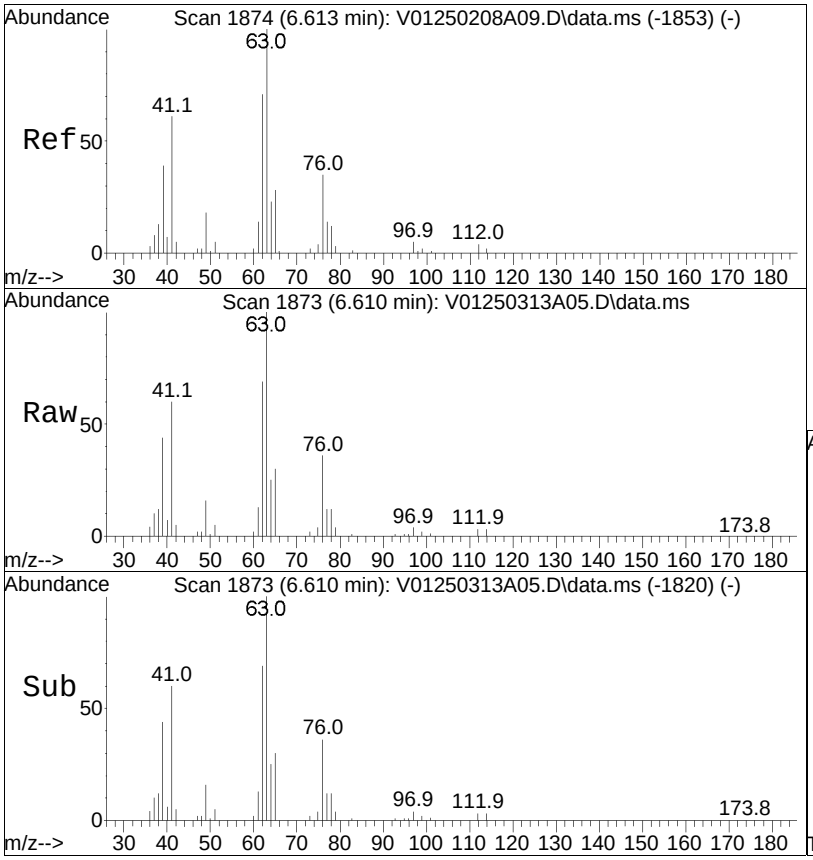


#48
Trichloroethene
Concen: 9.87 ug/L
RT: 6.075 min Scan# 1681
Delta R.T. -0.000 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion: 95 Resp: 160460

Ion	Ratio	Lower	Upper
95	100		
97	68.3	52.6	78.8
130	96.1	78.4	117.6

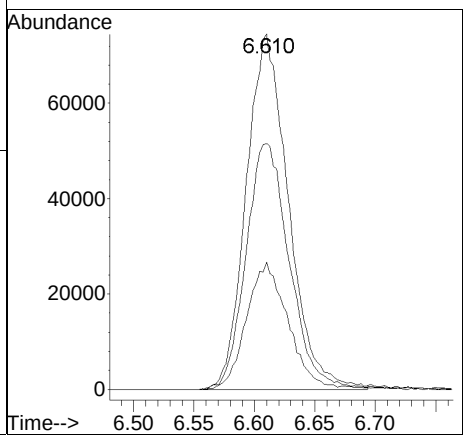


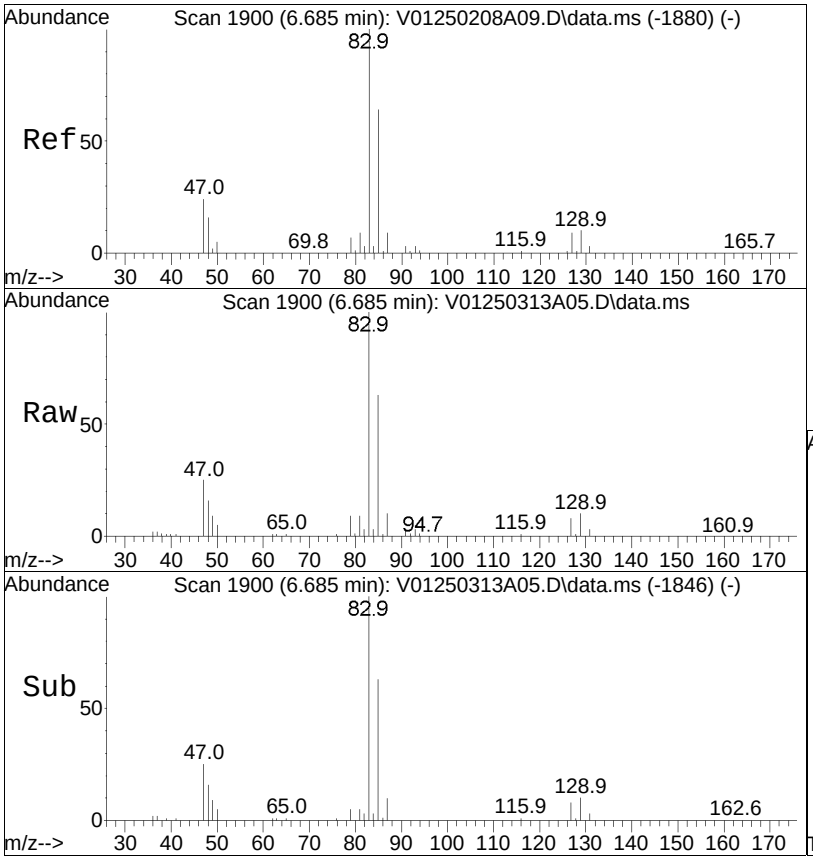


#51
1,2-Dichloropropane
Concen: 10.09 ug/L
RT: 6.610 min Scan# 1873
Delta R.T. -0.003 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion: 63 Resp: 181181

Ion	Ratio	Lower	Upper
63	100		
62	71.0	57.2	85.8
76	34.8	29.8	44.8

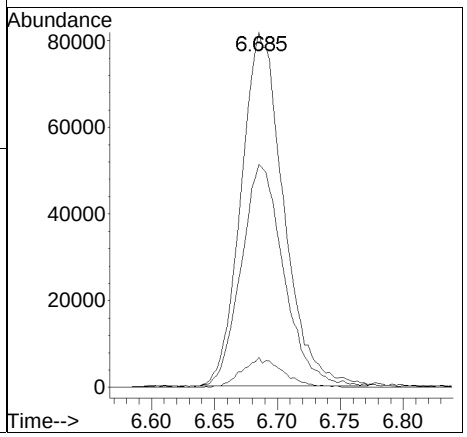


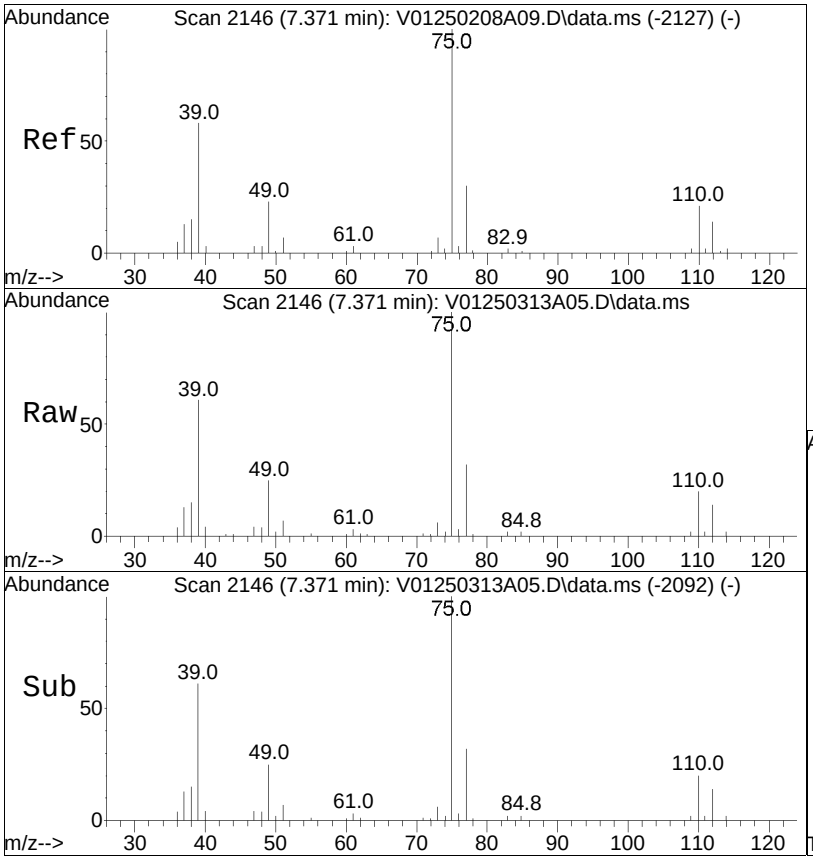


#54
Bromodichloromethane
Concen: 9.64 ug/L
RT: 6.685 min Scan# 1900
Delta R.T. 0.000 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion: 83 Resp: 192122

Ion	Ratio	Lower	Upper
83	100		
85	64.1	51.0	76.4
127	8.2	6.6	9.8

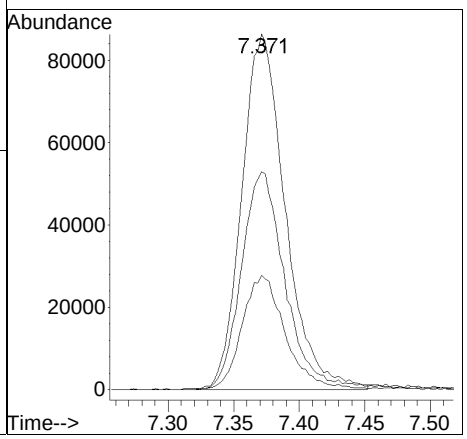


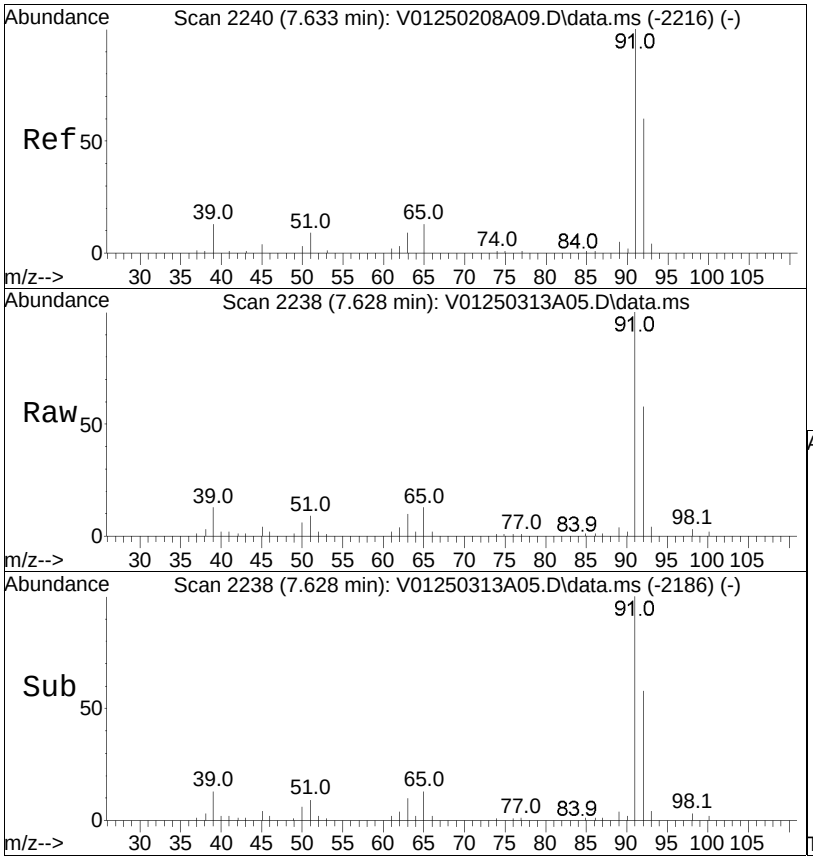


#58
cis-1,3-Dichloropropene
Concen: 9.02 ug/L
RT: 7.371 min Scan# 2146
Delta R.T. 0.000 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion: 75 Resp: 199231

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.4	38.0
39	60.6	47.9	71.9

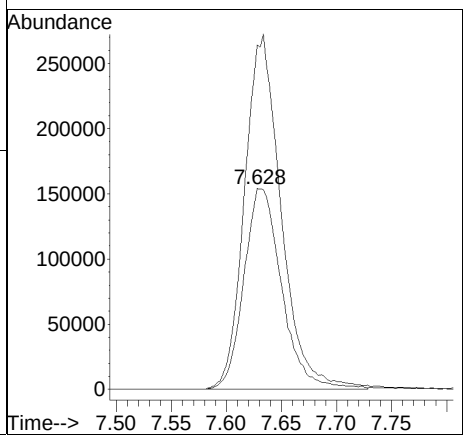


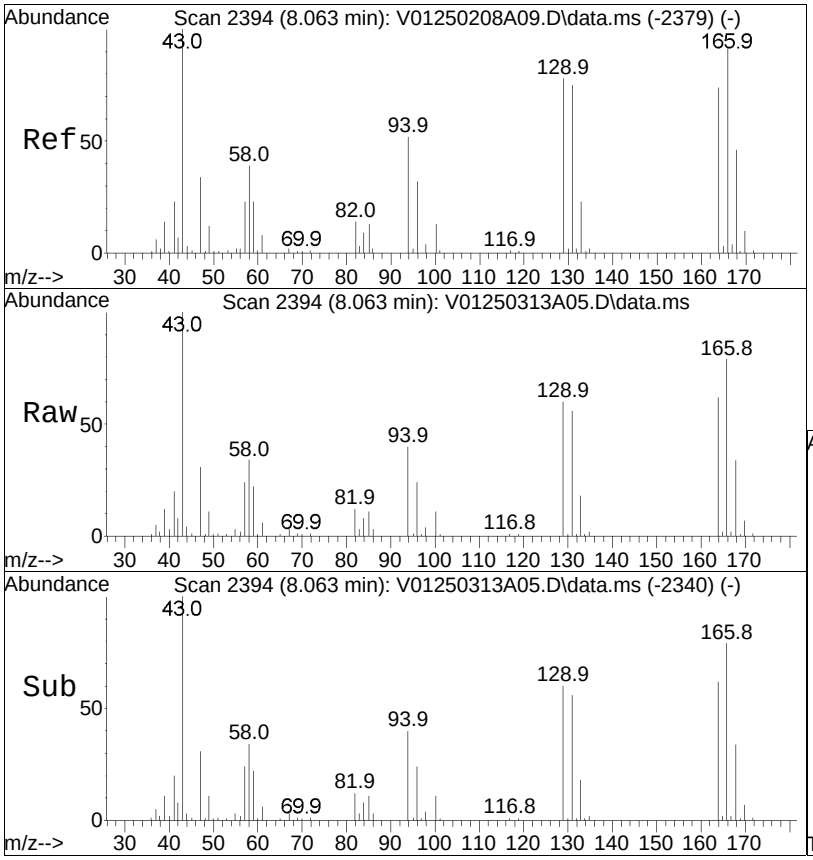


#61
Toluene
Concen: 10.35 ug/L
RT: 7.628 min Scan# 2238
Delta R.T. -0.005 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion: 92 Resp: 369674

Ion	Ratio	Lower	Upper
92	100		
91	170.6	136.0	204.0

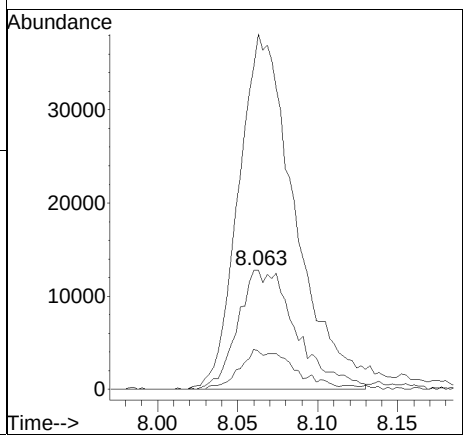


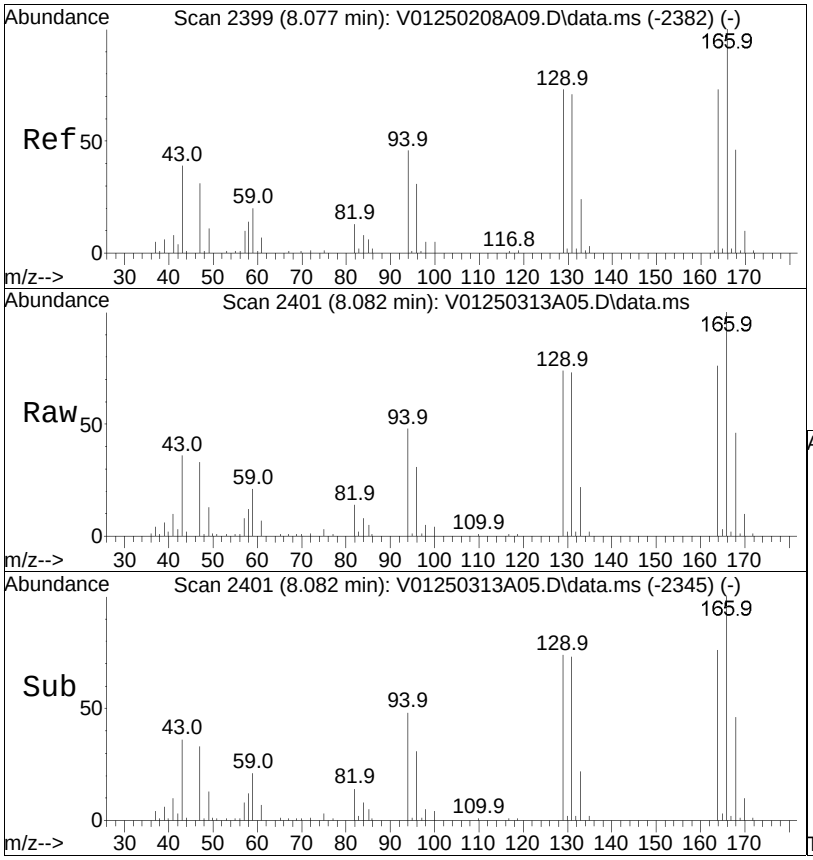


#62
4-Methyl-2-pentanone
Concen: 9.43 ug/L M1
RT: 8.063 min Scan# 2394
Delta R.T. -0.000 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion: 58 Resp: 32564

Ion	Ratio	Lower	Upper
58	100		
100	15.7	24.6	36.8#
43	293.0	231.0	346.6

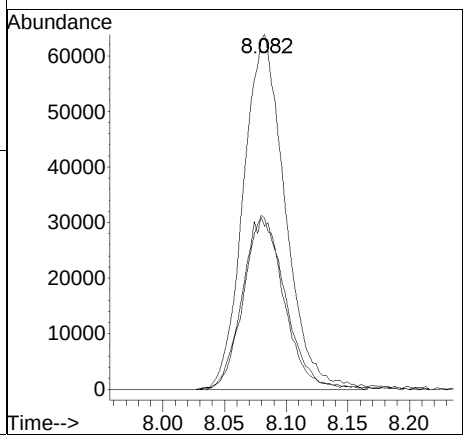


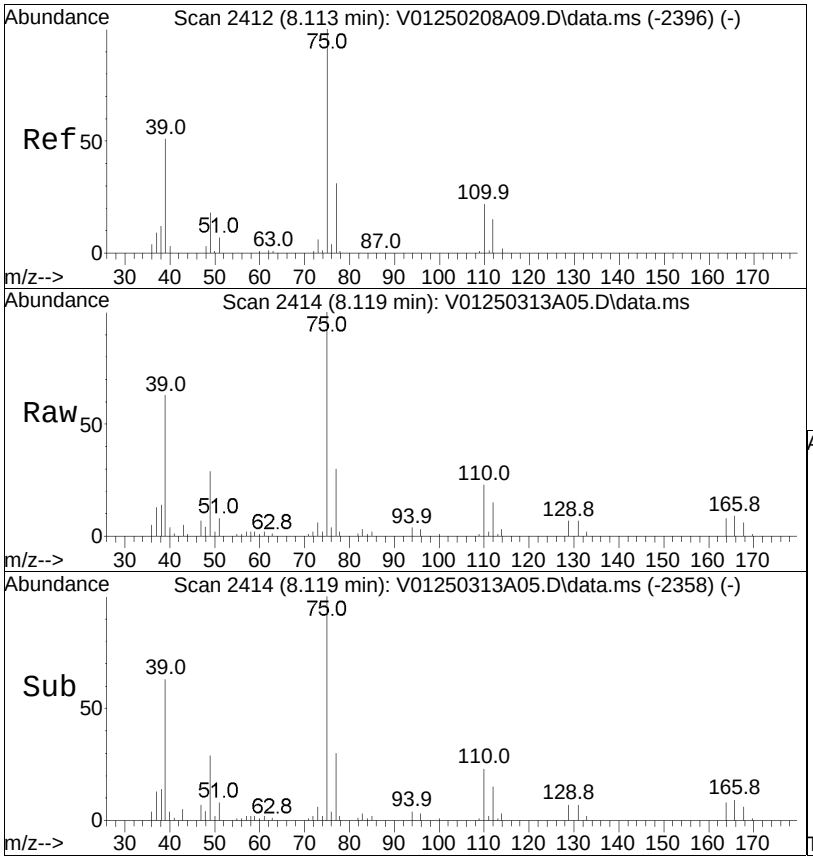


#63
Tetrachloroethene
Concen: 10.49 ug/L
RT: 8.082 min Scan# 2401
Delta R.T. 0.005 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion:166 Resp: 150066

Ion	Ratio	Lower	Upper
166	100		
168	49.0	28.4	68.4
94	48.6	29.3	69.3

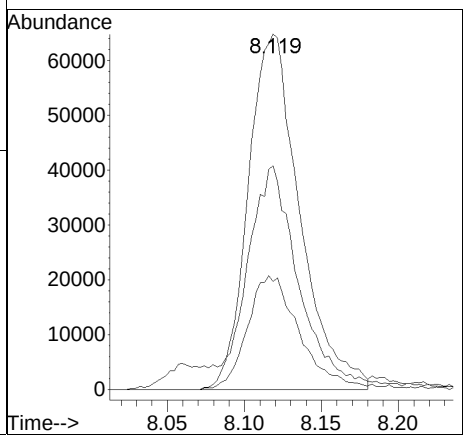


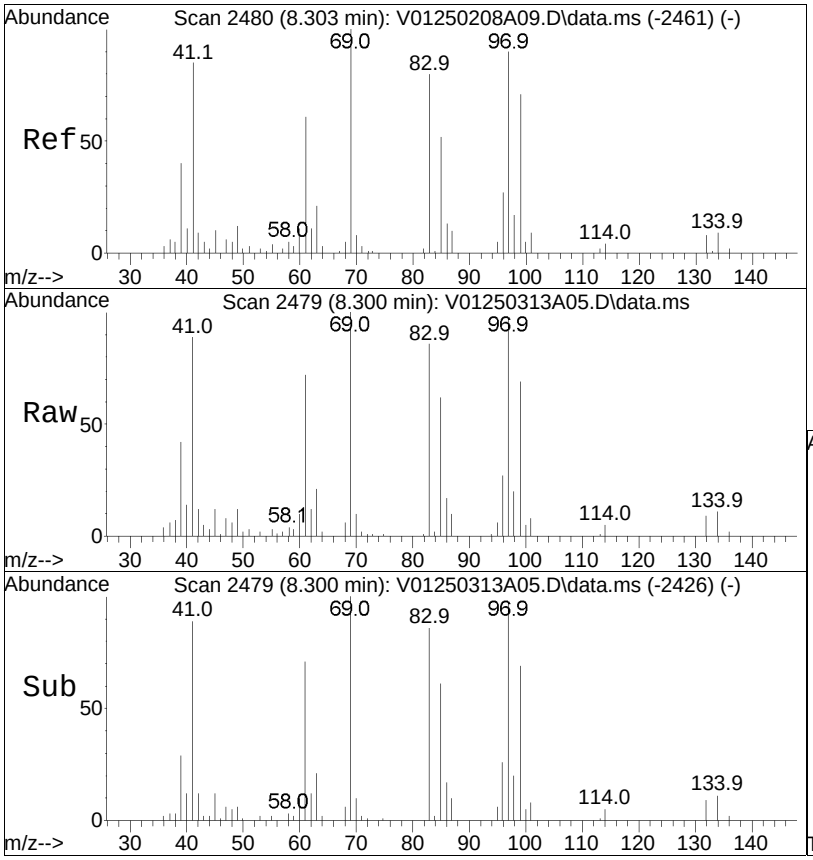


#65
trans-1,3-Dichloropropene
Concen: 9.07 ug/L
RT: 8.119 min Scan# 2414
Delta R.T. 0.006 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion: 75 Resp: 150657

Ion	Ratio	Lower	Upper
75	100		
77	32.2	11.1	51.1
39	62.3	36.8	76.8

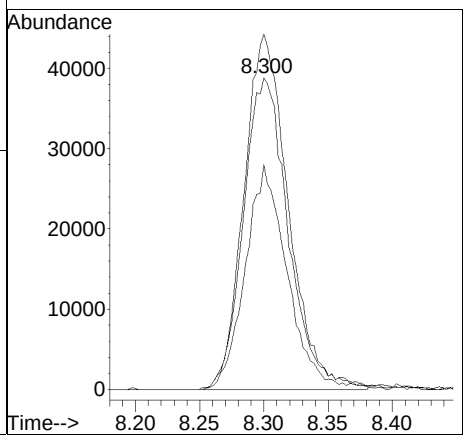


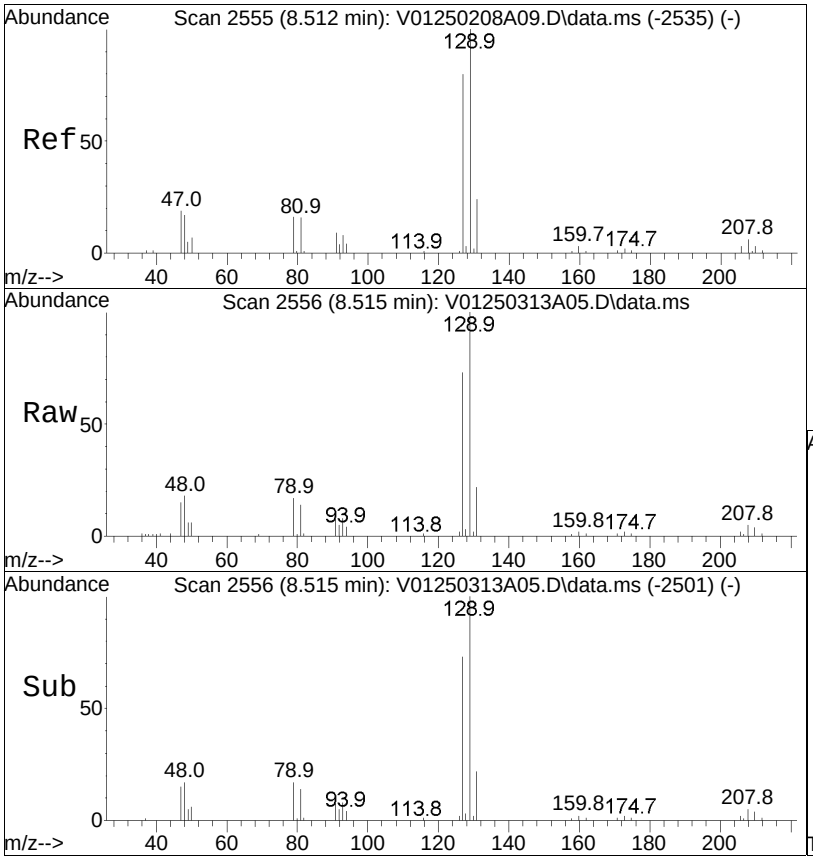


#68
1,1,2-Trichloroethane
Concen: 10.59 ug/L
RT: 8.300 min Scan# 2479
Delta R.T. -0.003 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion: 83 Resp: 94647

Ion	Ratio	Lower	Upper
83	100		
97	112.9	95.7	135.7
85	66.7	45.8	85.8

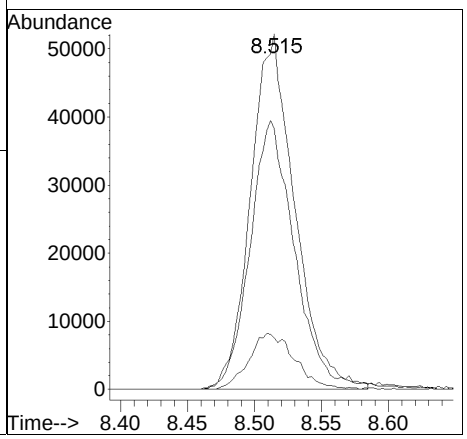


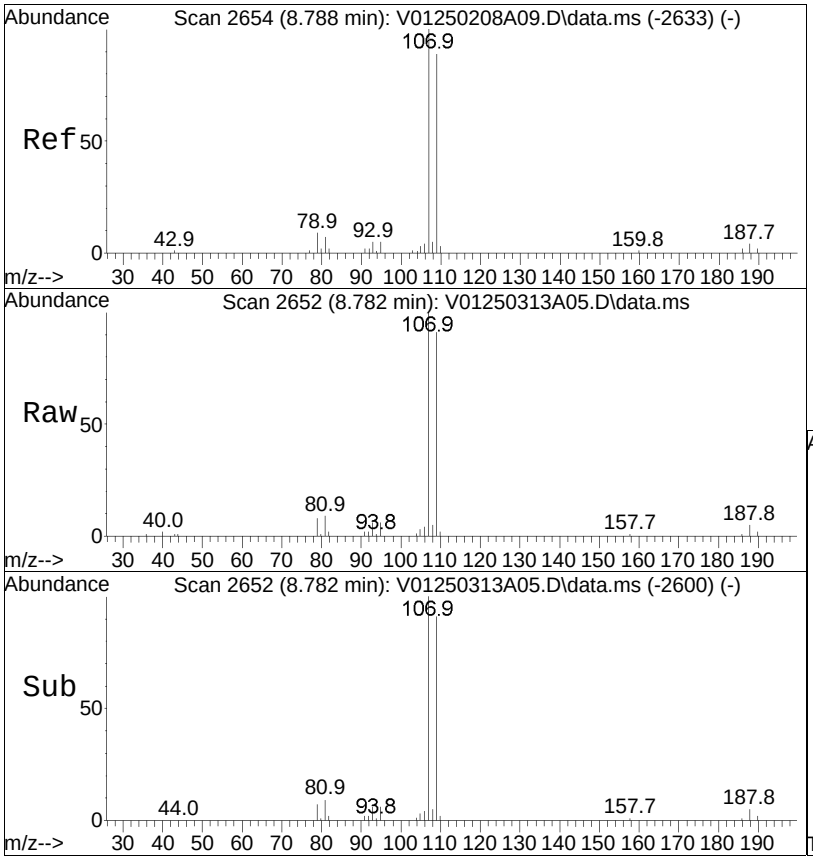


#69
Chlorodibromomethane
Concen: 9.68 ug/L
RT: 8.515 min Scan# 2556
Delta R.T. 0.003 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion:129 Resp: 119515

Ion	Ratio	Lower	Upper
129	100		
81	16.4	0.0	35.9
127	76.0	58.8	98.8

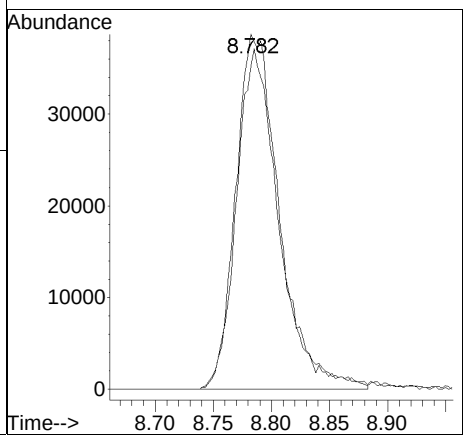


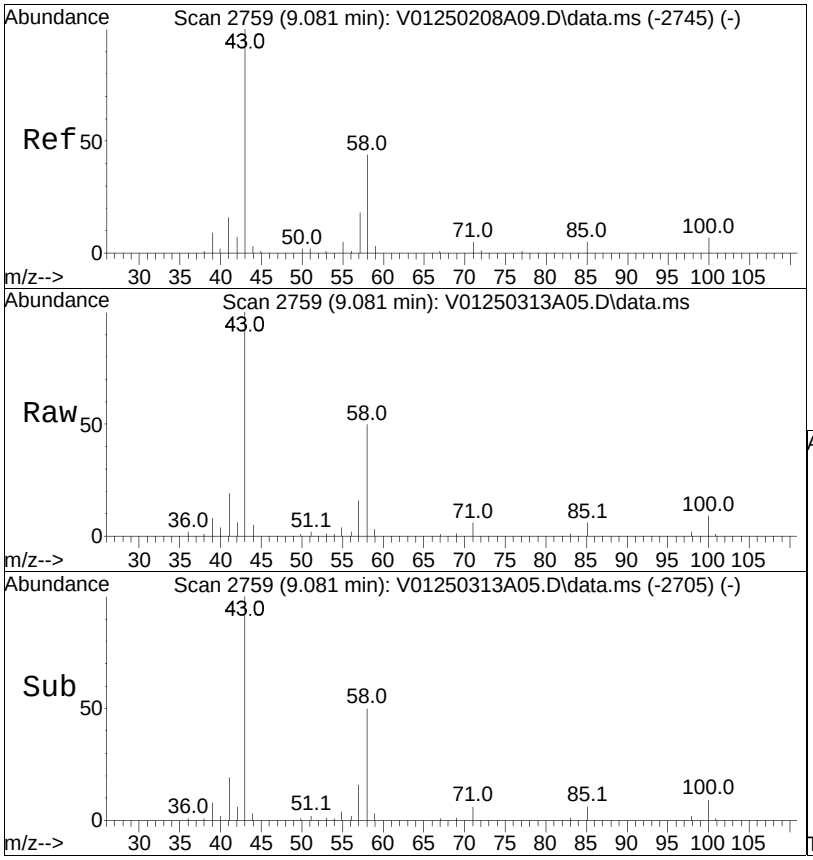


#71
1,2-Dibromoethane
Concen: 10.47 ug/L
RT: 8.782 min Scan# 2652
Delta R.T. -0.006 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion:107 Resp: 101606

Ion	Ratio	Lower	Upper
107	100		
109	91.8	74.7	112.1

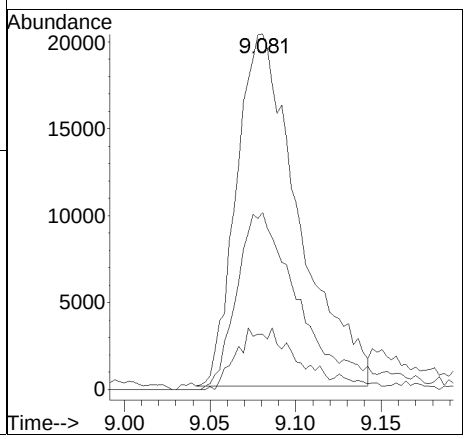


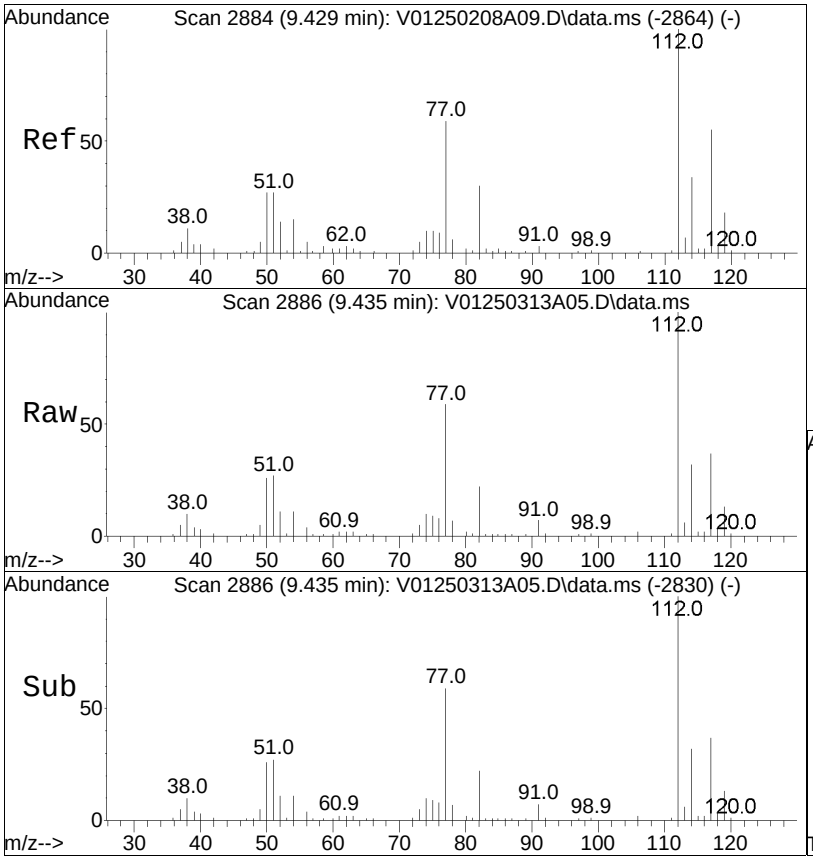


#72
2-Hexanone
Concen: 8.53 ug/L
RT: 9.081 min Scan# 2759
Delta R.T. -0.000 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion: 43 Resp: 51367

Ion	Ratio	Lower	Upper
43	100		
58	50.4	35.9	53.9
57	6.3	13.5	20.3#

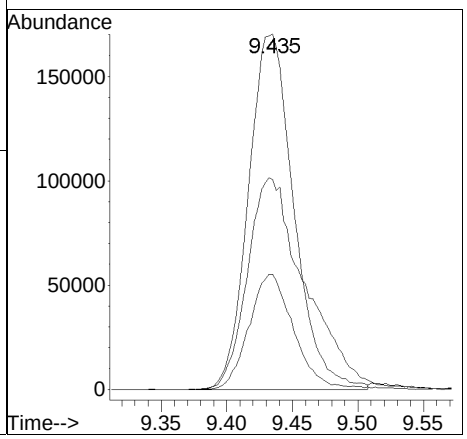


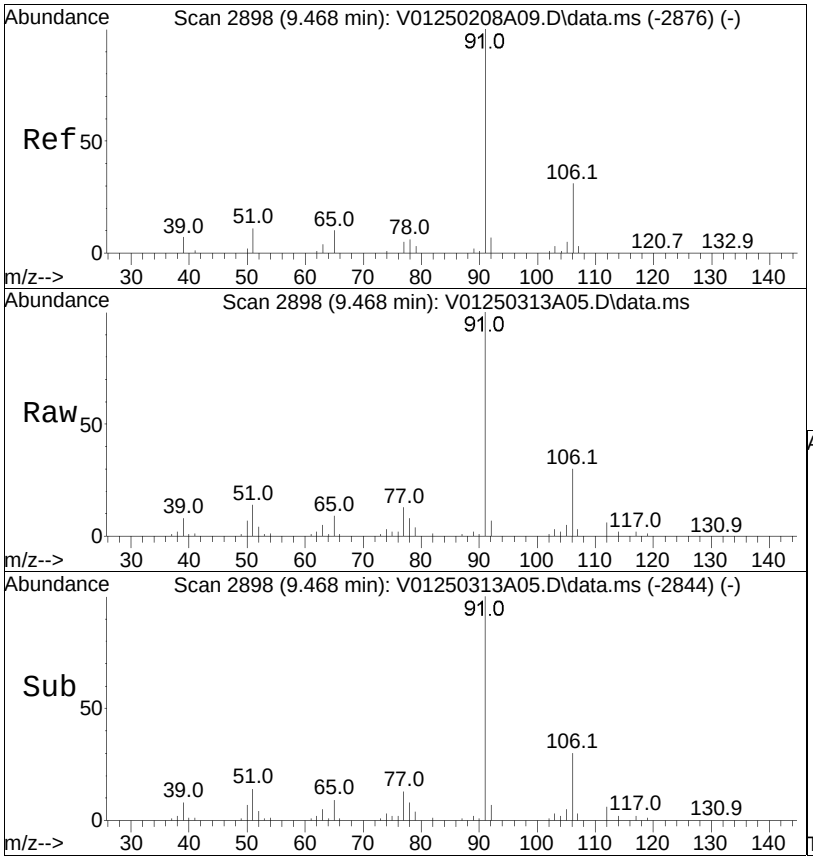


#73
Chlorobenzene
Concen: 10.35 ug/L
RT: 9.435 min Scan# 2886
Delta R.T. 0.006 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion:112 Resp: 410094

Ion	Ratio	Lower	Upper
112	100		
77	76.5	60.9	91.3
114	31.6	25.7	38.5

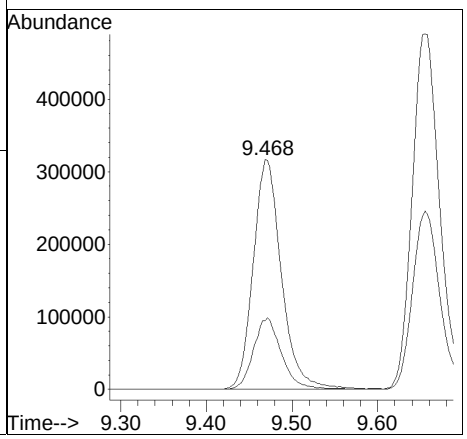


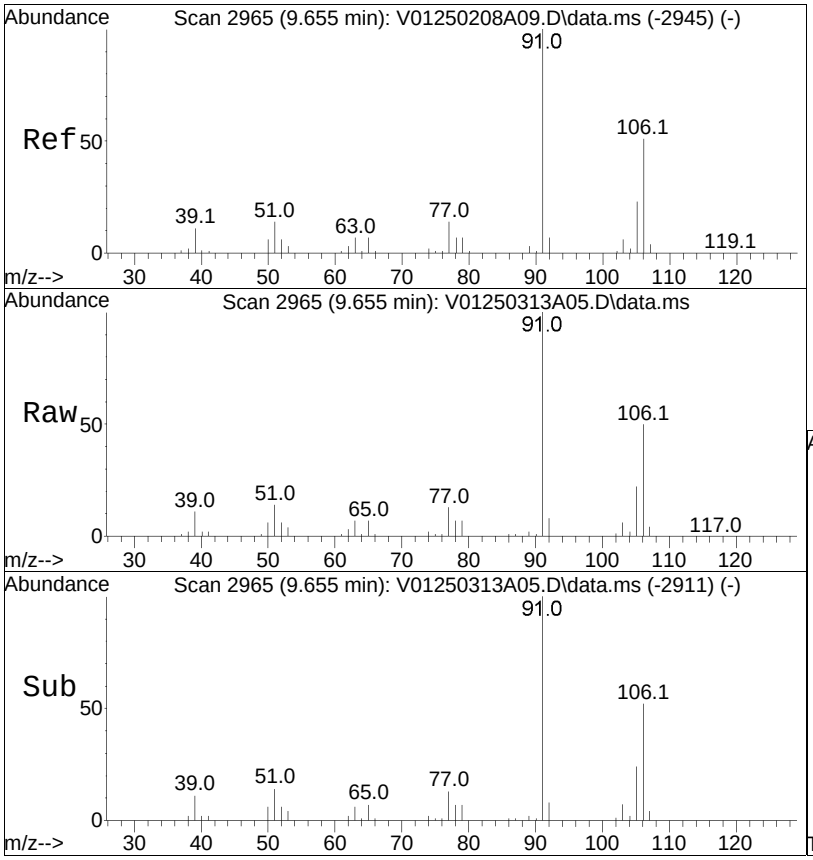


#74
Ethylbenzene
Concen: 10.57 ug/L
RT: 9.468 min Scan# 2898
Delta R.T. 0.000 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion: 91 Resp: 728464

Ion	Ratio	Lower	Upper
91	100		
106	30.6	25.1	37.7

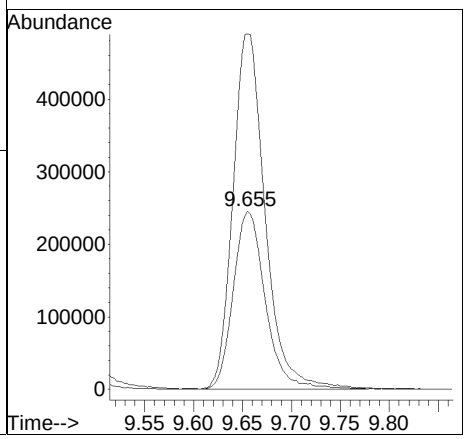


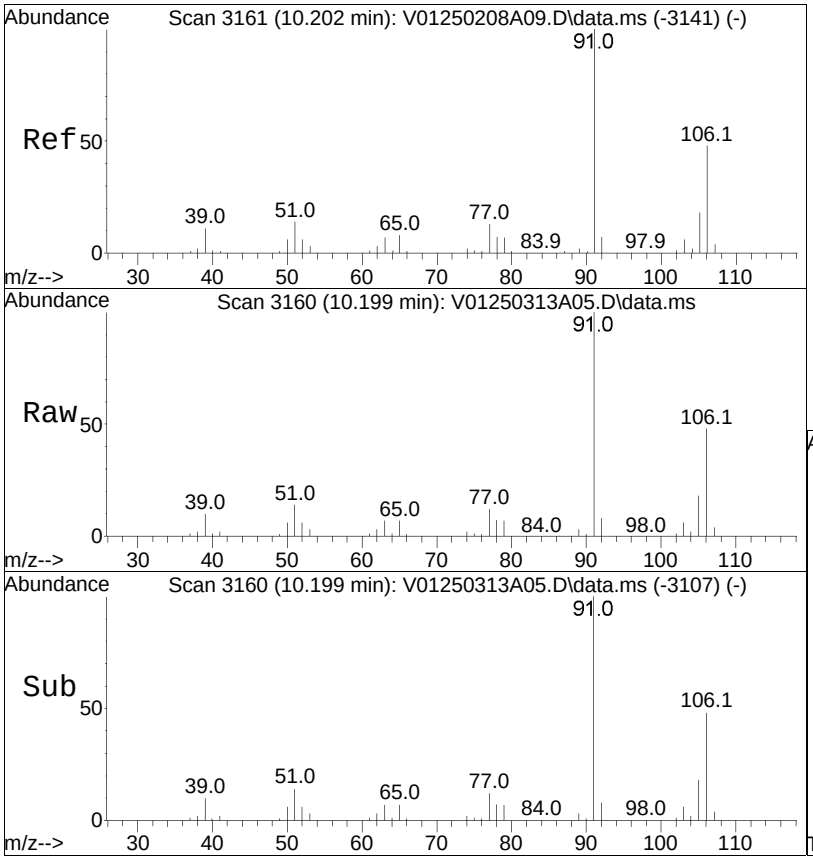


#76
p/m Xylene
Concen: 21.32 ug/L
RT: 9.655 min Scan# 2965
Delta R.T. 0.000 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion:106 Resp: 560758

Ion	Ratio	Lower	Upper
106	100		
91	199.0	159.6	239.4

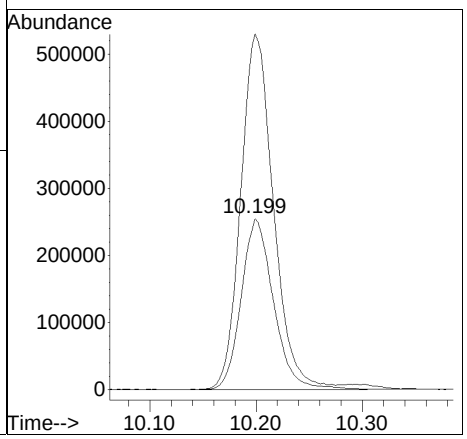


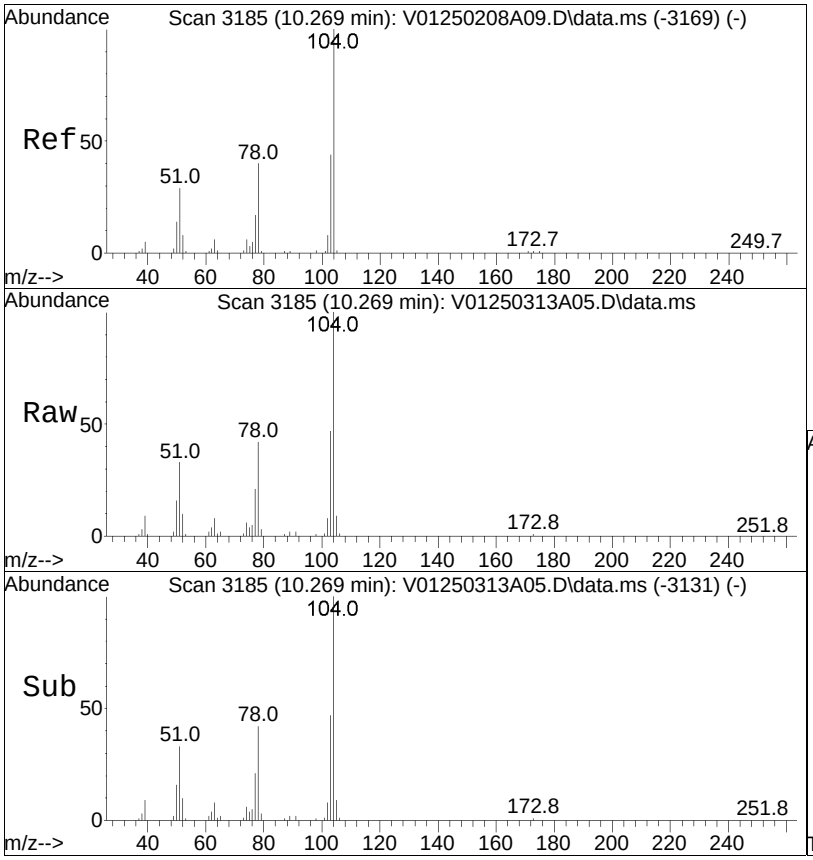


#77
o Xylene
Concen: 21.13 ug/L
RT: 10.199 min Scan# 3160
Delta R.T. -0.003 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion:106 Resp: 536675

Ion	Ratio	Lower	Upper
106	100		
91	210.3	168.7	253.1

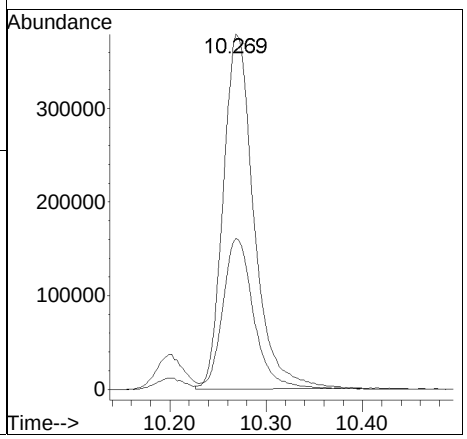


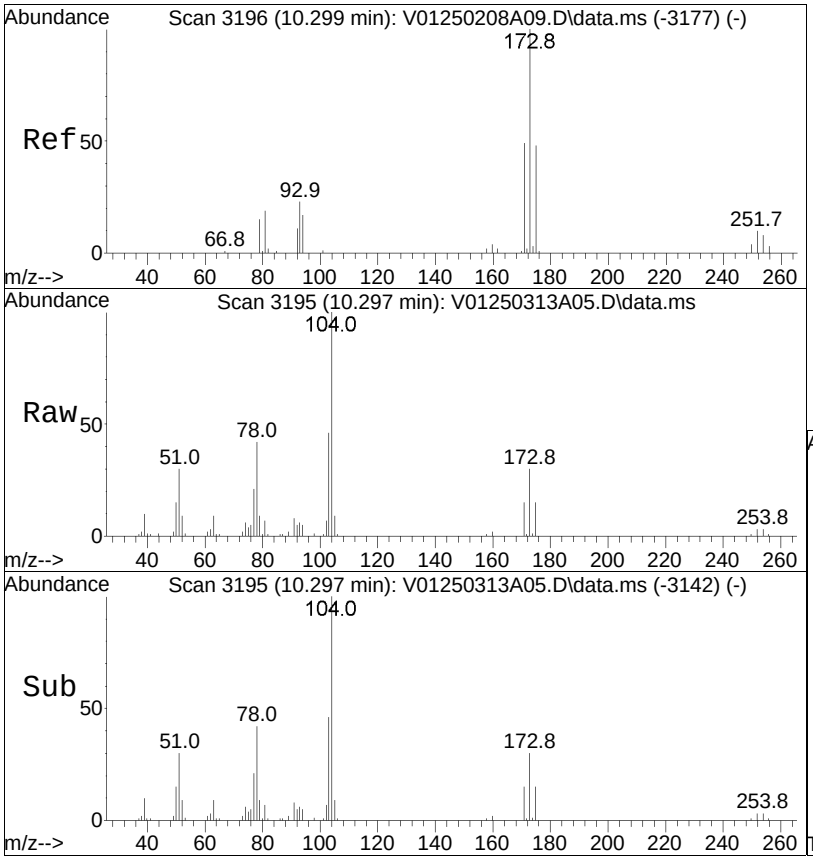


#78
Styrene
Concen: 21.62 ug/L
RT: 10.269 min Scan# 3185
Delta R.T. -0.000 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion:104 Resp: 841797

Ion	Ratio	Lower	Upper
104	100		
78	42.0	35.0	52.6

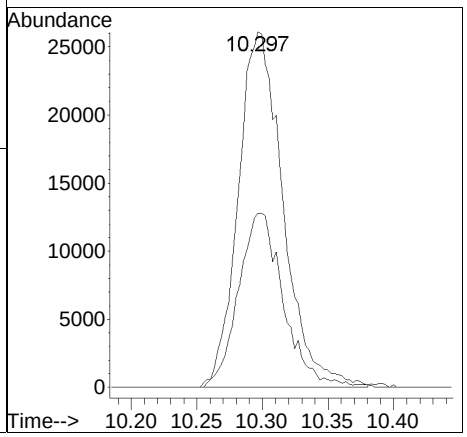


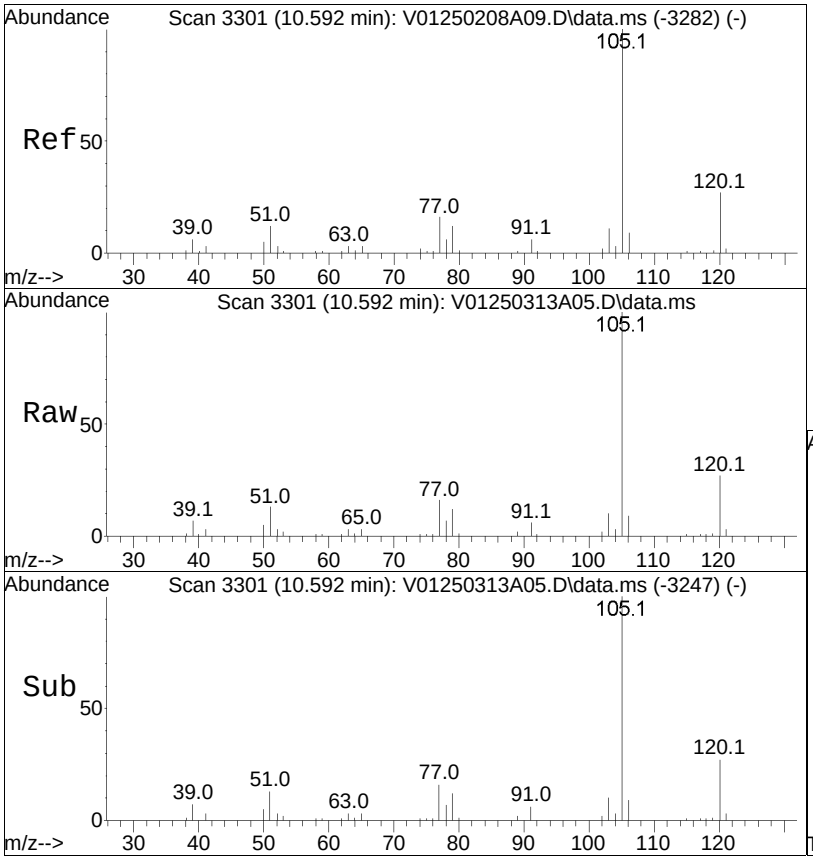


#80
Bromoform
Concen: 9.23 ug/L
RT: 10.297 min Scan# 3195
Delta R.T. -0.002 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion:173 Resp: 62240

Ion	Ratio	Lower	Upper
173	100		
175	48.9	27.6	67.6

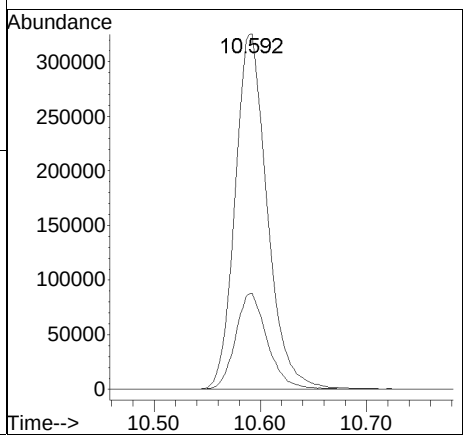


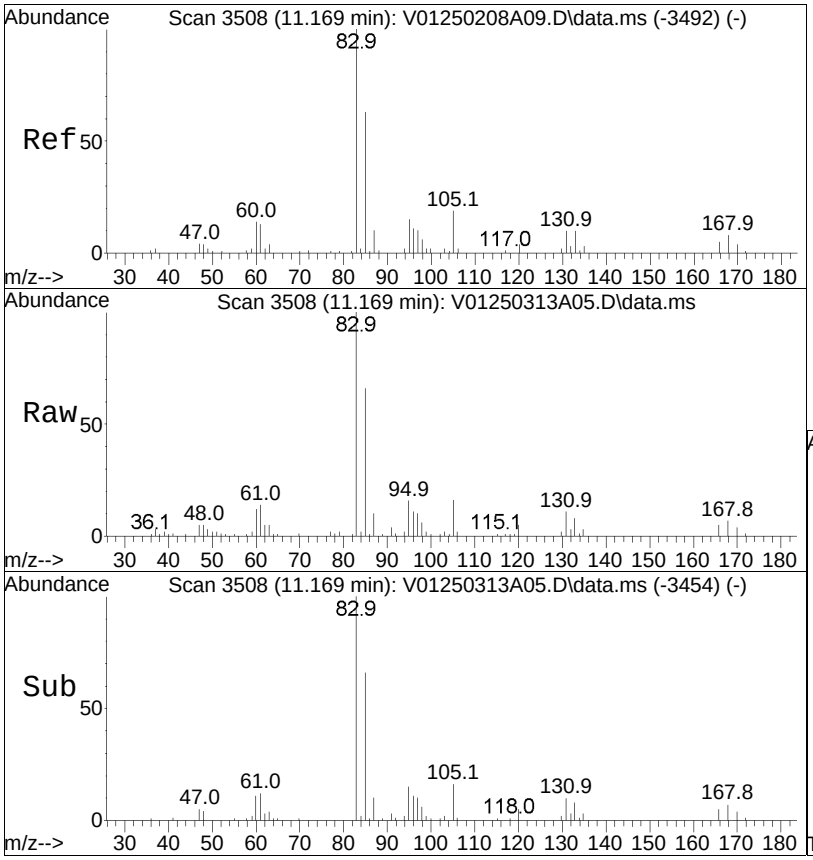


#82
Isopropylbenzene
Concen: 10.26 ug/L
RT: 10.592 min Scan# 3301
Delta R.T. 0.000 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion:105 Resp: 684974

Ion	Ratio	Lower	Upper
105	100		
120	26.8	7.2	47.2

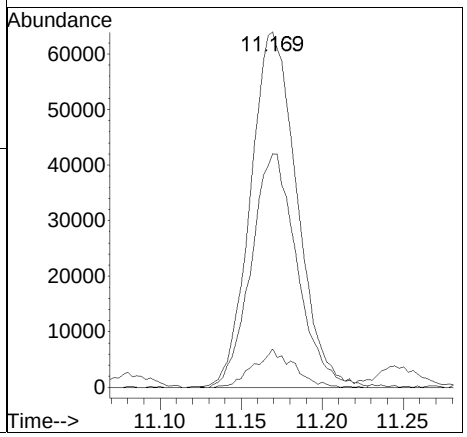


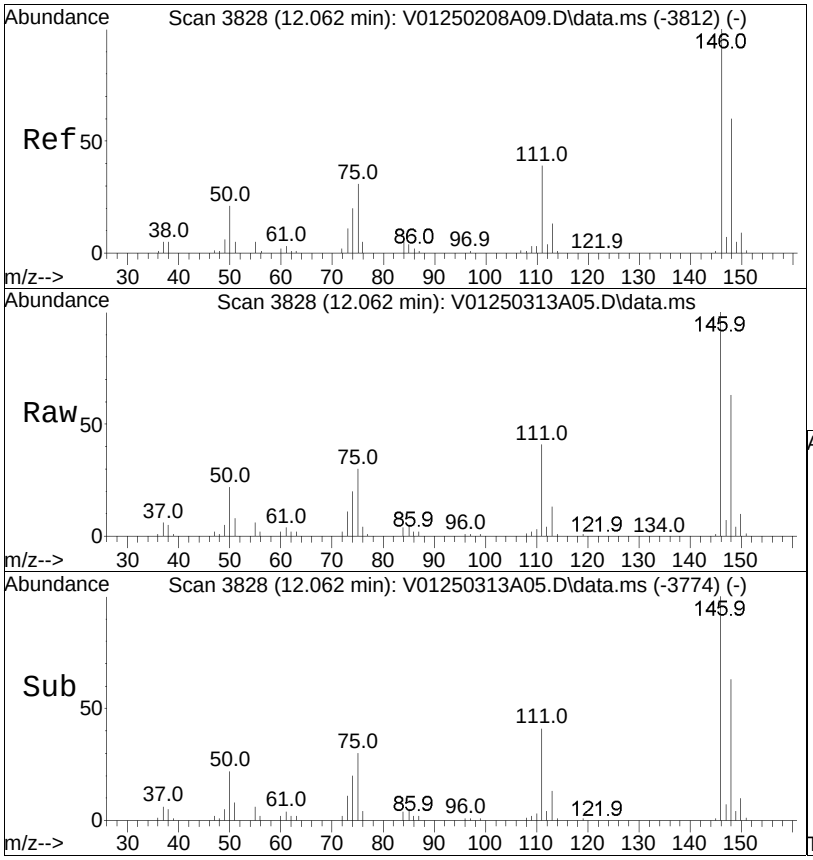


#87
1,1,2,2-Tetrachloroethane
Concen: 10.77 ug/L
RT: 11.169 min Scan# 3508
Delta R.T. 0.000 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion: 83 Resp: 127452

Ion	Ratio	Lower	Upper
83	100		
131	9.3	0.0	29.5
85	64.9	45.9	85.9

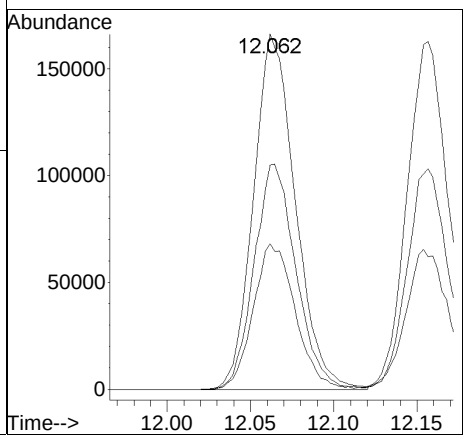


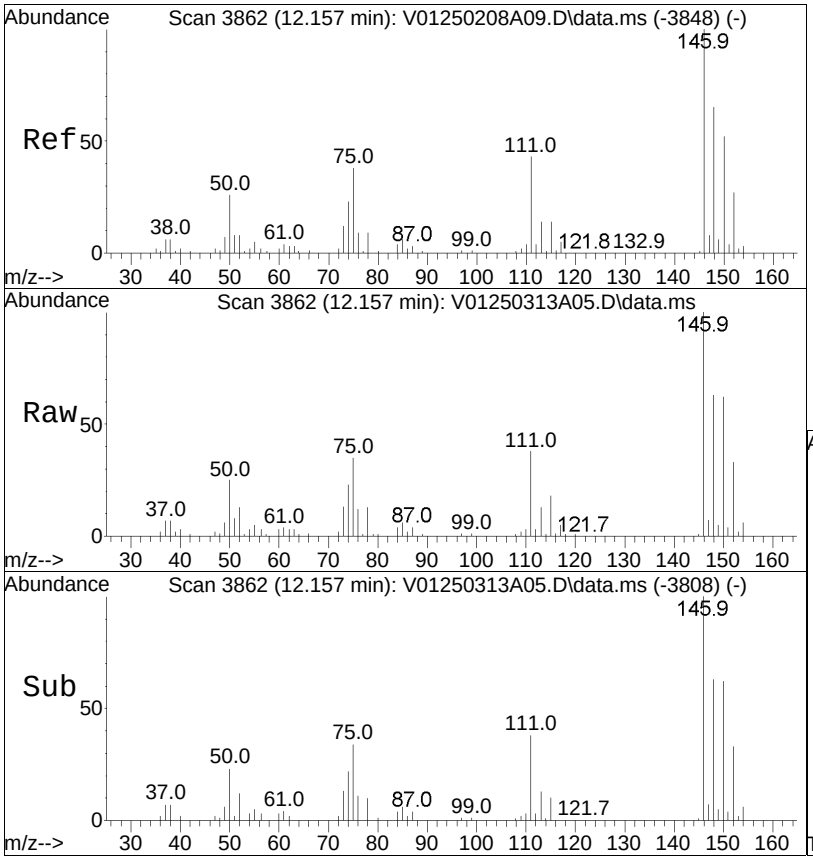


#100
1,3-Dichlorobenzene
Concen: 10.59 ug/L
RT: 12.062 min Scan# 3828
Delta R.T. -0.000 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion:146 Resp: 290091

Ion	Ratio	Lower	Upper
146	100		
111	41.1	27.2	56.4
148	63.5	40.8	84.6

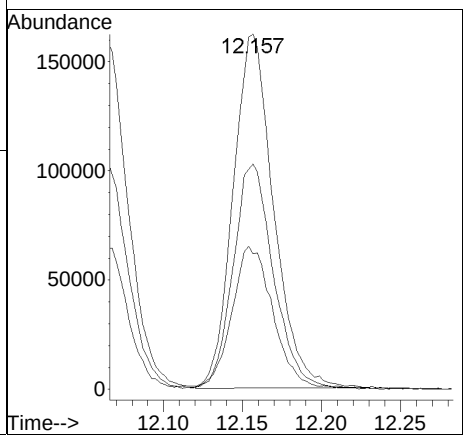


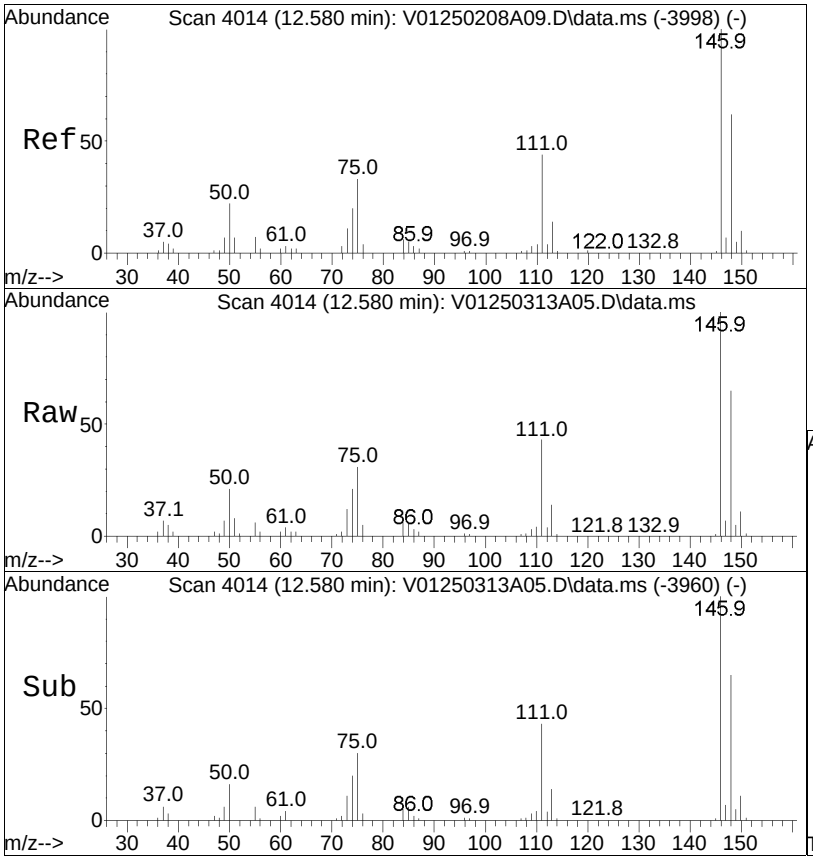


#101
1,4-Dichlorobenzene
Concen: 10.28 ug/L
RT: 12.157 min Scan# 3862
Delta R.T. -0.000 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion:146 Resp: 288719

Ion	Ratio	Lower	Upper
146	100		
111	41.3	33.5	50.3
148	62.7	50.4	75.6

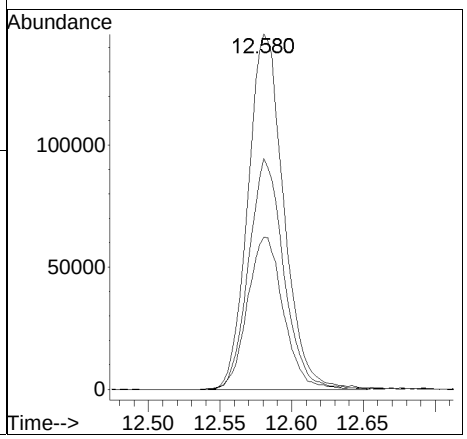


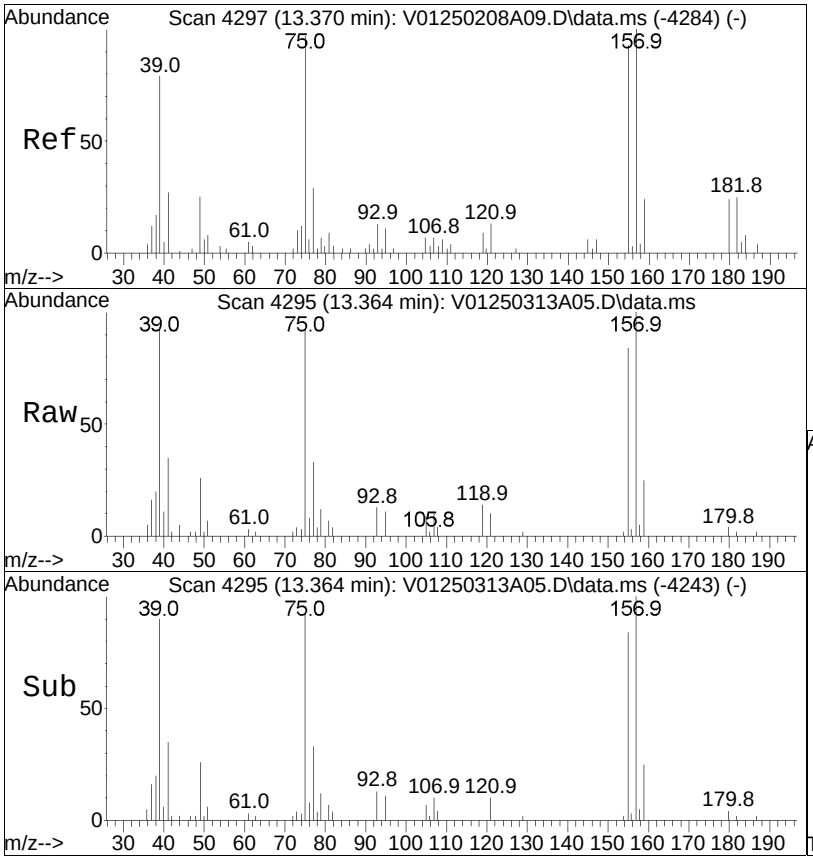


#104
1,2-Dichlorobenzene
Concen: 10.42 ug/L
RT: 12.580 min Scan# 4014
Delta R.T. 0.000 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion:146 Resp: 253016

Ion	Ratio	Lower	Upper
146	100		
111	43.1	28.2	58.6
148	63.8	41.1	85.5

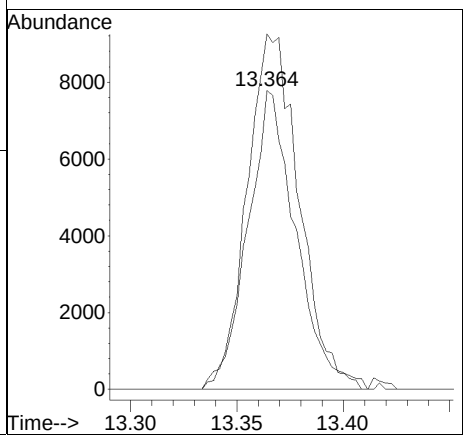


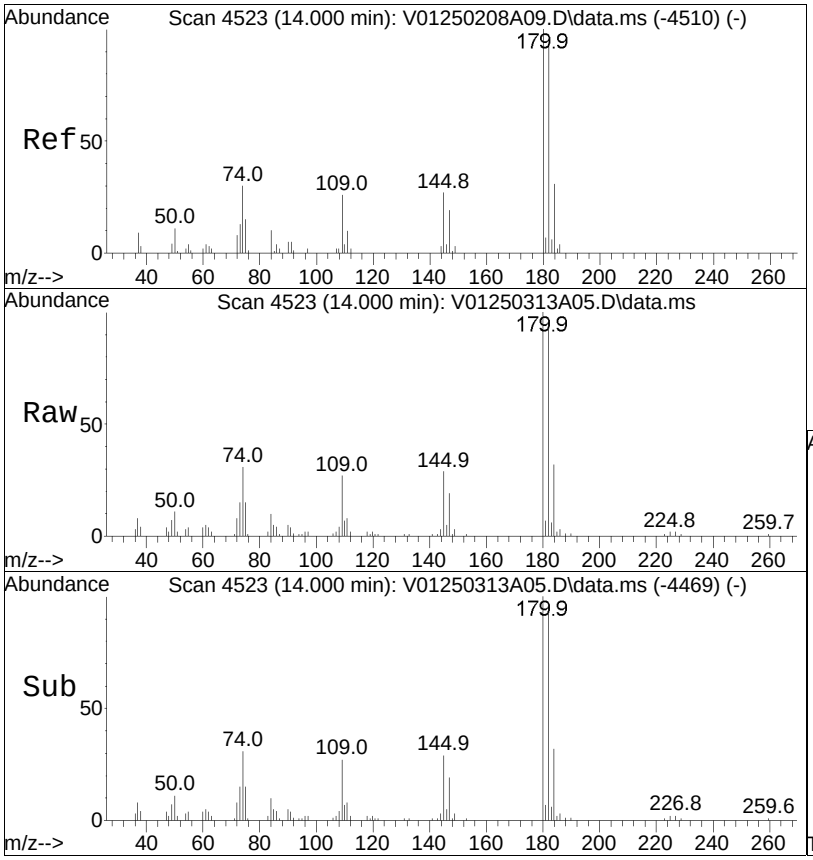


#106
1,2-Dibromo-3-chloropropane
Concen: 8.70 ug/L
RT: 13.364 min Scan# 4295
Delta R.T. -0.006 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion:155 Resp: 12174

Ion	Ratio	Lower	Upper
155	100		
157	130.3	99.0	148.6

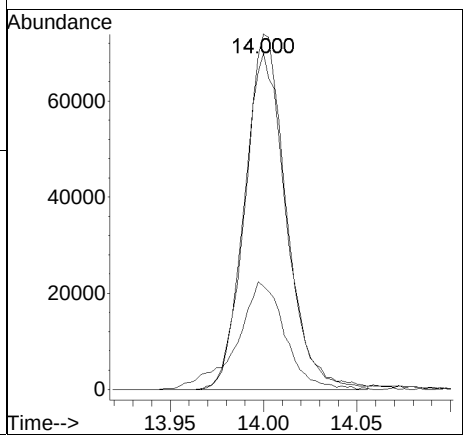


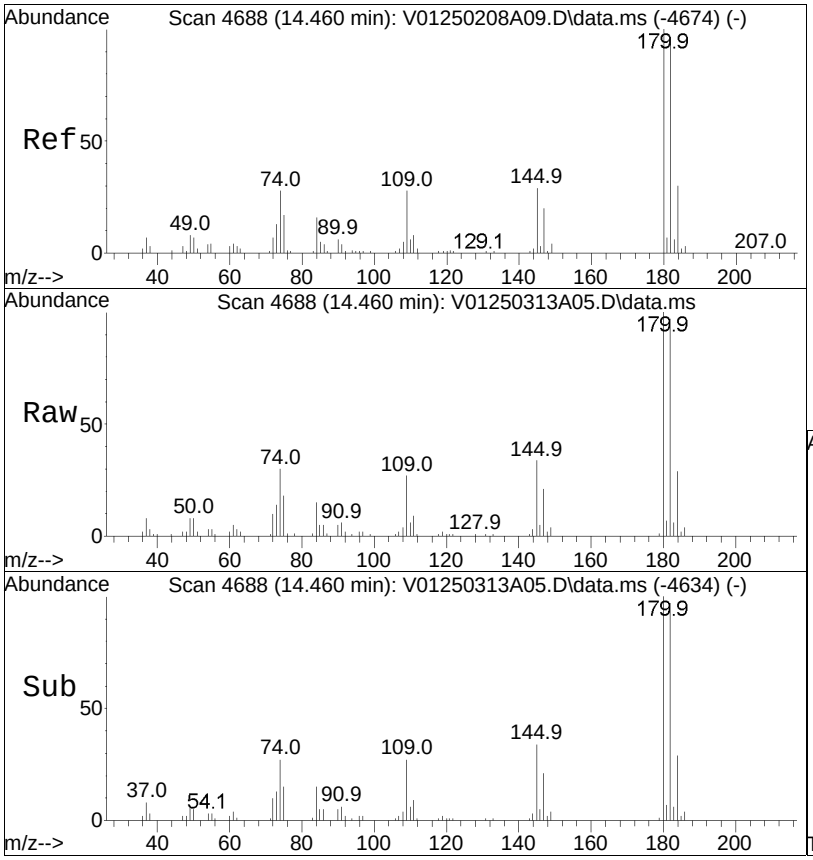


#109
1,2,4-Trichlorobenzene
Concen: 9.94 ug/L
RT: 14.000 min Scan# 4523
Delta R.T. -0.000 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion:180 Resp: 114262

Ion	Ratio	Lower	Upper
180	100		
182	95.7	76.6	114.8
145	35.2	28.7	43.1

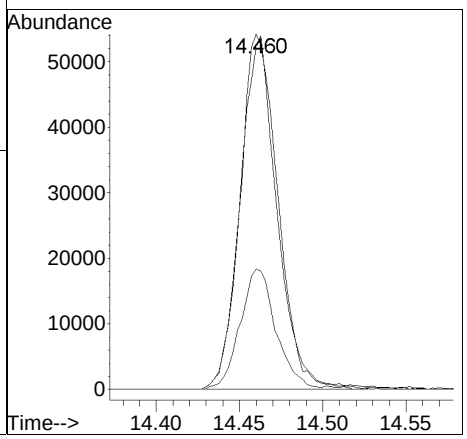




#111
1,2,3-Trichlorobenzene
Concen: 9.81 ug/L
RT: 14.460 min Scan# 4688
Delta R.T. -0.000 min
Lab File: V01250313A05.D
Acq: 13 Mar 2025 8:49 am

Tgt Ion:180 Resp: 86143

Ion	Ratio	Lower	Upper
180	100		
182	95.4	76.6	114.8
145	32.0	25.6	38.4

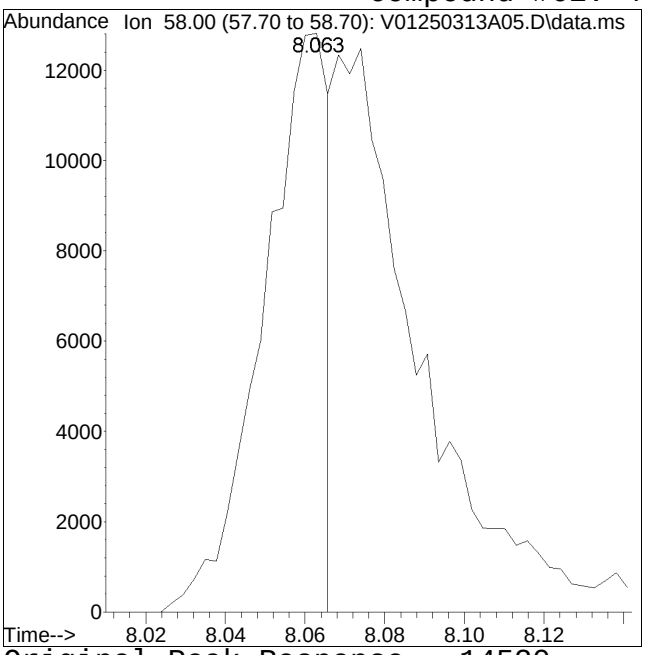


Manual Integration Report

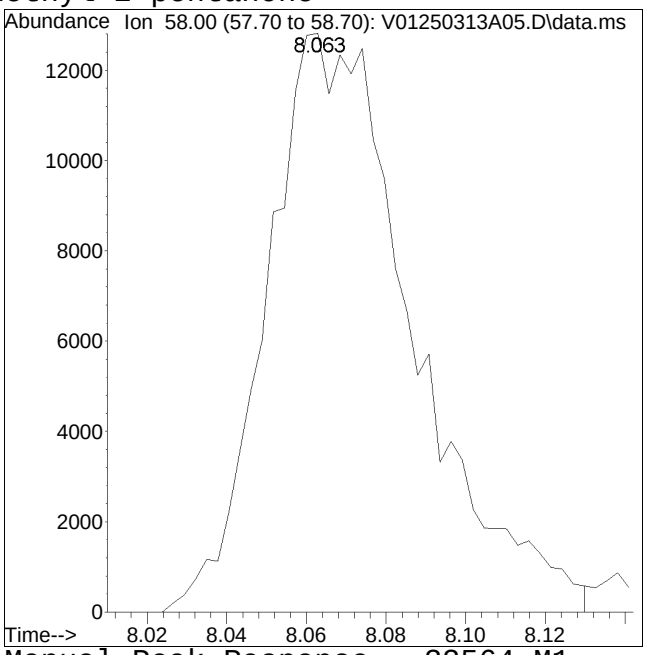
Data Path : K:\VOA101\2025\250313A\
Data File : V01250313A05.D
Date Inj'd : 3/13/2025 8:49 am
Sample : WG2040184-4,31,10,10

QMethod : V101_250208A_8260.m
Operator : VOA101:PID
Instrument : VOA 101
Quant Date : 3/13/2025 9:16 am

Compound #62: 4-Methyl-2-pentanone



Original Peak Response = 14520



Manual Peak Response = 32564 M1

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

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A27.D
Acq On : 12 Mar 2025 8:01 pm
Operator : ELAINE:MJV
Sample : WG2039699-6,31,5.0,10,,B (Sig #1); L2512769-02MS,31,5.0,10,,B (Sig #2)
Misc : WG2039699,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Mar 13 06:01:44 2025
Quant Method : K:\Elaine\2025\250312A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250312A\VE250312A01.D
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.768	96	286137	10.000	ug/L	0.00
Standard Area 1 = 297682			Recovery = 96.12%			
63) Chlorobenzene-d5	9.280	117	223123	10.000	ug/L	0.00
Standard Area 1 = 223126			Recovery = 100.00%			
84) 1,4-Dichlorobenzene-d4	12.028	152	129853	10.000	ug/L	0.00
Standard Area 1 = 121415			Recovery = 106.95%			
System Monitoring Compounds						
39) Dibromofluoromethane	4.978	113	82037	10.505	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.05%			
47) 1,2-Dichloroethane-d4	5.491	65	92093	11.141	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 111.41%			
64) Toluene-d8	7.447	98	297720	10.085	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.85%			
88) 4-Bromofluorobenzene	10.799	95	112721	10.847	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.47%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.522	85	74529	10.123	ug/L	99
3) Chloromethane	1.698	50	70071	10.558	ug/L	99
4) Vinyl chloride	1.773	62	89848	10.425	ug/L	98
5) Bromomethane	2.062	94	27837	3.659	ug/L	92
6) Chloroethane	2.176	64	68516	10.383	ug/L	93
7) Trichlorofluoromethane	2.308	101	130642	8.792	ug/L	100
8) Ethyl ether	2.585	74	41144	9.294	ug/L	87
10) 1,1-Dichloroethene	2.774	96	76364	9.501	ug/L	91
11) Carbon disulfide	2.800	76	228531	10.088	ug/L	99
15) Methylene chloride	3.314	84	76118	11.297	ug/L	94
17) Acetone	3.349	43	13476	11.772	ug/L	98
18) trans-1,2-Dichloroethene	3.459	96	72141	11.447	ug/L	92
21) Methyl tert-butyl ether	3.551	73	149054	10.030	ug/L #	94
25) 1,1-Dichloroethane	4.029	63	139592	11.986	ug/L	97
27) Acrylonitrile	4.073	53	17749	12.165	ug/L	98
29) Vinyl acetate	4.253	43	107657	9.301	ug/L	99
30) cis-1,2-Dichloroethene	4.539	96	81944	11.157	ug/L	96
31) 2,2-Dichloropropane	4.635	77	89462	9.265	ug/L #	99
33) Bromochloromethane	4.723	128	37118	11.077	ug/L	95
35) Chloroform	4.798	83	132842	11.516	ug/L	99

Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A27.D
Acq On : 12 Mar 2025 8:01 pm
Operator : ELAINE:MJV
Sample : WG2039699-6,31,5.0,10,,B (Sig #1); L2512769-02MS,31,5.0,10,,B (Sig #2)
Misc : WG2039699,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Mar 13 06:01:44 2025
Quant Method : K:\Elaine\2025\250312A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250312A\VE250312A01.D
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) Carbon tetrachloride	4.929	117	113958	13.350	ug/L		91
40) 1,1,1-Trichloroethane	4.995	97	109522	11.543	ug/L		99
42) 2-Butanone	5.083	43	20039	12.563	ug/L	#	83
43) 1,1-Dichloropropene	5.114	75	86629	11.237	ug/L		98
45) Benzene	5.355	78	274306	10.801	ug/L		98
48) 1,2-Dichloroethane	5.557	62	87647	10.927	ug/L		97
52) Trichloroethene	5.945	95	66831	10.844	ug/L		99
54) Dibromomethane	6.384	93	40010	10.376	ug/L		97
55) 1,2-Dichloropropane	6.483	63	67994	11.378	ug/L		99
58) Bromodichloromethane	6.560	83	92097	10.724	ug/L		100
61) 1,4-Dioxane	6.769	88	22089	717.435	ug/L		92
62) cis-1,3-Dichloropropene	7.244	75	92857	9.988	ug/L		98
65) Toluene	7.506	92	169981	10.186	ug/L		99
66) 4-Methyl-2-pentanone	7.936	58	13208	9.281	ug/L		97
67) Tetrachloroethene	7.945	166	71472	11.134	ug/L		99
69) trans-1,3-Dichloropropene	7.986	75	76372	9.465	ug/L		94
71) Ethyl methacrylate	8.180	69	53480	9.385	ug/L		91
72) 1,1,2-Trichloroethane	8.171	83	43214	10.314	ug/L		96
73) Chlorodibromomethane	8.379	129	56196	9.636	ug/L		97
74) 1,3-Dichloropropane	8.488	76	88266	10.191	ug/L		99
75) 1,2-Dibromoethane	8.656	107	48532	10.119	ug/L		95
77) 2-Hexanone	8.941	43	22916	10.109	ug/L		100
78) Chlorobenzene	9.298	112	194673	10.255	ug/L	#	49
79) Ethylbenzene	9.339	91	1665897	49.868	ug/L		100
80) 1,1,1,2-Tetrachloroethane	9.389	131	58706	9.920	ug/L		98
81) p/m Xylene	9.529	106	561040	41.051	ug/L		99
82) o Xylene	10.072	106	435965	32.046	ug/L		98
83) Styrene	10.140	104	415405	17.926	ug/L		97
85) Bromoform	10.167	173	30981	8.484	ug/L		95
87) Isopropylbenzene	10.468	105	1019365	28.459	ug/L		99
89) Bromobenzene	10.909	156	76967	9.633	ug/L		100
90) n-Propylbenzene	10.962	91	765504	17.731	ug/L		99
91) 1,4-Dichlorobutane	10.980	55	80456	10.202	ug/L		97
92) 1,1,2,2-Tetrachloroethane	11.054	83	58876	9.678	ug/L		92
93) 4-Ethyltoluene	11.090	105	1897966	53.179	ug/L		98
94) 2-Chlorotoluene	11.129	91	233685M6	9.537	ug/L		
95) 1,3,5-Trimethylbenzene	11.195	105	766458	24.095	ug/L		99
96) 1,2,3-Trichloropropane	11.191	75	53429	10.380	ug/L		96
97) trans-1,4-Dichloro-2-b...	11.253	53	15279	8.727	ug/L	#	73

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A27.D
Acq On : 12 Mar 2025 8:01 pm
Operator : ELAINE:MJV
Sample : WG2039699-6,31,5.0,10,,B (Sig #1); L2512769-02MS,31,5.0,10,,B (Sig #2)
Misc : WG2039699,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Mar 13 06:01:44 2025
Quant Method : K:\Elaine\2025\250312A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250312A\VE250312A01.D
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
98) 4-Chlorotoluene	11.319	91	251020	9.873	ug/L		100
99) tert-Butylbenzene	11.539	119	258118	9.736	ug/L		94
102) 1,2,4-Trimethylbenzene	11.618	105	2622798	84.224	ug/L		98
103) sec-Butylbenzene	11.733	105	385363	9.587	ug/L		96
104) p-Isopropyltoluene	11.887	119	368287	10.450	ug/L		95
105) 1,3-Dichlorobenzene	11.953	146	168702	9.703	ug/L		96
106) 1,4-Dichlorobenzene	12.046	146	166201	9.607	ug/L		98
107) p-Diethylbenzene	12.266	119	242992M6	11.632	ug/L		
108) n-Butylbenzene	12.323	91	324686	10.740	ug/L	#	81
109) 1,2-Dichlorobenzene	12.473	146	157520	9.644	ug/L		98
110) 1,2,4,5-Tetramethylben...	13.068	119	429401	13.030	ug/L		98
111) 1,2-Dibromo-3-chloropr...	13.257	155	8640	9.180	ug/L		85
113) Hexachlorobutadiene	13.870	225	30756	9.761	ug/L		97
114) 1,2,4-Trichlorobenzene	13.887	180	105359	10.230	ug/L		98
115) Naphthalene	14.182	128	4324013	176.448	ug/L		100
116) 1,2,3-Trichlorobenzene	14.350	180	95530	10.116	ug/L		98

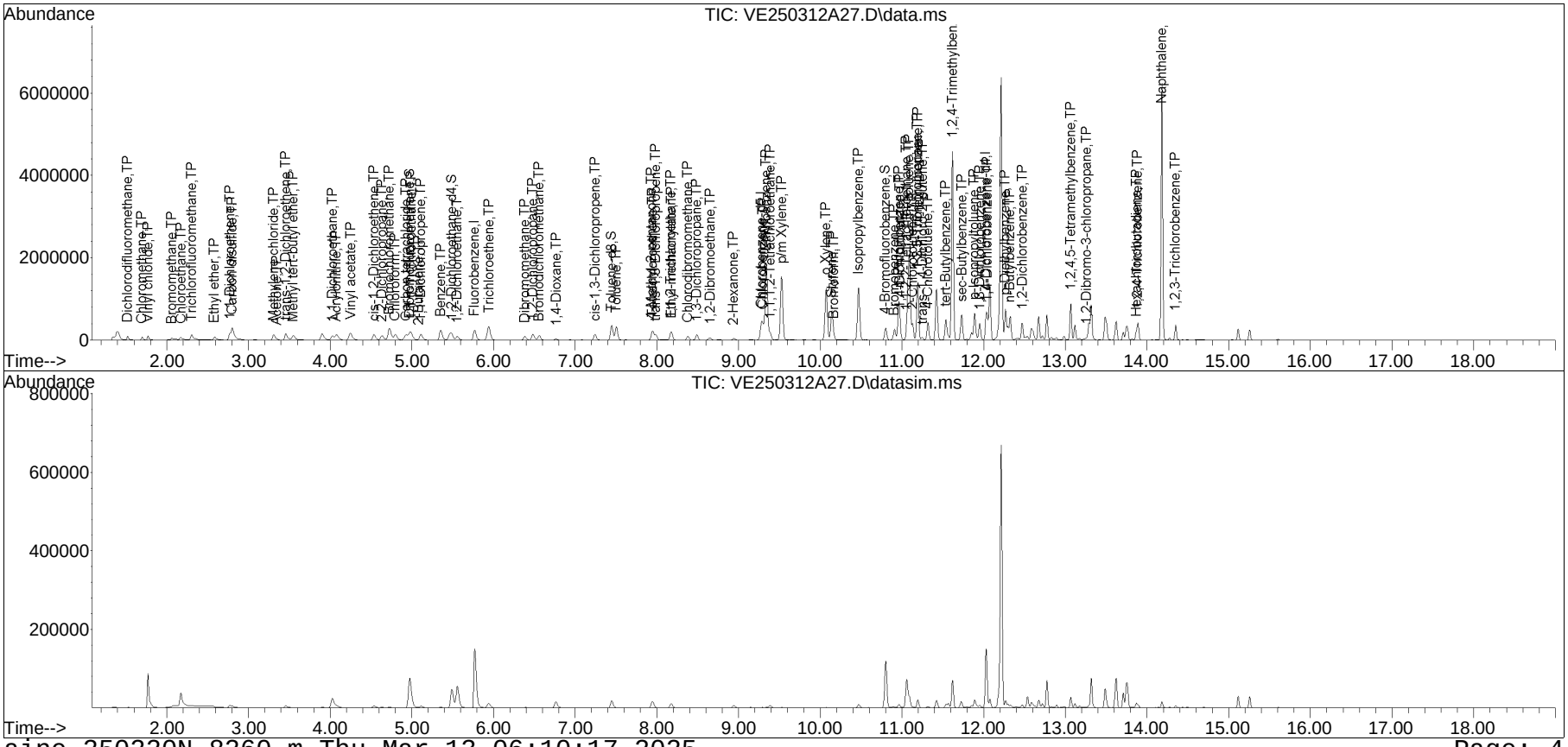
(#) = qualifier out of range (m) = manual integration (+) = signals summed

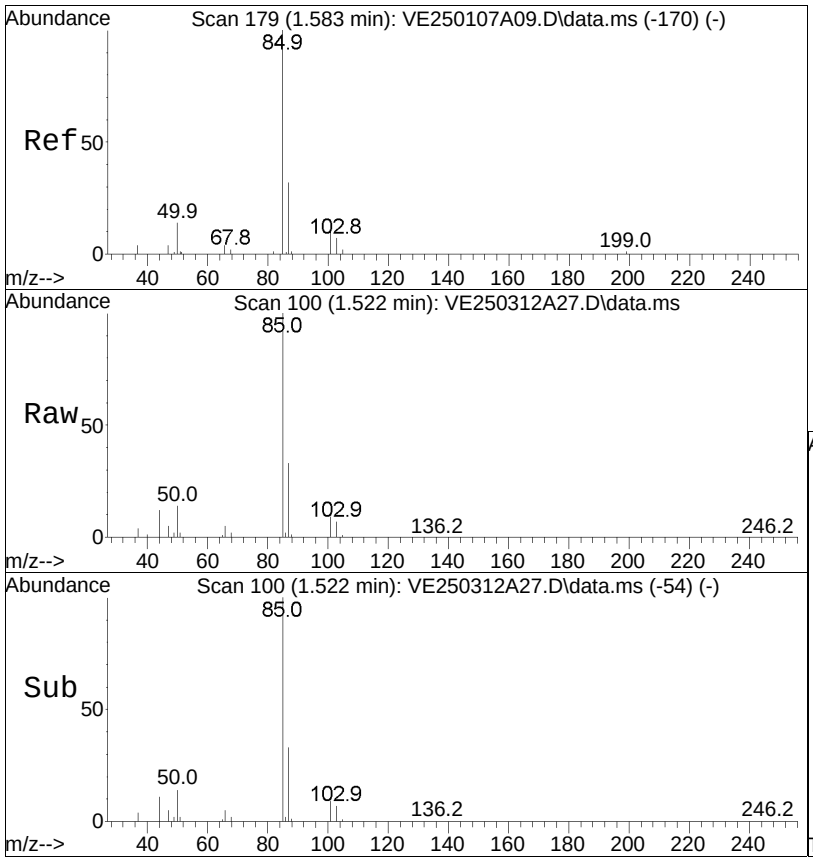
Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A27.D
Acq On : 12 Mar 2025 8:01 pm
Operator : ELAINE:MJV
Sample : WG2039699-6,31,5.0,10,,B (Sig #1); L2512769-02MS,31,5.0,10,,B (Sig #2)
Misc : WG2039699,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Mar 13 06:01:44 2025
Quant Method : K:\Elaine\2025\250312A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox50312A01.D•

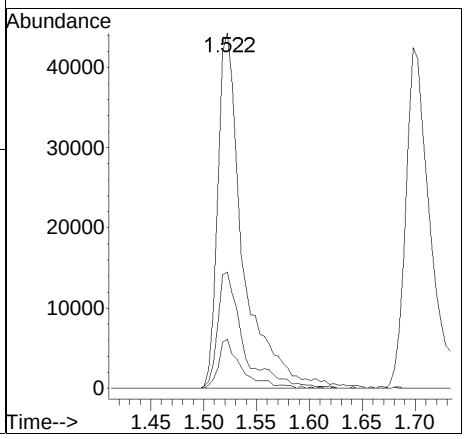


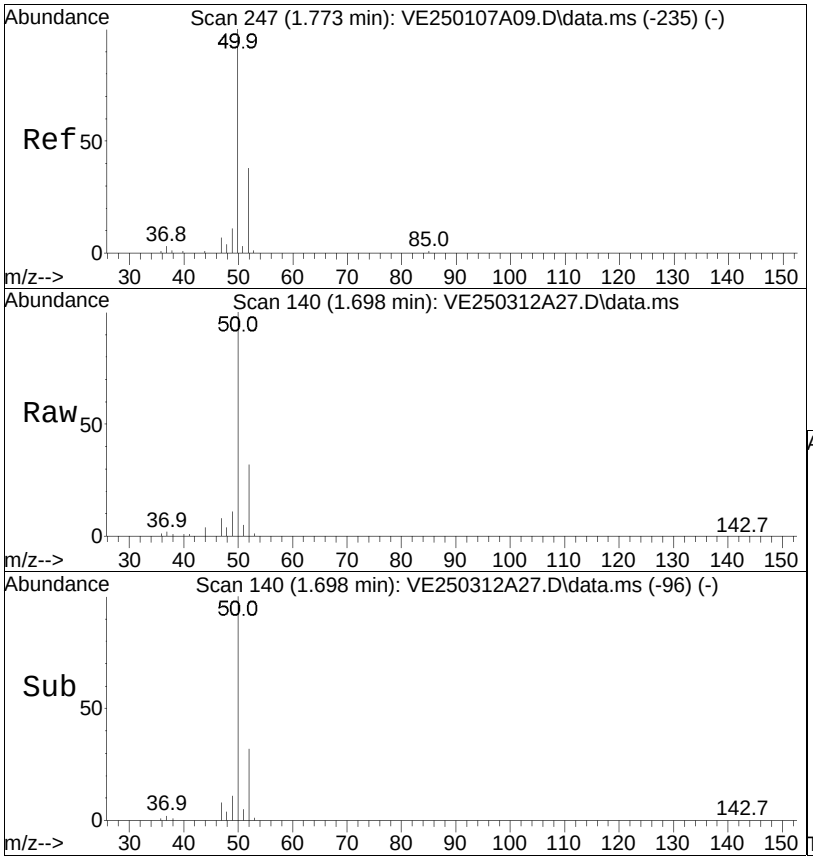


#2
Dichlorodifluoromethane
Concen: 10.12 ug/L
RT: 1.522 min Scan# 100
Delta R.T. 0.000 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion: 85 Resp: 74529

Ion	Ratio	Lower	Upper
85	100		
87	33.4	21.1	43.7
50	12.5	8.3	17.1

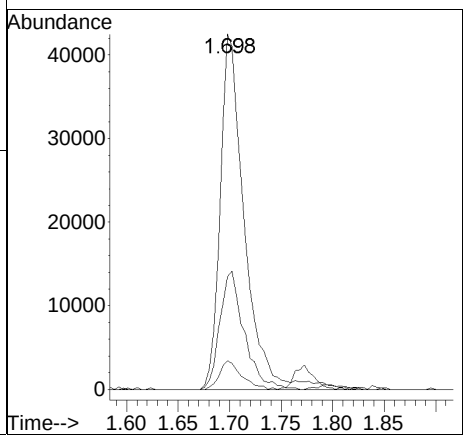


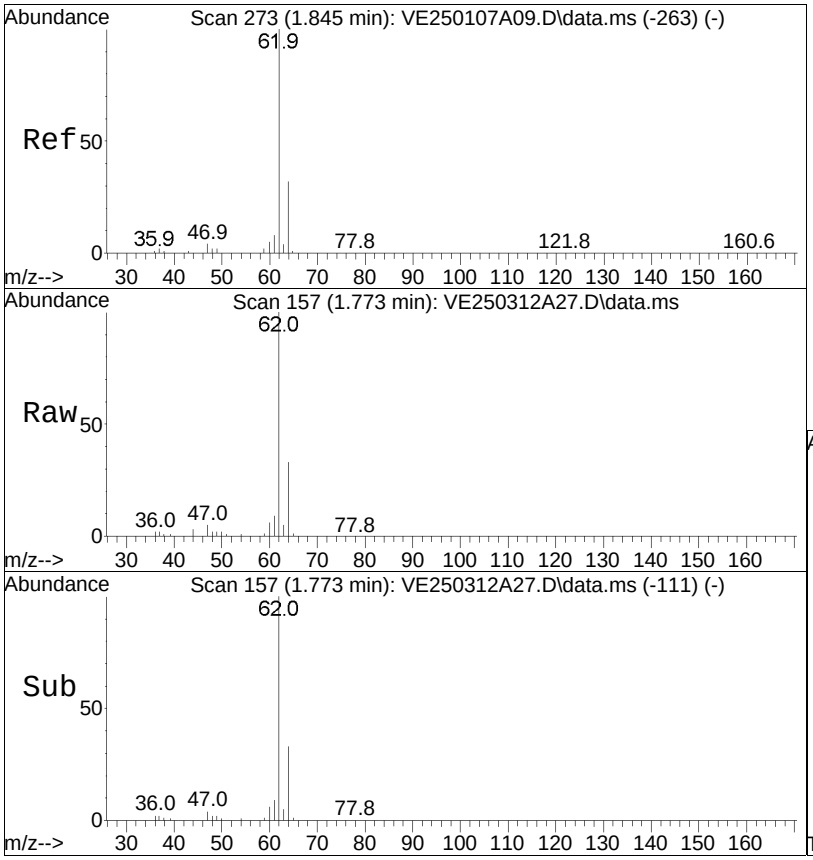


#3
Chloromethane
Concen: 10.56 ug/L
RT: 1.698 min Scan# 140
Delta R.T. -0.005 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion: 50 Resp: 70071

Ion	Ratio	Lower	Upper
50	100		
52	33.1	12.5	52.5
47	7.4	0.0	27.7

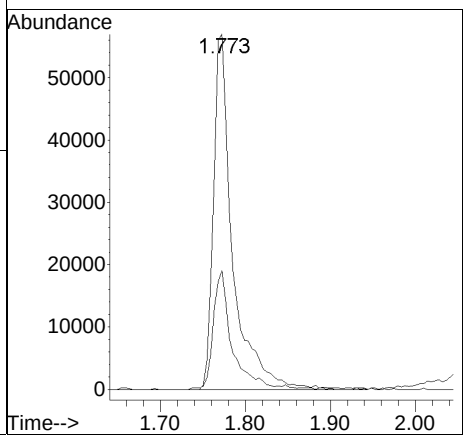


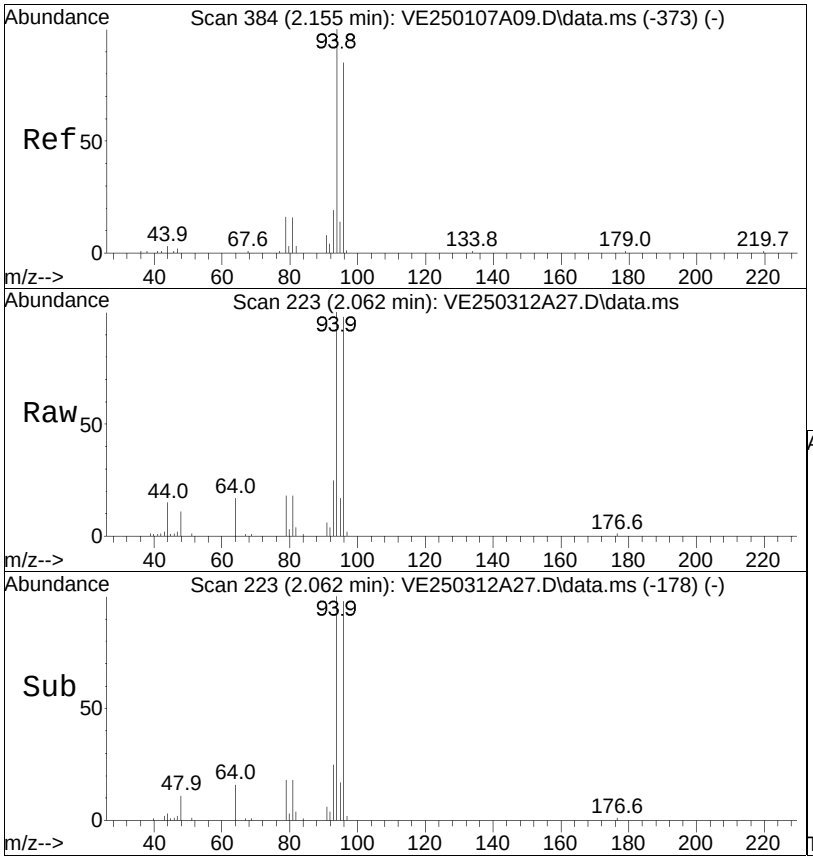


#4
Vinyl chloride
Concen: 10.42 ug/L
RT: 1.773 min Scan# 157
Delta R.T. 0.002 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion: 62 Resp: 89848

Ion	Ratio	Lower	Upper
62	100		
64	33.0	12.1	52.1

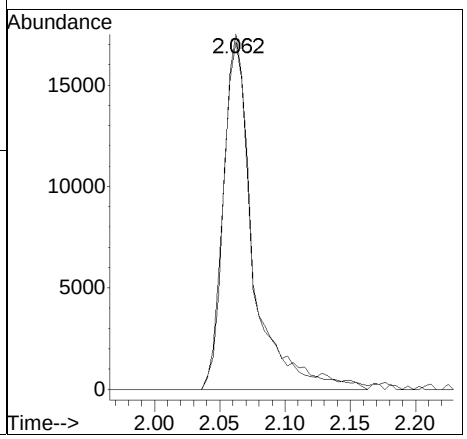


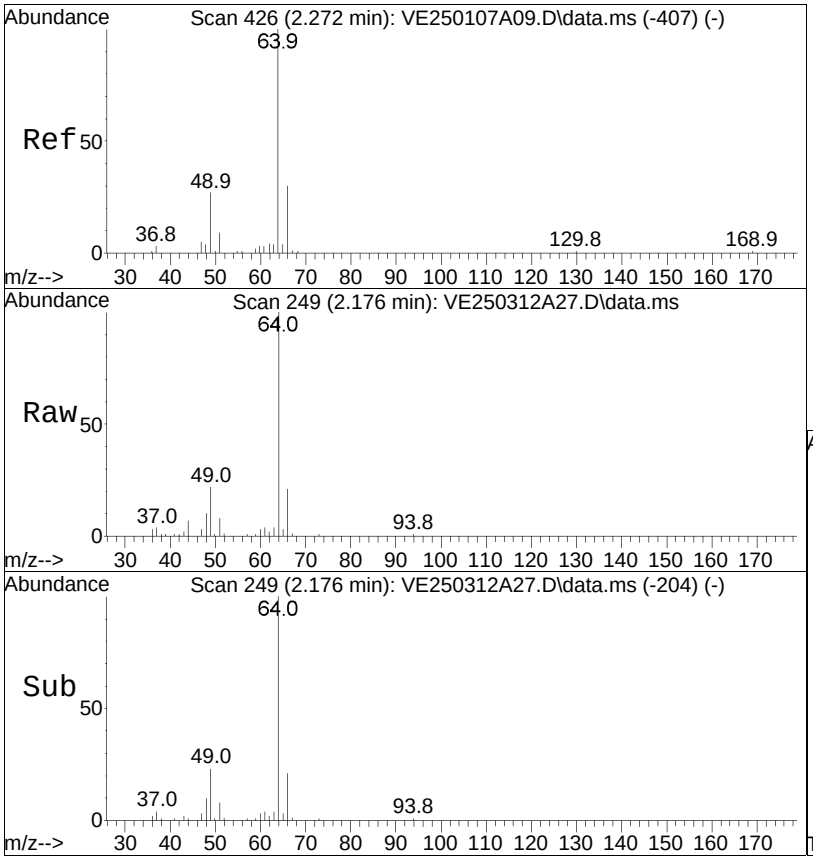


#5
Bromomethane
Concen: 3.66 ug/L
RT: 2.062 min Scan# 223
Delta R.T. -0.003 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion: 94 Resp: 27837

Ion	Ratio	Lower	Upper
94	100		
96	99.1	71.2	111.2

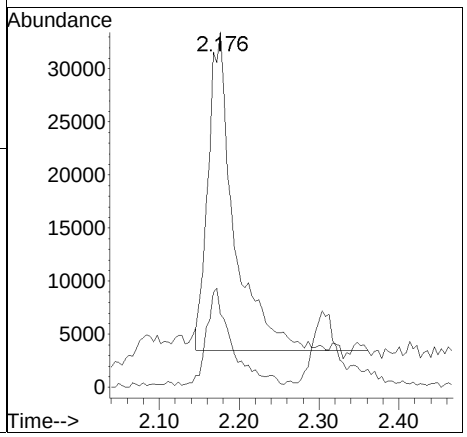


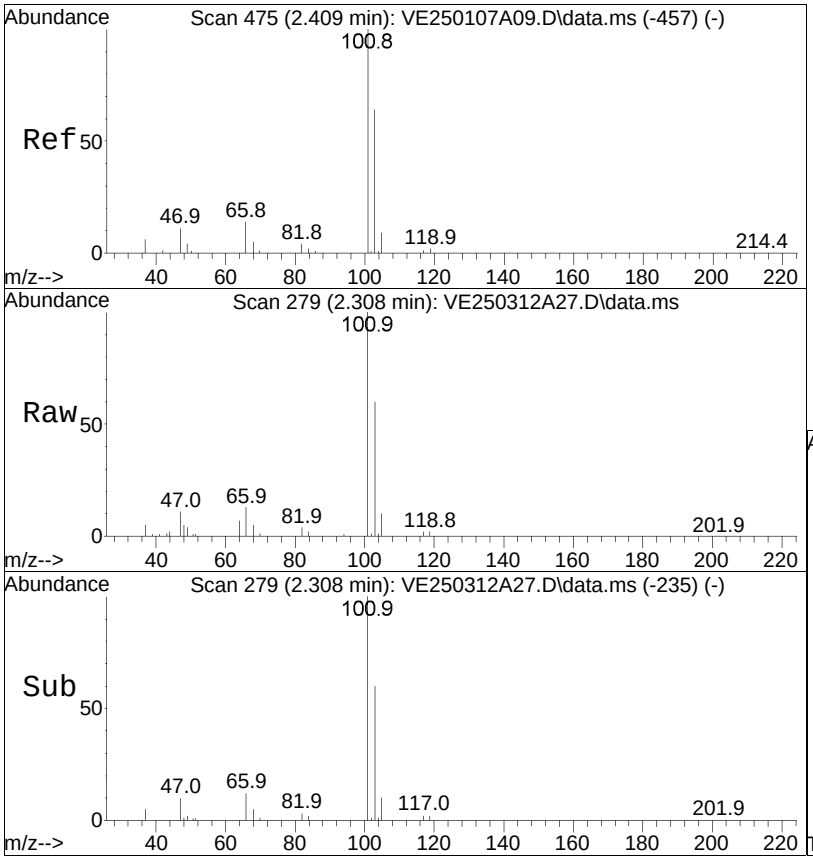


#6
Chloroethane
Concen: 10.38 ug/L
RT: 2.176 min Scan# 249
Delta R.T. -0.004 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion: 64 Resp: 68516

Ion	Ratio	Lower	Upper
64	100		
66	28.4	12.5	52.5

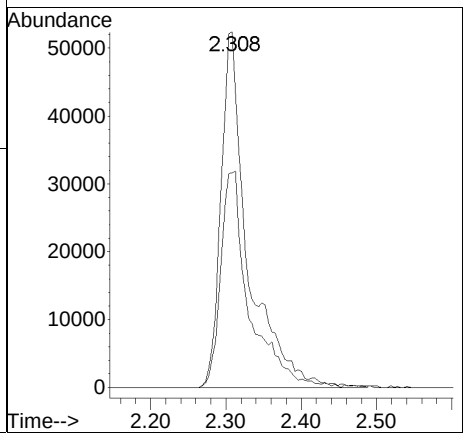


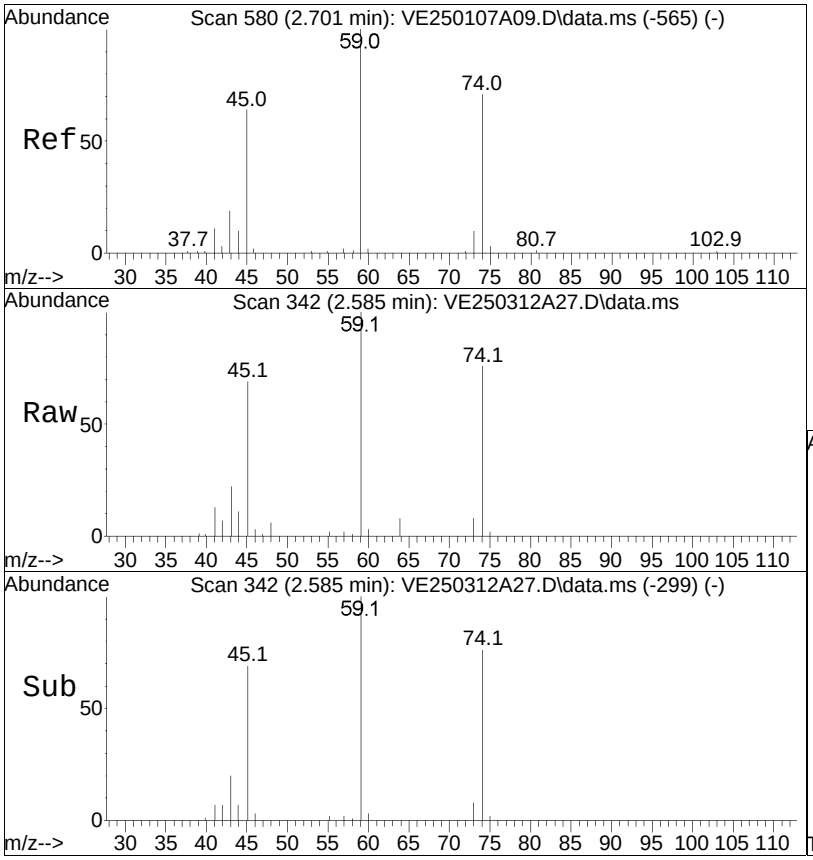


#7
Trichlorofluoromethane
Concen: 8.79 ug/L
RT: 2.308 min Scan# 279
Delta R.T. -0.006 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion:101 Resp: 130642

Ion	Ratio	Lower	Upper
101	100		
103	64.2	51.4	77.0

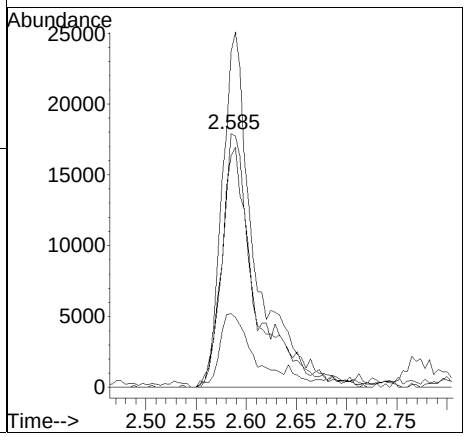


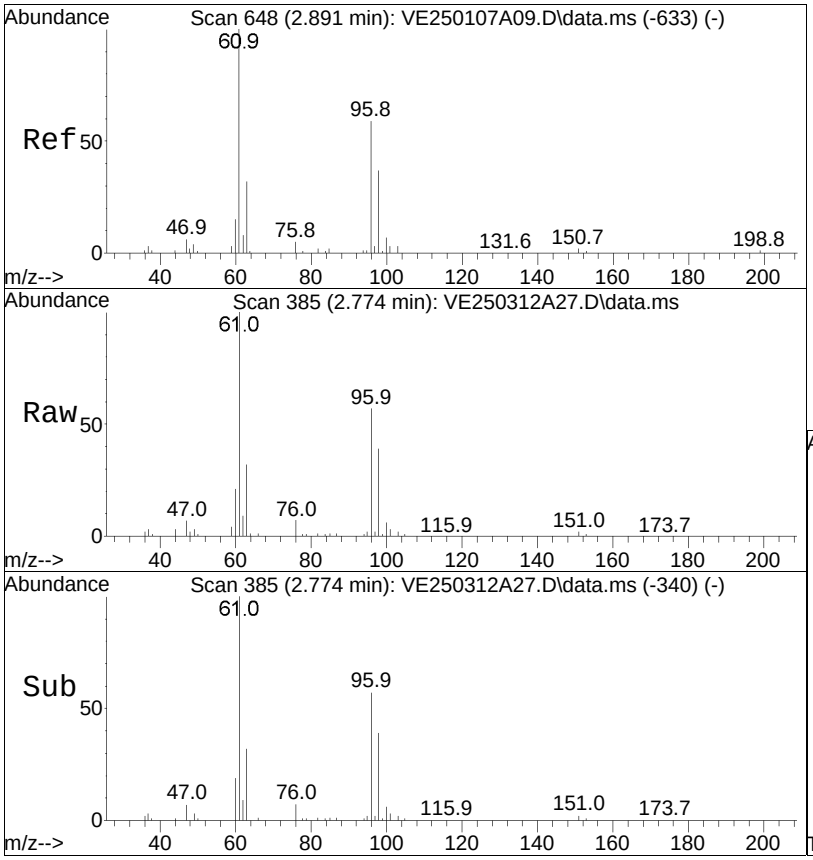


#8
Ethyl ether
Concen: 9.29 ug/L
RT: 2.585 min Scan# 342
Delta R.T. -0.011 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion: 74 Resp: 41144

Ion	Ratio	Lower	Upper
74	100		
59	141.7	83.9	174.2
45	101.0	56.9	118.3
43	40.5	20.2	42.0

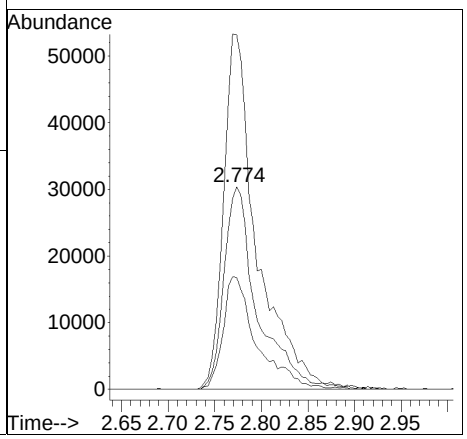


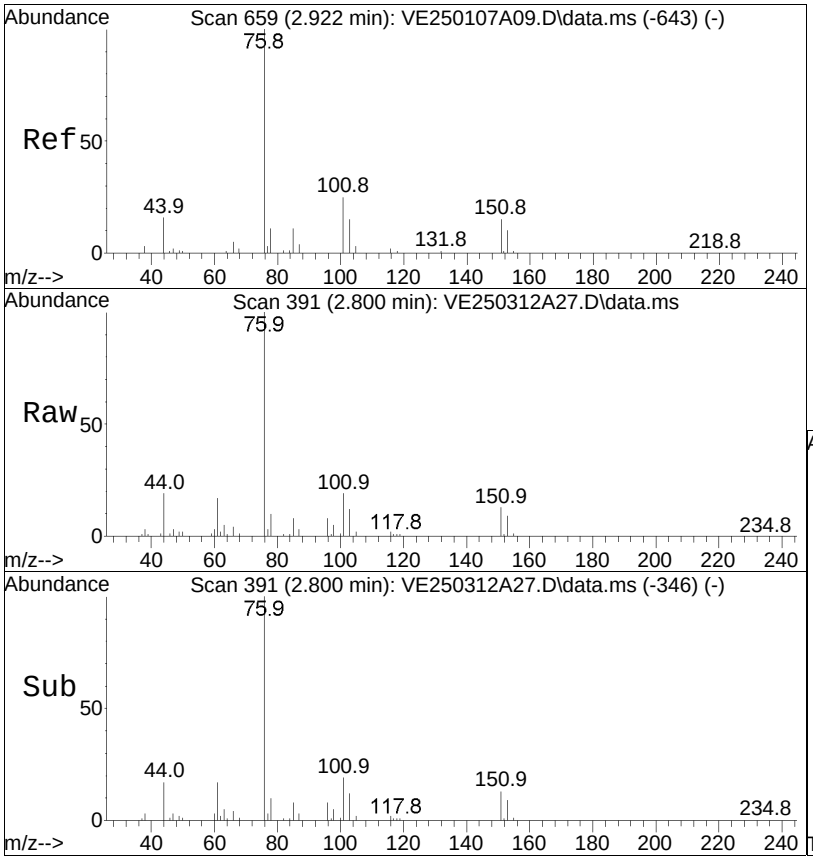


#10
1,1-Dichloroethene
Concen: 9.50 ug/L
RT: 2.774 min Scan# 385
Delta R.T. -0.003 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion: 96 Resp: 76364

Ion	Ratio	Lower	Upper
96	100		
61	174.7	129.0	193.6
63	56.5	41.7	62.5

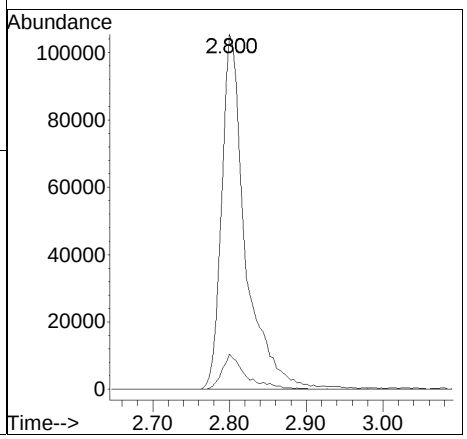


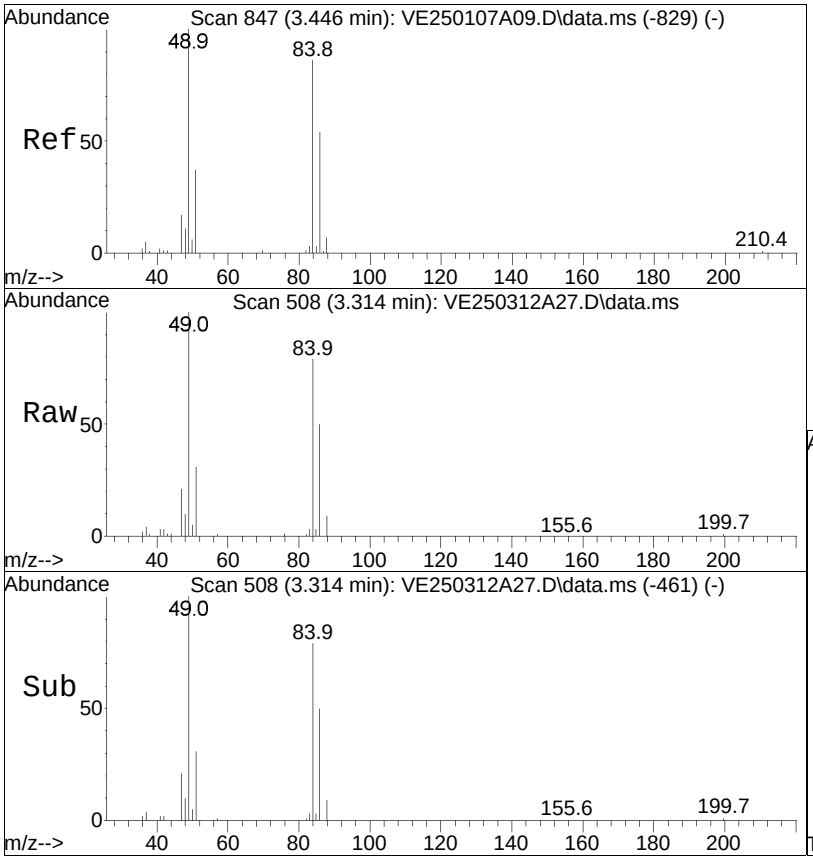


#11
Carbon disulfide
Concen: 10.09 ug/L
RT: 2.800 min Scan# 391
Delta R.T. -0.002 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion: 76 Resp: 228531

Ion	Ratio	Lower	Upper
76	100		
78	10.0	6.7	13.9

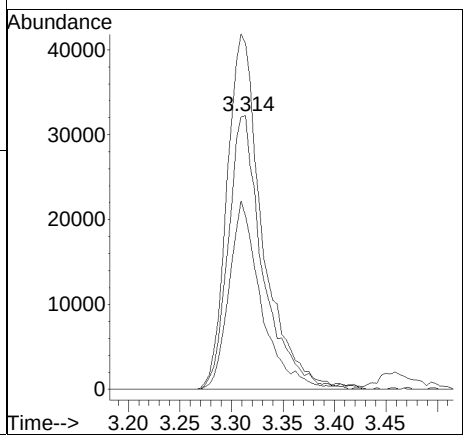


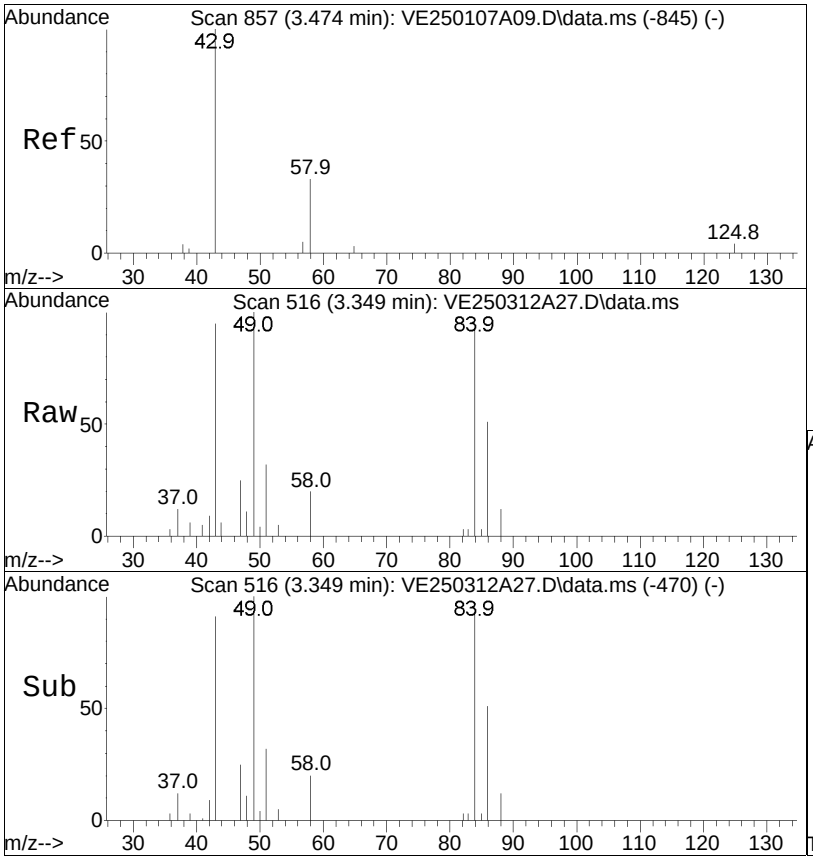


#15
Methylene chloride
Concen: 11.30 ug/L
RT: 3.314 min Scan# 508
Delta R.T. 0.004 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion: 84 Resp: 76118

Ion	Ratio	Lower	Upper
84	100		
86	63.8	42.1	87.3
49	132.1	79.9	165.9

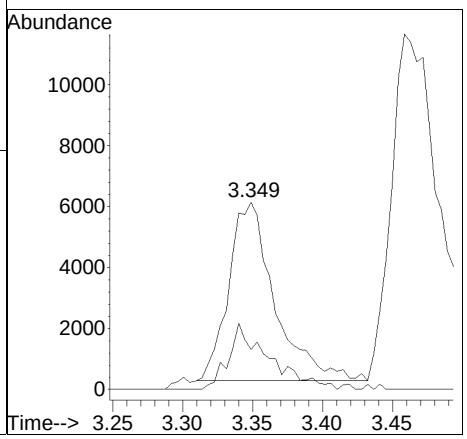


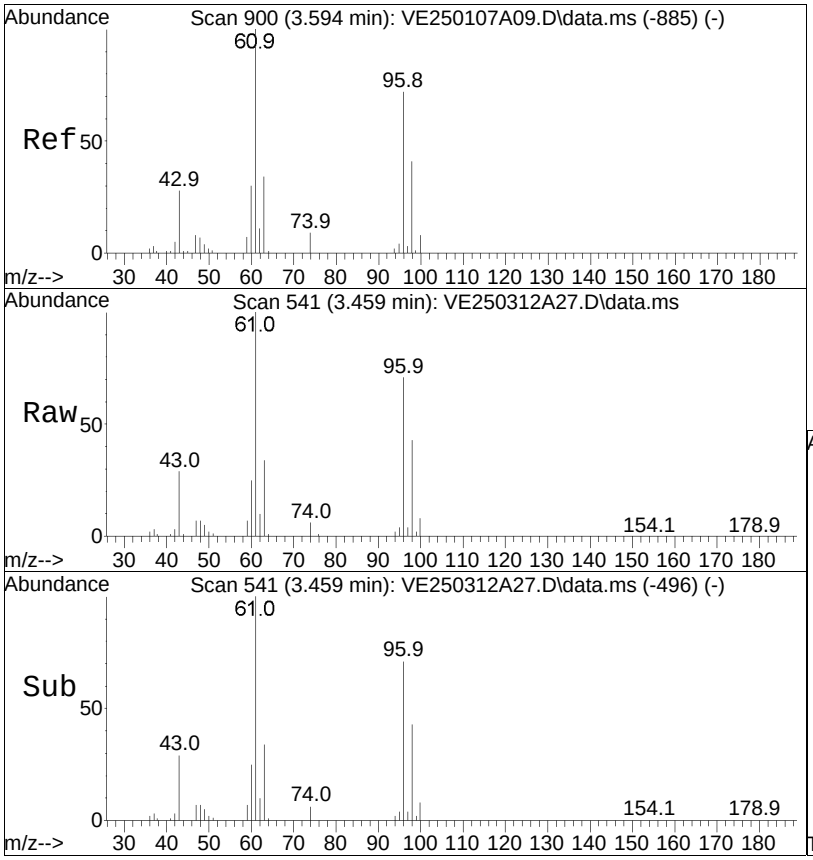


#17
Acetone
Concen: 11.77 ug/L
RT: 3.349 min Scan# 516
Delta R.T. 0.000 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion: 43 Resp: 13476

Ion	Ratio	Lower	Upper
43	100		
58	32.4	26.6	40.0

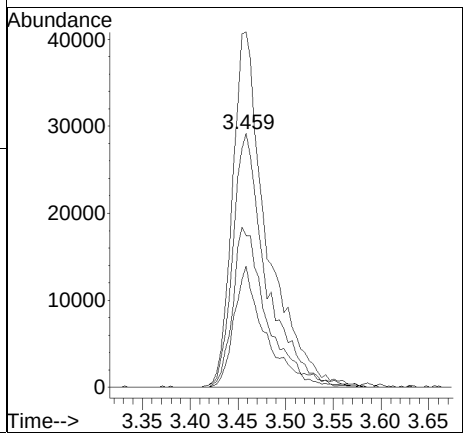


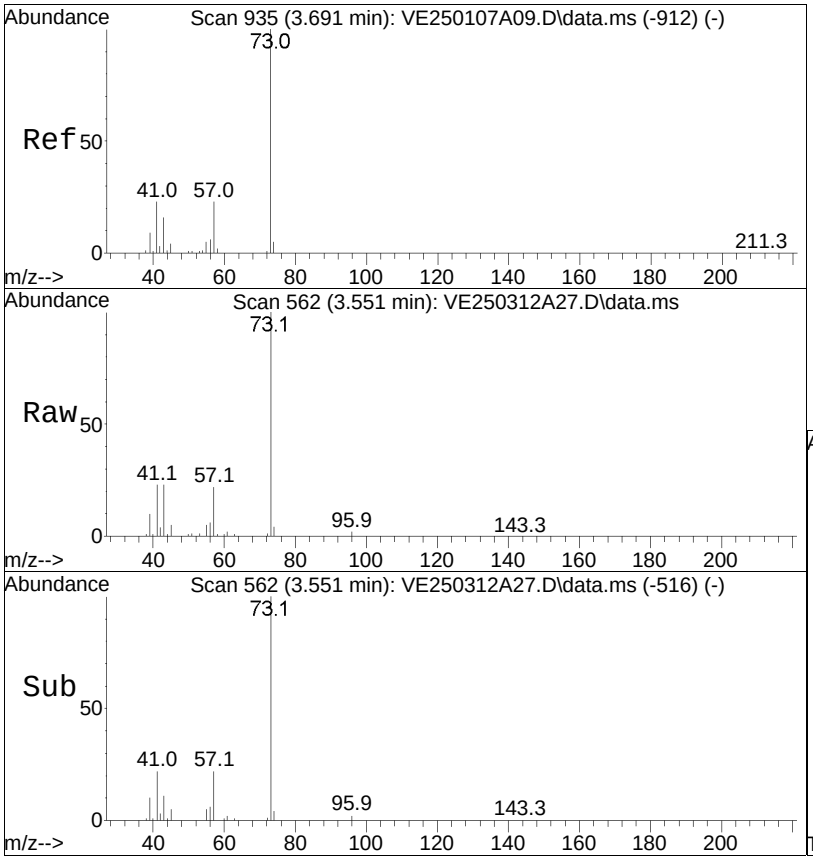


#18
trans-1,2-Dichloroethene
Concen: 11.45 ug/L
RT: 3.459 min Scan# 541
Delta R.T. -0.004 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion: 96 Resp: 72141

Ion	Ratio	Lower	Upper
96	100		
61	143.5	84.8	176.2
98	64.1	42.0	87.2
63	45.0	26.4	54.8

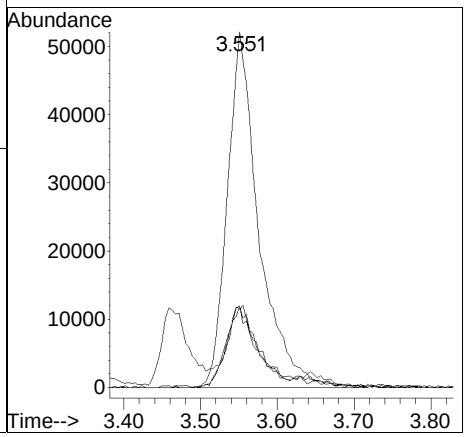


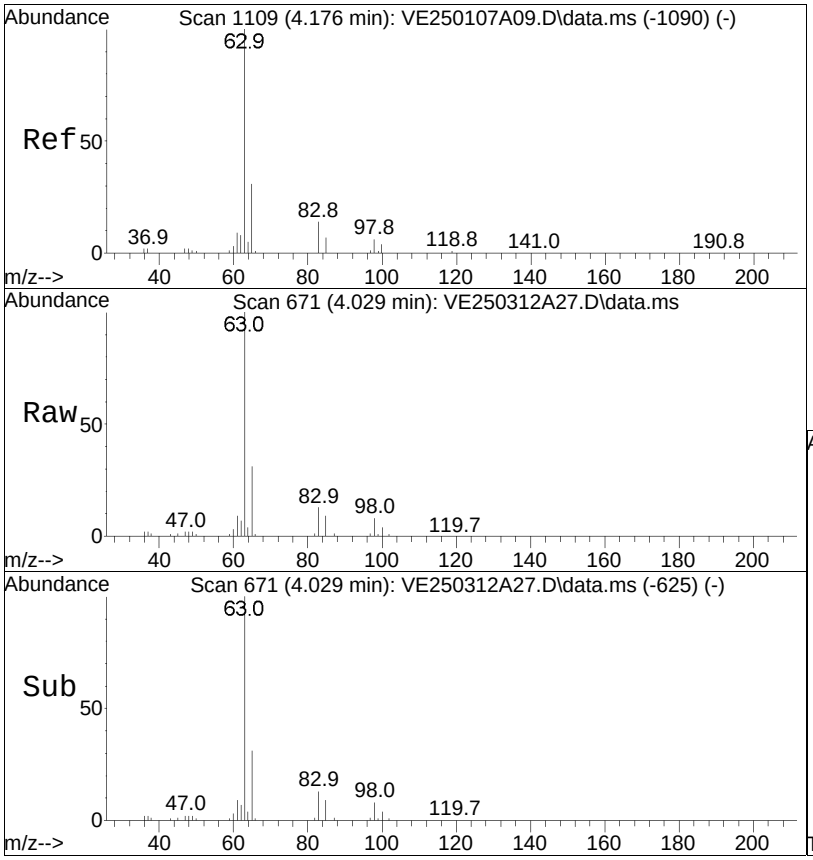


#21
Methyl tert-butyl ether
Concen: 10.03 ug/L
RT: 3.551 min Scan# 562
Delta R.T. 0.002 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion: 73 Resp: 149054

Ion	Ratio	Lower	Upper
73	100		
57	25.0	15.2	31.6
43	23.9	0.0	0.0#
41	26.4	14.4	30.0

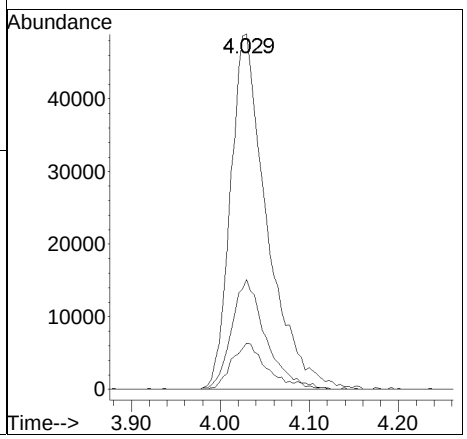


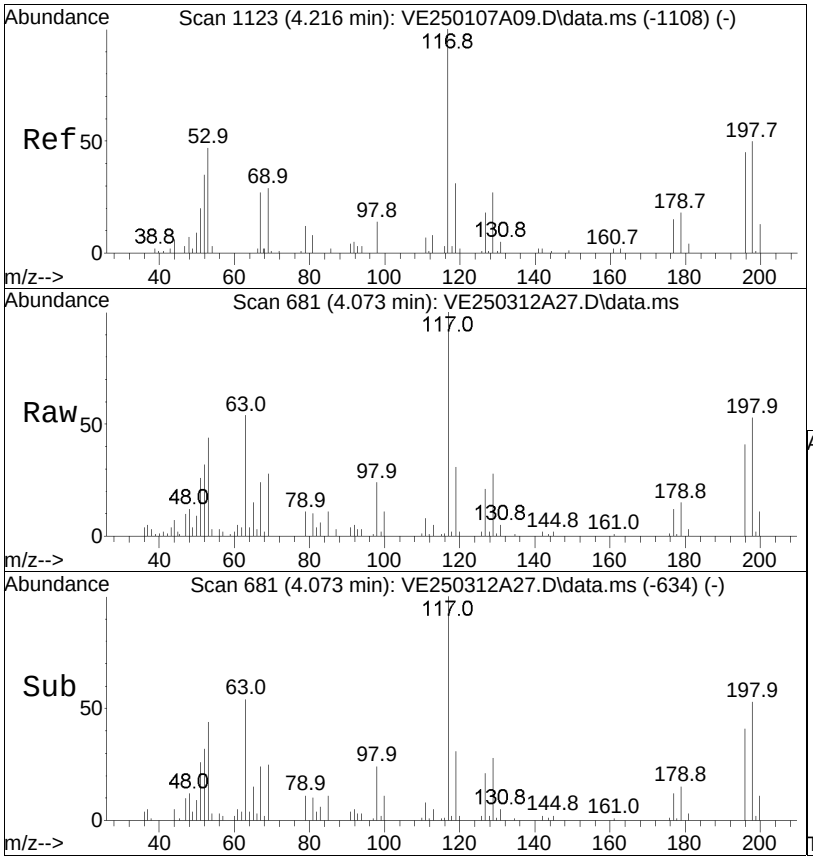


#25
1,1-Dichloroethane
Concen: 11.99 ug/L
RT: 4.029 min Scan# 671
Delta R.T. 0.000 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion: 63 Resp: 139592

Ion	Ratio	Lower	Upper
63	100		
65	29.2	11.7	51.7
83	13.0	0.0	33.3

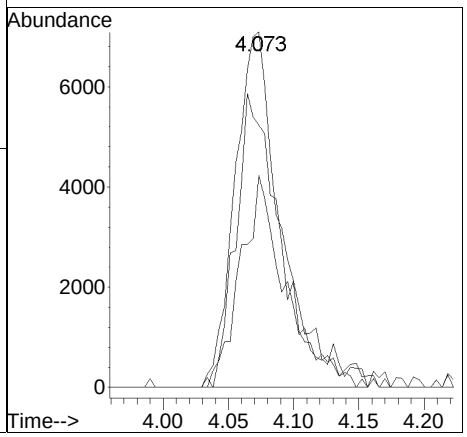


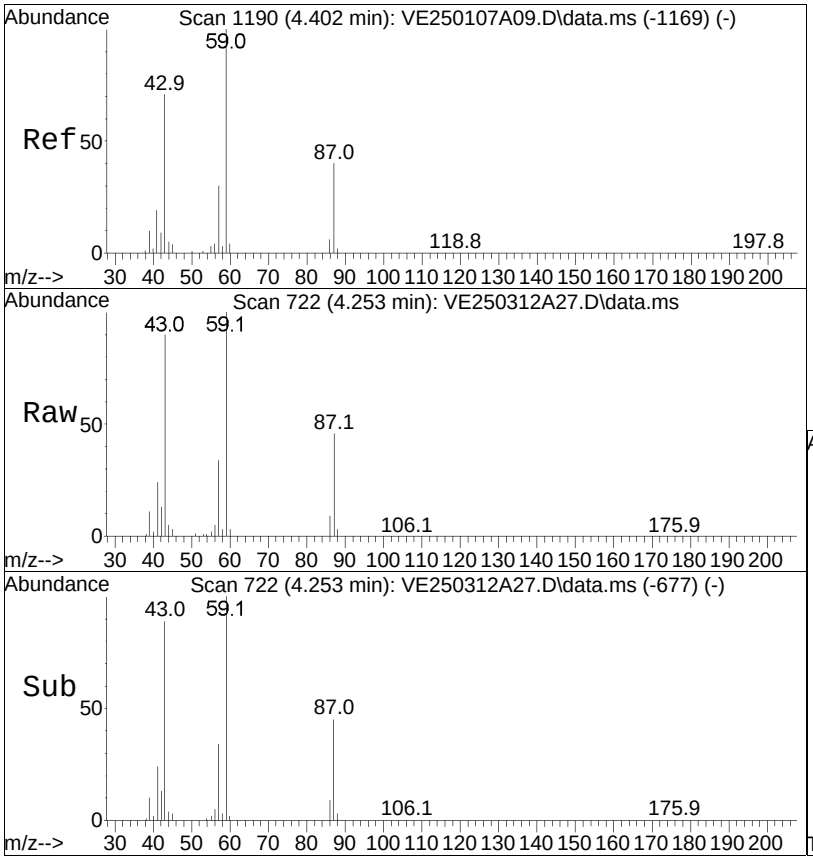


#27
Acrylonitrile
Concen: 12.16 ug/L
RT: 4.073 min Scan# 681
Delta R.T. 0.005 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion: 53 Resp: 17749

Ion	Ratio	Lower	Upper
53	100		
52	81.5	63.5	95.3
51	57.5	46.7	70.1

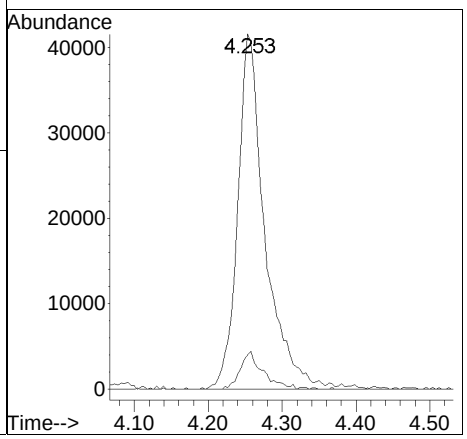


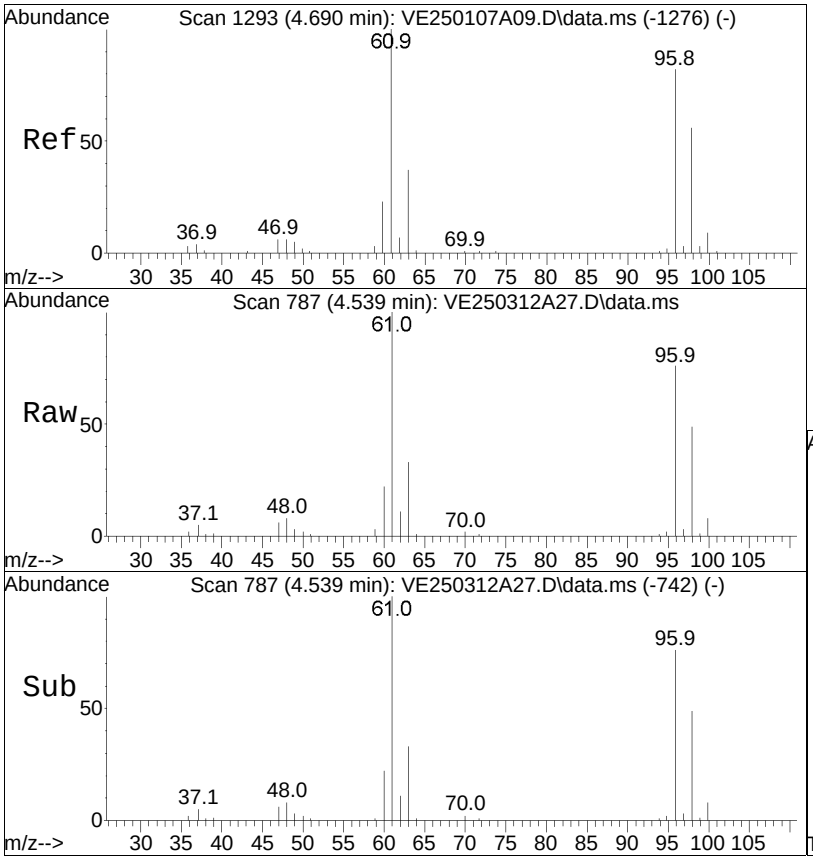


#29
Vinyl acetate
Concen: 9.30 ug/L
RT: 4.253 min Scan# 722
Delta R.T. -0.001 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion: 43 Resp: 107657

Ion	Ratio	Lower	Upper
43	100		
86	9.0	7.4	11.2

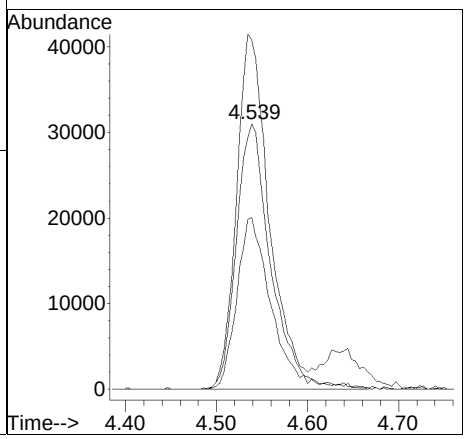


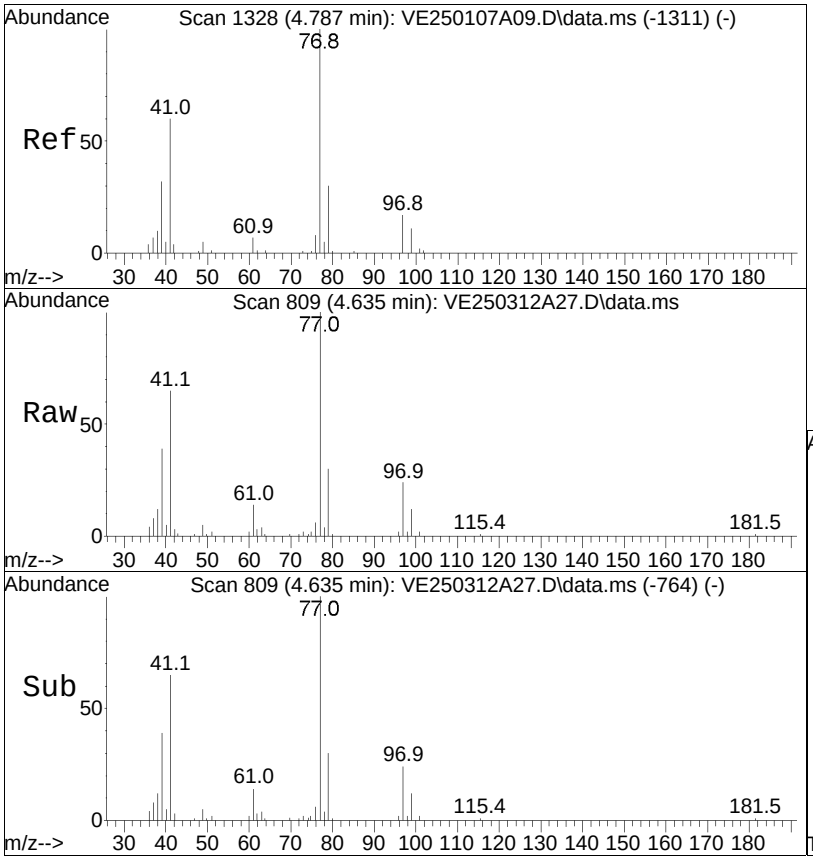


#30
cis-1,2-Dichloroethene
Concen: 11.16 ug/L
RT: 4.539 min Scan# 787
Delta R.T. -0.001 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion: 96 Resp: 81944

Ion	Ratio	Lower	Upper
96	100		
61	144.8	111.0	166.6
98	65.2	50.3	75.5

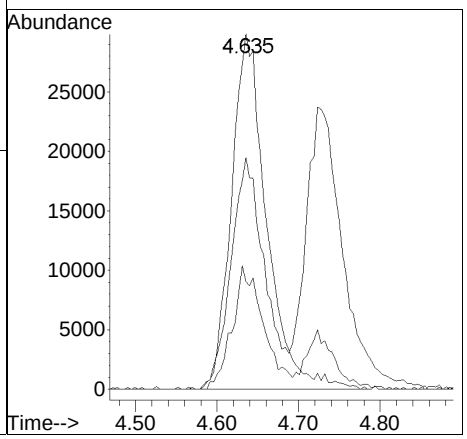


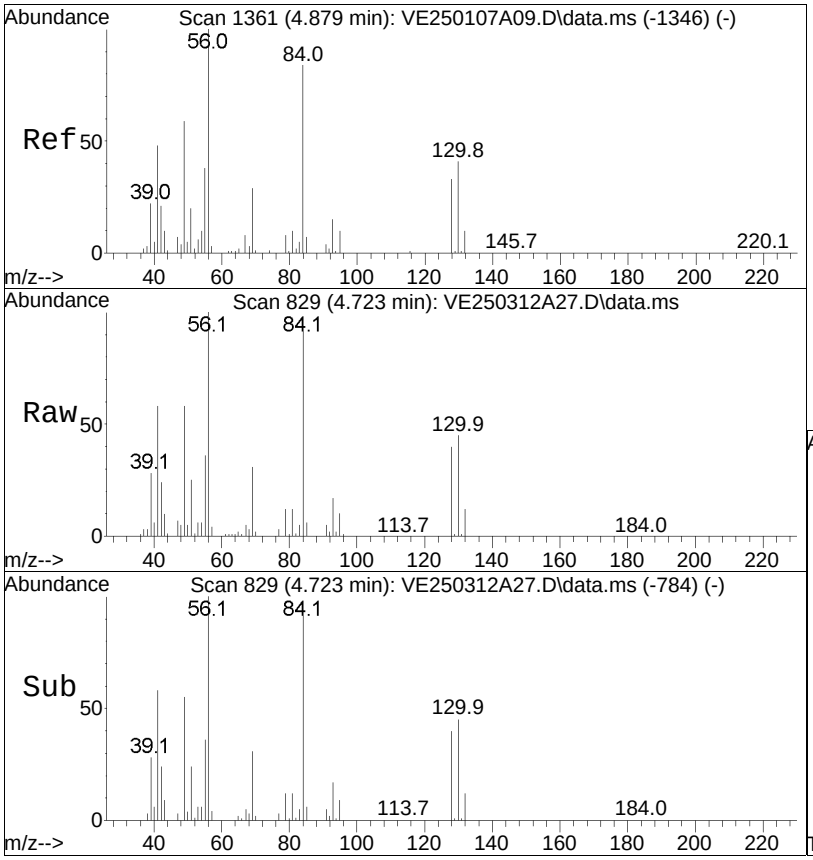


#31
2,2-Dichloropropane
Concen: 9.26 ug/L
RT: 4.635 min Scan# 809
Delta R.T. -0.002 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion: 77 Resp: 89462

Ion	Ratio	Lower	Upper
77	100		
41	63.5	0.0	0.0#
79	31.8	20.5	42.5

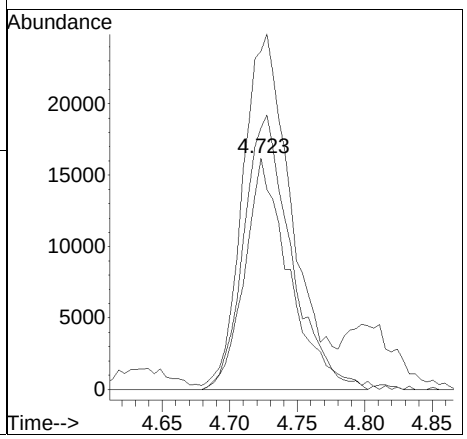


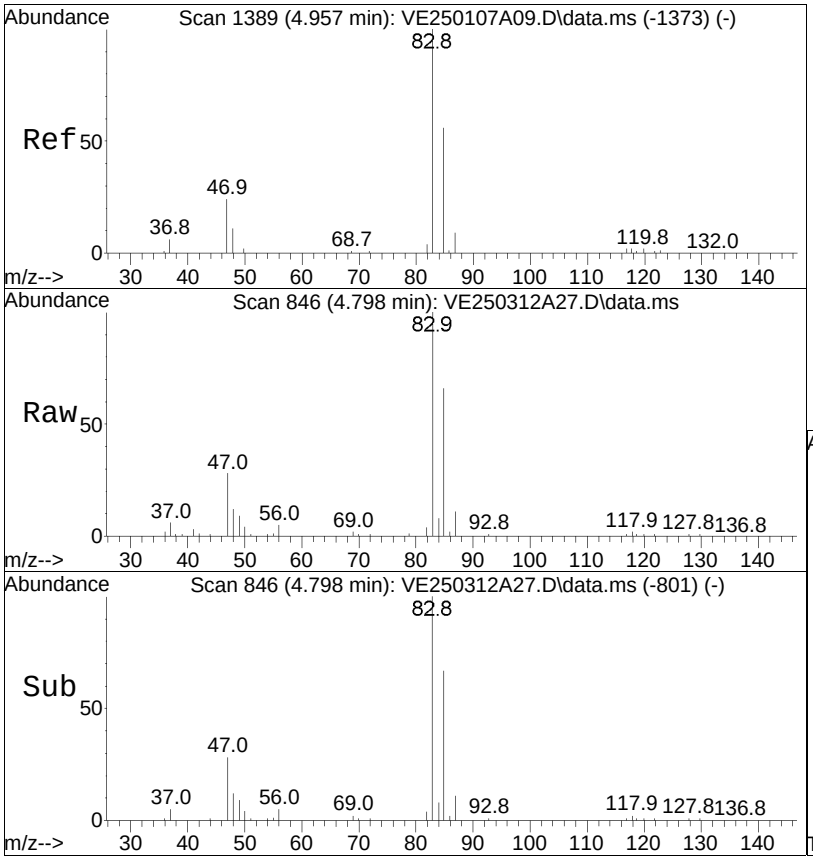


#33
Bromochloromethane
Concen: 11.08 ug/L
RT: 4.723 min Scan# 829
Delta R.T. -0.003 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion:128 Resp: 37118

Ion	Ratio	Lower	Upper
128	100		
49	202.6	152.6	228.8
130	127.5	101.8	152.6

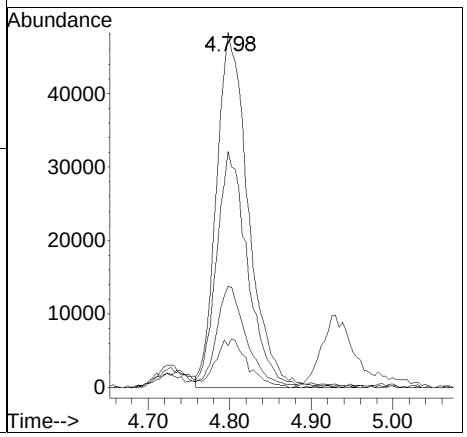


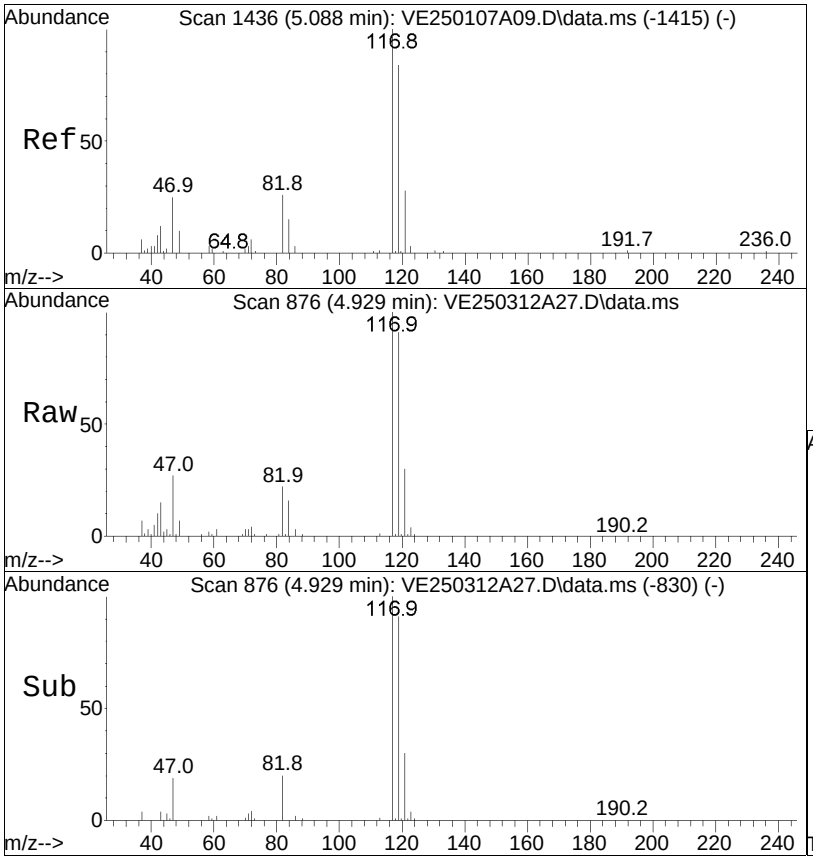


#35
Chloroform
Concen: 11.52 ug/L
RT: 4.798 min Scan# 846
Delta R.T. -0.004 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion: 83 Resp: 132842

Ion	Ratio	Lower	Upper
83	100		
85	64.9	42.5	88.3
47	24.8	16.8	35.0
48	13.2	9.2	19.2

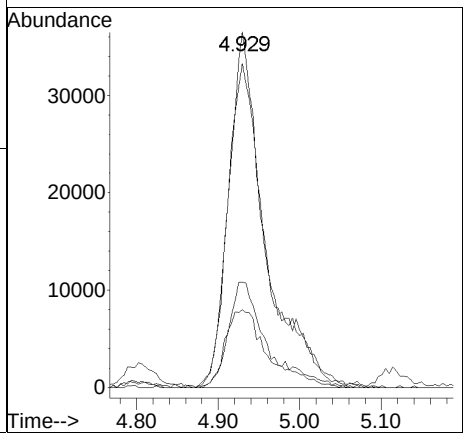


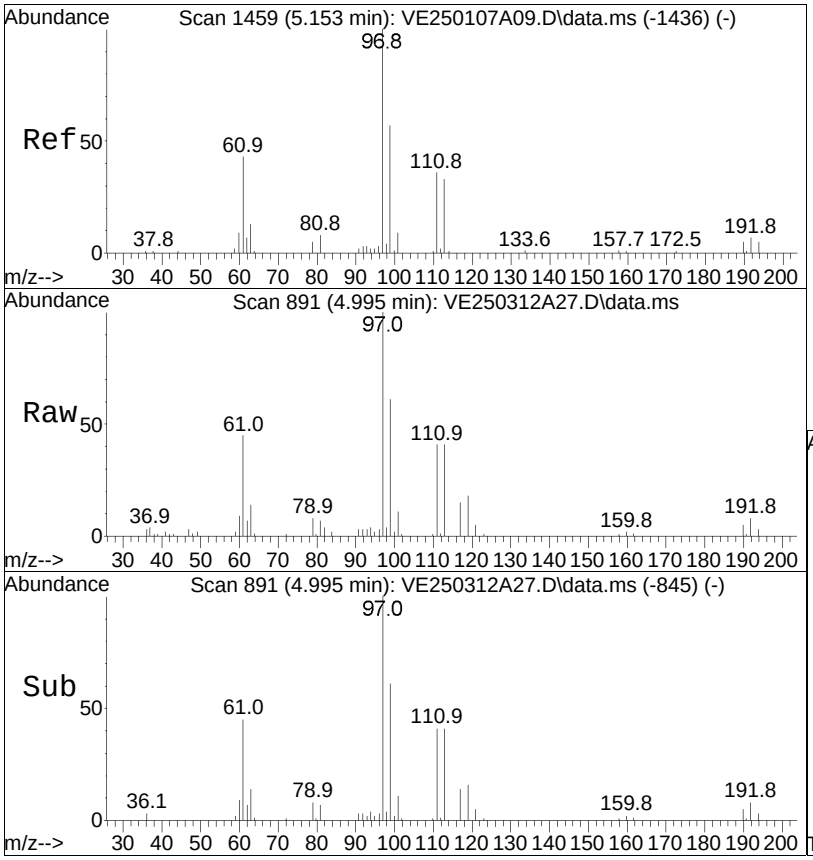


#37
Carbon tetrachloride
Concen: 13.35 ug/L
RT: 4.929 min Scan# 876
Delta R.T. -0.000 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion:117 Resp: 113958

Ion	Ratio	Lower	Upper
117	100		
119	97.5	70.2	145.8
121	31.3	22.9	47.7
82	25.1	19.7	40.9

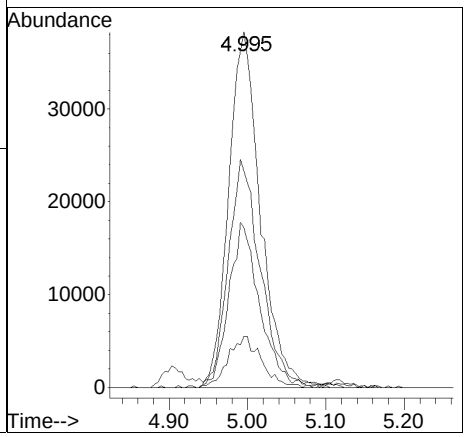


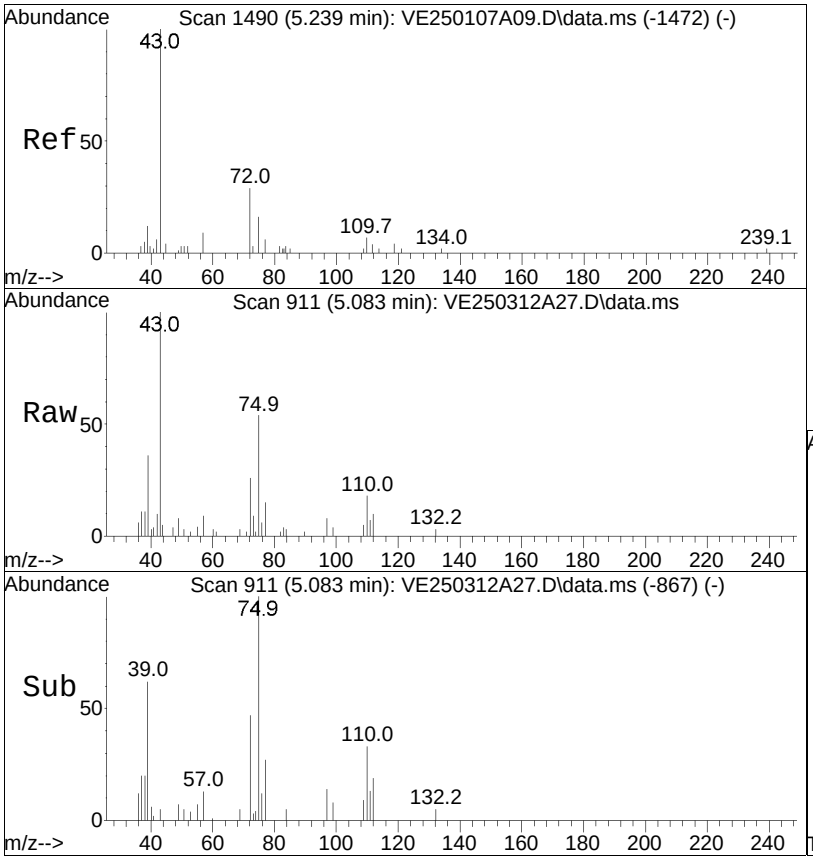


#40
1,1,1-Trichloroethane
Concen: 11.54 ug/L
RT: 4.995 min Scan# 891
Delta R.T. 0.002 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion: 97 Resp: 109522

Ion	Ratio	Lower	Upper
97	100		
99	64.1	42.4	88.2
61	44.5	29.0	60.2
63	14.7	9.4	19.6

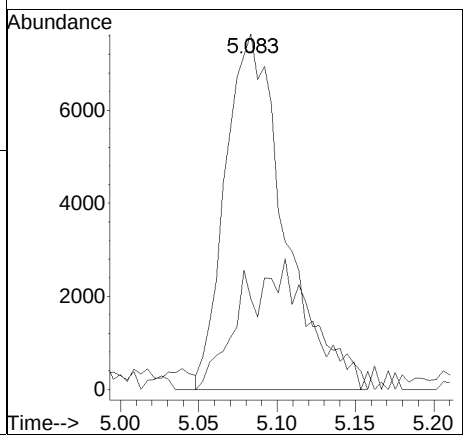


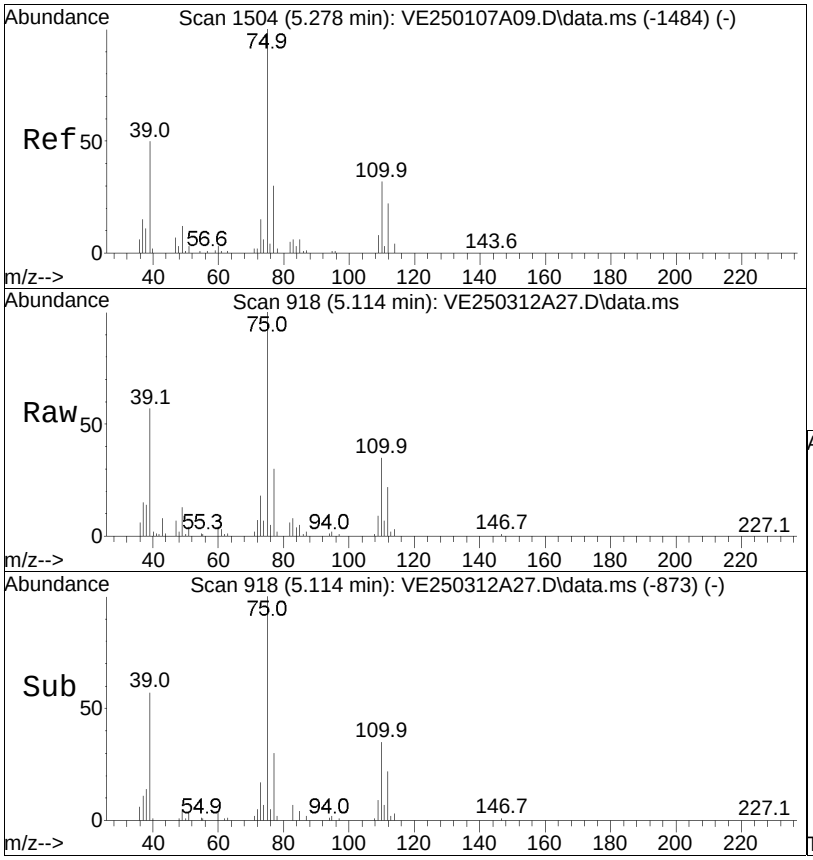


#42
2-Butanone
Concen: 12.56 ug/L
RT: 5.083 min Scan# 911
Delta R.T. -0.005 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion: 43 Resp: 20039

Ion	Ratio	Lower	Upper
43	100		
72	43.9	44.9	67.3#

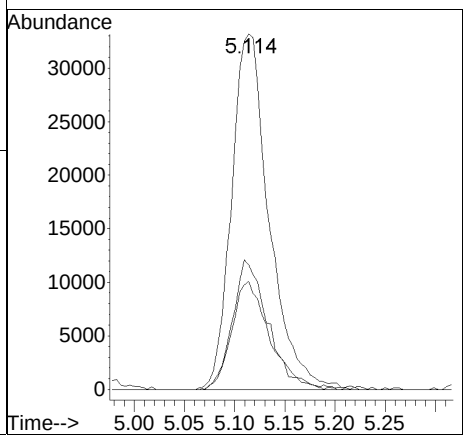


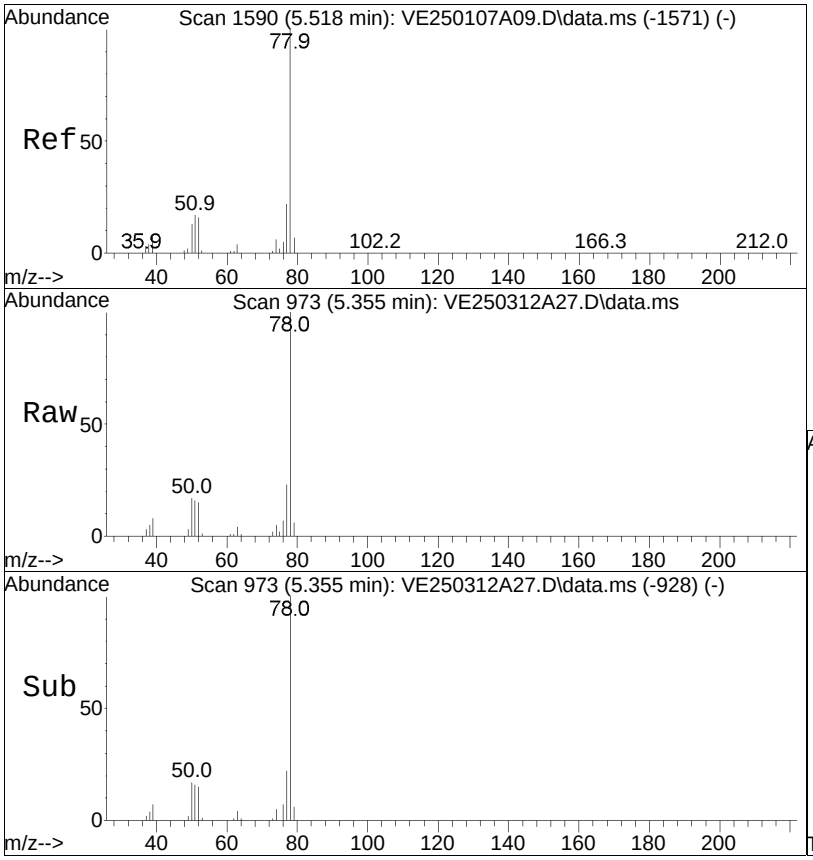


#43
1,1-Dichloropropene
Concen: 11.24 ug/L
RT: 5.114 min Scan# 918
Delta R.T. -0.003 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion: 75 Resp: 86629

Ion	Ratio	Lower	Upper
75	100		
110	34.6	23.5	48.7
77	30.4	20.1	41.7

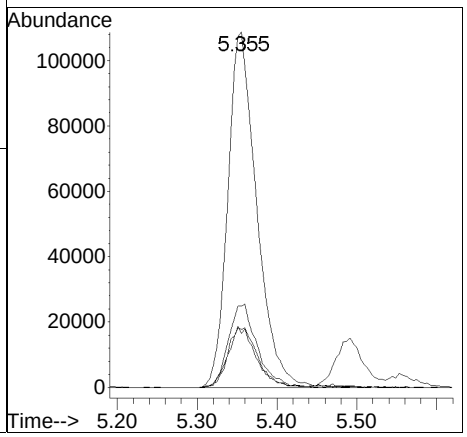


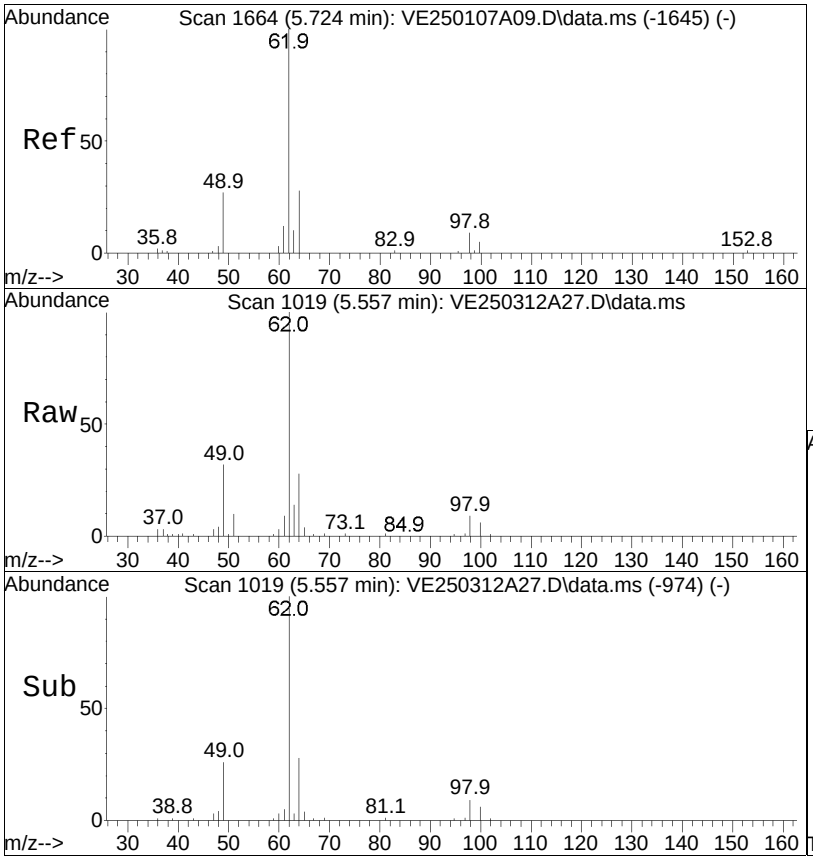


#45
Benzene
Concen: 10.80 ug/L
RT: 5.355 min Scan# 973
Delta R.T. -0.004 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion: 78 Resp: 274306

Ion	Ratio	Lower	Upper
78	100		
77	23.3	15.3	31.9
51	17.5	10.9	22.5
52	16.4	9.6	19.8

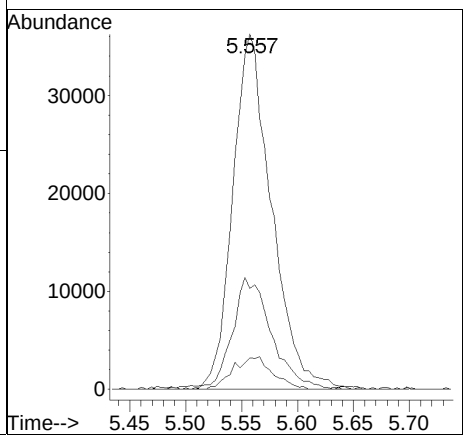


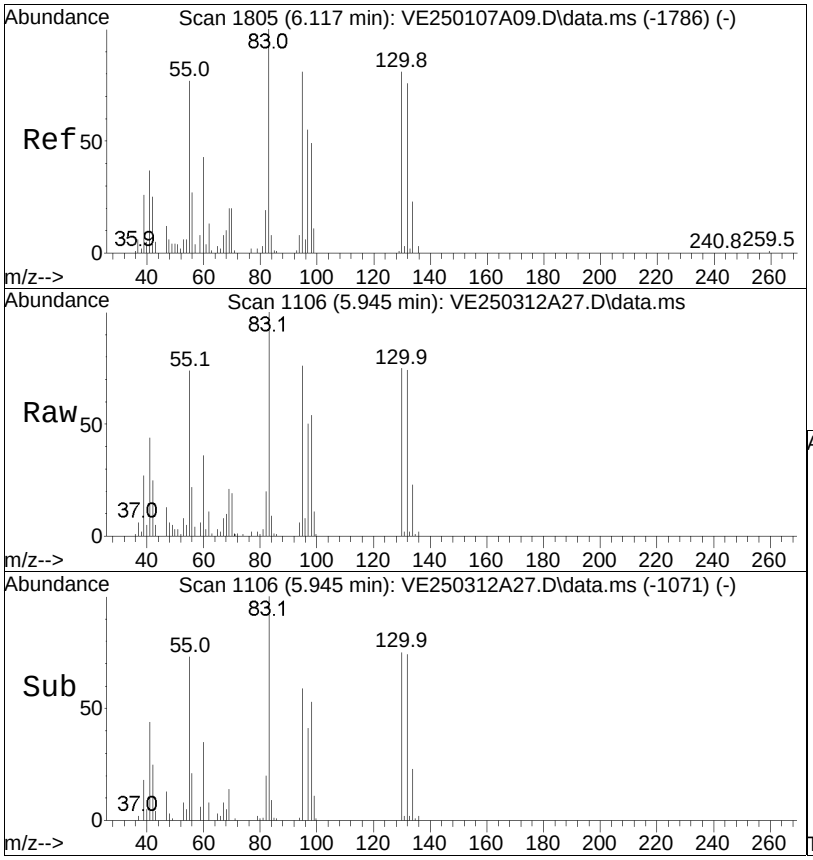


#48
1,2-Dichloroethane
Concen: 10.93 ug/L
RT: 5.557 min Scan# 1019
Delta R.T. -0.003 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion: 62 Resp: 87647

Ion	Ratio	Lower	Upper
62	100		
64	31.4	13.2	53.2
98	9.4	0.0	29.9

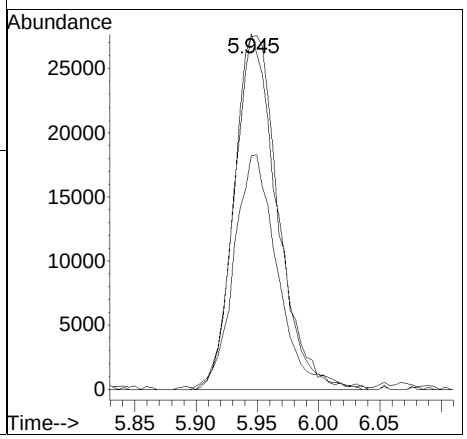


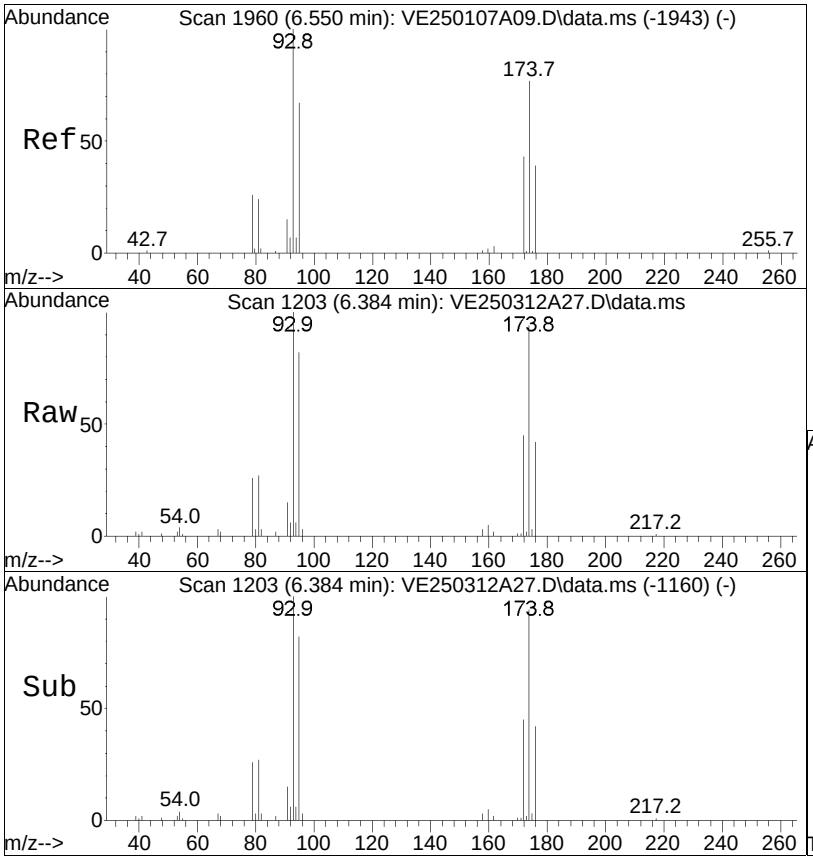


#52
Trichloroethene
Concen: 10.84 ug/L
RT: 5.945 min Scan# 1106
Delta R.T. -0.002 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion: 95 Resp: 66831

Ion	Ratio	Lower	Upper
95	100		
97	67.5	54.3	81.5
130	104.2	82.5	123.7

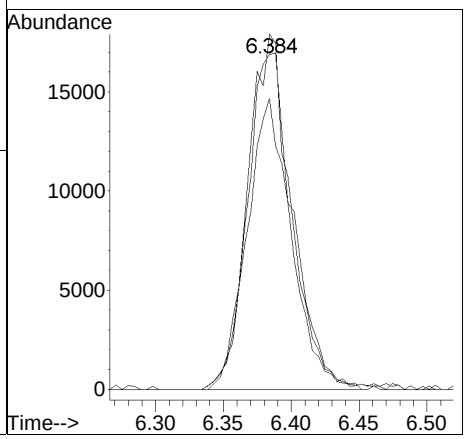


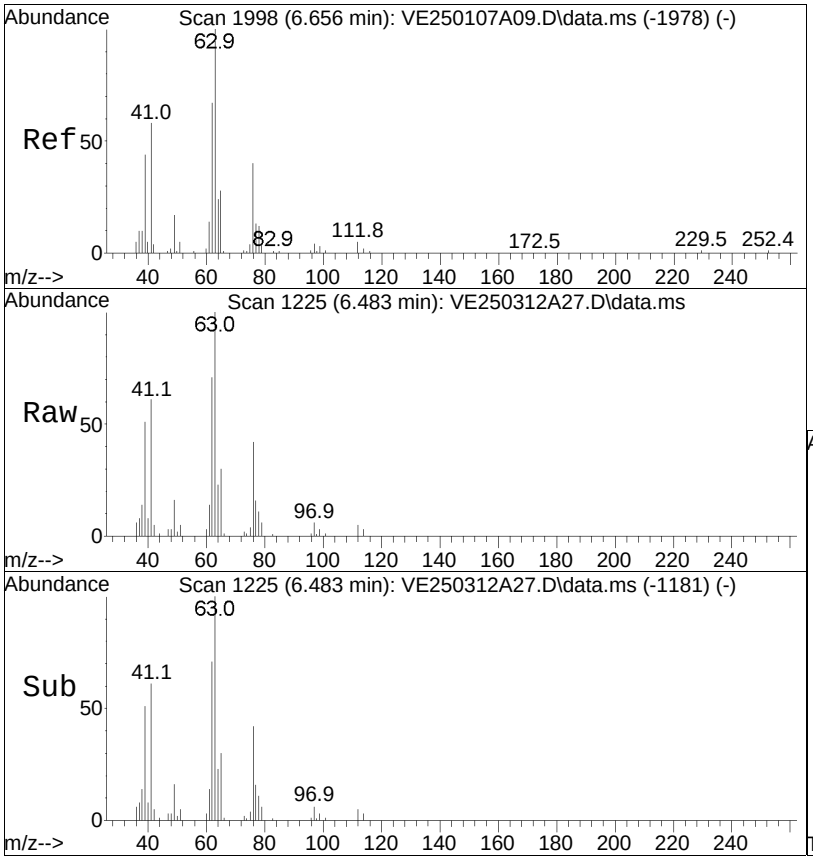


#54
Dibromomethane
Concen: 10.38 ug/L
RT: 6.384 min Scan# 1203
Delta R.T. -0.004 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion: 93 Resp: 40010

Ion	Ratio	Lower	Upper
93	100		
95	83.6	65.8	98.8
174	99.3	75.9	113.9

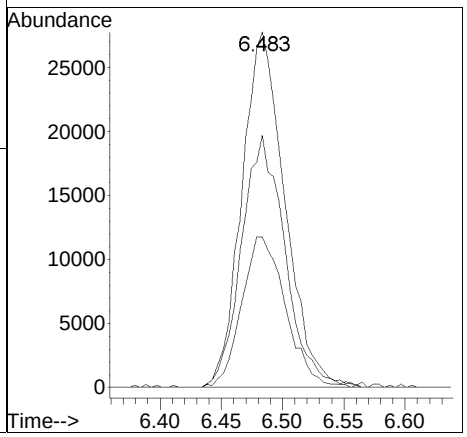


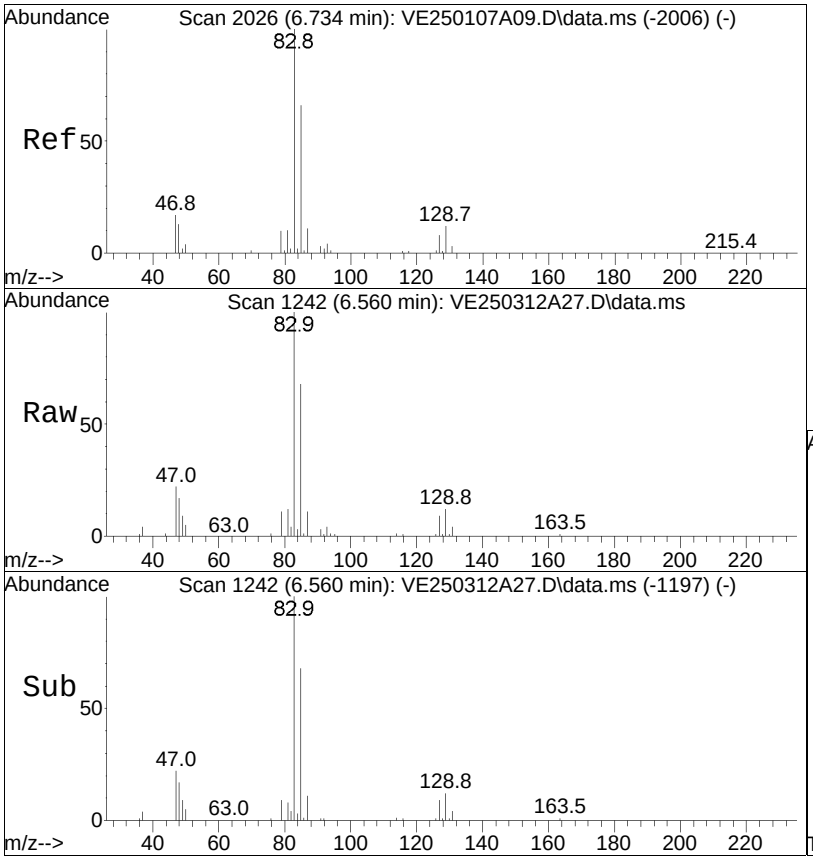


#55
1,2-Dichloropropane
Concen: 11.38 ug/L
RT: 6.483 min Scan# 1225
Delta R.T. -0.002 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion: 63 Resp: 67994

Ion	Ratio	Lower	Upper
63	100		
62	71.4	56.2	84.4
76	43.2	34.8	52.2

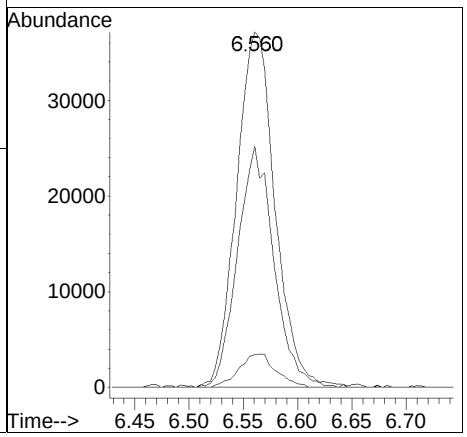


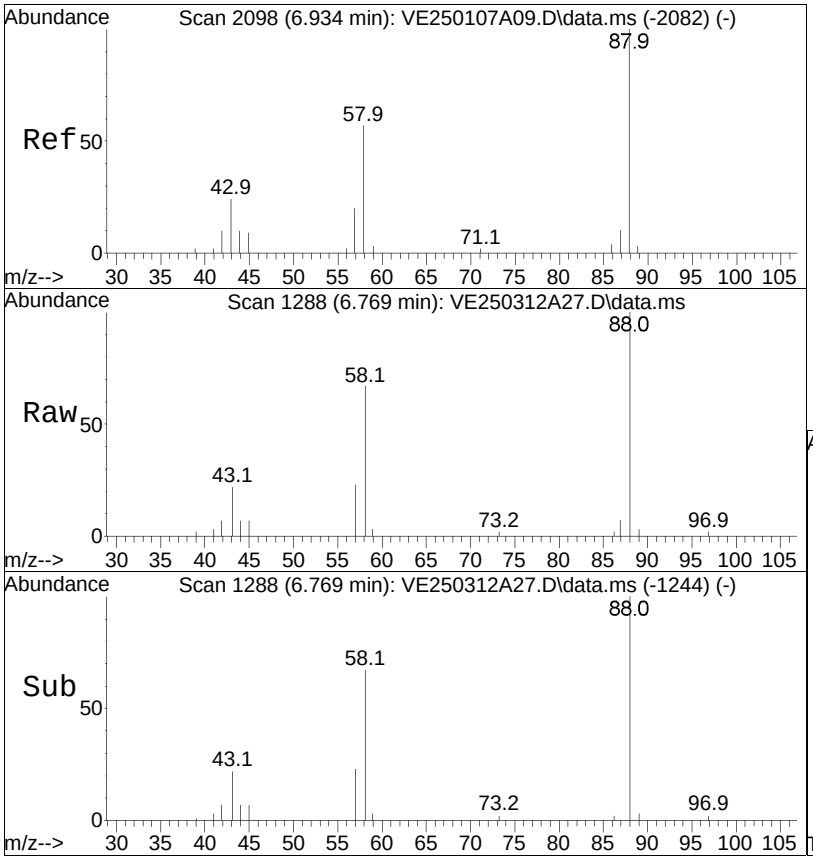


#58
Bromodichloromethane
Concen: 10.72 ug/L
RT: 6.560 min Scan# 1242
Delta R.T. 0.002 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion: 83 Resp: 92097

Ion	Ratio	Lower	Upper
83	100		
85	64.1	51.0	76.6
127	9.0	7.0	10.4

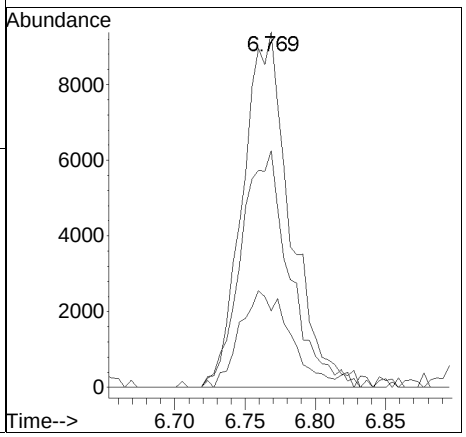


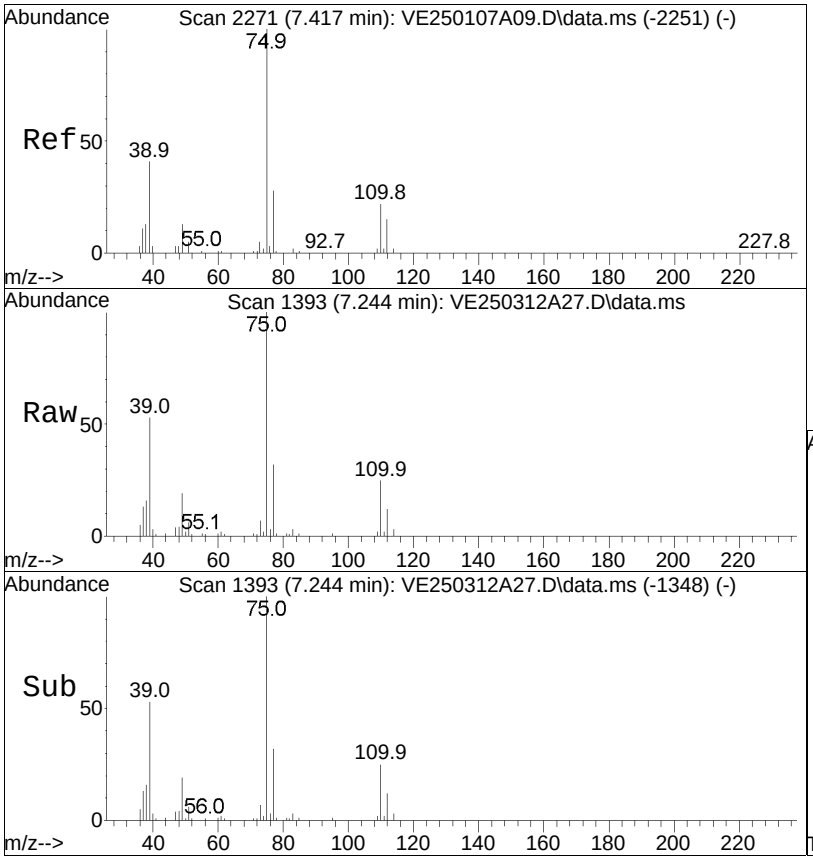


#61
1,4-Dioxane
Concen: 717.43 ug/L
RT: 6.769 min Scan# 1288
Delta R.T. 0.001 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion: 88 Resp: 22089

Ion	Ratio	Lower	Upper
88	100		
58	68.5	49.4	74.0
43	29.7	20.9	31.3

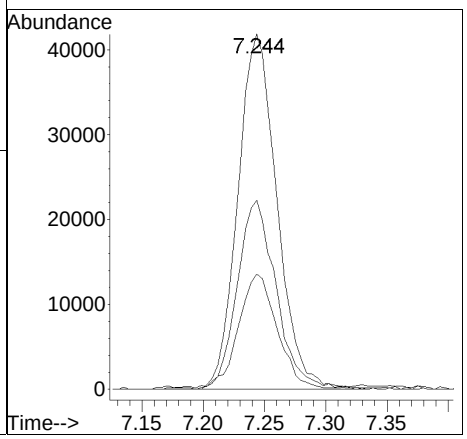


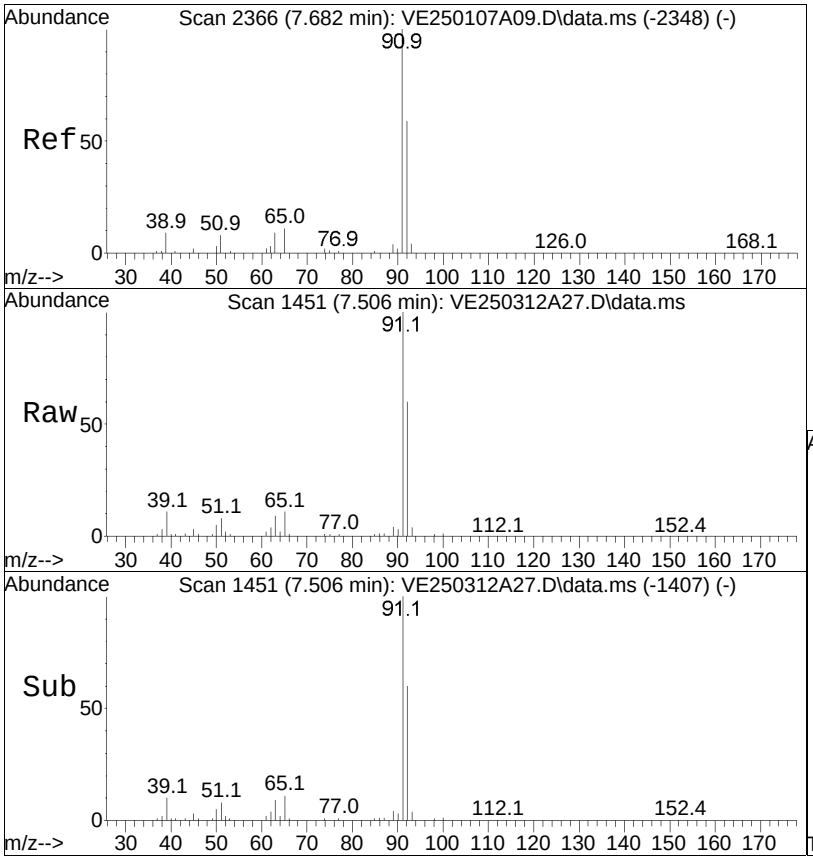


#62
cis-1,3-Dichloropropene
Concen: 9.99 ug/L
RT: 7.244 min Scan# 1393
Delta R.T. 0.002 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion: 75 Resp: 92857

Ion	Ratio	Lower	Upper
75	100		
77	32.6	25.0	37.4
39	55.0	42.9	64.3

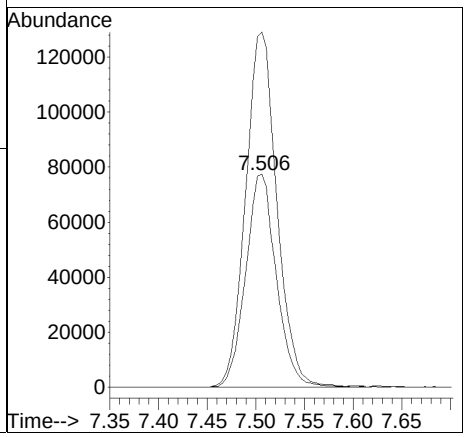


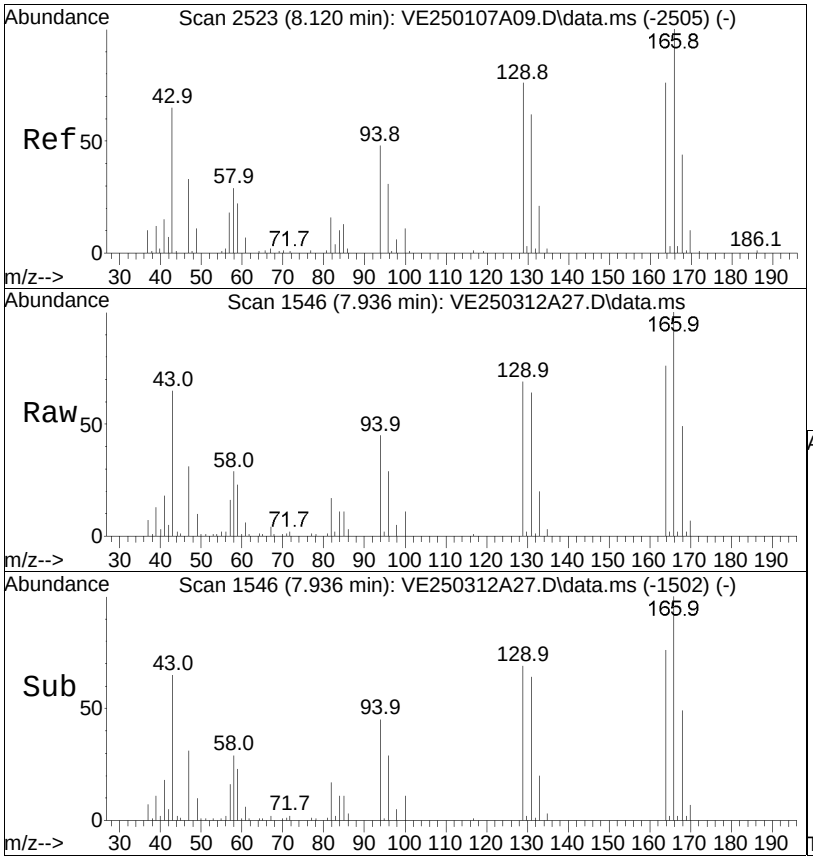


#65
Toluene
Concen: 10.19 ug/L
RT: 7.506 min Scan# 1451
Delta R.T. -0.000 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion: 92 Resp: 169981

Ion	Ratio	Lower	Upper
92	100		
91	170.1	134.8	202.2

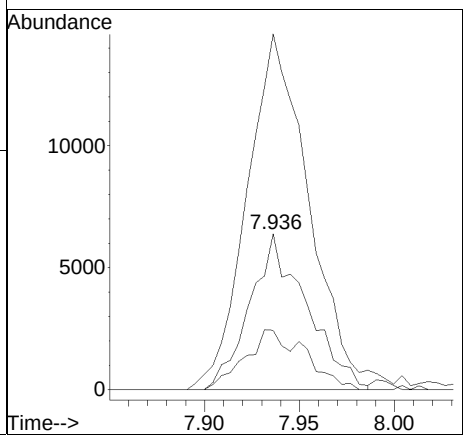


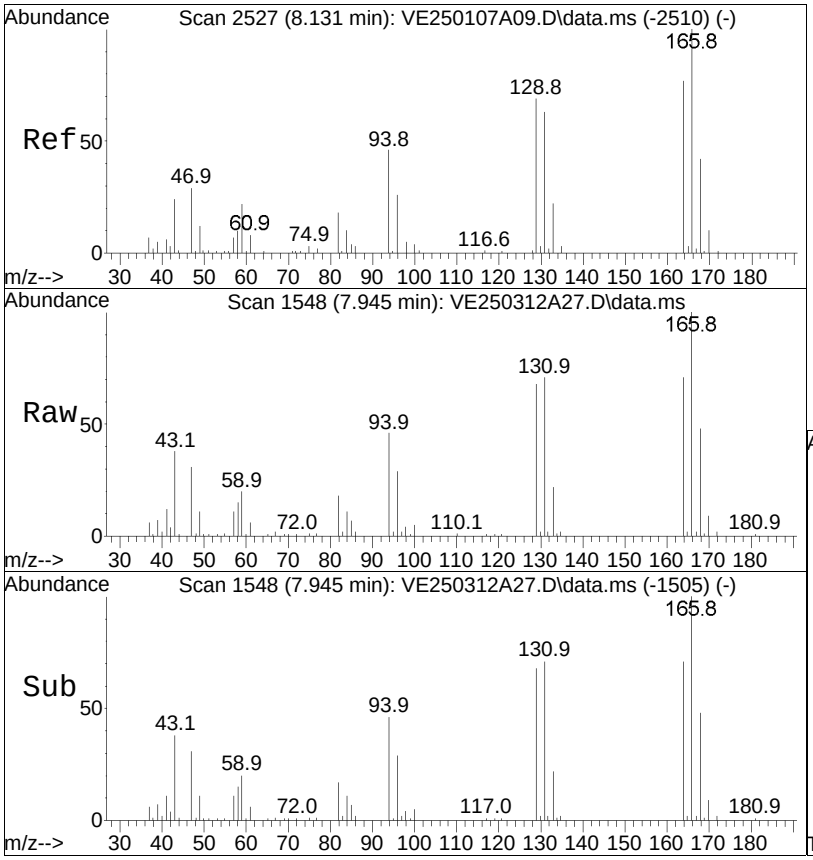


#66
4-Methyl-2-pentanone
Concen: 9.28 ug/L
RT: 7.936 min Scan# 1546
Delta R.T. -0.002 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion: 58 Resp: 13208

Ion	Ratio	Lower	Upper
58	100		
100	40.6	34.8	52.2
43	256.0	201.1	301.7

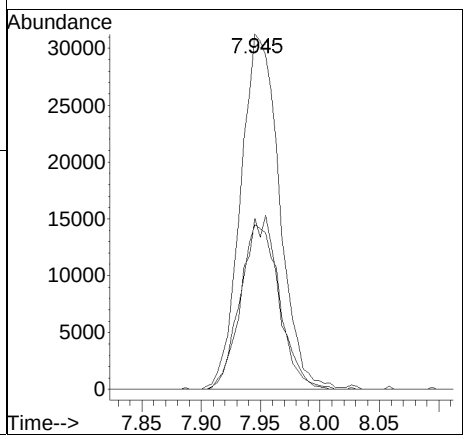


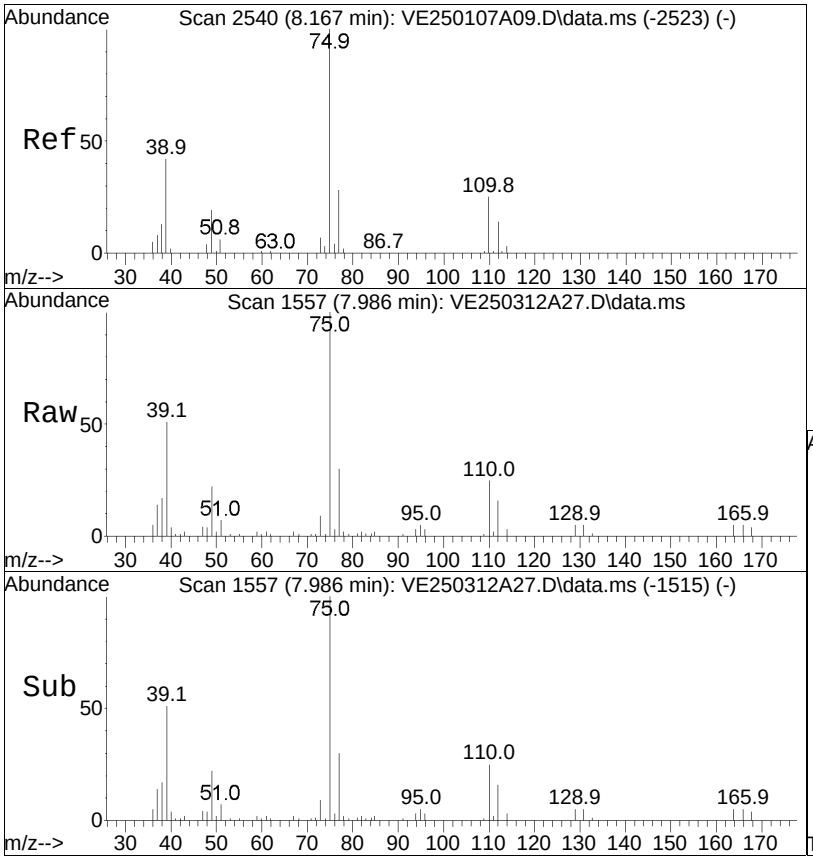


#67
Tetrachloroethene
Concen: 11.13 ug/L
RT: 7.945 min Scan# 1548
Delta R.T. -0.007 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion:166 Resp: 71472

Ion	Ratio	Lower	Upper
166	100		
168	47.1	28.3	68.3
94	46.9	27.4	67.4

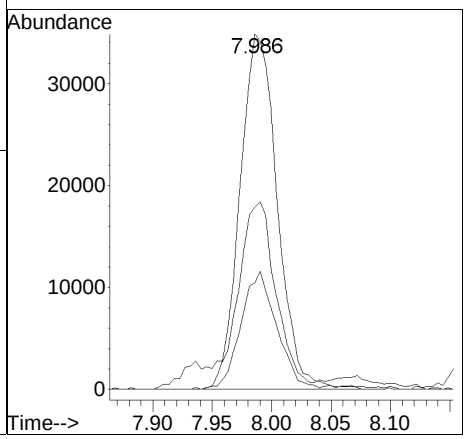


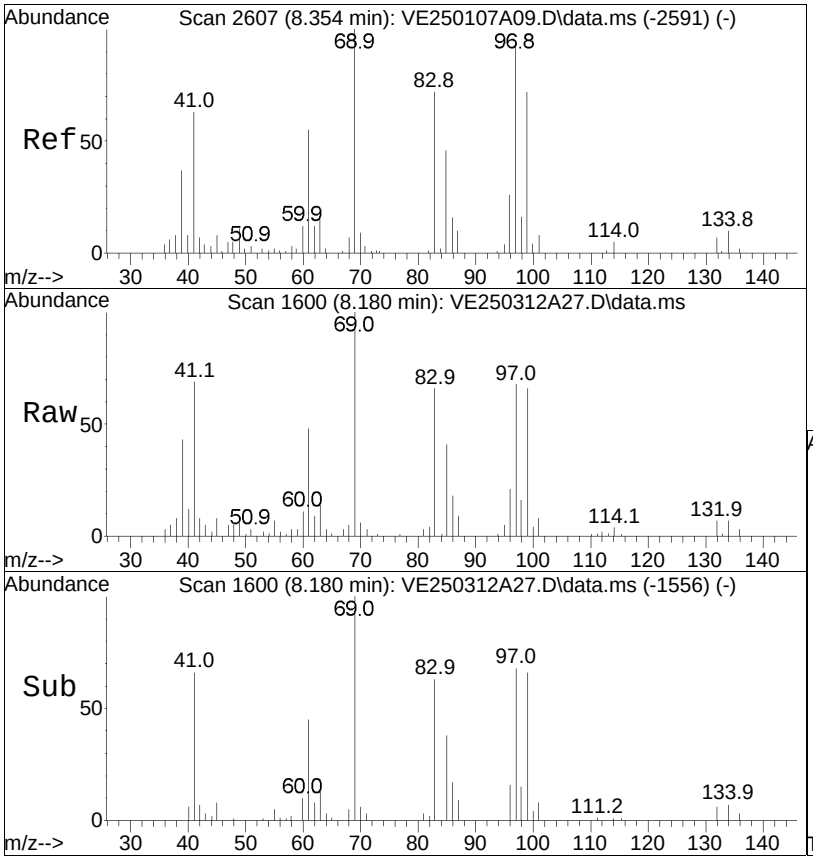


#69
trans-1,3-Dichloropropene
Concen: 9.47 ug/L
RT: 7.986 min Scan# 1557
Delta R.T. -0.008 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion: 75 Resp: 76372

Ion	Ratio	Lower	Upper
75	100		
77	33.2	11.5	51.5
39	54.8	29.6	69.6

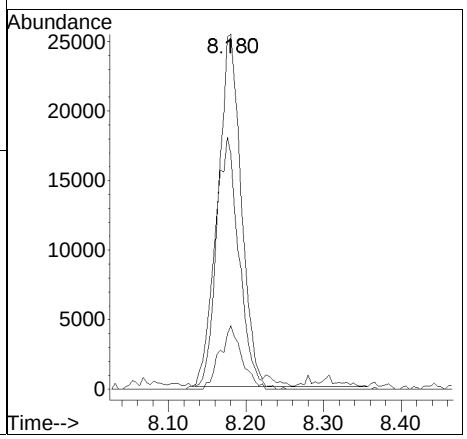


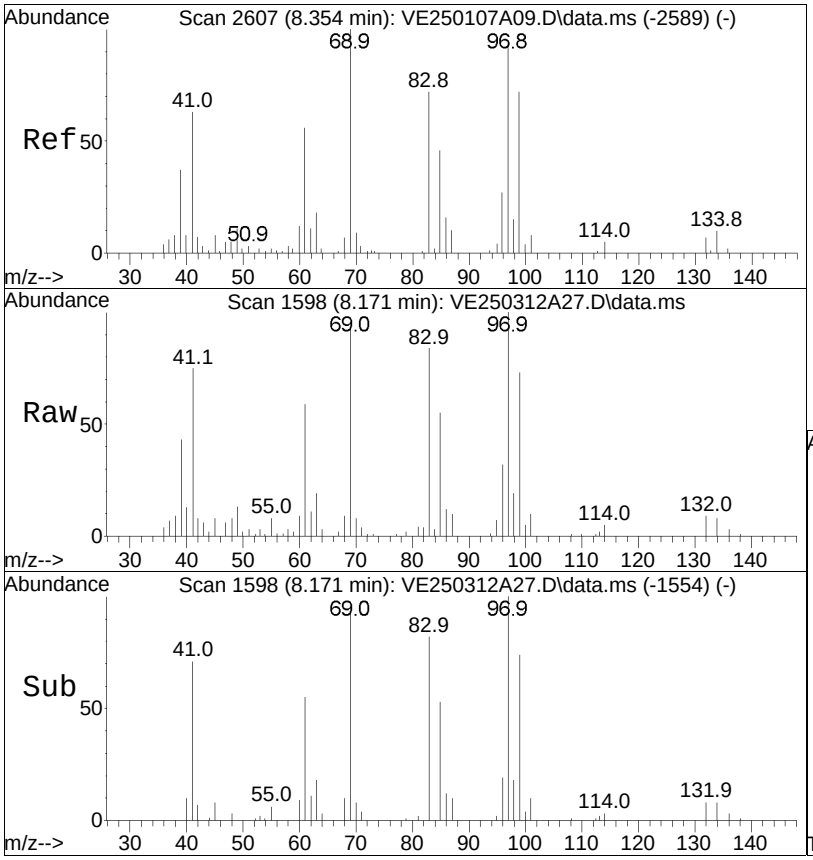


#71
Ethyl methacrylate
Concen: 9.39 ug/L
RT: 8.180 min Scan# 1600
Delta R.T. -0.001 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion: 69 Resp: 53480

Ion	Ratio	Lower	Upper
69	100		
99	75.4	46.3	86.3
86	17.0	0.0	36.5

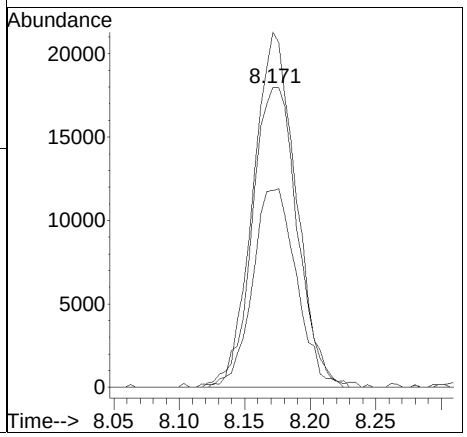


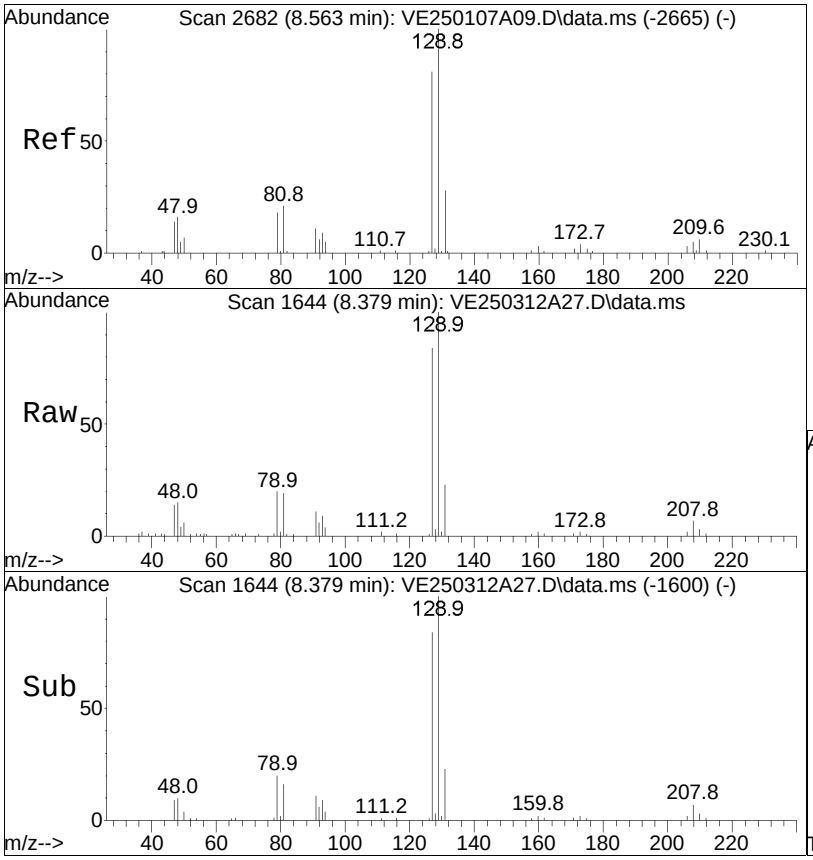


#72
1,1,2-Trichloroethane
Concen: 10.31 ug/L
RT: 8.171 min Scan# 1598
Delta R.T. -0.001 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion: 83 Resp: 43214

Ion	Ratio	Lower	Upper
83	100		
97	112.4	96.9	136.9
85	64.3	46.7	86.7

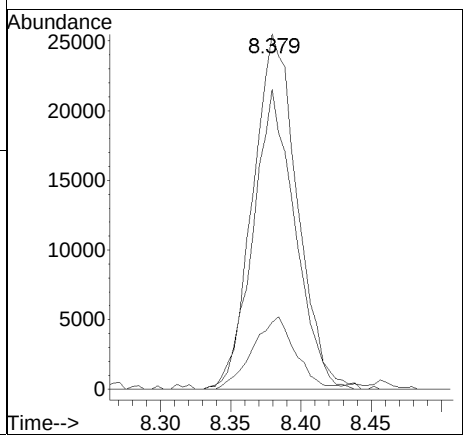


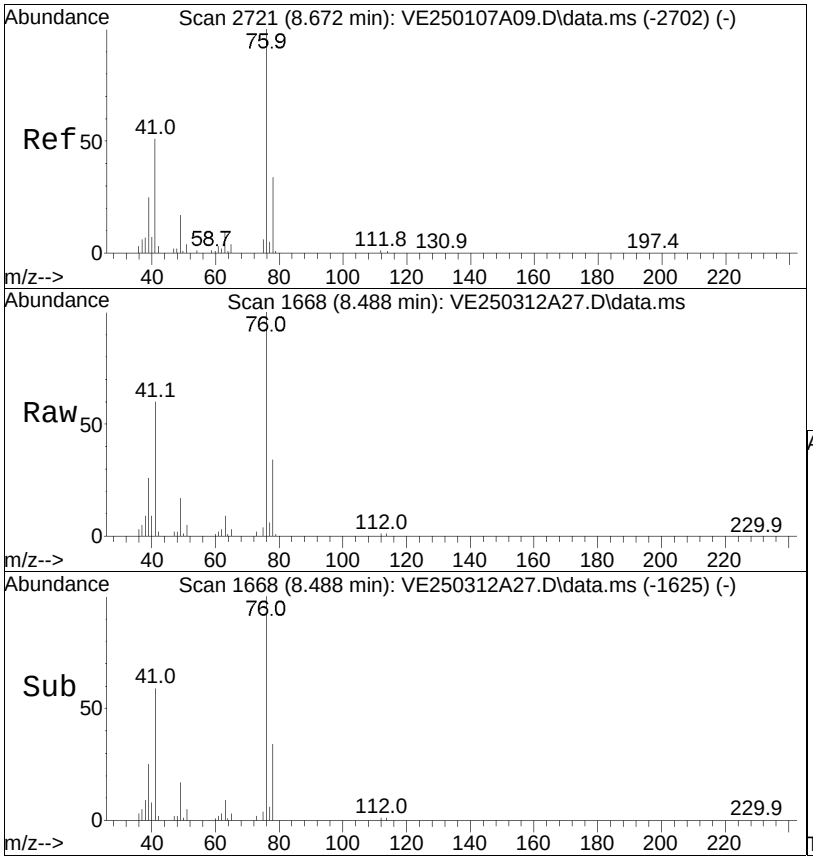


#73
Chlorodibromomethane
Concen: 9.64 ug/L
RT: 8.379 min Scan# 1644
Delta R.T. -0.002 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion:129 Resp: 56196

Ion	Ratio	Lower	Upper
129	100		
81	21.6	0.9	40.9
127	79.6	56.5	96.5

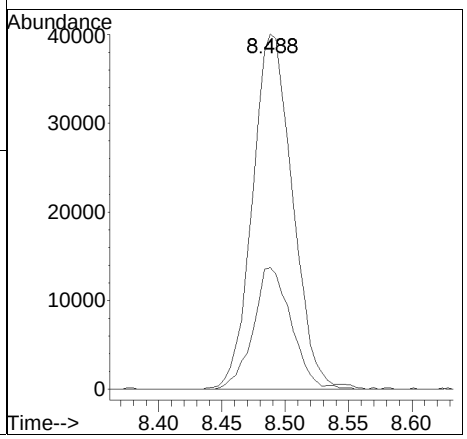


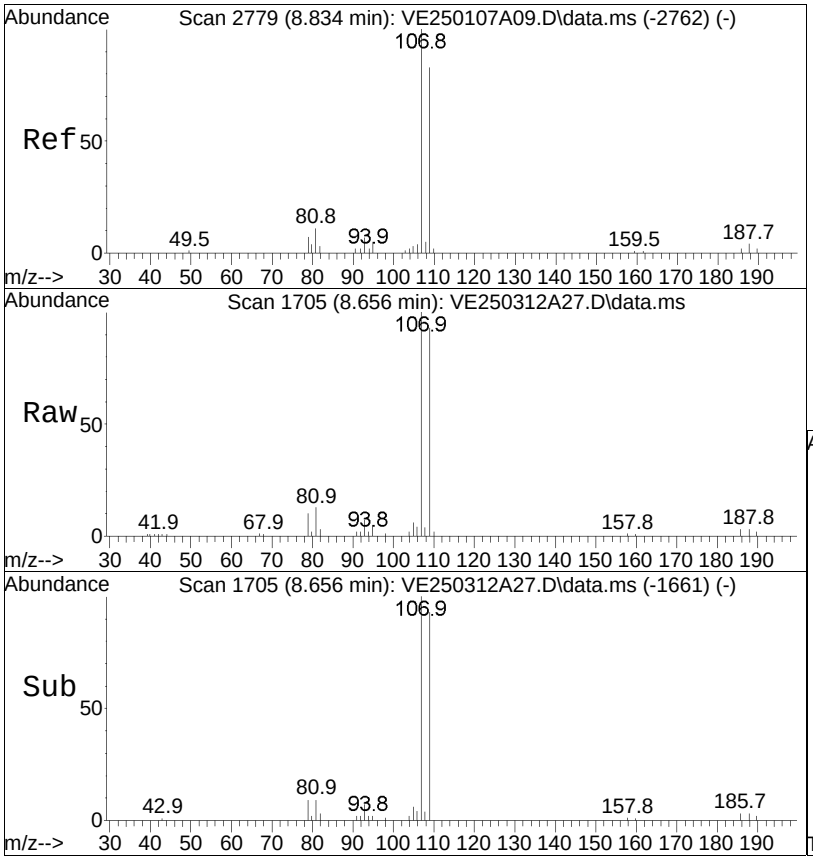


#74
1,3-Dichloropropane
Concen: 10.19 ug/L
RT: 8.488 min Scan# 1668
Delta R.T. -0.005 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion: 76 Resp: 88266

Ion	Ratio	Lower	Upper
76	100		
78	32.8	25.8	38.6

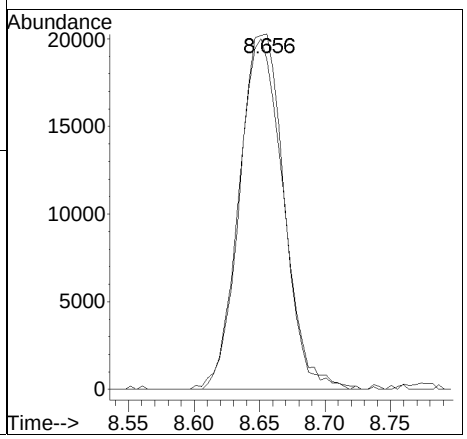


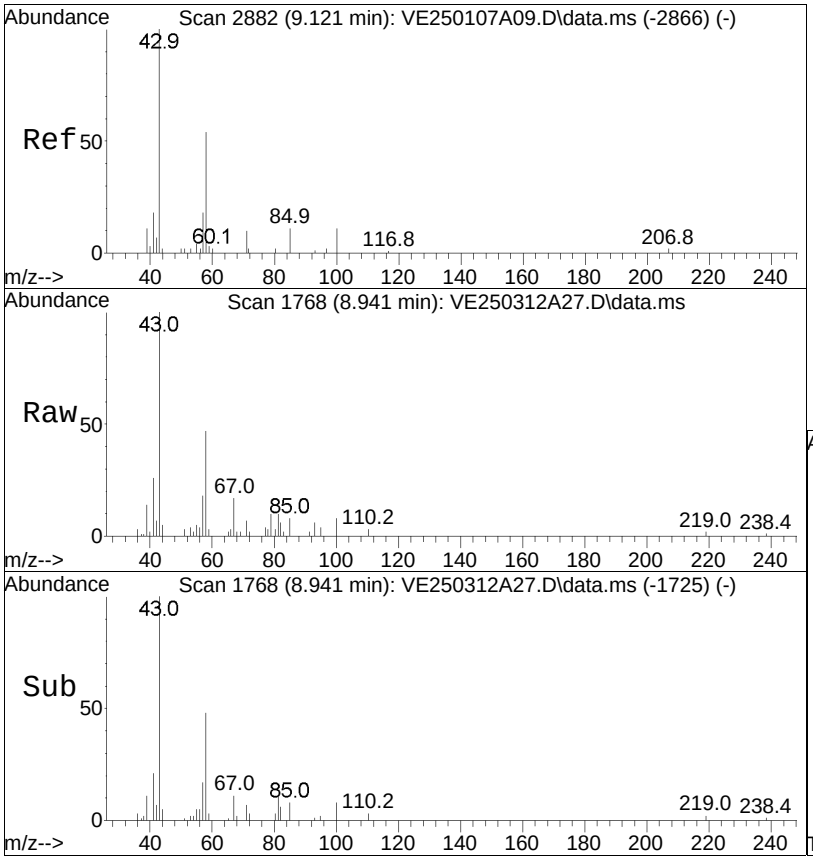


#75
1,2-Dibromoethane
Concen: 10.12 ug/L
RT: 8.656 min Scan# 1705
Delta R.T. 0.000 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion:107 Resp: 48532

Ion	Ratio	Lower	Upper
107	100		
109	95.6	72.7	109.1

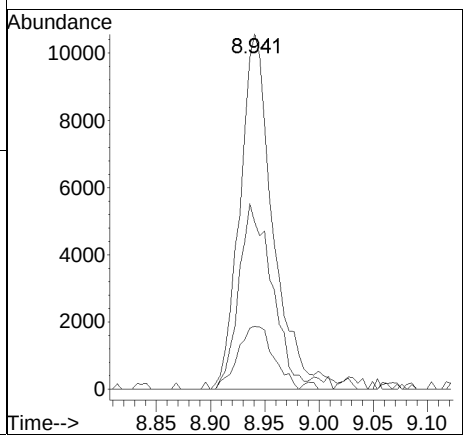


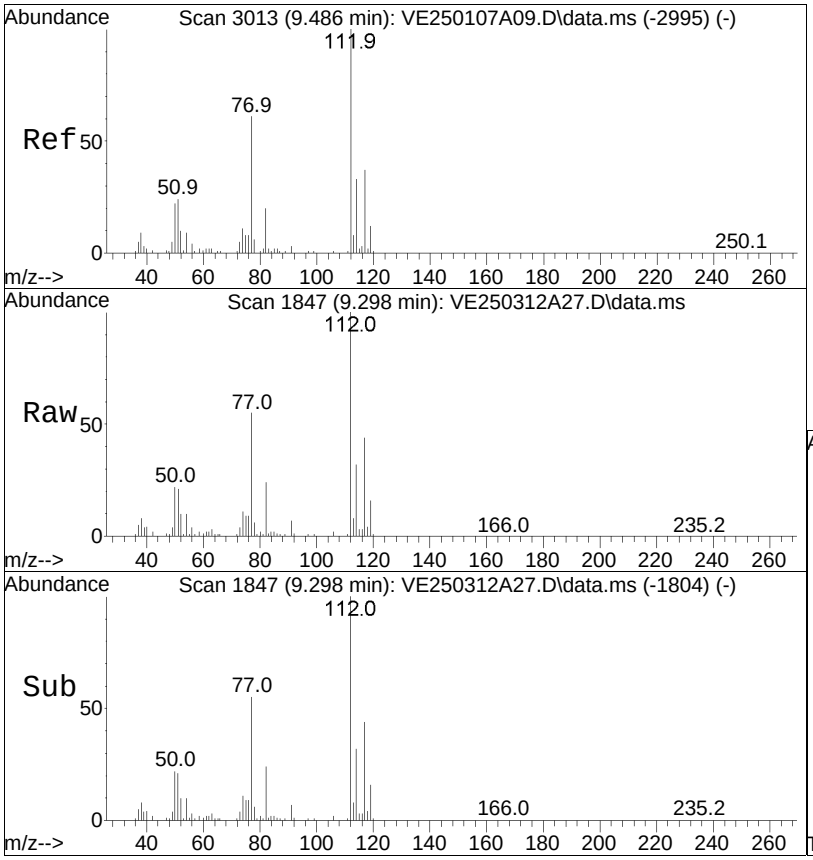


#77
2-Hexanone
Concen: 10.11 ug/L
RT: 8.941 min Scan# 1768
Delta R.T. -0.005 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion: 43 Resp: 22916

Ion	Ratio	Lower	Upper
43	100		
58	53.3	42.7	64.1
57	18.8	15.5	23.3

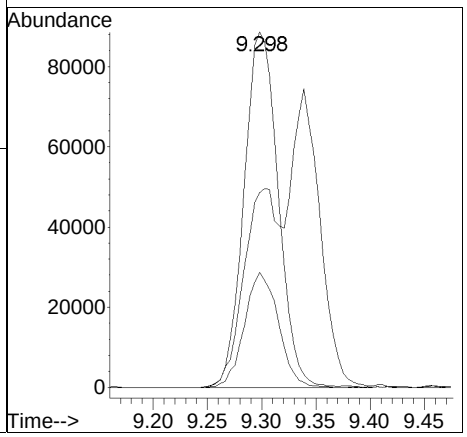


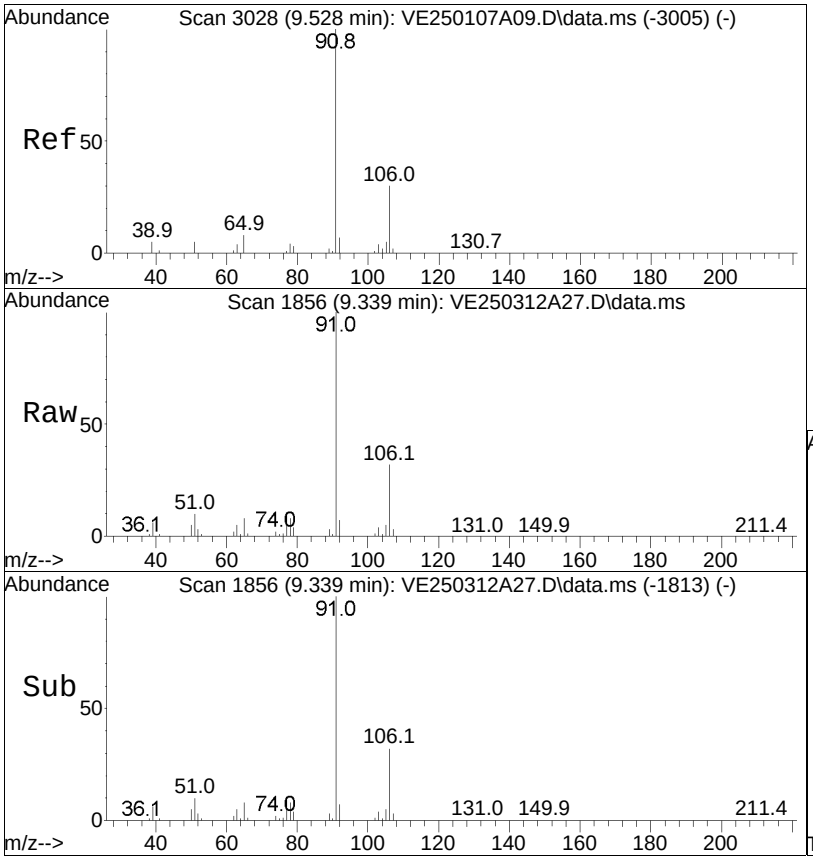


#78
Chlorobenzene
Concen: 10.26 ug/L
RT: 9.298 min Scan# 1847
Delta R.T. -0.004 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion:112 Resp: 194673

Ion	Ratio	Lower	Upper
112	100		
77	131.1	56.4	84.6#
114	32.0	25.8	38.6

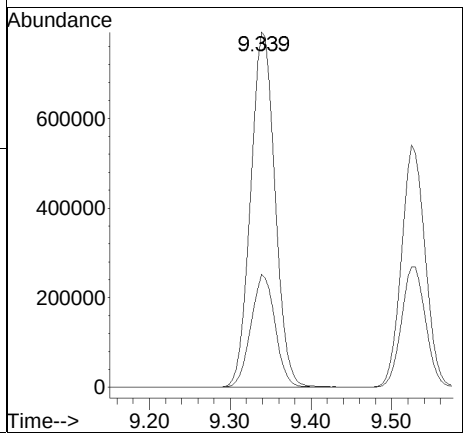


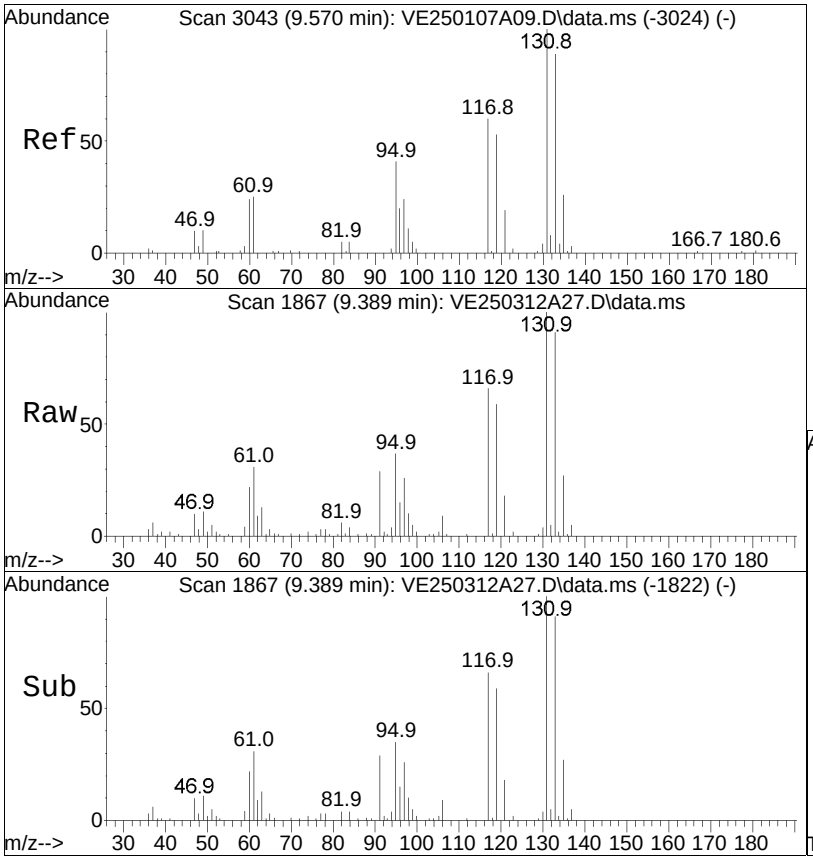


#79
Ethylbenzene
Concen: 49.87 ug/L
RT: 9.339 min Scan# 1856
Delta R.T. -0.005 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion: 91 Resp: 1665897

Ion	Ratio	Lower	Upper
91	100		
106	31.5	25.4	38.2

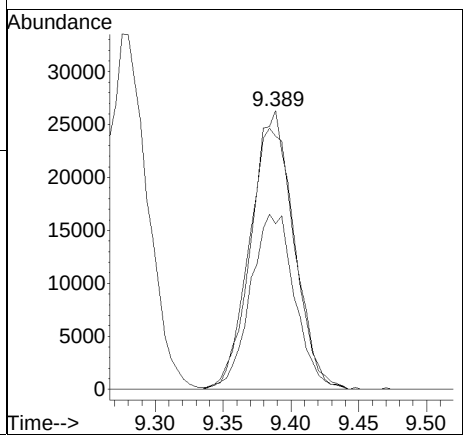


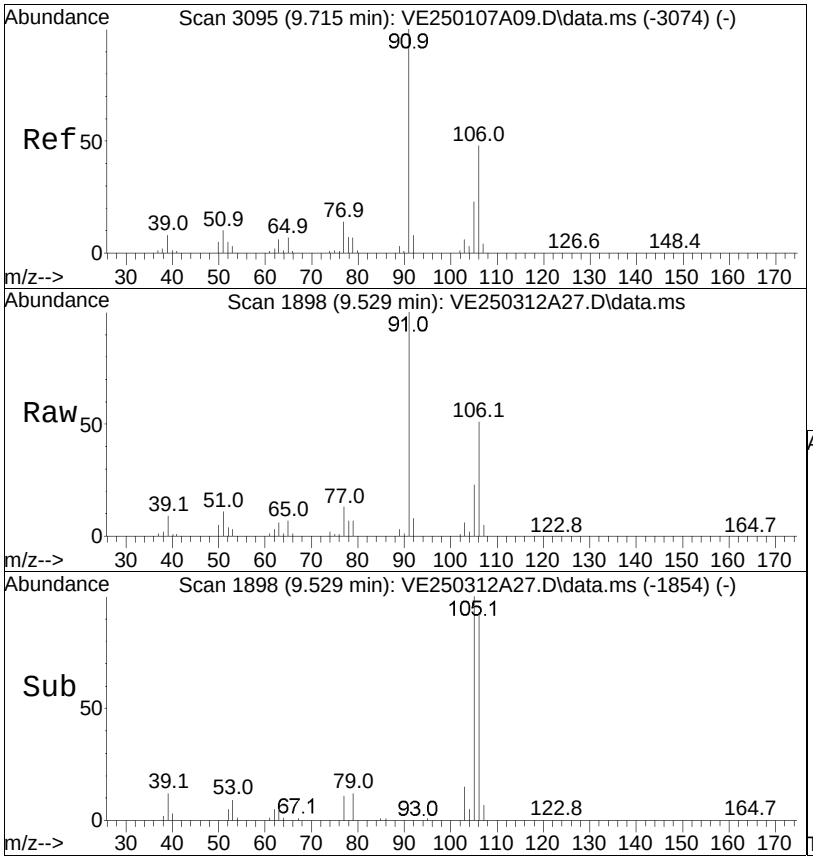


#80
1,1,1,2-Tetrachloroethane
Concen: 9.92 ug/L
RT: 9.389 min Scan# 1867
Delta R.T. 0.003 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion:131 Resp: 58706

Ion	Ratio	Lower	Upper
131	100		
133	96.8	75.3	115.3
119	64.1	45.6	85.6

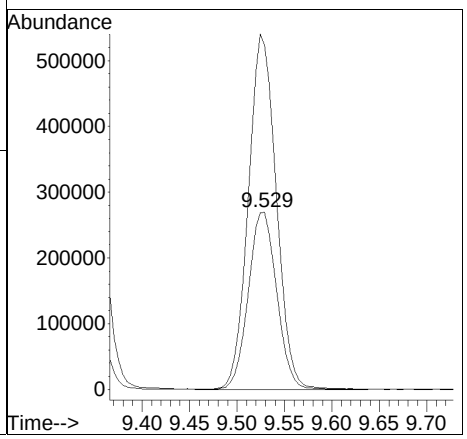


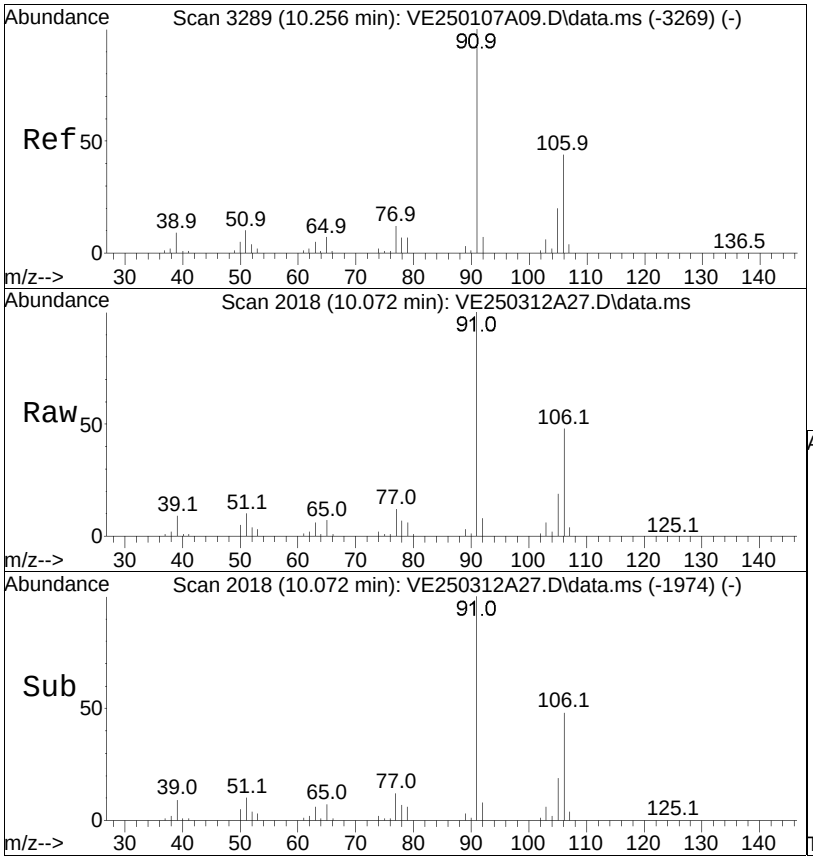


#81
p/m Xylene
Concen: 41.05 ug/L
RT: 9.529 min Scan# 1898
Delta R.T. -0.002 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion:106 Resp: 561040

Ion	Ratio	Lower	Upper
106	100		
91	196.7	158.3	237.5

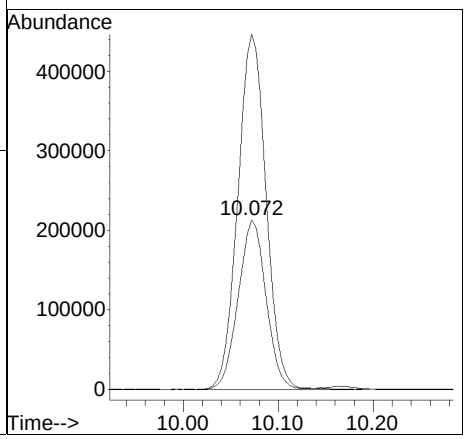


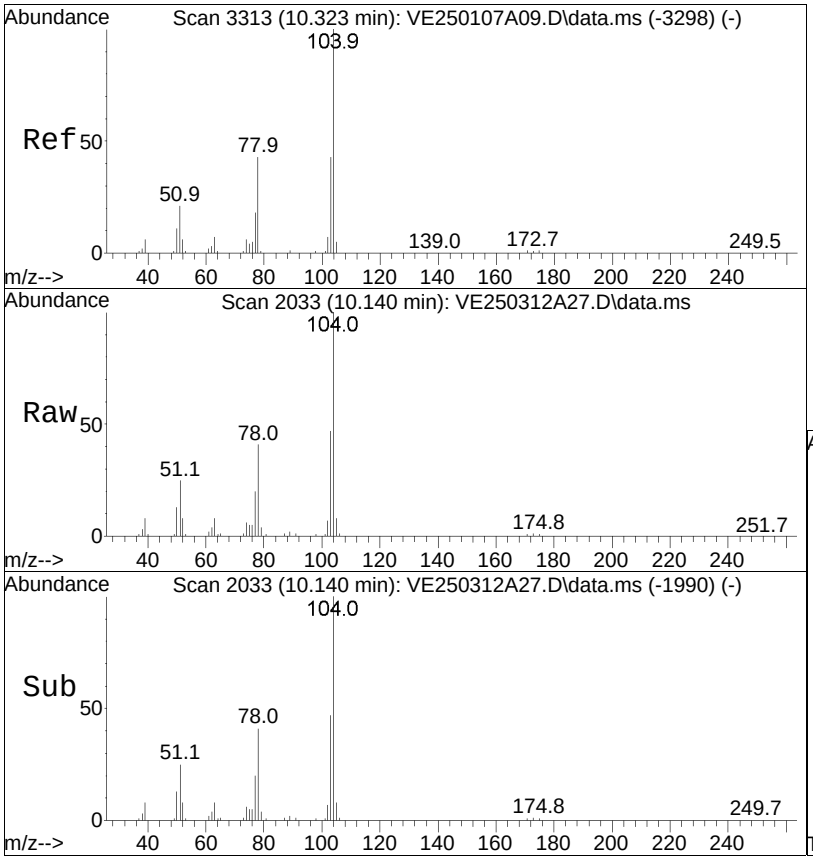


#82
o Xylene
Concen: 32.05 ug/L
RT: 10.072 min Scan# 2018
Delta R.T. -0.003 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion:106 Resp: 435965

Ion	Ratio	Lower	Upper
106	100		
91	213.8	168.7	253.1

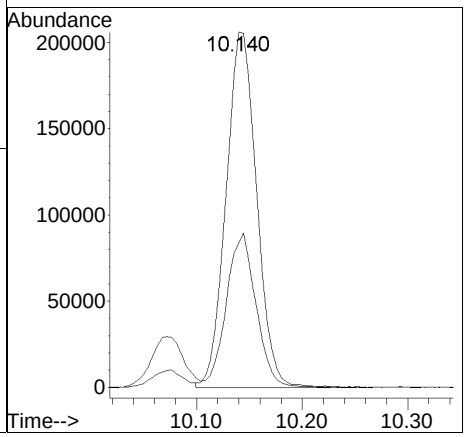


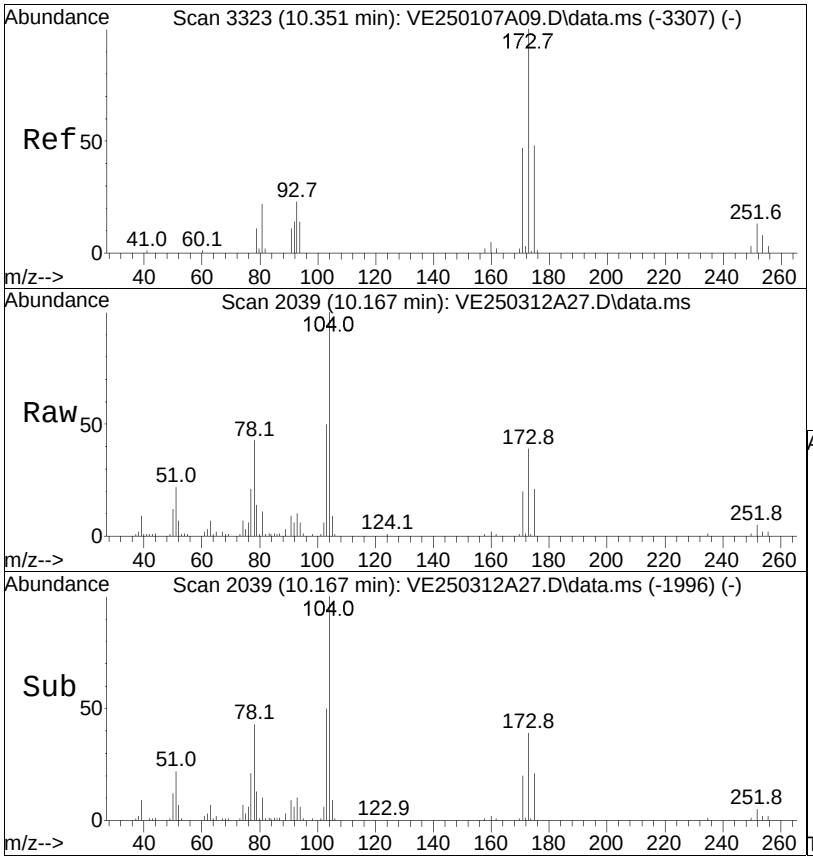


#83
Styrene
Concen: 17.93 ug/L
RT: 10.140 min Scan# 2033
Delta R.T. -0.007 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion:104 Resp: 415405

Ion	Ratio	Lower	Upper
104	100		
78	42.2	32.4	48.6

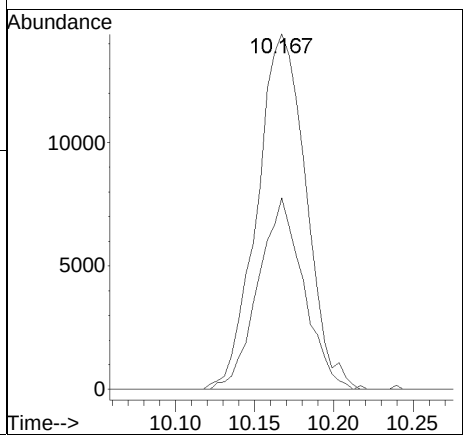


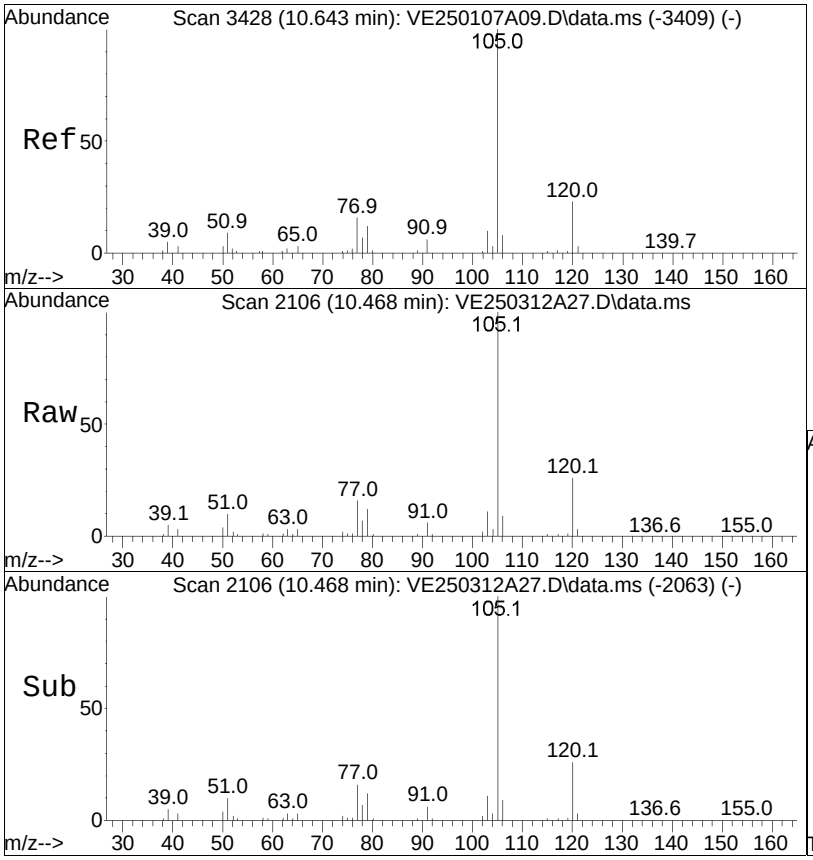


#85
Bromoform
Concen: 8.48 ug/L
RT: 10.167 min Scan# 2039
Delta R.T. -0.005 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion:173 Resp: 30981

Ion	Ratio	Lower	Upper
173	100		
175	50.0	27.0	67.0

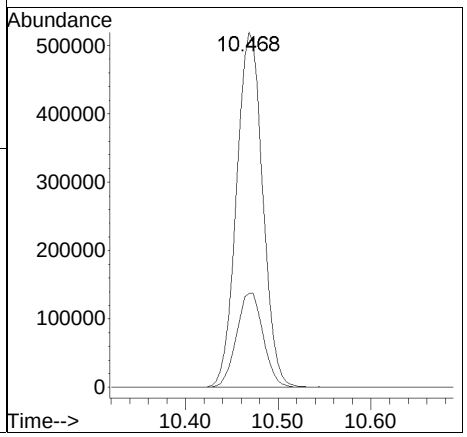


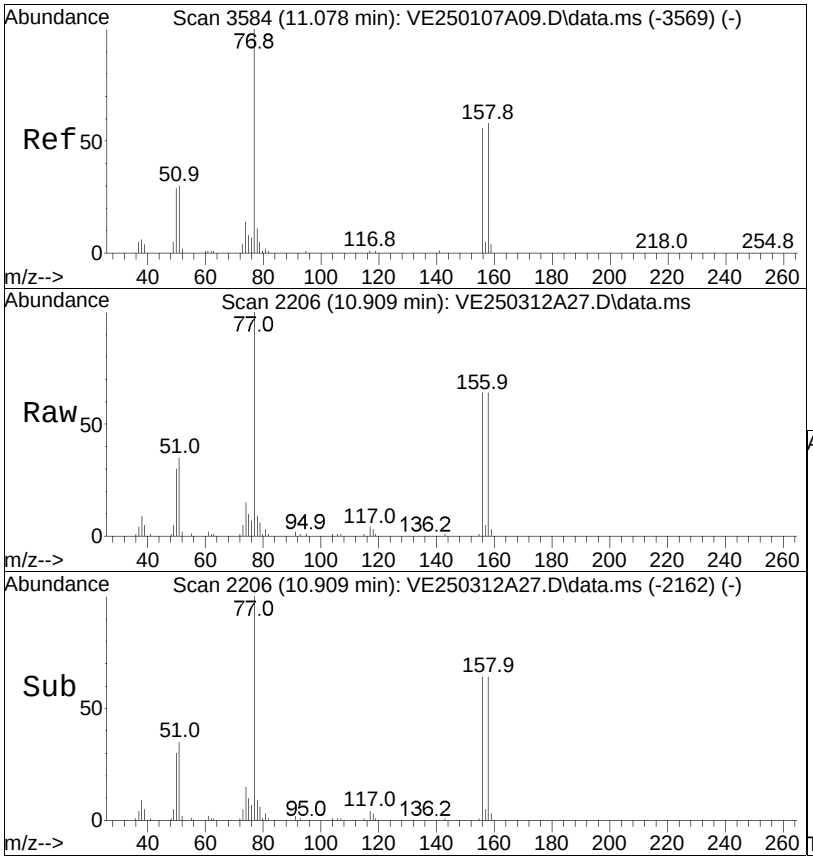


#87
Isopropylbenzene
Concen: 28.46 ug/L
RT: 10.468 min Scan# 2106
Delta R.T. -0.005 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion:105 Resp: 1019365

Ion	Ratio	Lower	Upper
105	100		
120	27.2	6.7	46.7

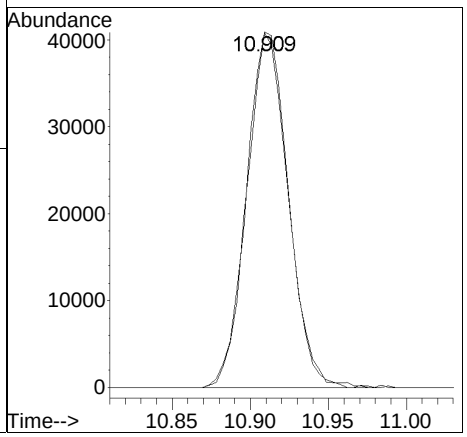


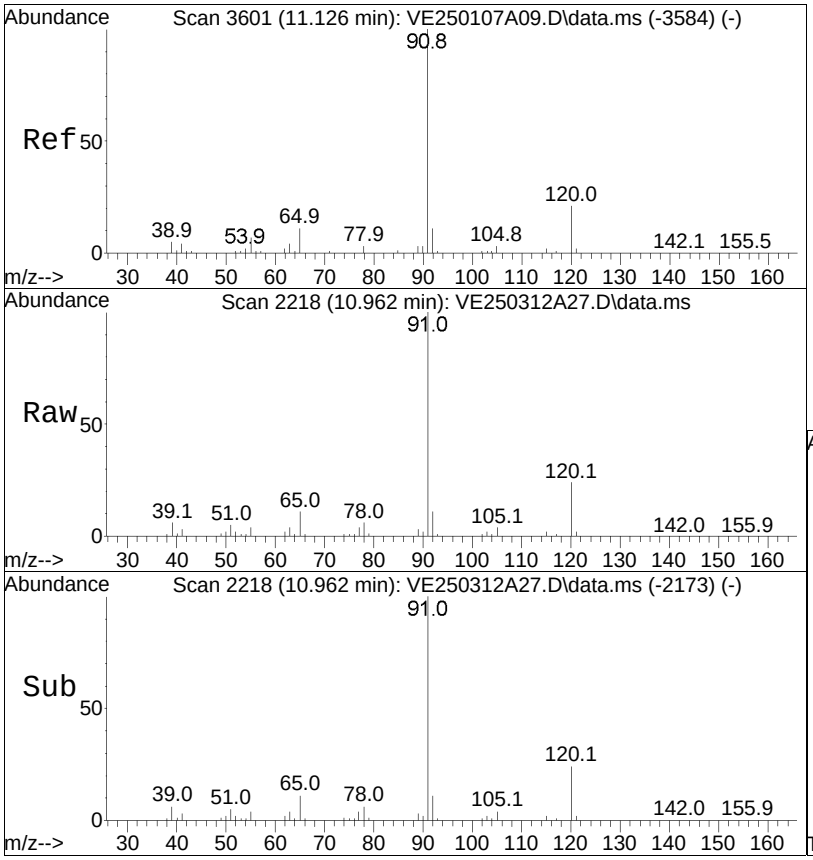


#89
Bromobenzene
Concen: 9.63 ug/L
RT: 10.909 min Scan# 2206
Delta R.T. -0.008 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion:156 Resp: 76967

Ion	Ratio	Lower	Upper
156	100		
158	96.5	77.1	115.7

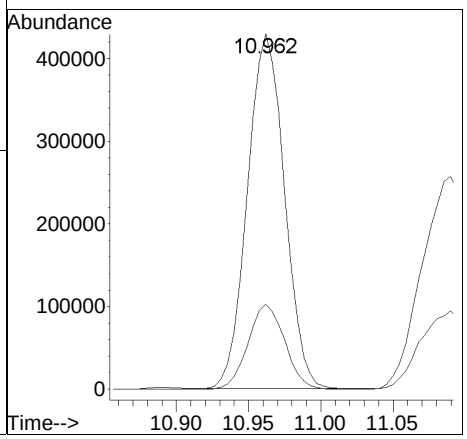


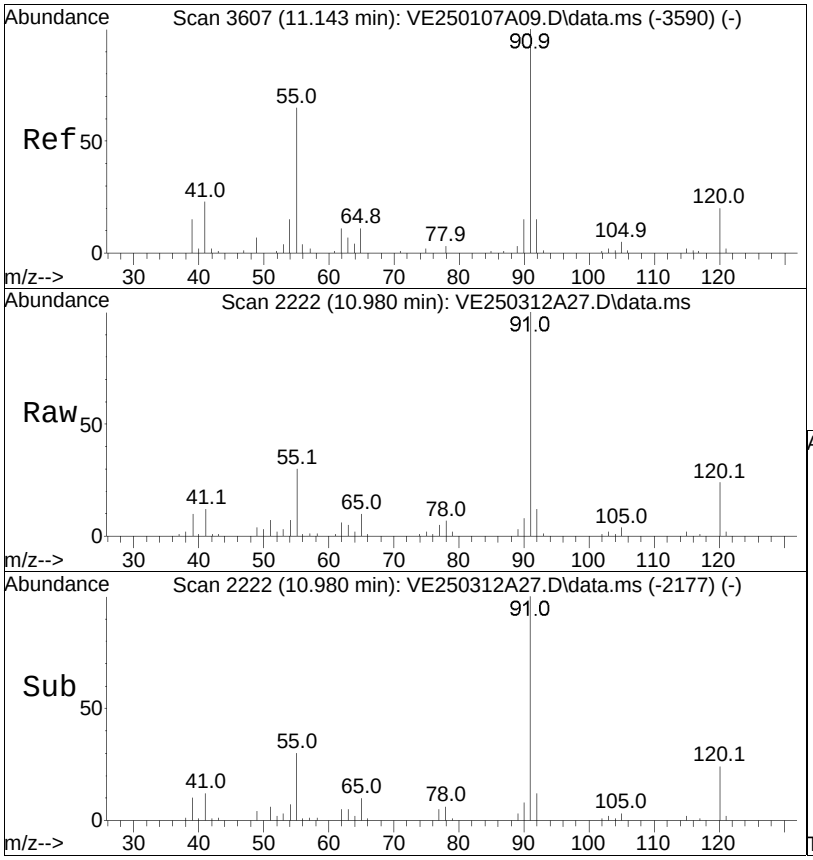


#90
n-Propylbenzene
Concen: 17.73 ug/L
RT: 10.962 min Scan# 2218
Delta R.T. -0.002 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion: 91 Resp: 765504

Ion	Ratio	Lower	Upper
91	100		
120	23.7	18.5	27.7

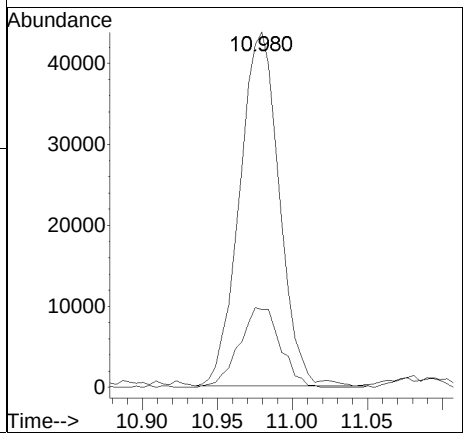


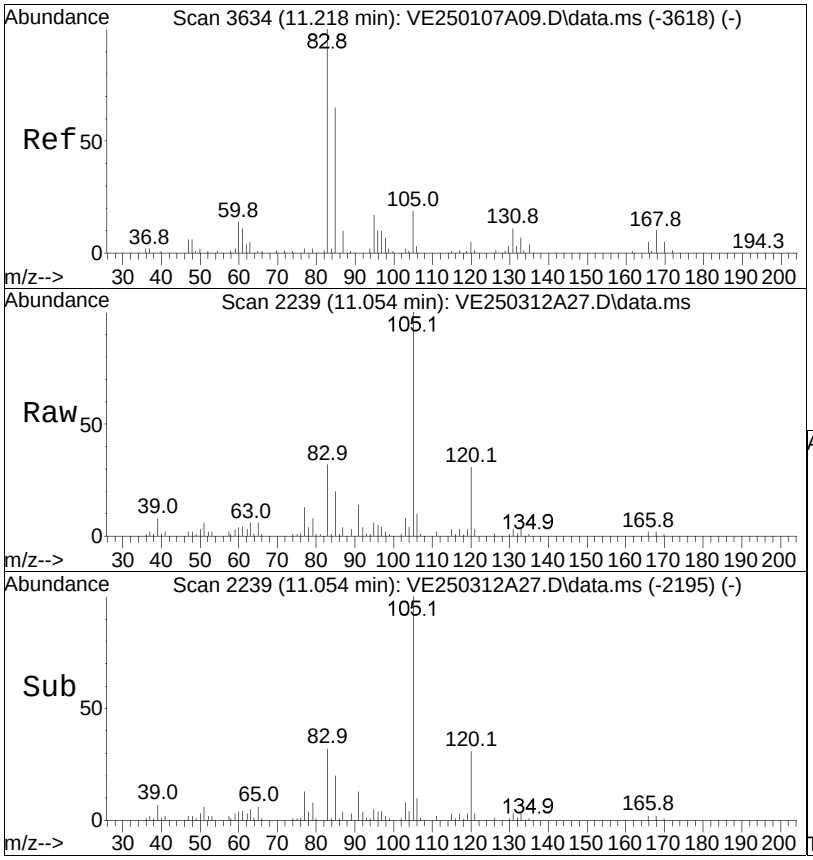


#91
1,4-Dichlorobutane
Concen: 10.20 ug/L
RT: 10.980 min Scan# 2222
Delta R.T. -0.001 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion: 55 Resp: 80456

Ion	Ratio	Lower	Upper
55	100		
54	23.4	17.5	26.3

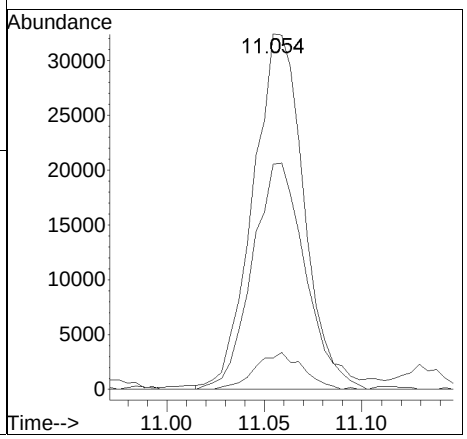


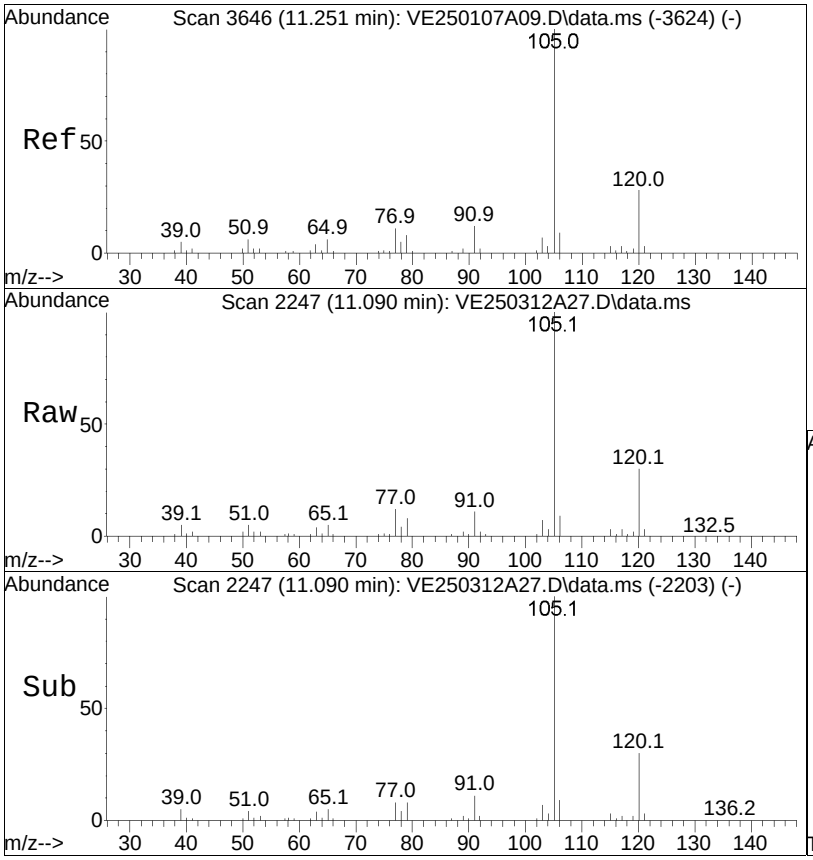


#92
1,1,2,2-Tetrachloroethane
Concen: 9.68 ug/L
RT: 11.054 min Scan# 2239
Delta R.T. -0.007 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion: 83 Resp: 58876

Ion	Ratio	Lower	Upper
83	100		
131	9.9	0.0	30.1
85	73.4	46.3	86.3

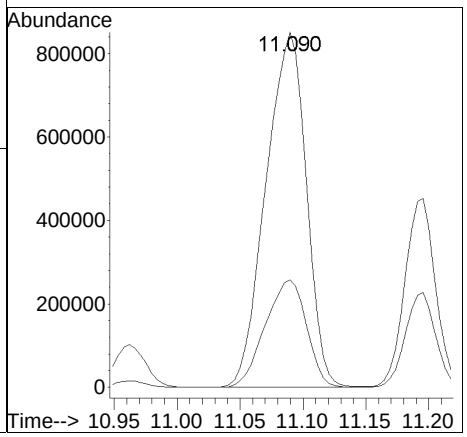


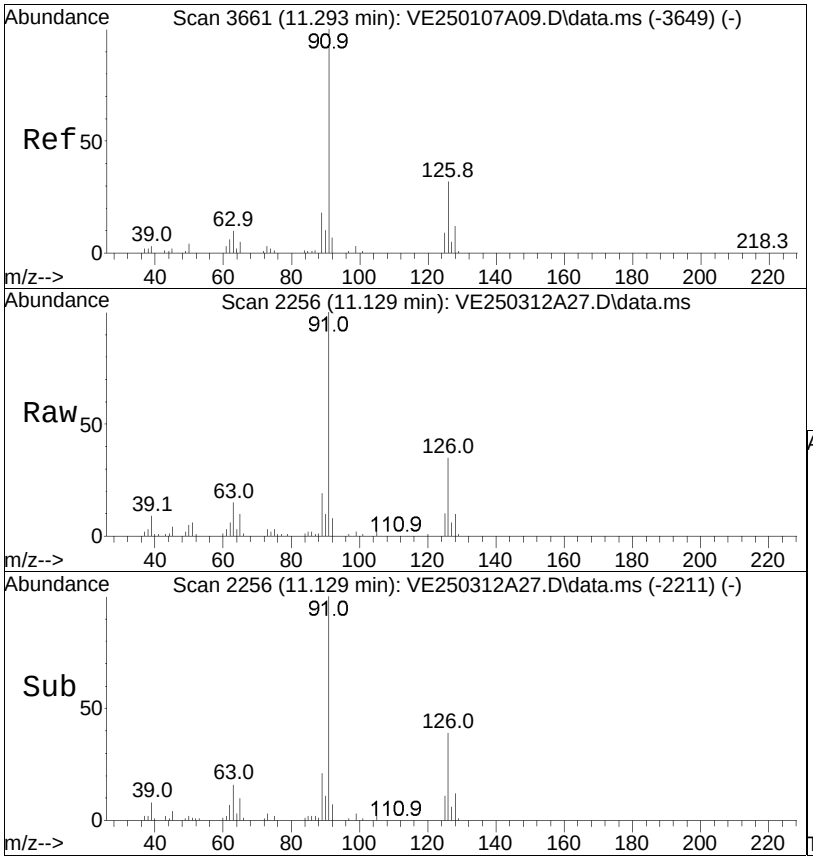


#93
4-Ethyltoluene
Concen: 53.18 ug/L
RT: 11.090 min Scan# 2247
Delta R.T. -0.006 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion:105 Resp: 1897966

Ion	Ratio	Lower	Upper
105	100		
120	30.9	19.2	40.0

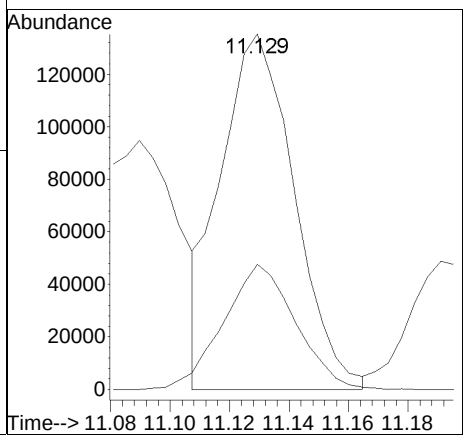


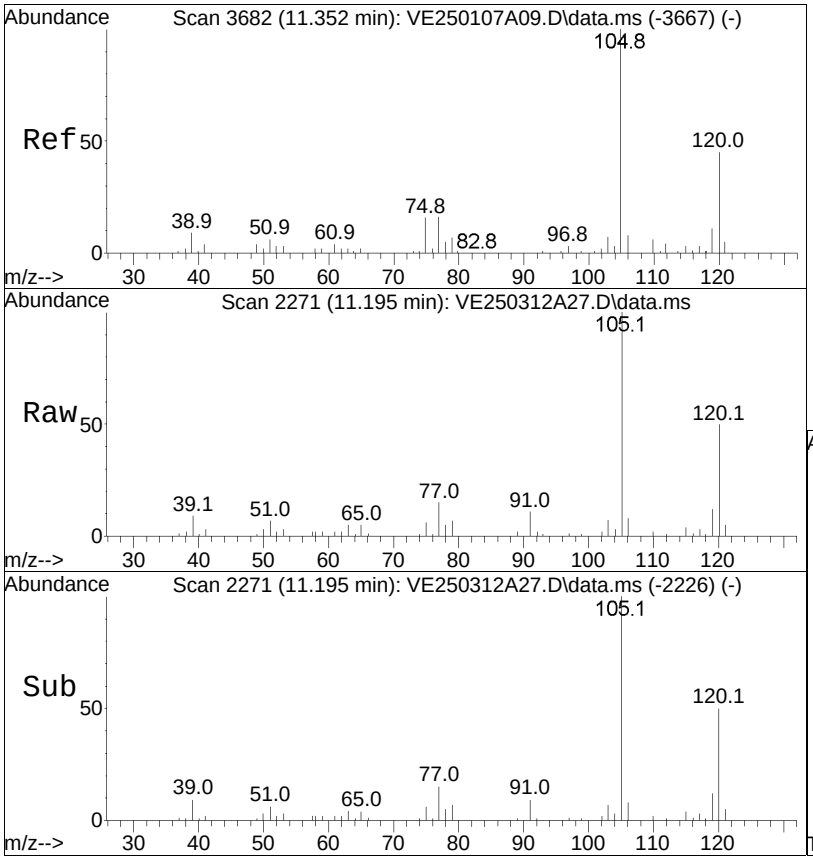


#94
2-Chlorotoluene
Concen: 9.54 ug/L M6
RT: 11.129 min Scan# 2256
Delta R.T. -0.002 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion: 91 Resp: 233685

Ion	Ratio	Lower	Upper
91	100		
126	34.3	28.0	42.0

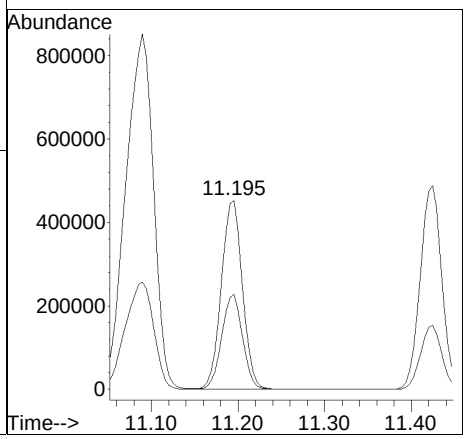


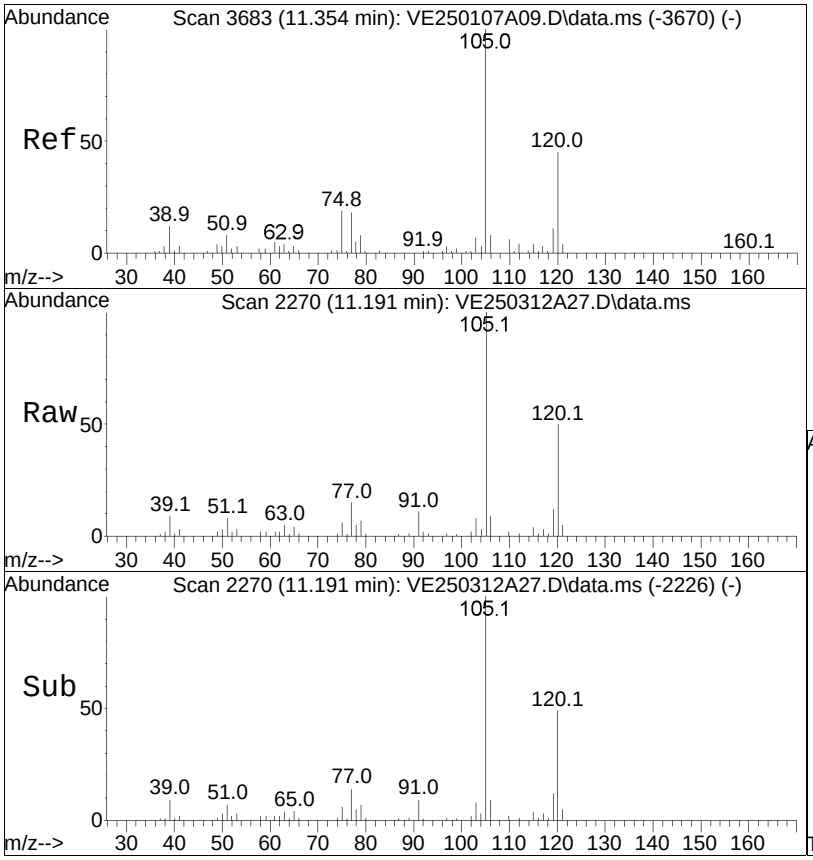


#95
1,3,5-Trimethylbenzene
Concen: 24.10 ug/L
RT: 11.195 min Scan# 2271
Delta R.T. -0.000 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion:105 Resp: 766458

Ion	Ratio	Lower	Upper
105	100		
120	49.6	40.2	60.2

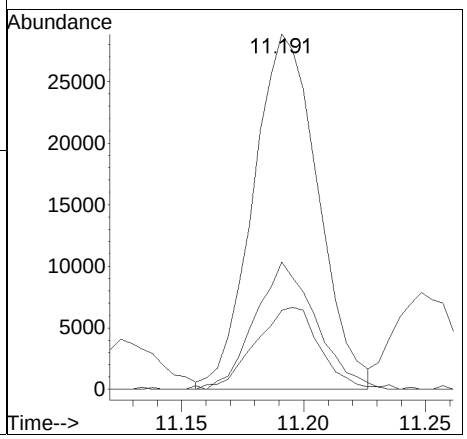


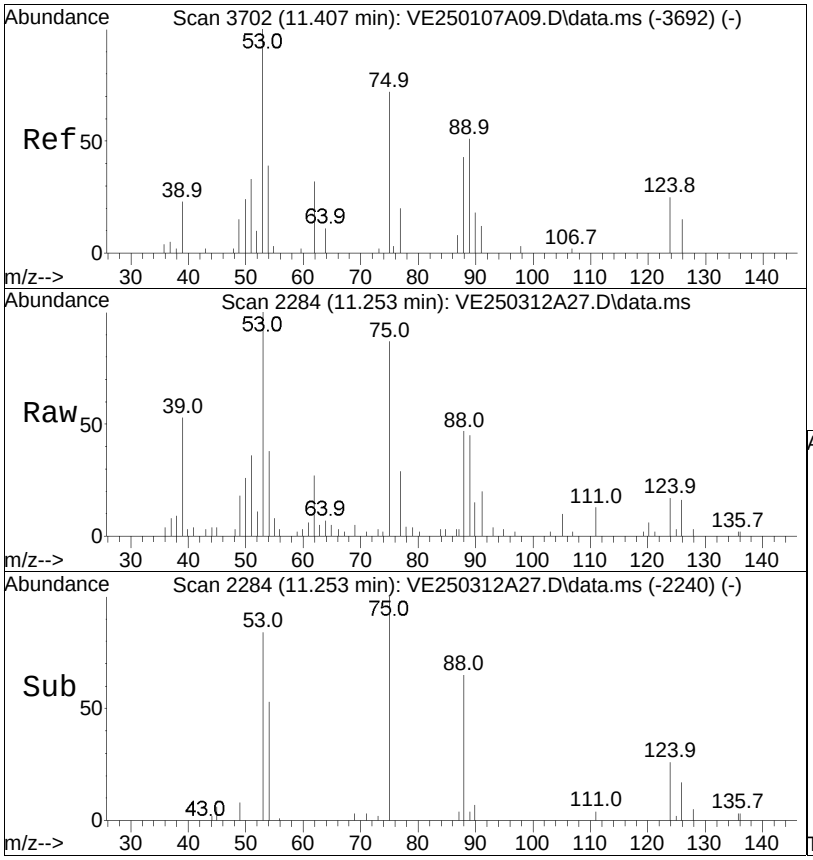


#96
1,2,3-Trichloropropane
Concen: 10.38 ug/L
RT: 11.191 min Scan# 2270
Delta R.T. -0.005 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion: 75 Resp: 53429

Ion	Ratio	Lower	Upper
75	100		
110	33.8	24.4	50.6
112	22.9	15.1	31.5

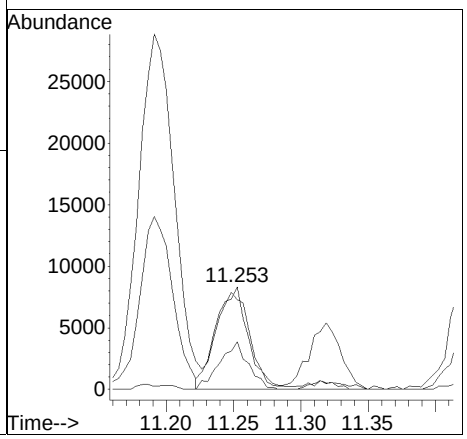


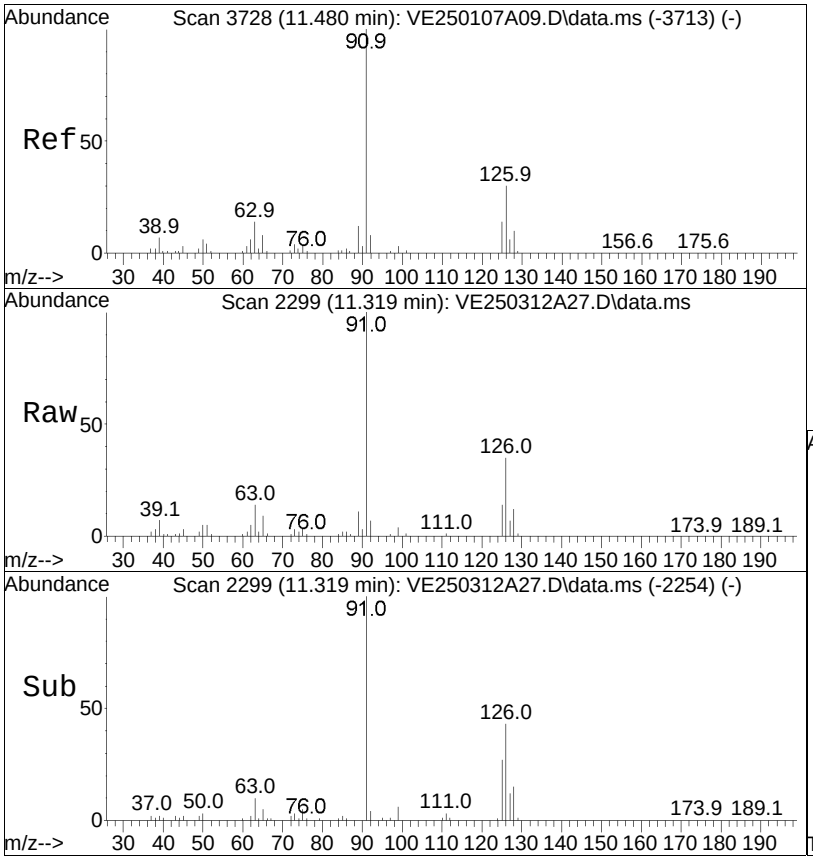


#97
trans-1,4-Dichloro-2-butene
Concen: 8.73 ug/L
RT: 11.253 min Scan# 2284
Delta R.T. -0.004 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion: 53 Resp: 15279

Ion	Ratio	Lower	Upper
53	100		
88	37.7	39.7	59.5#
75	84.6	95.8	143.6#

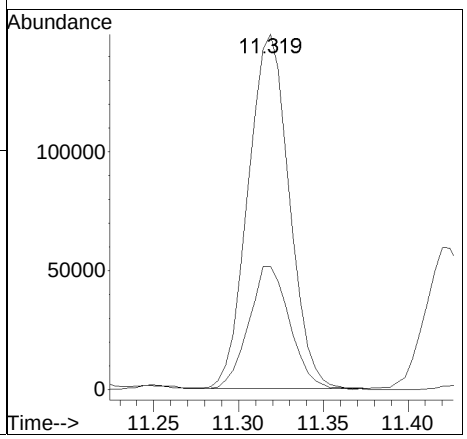


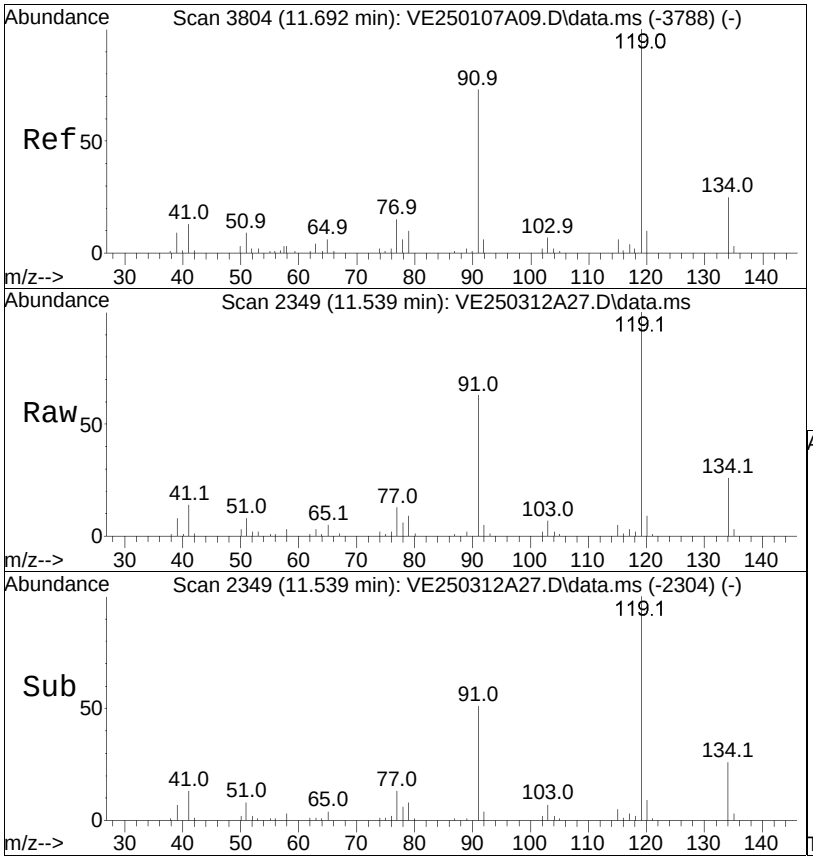


#98
4-Chlorotoluene
Concen: 9.87 ug/L
RT: 11.319 min Scan# 2299
Delta R.T. 0.000 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion: 91 Resp: 251020

Ion	Ratio	Lower	Upper
91	100		
126	35.1	28.2	42.2

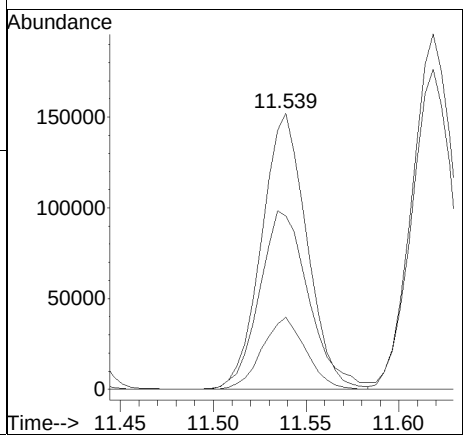


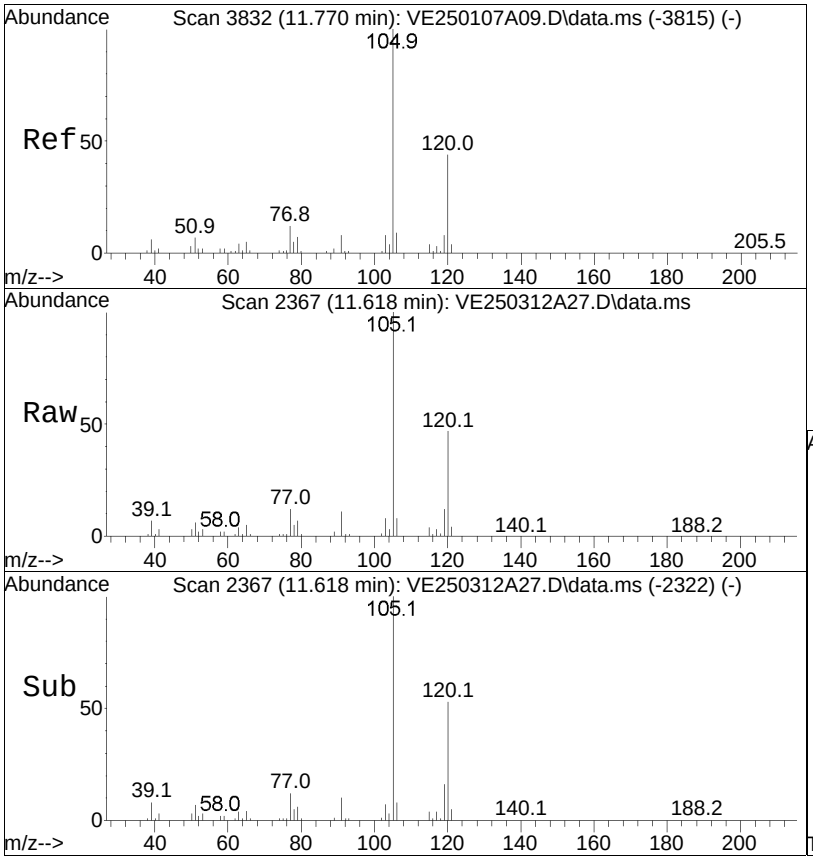


#99
tert-Butylbenzene
Concen: 9.74 ug/L
RT: 11.539 min Scan# 2349
Delta R.T. -0.002 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion:119 Resp: 258118

Ion	Ratio	Lower	Upper
119	100		
91	70.4	51.7	77.5
134	25.2	20.9	31.3

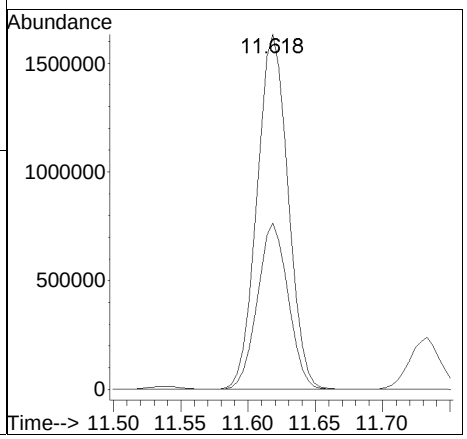


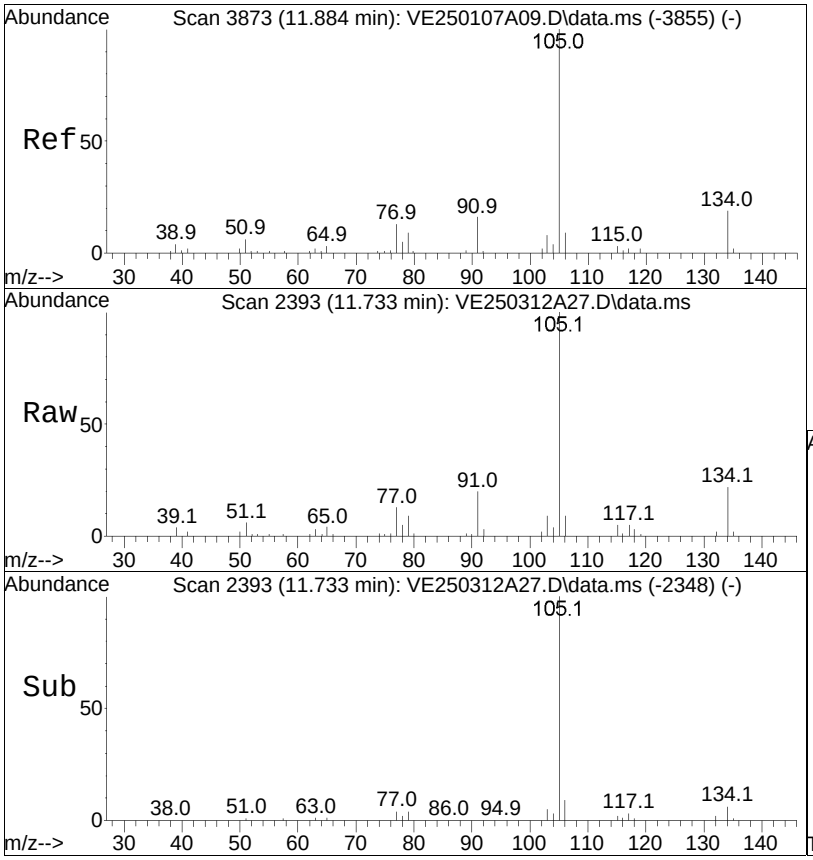


#102
1,2,4-Trimethylbenzene
Concen: 84.22 ug/L
RT: 11.618 min Scan# 2367
Delta R.T. -0.001 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion:105 Resp: 2622798

Ion	Ratio	Lower	Upper
105	100		
120	46.5	38.4	57.6

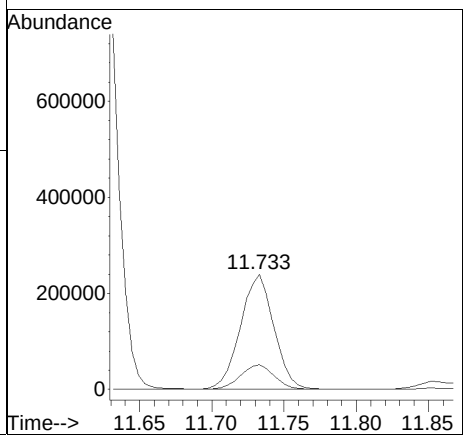


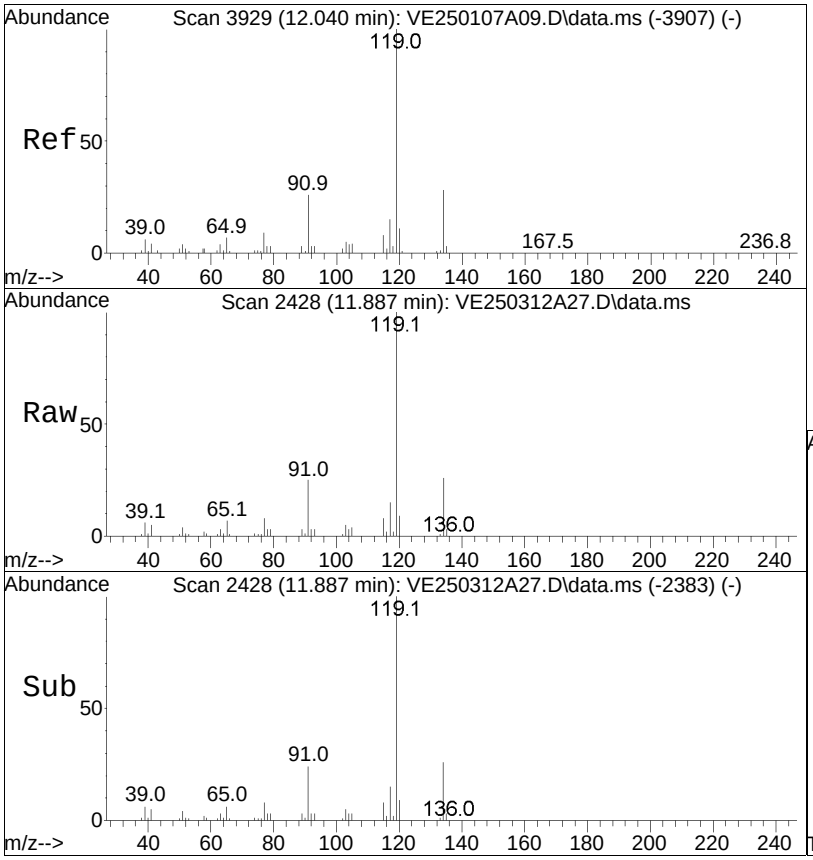


#103
sec-Butylbenzene
Concen: 9.59 ug/L
RT: 11.733 min Scan# 2393
Delta R.T. -0.001 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion:105 Resp: 385363

Ion	Ratio	Lower	Upper
105	100		
134	21.8	13.0	27.0

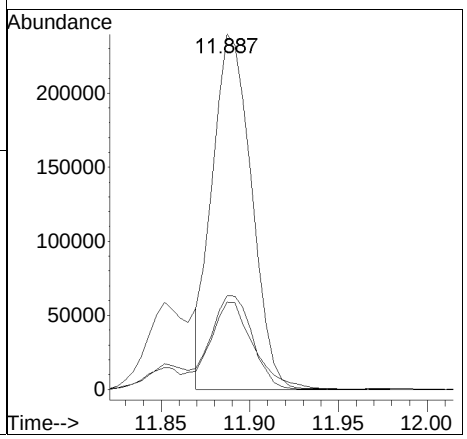


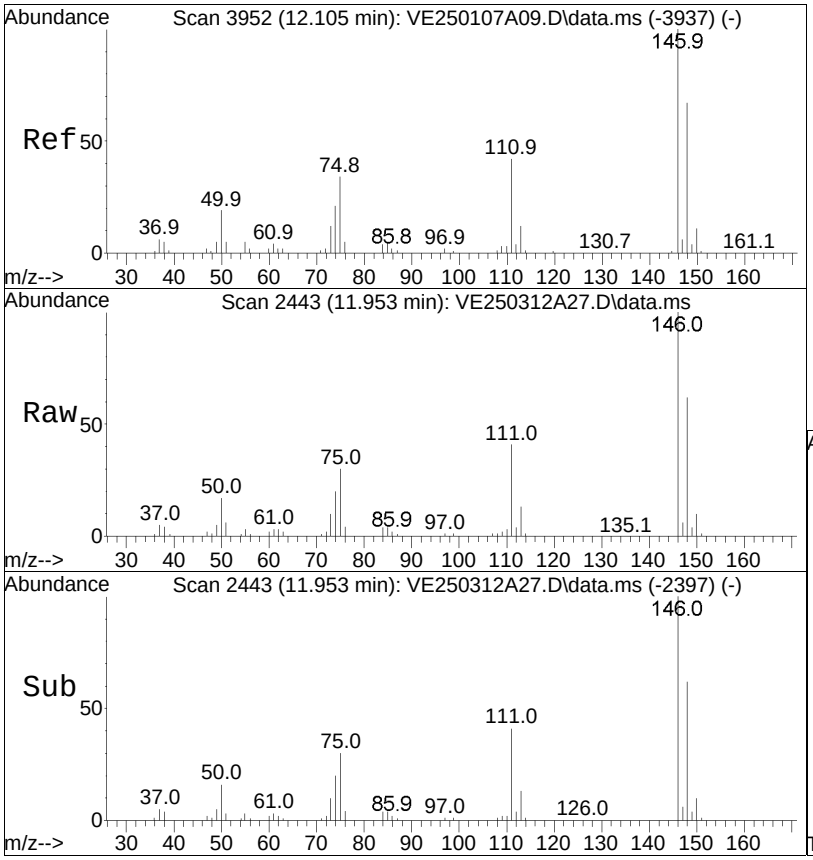


#104
p-Isopropyltoluene
Concen: 10.45 ug/L
RT: 11.887 min Scan# 2428
Delta R.T. -0.003 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion:119 Resp: 368287

Ion	Ratio	Lower	Upper
119	100		
134	27.2	17.2	35.6
91	27.8	15.0	31.2

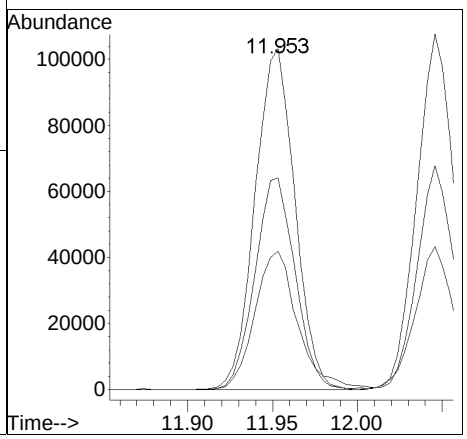


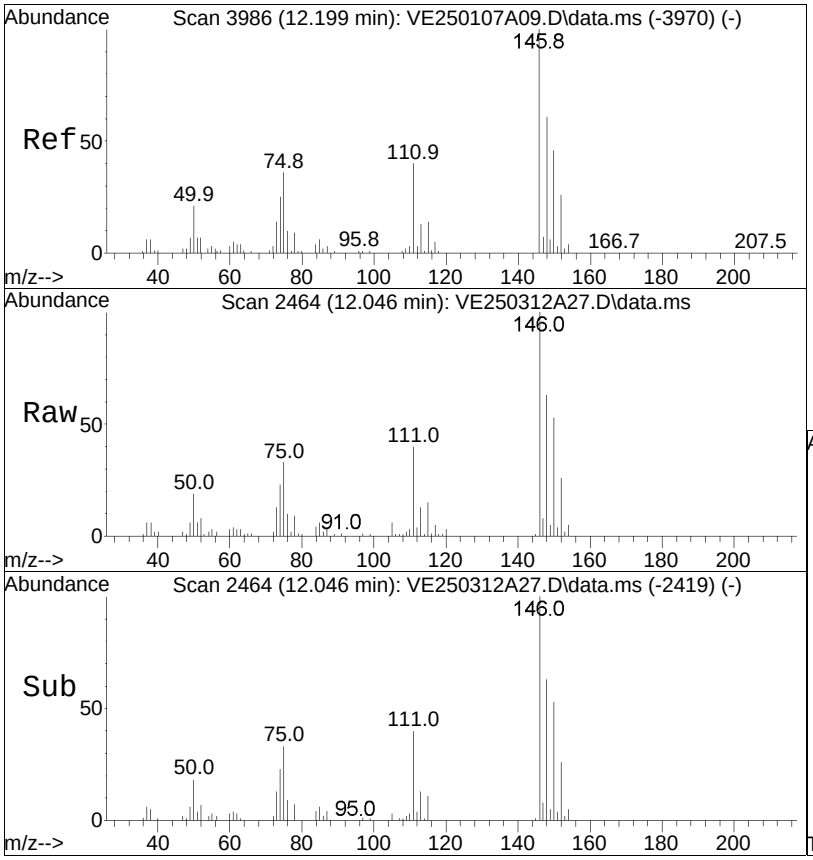


#105
1,3-Dichlorobenzene
Concen: 9.70 ug/L
RT: 11.953 min Scan# 2443
Delta R.T. 0.002 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion:146 Resp: 168702

Ion	Ratio	Lower	Upper
146	100		
111	43.6	26.0	54.0
148	62.4	42.1	87.3

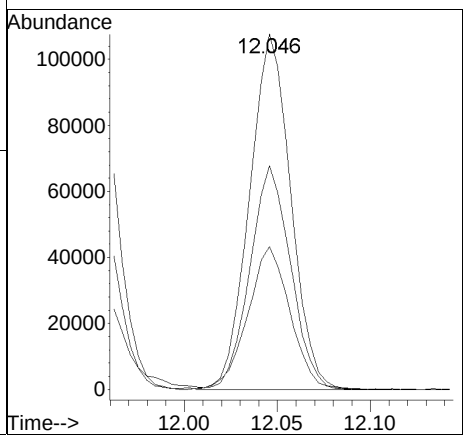


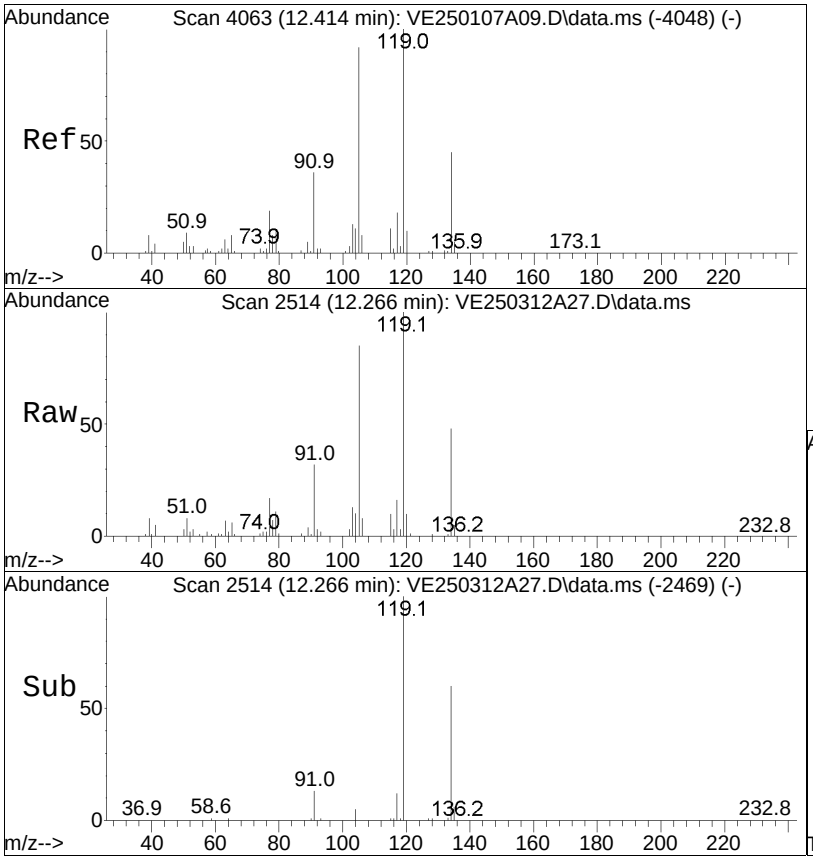


#106
1,4-Dichlorobenzene
Concen: 9.61 ug/L
RT: 12.046 min Scan# 2464
Delta R.T. -0.003 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion:146 Resp: 166201

Ion	Ratio	Lower	Upper
146	100		
111	41.0	31.5	47.3
148	62.2	51.1	76.7

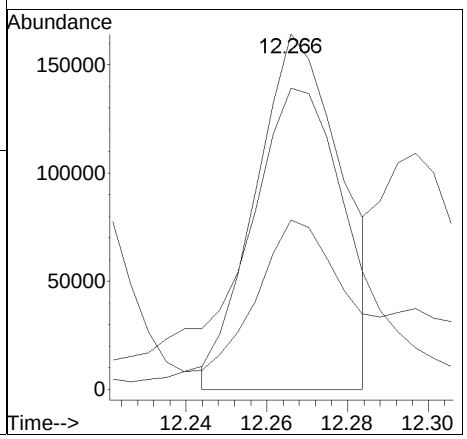


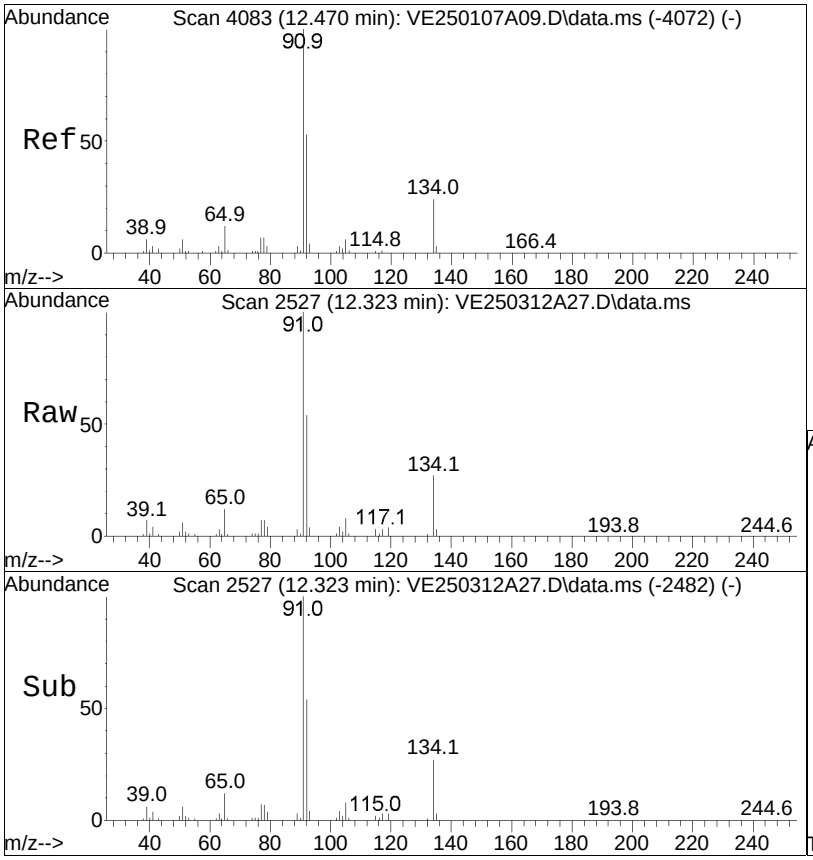


#107
p-Diethylbenzene
Concen: 11.63 ug/L M6
RT: 12.266 min Scan# 2514
Delta R.T. -0.003 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion:119 Resp: 242992

Ion	Ratio	Lower	Upper
119	100		
105	112.3	53.9	112.1#
134	104.1	29.2	60.6#

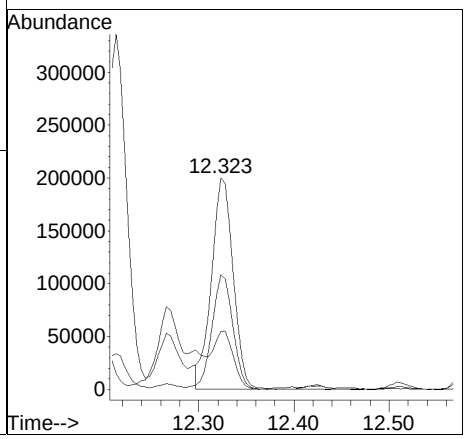


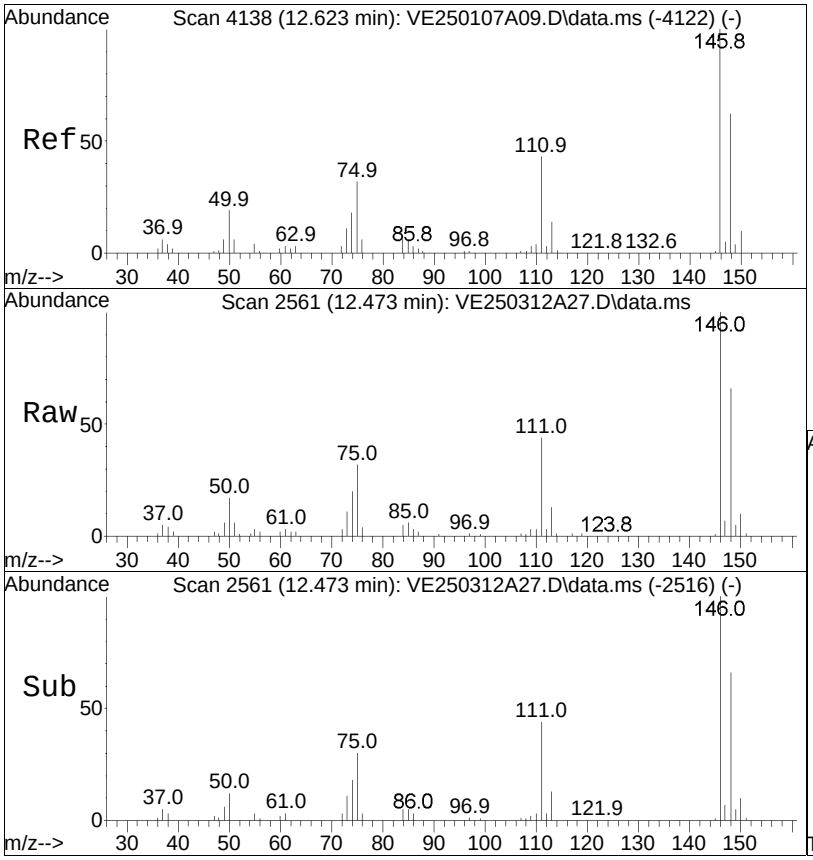


#108
n-Butylbenzene
Concen: 10.74 ug/L
RT: 12.323 min Scan# 2527
Delta R.T. -0.005 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion: 91 Resp: 324686

Ion	Ratio	Lower	Upper
91	100		
92	51.6	43.4	65.2
134	0.0	21.0	31.4#

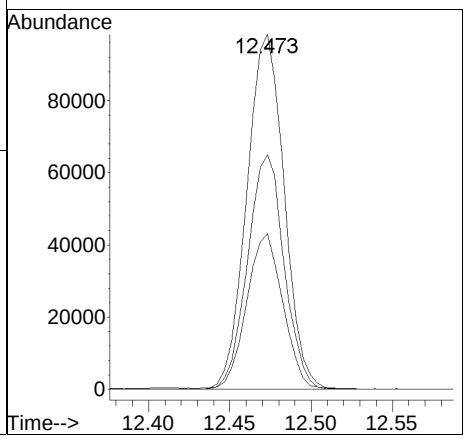


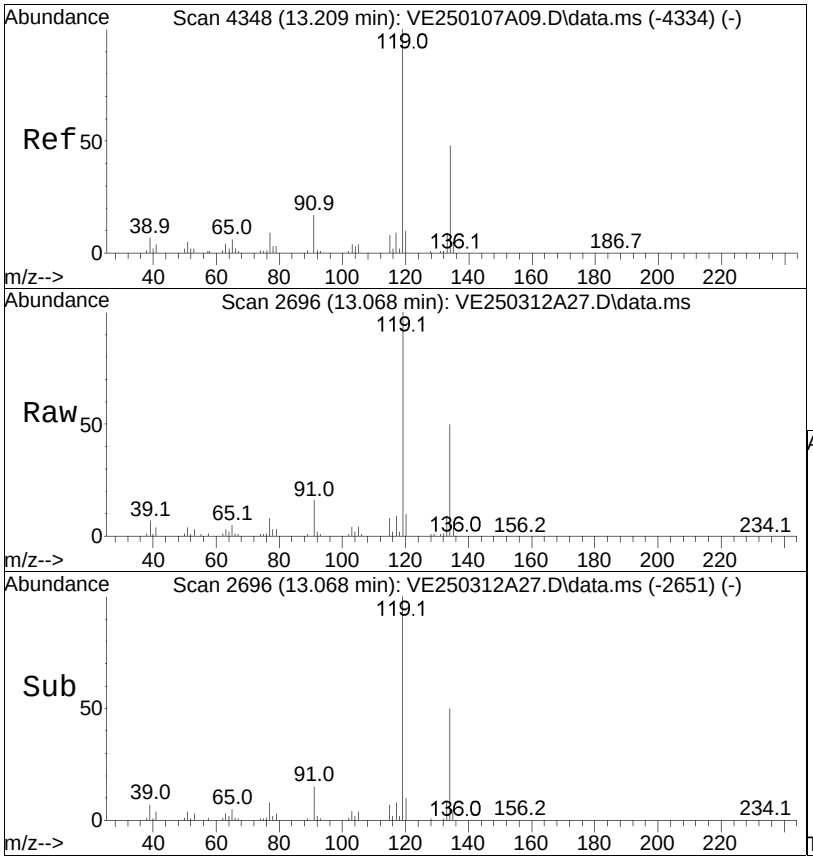


#109
1,2-Dichlorobenzene
Concen: 9.64 ug/L
RT: 12.473 min Scan# 2561
Delta R.T. 0.000 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion:146 Resp: 157520

Ion	Ratio	Lower	Upper
146	100		
111	42.6	26.8	55.6
148	64.8	40.9	84.9

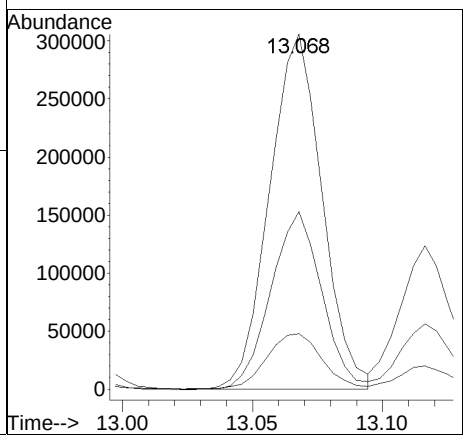


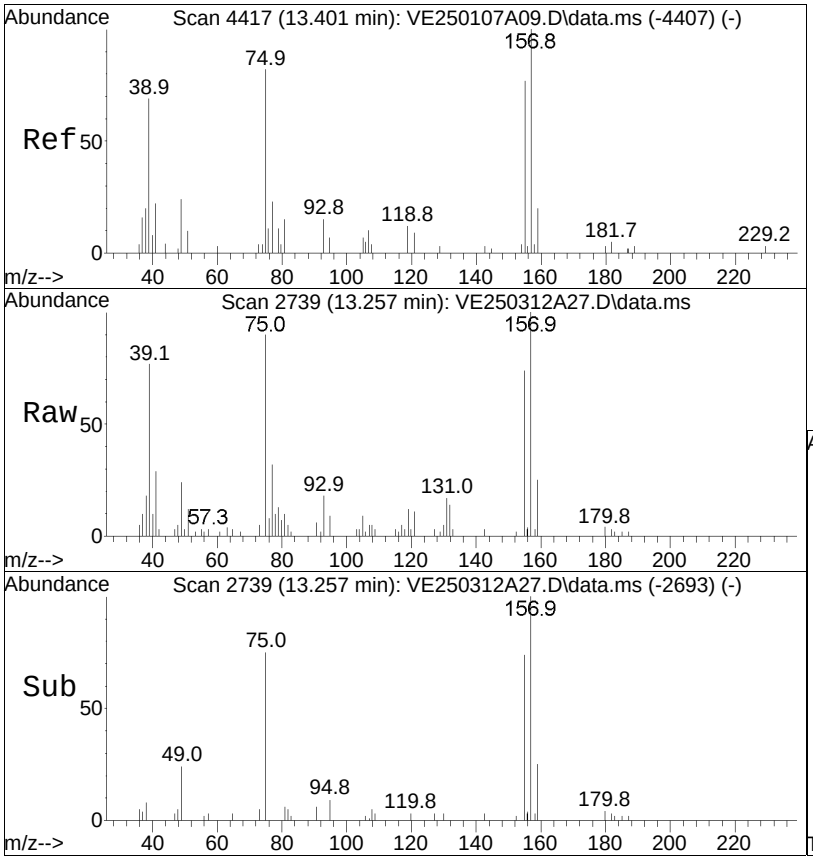


#110
1,2,4,5-Tetramethylbenzene
Concen: 13.03 ug/L
RT: 13.068 min Scan# 2696
Delta R.T. -0.002 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion:119 Resp: 429401

Ion	Ratio	Lower	Upper
119	100		
134	48.6	30.7	63.9
91	16.3	10.2	21.2

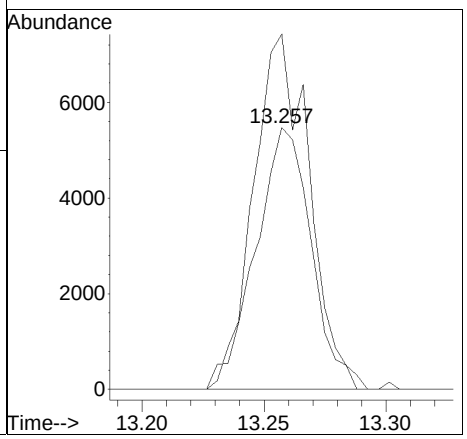


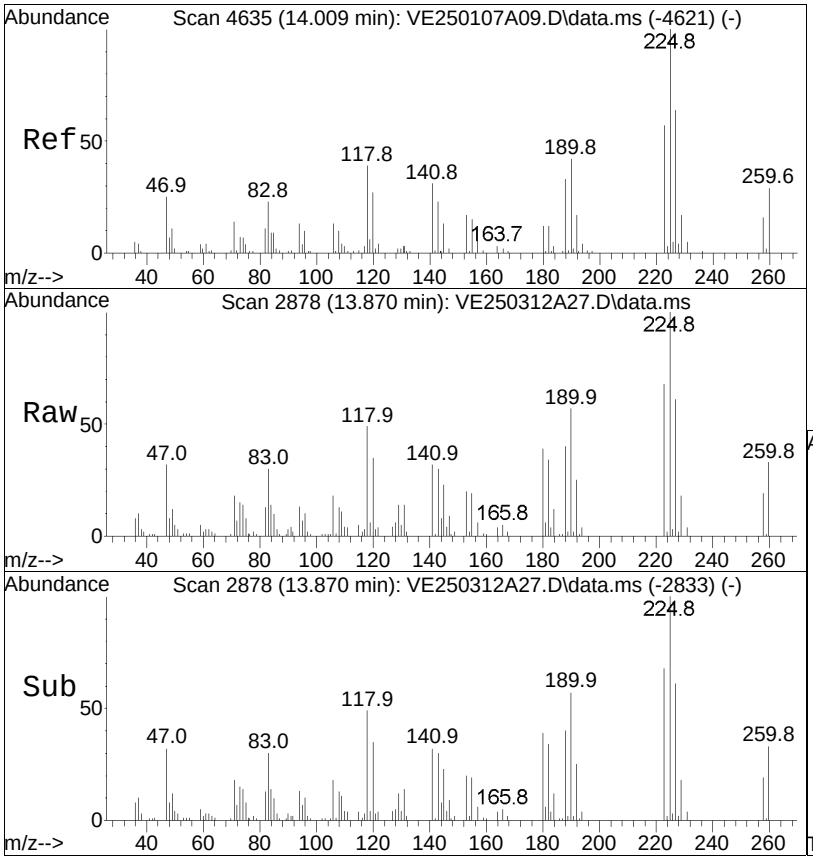


#111
1,2-Dibromo-3-chloropropane
Concen: 9.18 ug/L
RT: 13.257 min Scan# 2739
Delta R.T. 0.001 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion:155 Resp: 8640

Ion	Ratio	Lower	Upper
155	100		
157	136.3	95.8	143.8

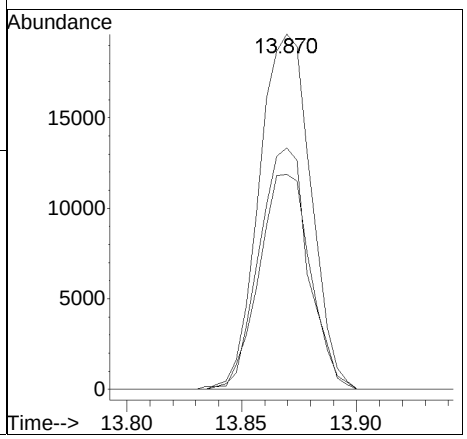


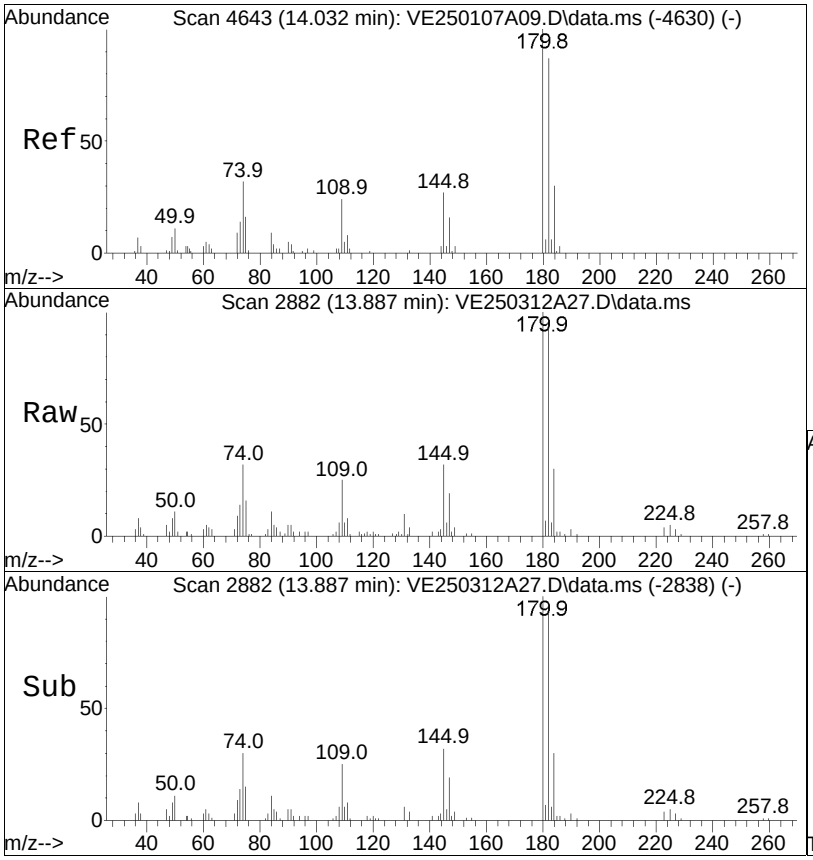


#113
Hexachlorobutadiene
Concen: 9.76 ug/L
RT: 13.870 min Scan# 2878
Delta R.T. -0.000 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion:225 Resp: 30756

Ion	Ratio	Lower	Upper
225	100		
223	64.4	50.1	75.1
227	60.3	51.0	76.6

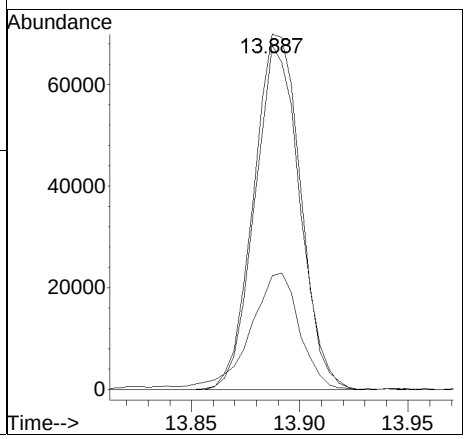


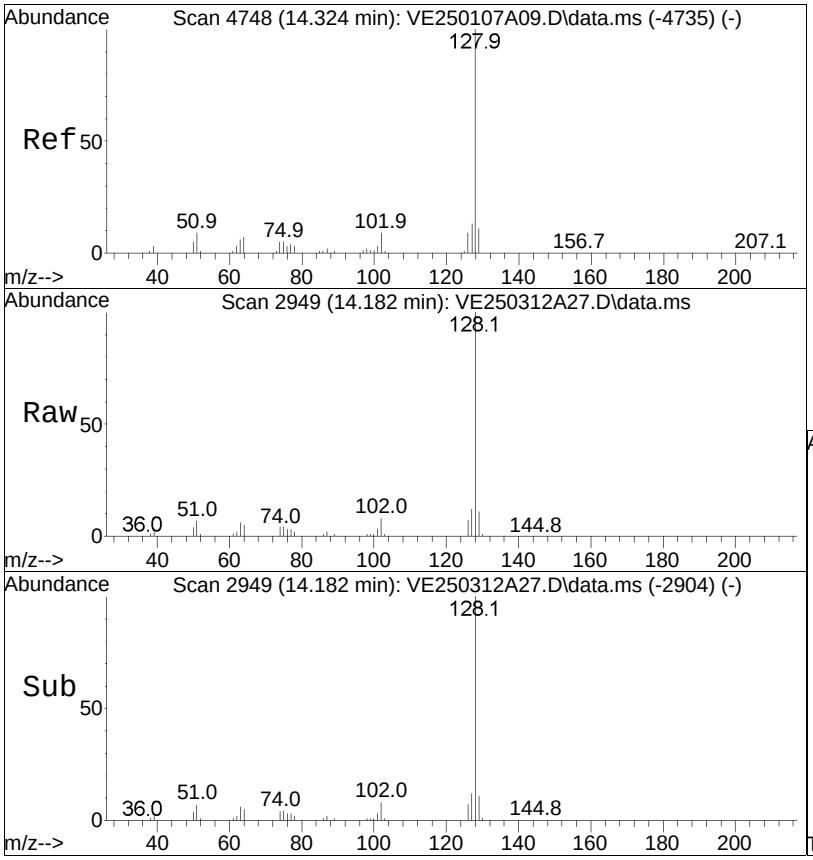


#114
1,2,4-Trichlorobenzene
Concen: 10.23 ug/L
RT: 13.887 min Scan# 2882
Delta R.T. -0.008 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion:180 Resp: 105359

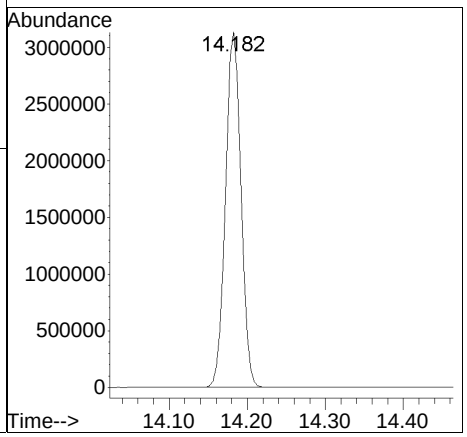
Ion	Ratio	Lower	Upper
180	100		
182	92.4	76.2	114.2
145	34.3	27.8	41.6

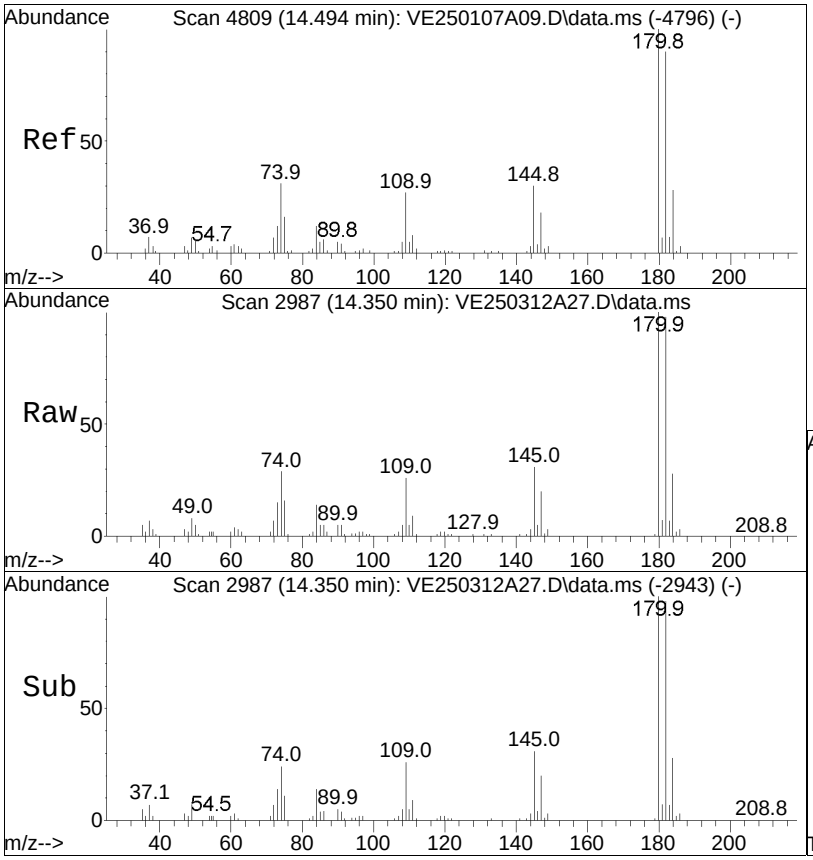




#115
Naphthalene
Concen: 176.45 ug/L
RT: 14.182 min Scan# 2949
Delta R.T. -0.003 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion:128 Resp: 4324013

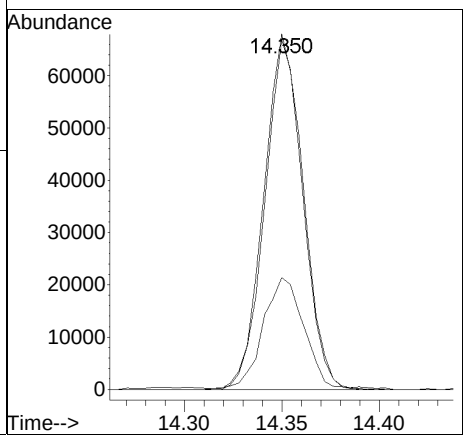




#116
1,2,3-Trichlorobenzene
Concen: 10.12 ug/L
RT: 14.350 min Scan# 2987
Delta R.T. -0.005 min
Lab File: VE250312A27.D
Acq: 12 Mar 2025 8:01 pm

Tgt Ion:180 Resp: 95530

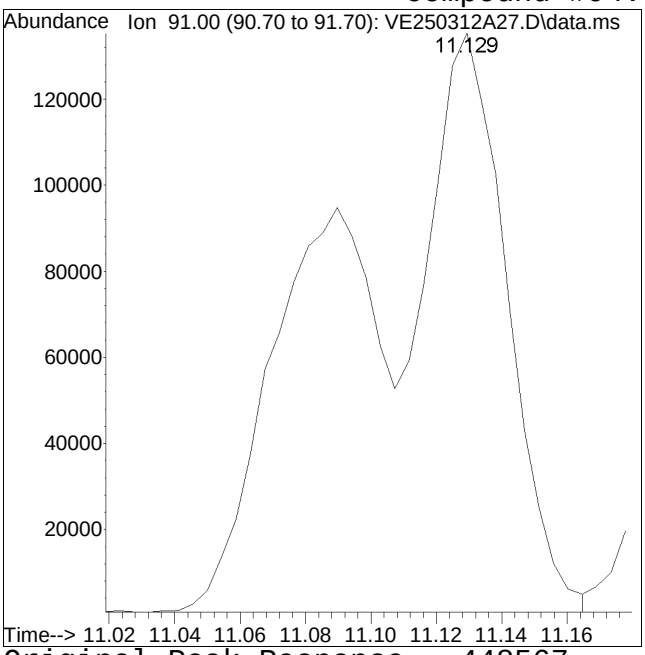
Ion	Ratio	Lower	Upper
180	100		
182	94.5	77.0	115.4
145	32.9	25.9	38.9



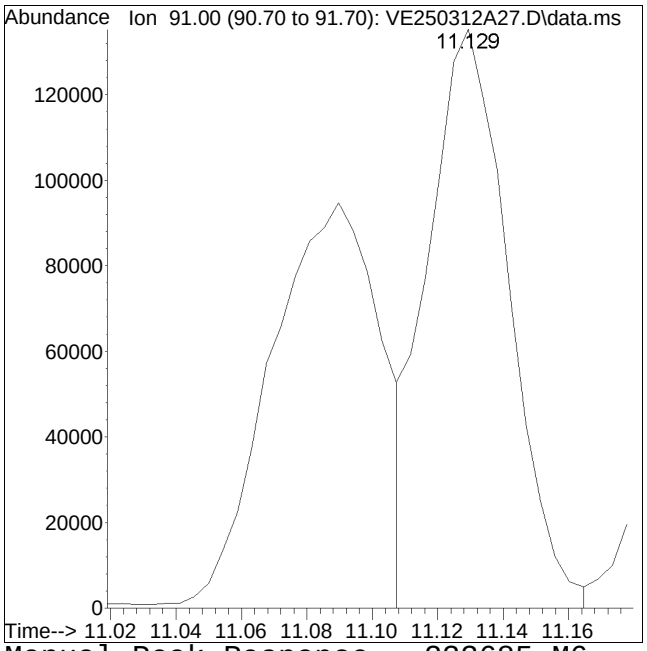
Manual Integration Report

Data Path : K:\Elaine\2025\250312A\ QMethod : Elaine_250220N_8260.m
Data File : VE250312A27.D Operator : ELAINE:MJV
Date Inj'd : 3/12/2025 8:01 pm Instrument : Elaine
Sample : WG2039699-6,31,5.0,10,,B Quant Date : 3/13/2025 5:13 am

Compound #94: 2-Chlorotoluene



Original Peak Response = 448567



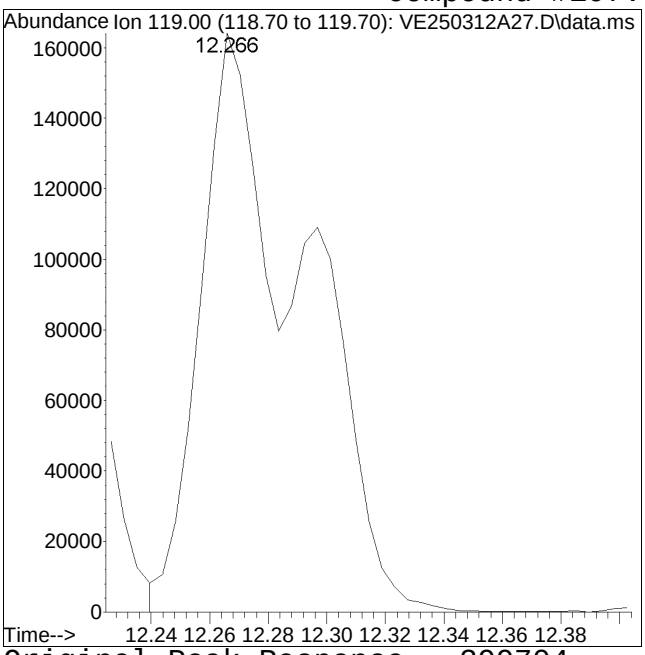
Manual Peak Response = 233685 M6

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

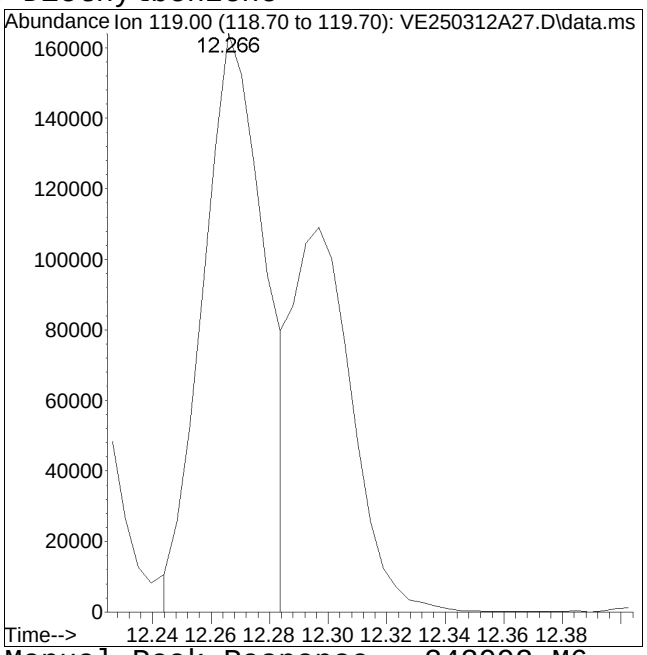
Manual Integration Report

Data Path : K:\Elaine\2025\250312A\ QMethod : Elaine_250220N_8260.m
Data File : VE250312A27.D Operator : ELAINE:MJV
Date Inj'd : 3/12/2025 8:01 pm Instrument : Elaine
Sample : WG2039699-6,31,5.0,10,,B Quant Date : 3/13/2025 5:13 am

Compound #107: p-Diethylbenzene



Original Peak Response = 399704



Manual Peak Response = 242992 M6

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

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A28.D
Acq On : 12 Mar 2025 8:25 pm
Operator : ELAINE:MJV
Sample : WG2039699-7,31,5.0,10,,B (Sig #1); L2512769-02MSD,31,5.0,10,,B (Sig #2)
Misc : WG2039699,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Mar 13 06:03:01 2025
Quant Method : K:\Elaine\2025\250312A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250312A\VE250312A01.D
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.768	96	295357	10.000	ug/L	0.00
Standard Area 1 = 297682			Recovery = 99.22%			
63) Chlorobenzene-d5	9.280	117	232720	10.000	ug/L	0.00
Standard Area 1 = 223126			Recovery = 104.30%			
84) 1,4-Dichlorobenzene-d4	12.032	152	128536	10.000	ug/L	0.00
Standard Area 1 = 121415			Recovery = 105.87%			
System Monitoring Compounds						
39) Dibromofluoromethane	4.973	113	83211	10.323	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.23%			
47) 1,2-Dichloroethane-d4	5.487	65	94233	11.044	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.44%			
64) Toluene-d8	7.447	98	304438	9.887	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.87%			
88) 4-Bromofluorobenzene	10.799	95	116389	11.314	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 113.14%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.522	85	77510	10.200	ug/L	99
3) Chloromethane	1.698	50	72860	10.635	ug/L	100
4) Vinyl chloride	1.772	62	96322	10.827	ug/L	99
5) Bromomethane	2.062	94	33577	4.276	ug/L	98
6) Chloroethane	2.176	64	70399	10.335	ug/L	100
7) Trichlorofluoromethane	2.308	101	134396	8.762	ug/L	98
8) Ethyl ether	2.593	74	43470	9.512	ug/L	87
10) 1,1-Dichloroethene	2.769	96	79481	9.580	ug/L	89
11) Carbon disulfide	2.800	76	232512	9.943	ug/L	100
15) Methylene chloride	3.305	84	80867	11.627	ug/L	94
17) Acetone	3.353	43	15993	13.535	ug/L	93
18) trans-1,2-Dichloroethene	3.458	96	77466	11.908	ug/L	95
21) Methyl tert-butyl ether	3.551	73	161192	10.508	ug/L #	94
25) 1,1-Dichloroethane	4.025	63	144288	12.002	ug/L	99
27) Acrylonitrile	4.064	53	18801	12.484	ug/L	97
29) Vinyl acetate	4.253	43	113328	9.485	ug/L	99
30) cis-1,2-Dichloroethene	4.539	96	89078	11.749	ug/L	92
31) 2,2-Dichloropropane	4.640	77	93126	9.343	ug/L #	100
33) Bromochloromethane	4.727	128	39447	11.405	ug/L	91
35) Chloroform	4.798	83	138378	11.621	ug/L	99

Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A28.D
Acq On : 12 Mar 2025 8:25 pm
Operator : ELAINE:MJV
Sample : WG2039699-7,31,5.0,10,,B (Sig #1); L2512769-02MSD,31,5.0,10,,B (Sig #2)
Misc : WG2039699,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Mar 13 06:03:01 2025
Quant Method : K:\Elaine\2025\250312A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250312A\VE250312A01.D
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) Carbon tetrachloride	4.925	117	115215	13.075	ug/L		91
40) 1,1,1-Trichloroethane	4.991	97	114501	11.691	ug/L		98
42) 2-Butanone	5.083	43	21495	13.055	ug/L		85
43) 1,1-Dichloropropene	5.109	75	88106	11.072	ug/L		99
45) Benzene	5.355	78	286950	10.946	ug/L		98
48) 1,2-Dichloroethane	5.557	62	92574	11.181	ug/L		98
52) Trichloroethene	5.949	95	69120	10.865	ug/L		99
54) Dibromomethane	6.384	93	42316	10.632	ug/L		95
55) 1,2-Dichloropropane	6.479	63	73164	11.861	ug/L		99
58) Bromodichloromethane	6.560	83	97001	10.942	ug/L		100
61) 1,4-Dioxane	6.764	88	22163	697.368	ug/L		93
62) cis-1,3-Dichloropropene	7.243	75	98403	10.254	ug/L		97
65) Toluene	7.501	92	177571	10.202	ug/L		100
66) 4-Methyl-2-pentanone	7.936	58	15311	10.315	ug/L		96
67) Tetrachloroethene	7.949	166	70052	10.462	ug/L		100
69) trans-1,3-Dichloropropene	7.990	75	80245	9.535	ug/L		93
71) Ethyl methacrylate	8.185	69	61272	10.309	ug/L		95
72) 1,1,2-Trichloroethane	8.171	83	44806	10.253	ug/L		96
73) Chlorodibromomethane	8.379	129	60138	9.887	ug/L		98
74) 1,3-Dichloropropane	8.488	76	92733	10.265	ug/L		99
75) 1,2-Dibromoethane	8.651	107	51578	10.310	ug/L		95
77) 2-Hexanone	8.940	43	24885	10.525	ug/L		99
78) Chlorobenzene	9.298	112	198520	10.027	ug/L	#	50
79) Ethylbenzene	9.339	91	1623036	46.581	ug/L		99
80) 1,1,1,2-Tetrachloroethane	9.388	131	62233	10.083	ug/L		100
81) p/m Xylene	9.529	106	548185	38.456	ug/L		98
82) o Xylene	10.072	106	443227	31.237	ug/L		100
83) Styrene	10.144	104	431103	17.836	ug/L		97
85) Bromoform	10.162	173	35036	9.637	ug/L		98
87) Isopropylbenzene	10.468	105	1003791	28.311	ug/L		99
89) Bromobenzene	10.909	156	80522	10.181	ug/L		98
90) n-Propylbenzene	10.962	91	752384	17.606	ug/L		98
91) 1,4-Dichlorobutane	10.979	55	84789	10.861	ug/L		96
92) 1,1,2,2-Tetrachloroethane	11.054	83	62529	10.383	ug/L		94
93) 4-Ethyltoluene	11.089	105	1821832	51.569	ug/L		97
94) 2-Chlorotoluene	11.129	91	242842M6	10.013	ug/L		
95) 1,3,5-Trimethylbenzene	11.195	105	761928	24.198	ug/L		99
96) 1,2,3-Trichloropropane	11.195	75	56184	11.027	ug/L		96
97) trans-1,4-Dichloro-2-b...	11.248	53	14615	8.433	ug/L	#	80

Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A28.D
Acq On : 12 Mar 2025 8:25 pm
Operator : ELAINE:MJV
Sample : WG2039699-7,31,5.0,10,,B (Sig #1); L2512769-02MSD,31,5.0,10,,B (Sig #2)
Misc : WG2039699,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Mar 13 06:03:01 2025
Quant Method : K:\Elaine\2025\250312A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2025\250312A\VE250312A01.D
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
98) 4-Chlorotoluene	11.319	91	255576	10.155	ug/L		99
99) tert-Butylbenzene	11.539	119	265016	10.099	ug/L		95
102) 1,2,4-Trimethylbenzene	11.618	105	2533382	82.186	ug/L		97
103) sec-Butylbenzene	11.733	105	391192	9.832	ug/L		96
104) p-Isopropyltoluene	11.891	119	385405	11.048	ug/L		96
105) 1,3-Dichlorobenzene	11.953	146	170775	9.922	ug/L		98
106) 1,4-Dichlorobenzene	12.045	146	169875	9.920	ug/L		100
107) p-Diethylbenzene	12.266	119	243585M6	11.780	ug/L		
108) n-Butylbenzene	12.323	91	332467	11.110	ug/L	#	79
109) 1,2-Dichlorobenzene	12.473	146	162713	10.064	ug/L		98
110) 1,2,4,5-Tetramethylben...	13.068	119	429322	13.161	ug/L		99
111) 1,2-Dibromo-3-chloropr...	13.257	155	9504	10.162	ug/L		90
113) Hexachlorobutadiene	13.869	225	31834	10.207	ug/L		99
114) 1,2,4-Trichlorobenzene	13.887	180	108984	10.690	ug/L		99
115) Naphthalene	14.182	128	4290381	176.869	ug/L		100
116) 1,2,3-Trichlorobenzene	14.350	180	96781	10.354	ug/L		98

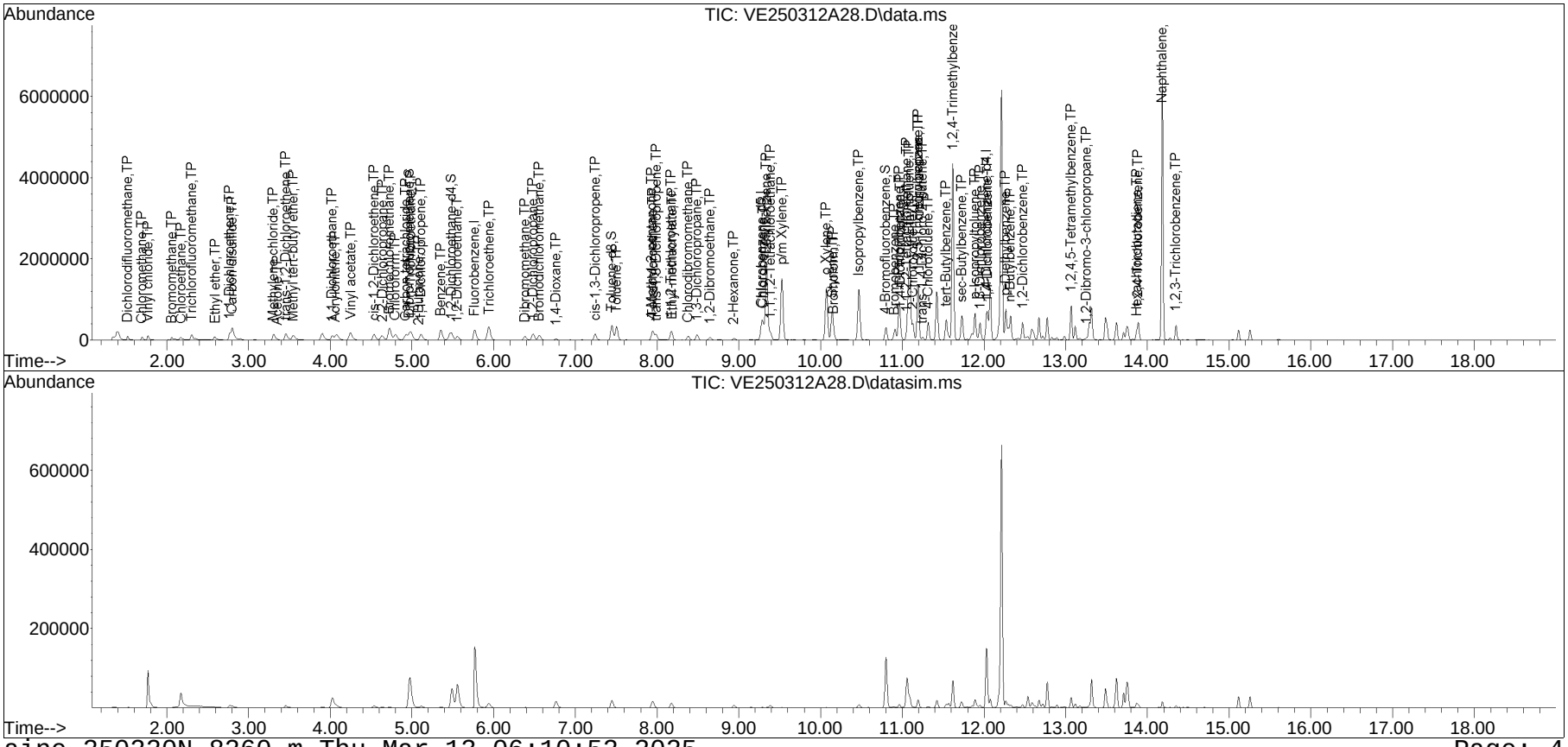
(#) = qualifier out of range (m) = manual integration (+) = signals summed

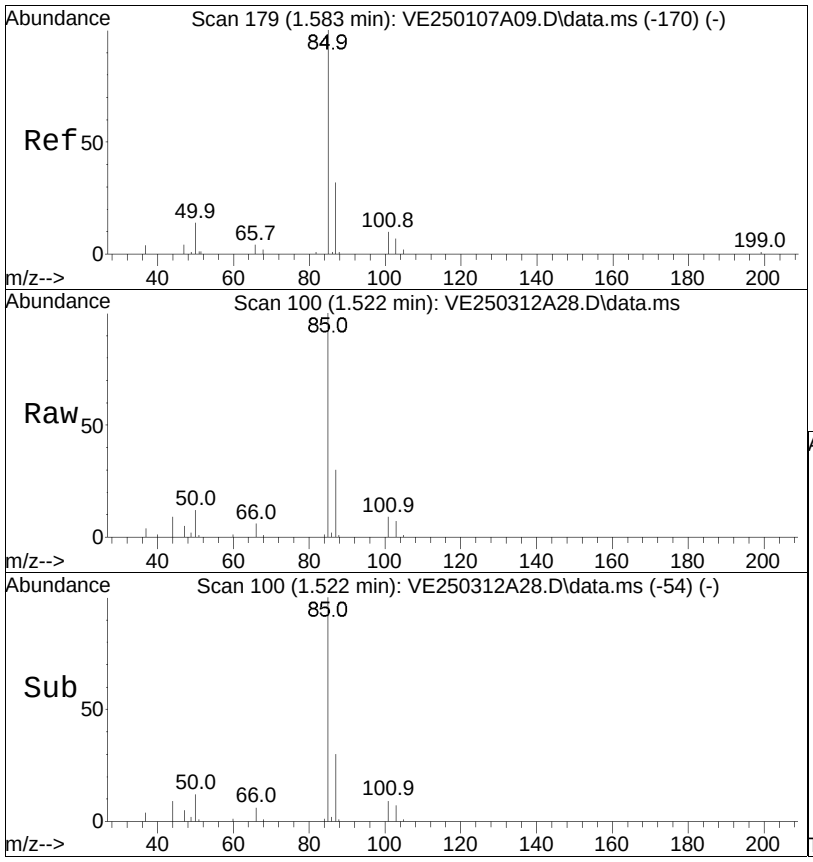
Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A28.D
Acq On : 12 Mar 2025 8:25 pm
Operator : ELAINE:MJV
Sample : WG2039699-7,31,5.0,10,,B (Sig #1); L2512769-02MSD,31,5.0,10,,B (Sig #2)
Misc : WG2039699,ICAL22018 (Sig #1); WG,ICAL22018 (Sig #2)
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Mar 13 06:03:01 2025
Quant Method : K:\Elaine\2025\250312A\Elaine_250220N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Feb 24 07:16:52 2025
Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox50312A01.D•

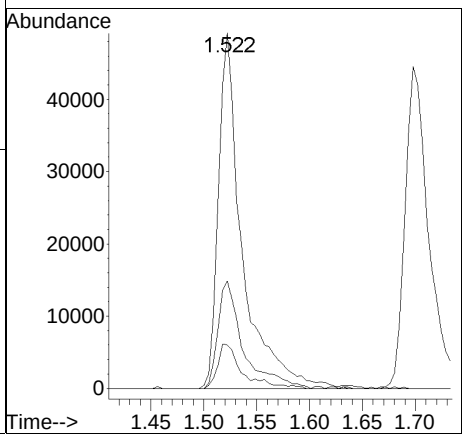


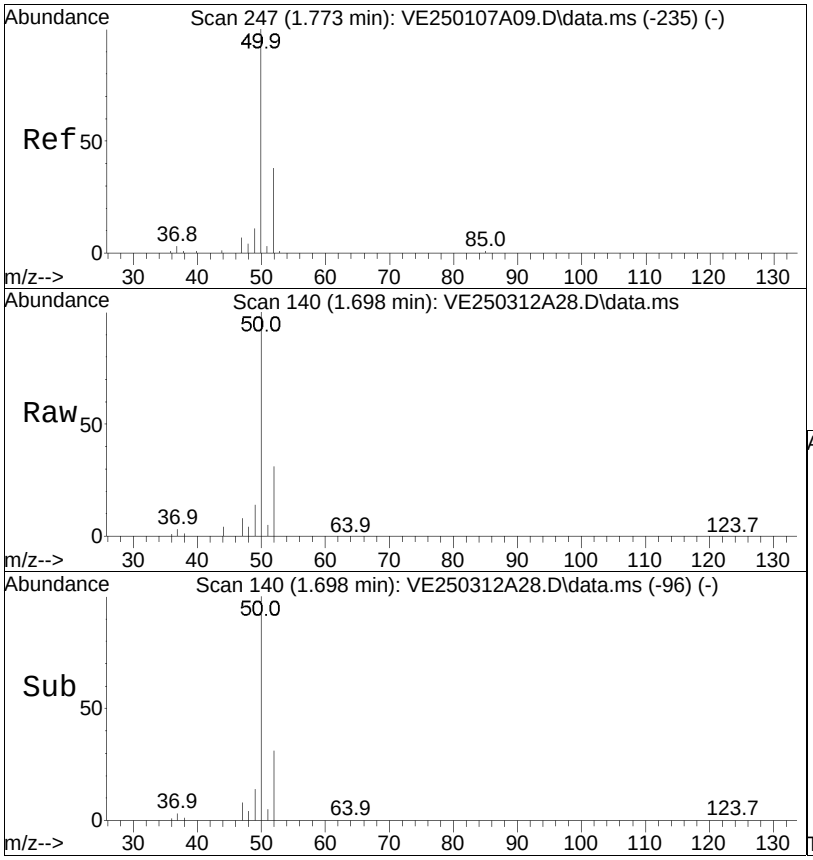


#2
Dichlorodifluoromethane
Concen: 10.20 ug/L
RT: 1.522 min Scan# 100
Delta R.T. 0.000 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion: 85 Resp: 77510

Ion	Ratio	Lower	Upper
85	100		
87	31.8	21.1	43.7
50	12.9	8.3	17.1

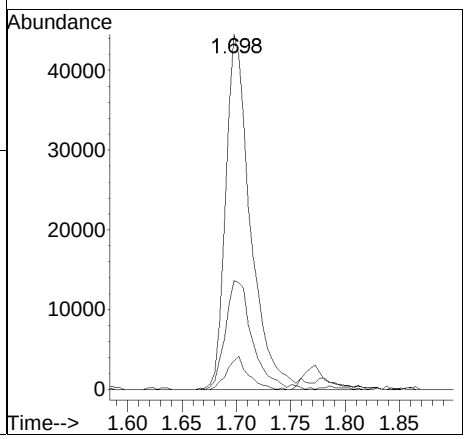


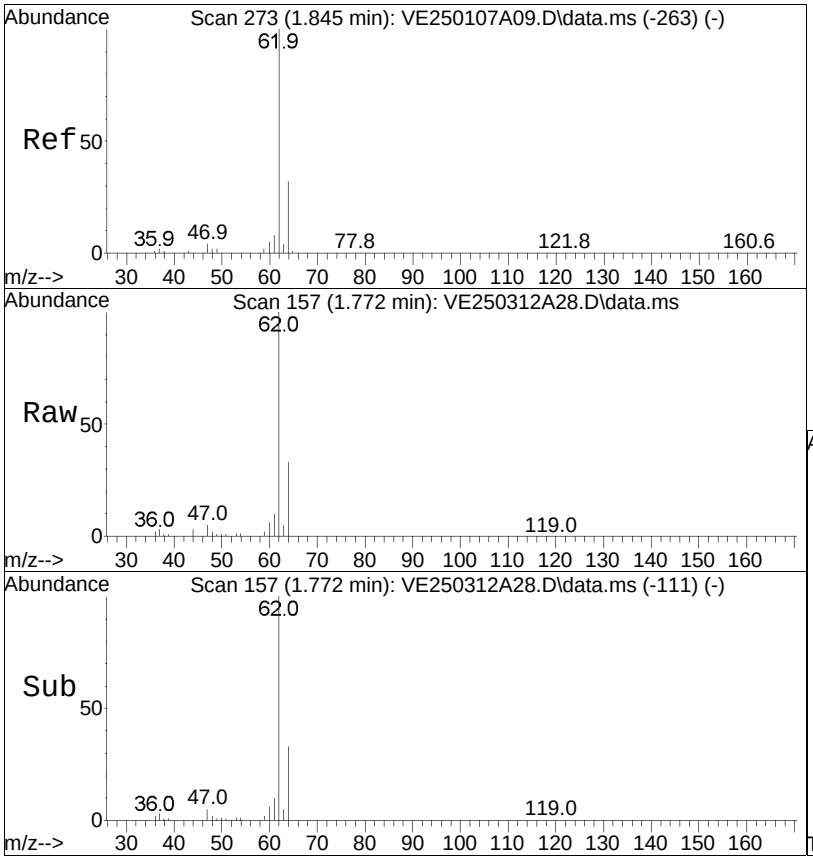


#3
Chloromethane
Concen: 10.64 ug/L
RT: 1.698 min Scan# 140
Delta R.T. -0.005 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion: 50 Resp: 72860

Ion	Ratio	Lower	Upper
50	100		
52	32.4	12.5	52.5
47	7.7	0.0	27.7

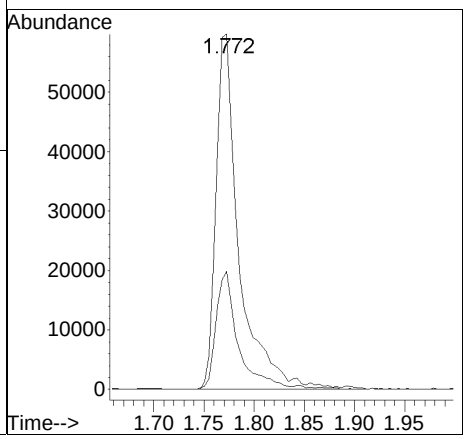


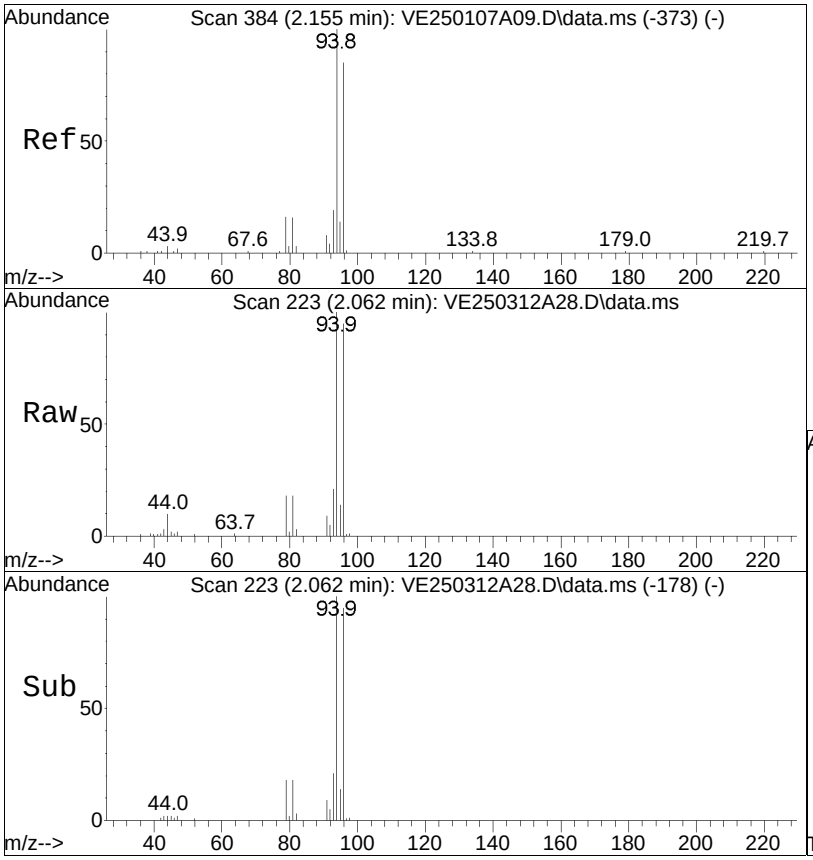


#4
Vinyl chloride
Concen: 10.83 ug/L
RT: 1.772 min Scan# 157
Delta R.T. 0.002 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion: 62 Resp: 96322

Ion	Ratio	Lower	Upper
62	100		
64	32.6	12.1	52.1

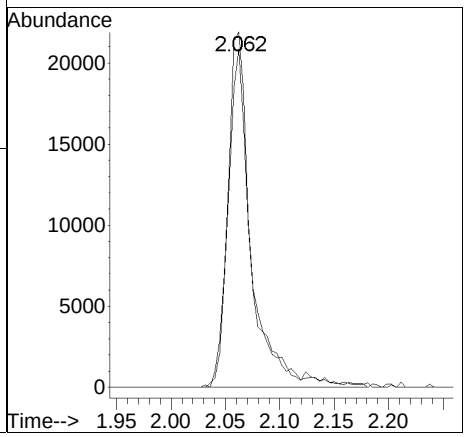


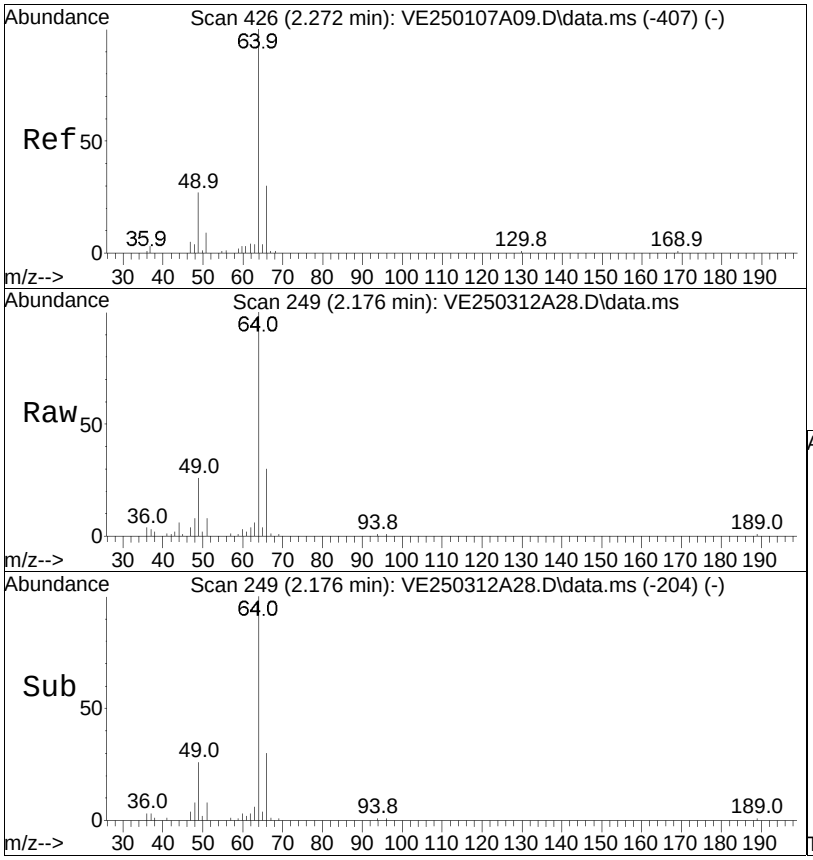


#5
Bromomethane
Concen: 4.28 ug/L
RT: 2.062 min Scan# 223
Delta R.T. -0.003 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion: 94 Resp: 33577

Ion	Ratio	Lower	Upper
94	100		
96	92.8	71.2	111.2

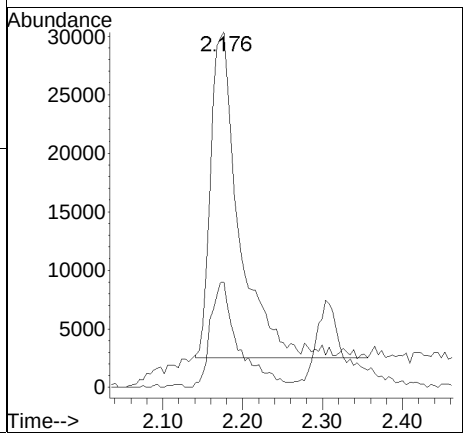


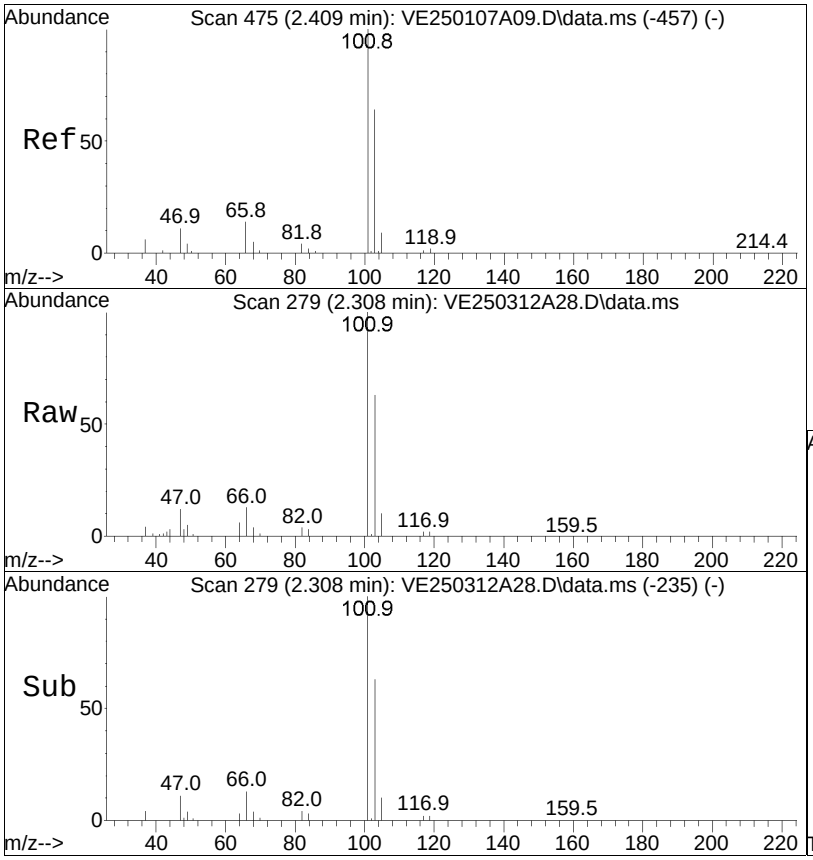


#6
Chloroethane
Concen: 10.34 ug/L
RT: 2.176 min Scan# 249
Delta R.T. -0.004 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion: 64 Resp: 70399

Ion	Ratio	Lower	Upper
64	100		
66	32.2	12.5	52.5

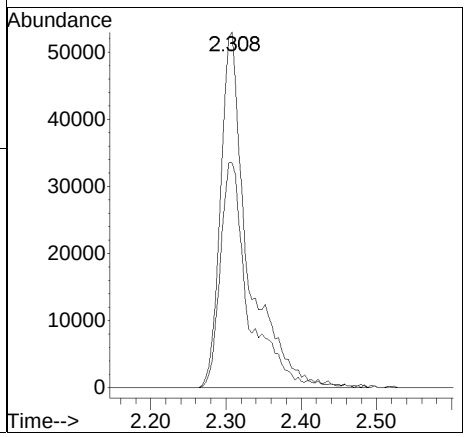


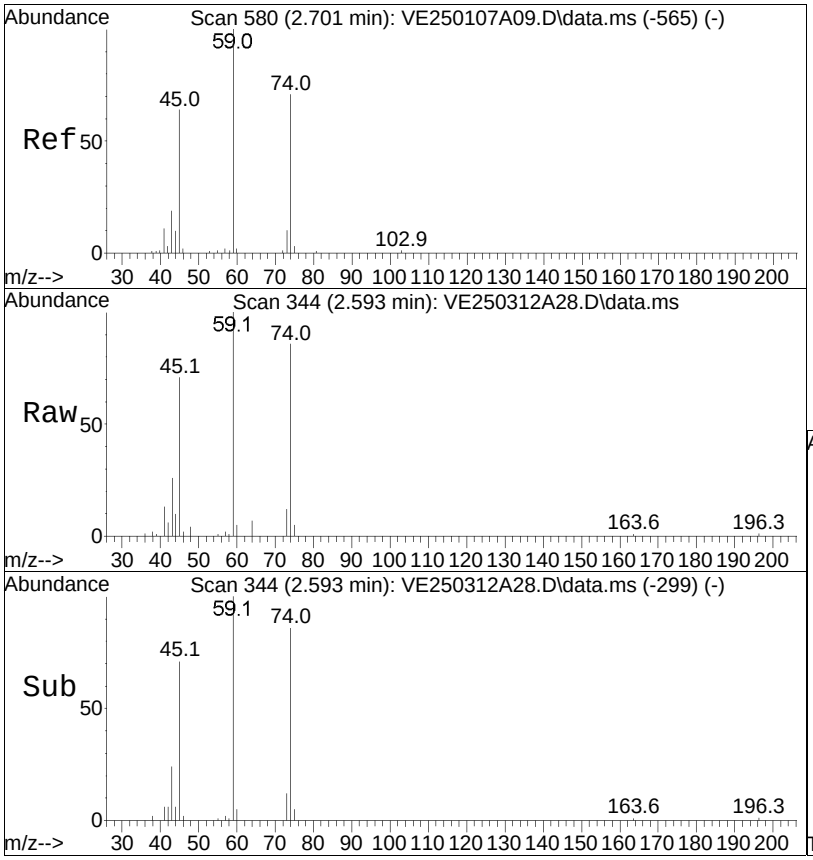


#7
Trichlorofluoromethane
Concen: 8.76 ug/L
RT: 2.308 min Scan# 279
Delta R.T. -0.006 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion:101 Resp: 134396

Ion	Ratio	Lower	Upper
101	100		
103	65.6	51.4	77.0

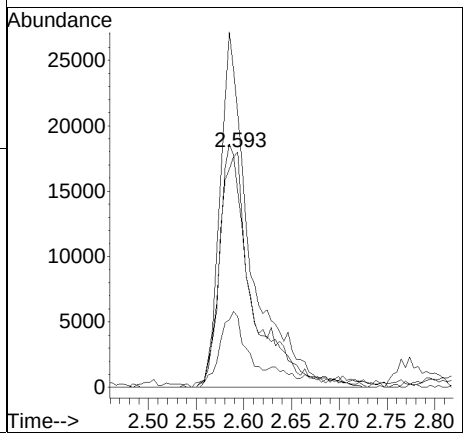


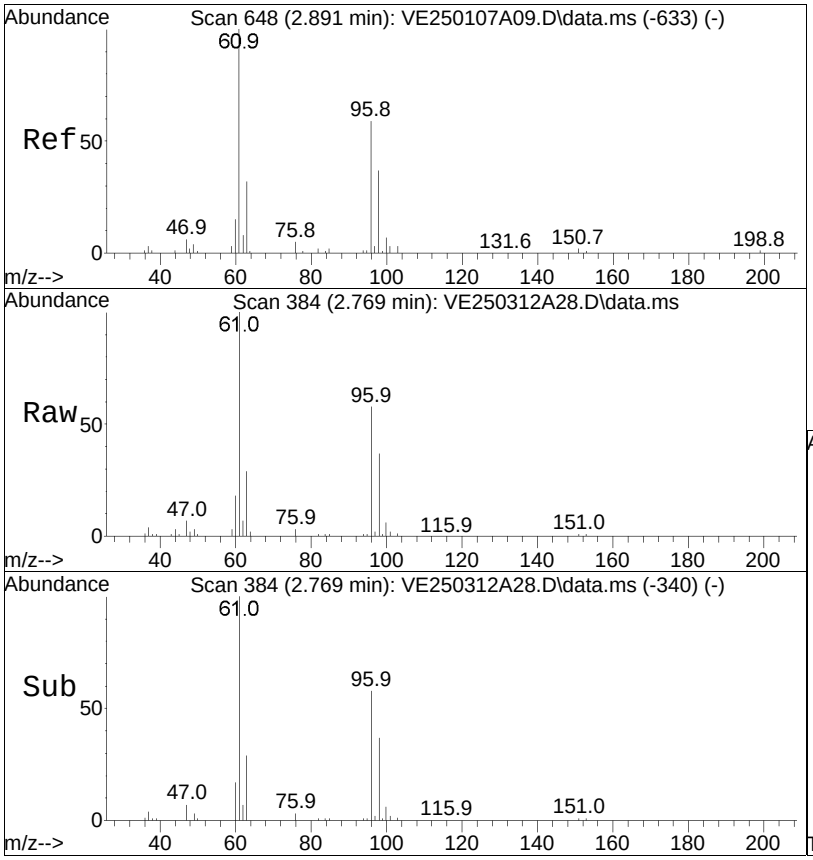


#8
Ethyl ether
Concen: 9.51 ug/L
RT: 2.593 min Scan# 344
Delta R.T. -0.002 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion: 74 Resp: 43470

Ion	Ratio	Lower	Upper
74	100		
59	140.3	83.9	174.2
45	103.3	56.9	118.3
43	40.7	20.2	42.0

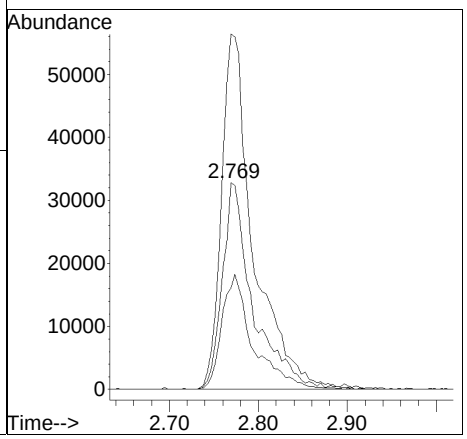


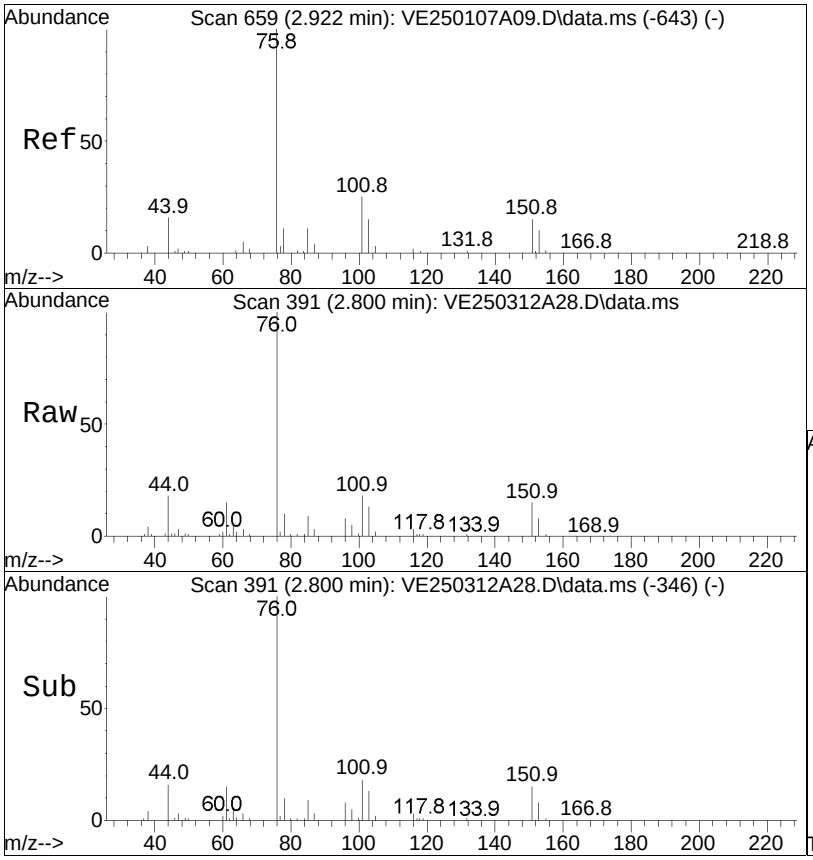


#10
1,1-Dichloroethene
Concen: 9.58 ug/L
RT: 2.769 min Scan# 384
Delta R.T. -0.008 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion: 96 Resp: 79481

Ion	Ratio	Lower	Upper
96	100		
61	177.8	129.0	193.6
63	56.3	41.7	62.5

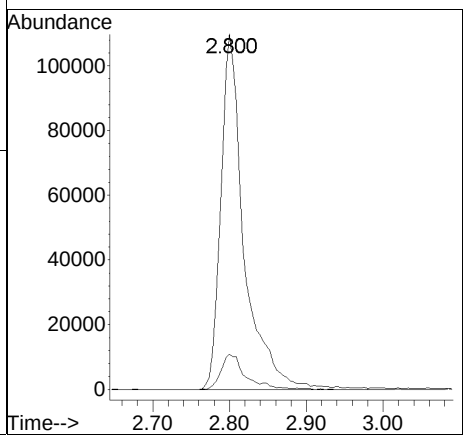


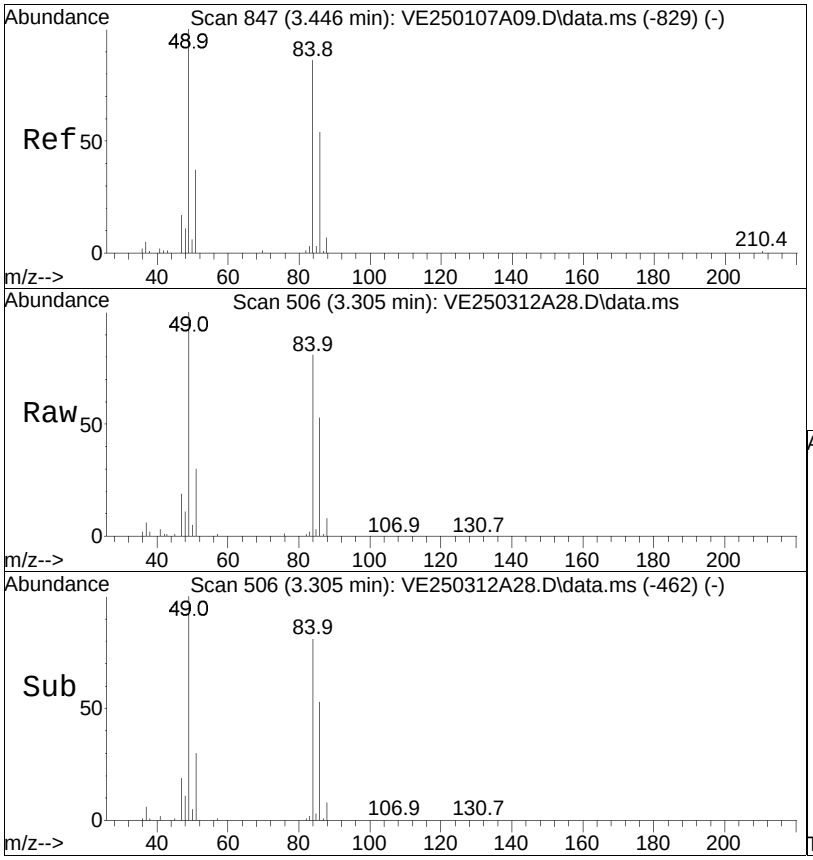


#11
Carbon disulfide
Concen: 9.94 ug/L
RT: 2.800 min Scan# 391
Delta R.T. -0.002 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion: 76 Resp: 232512

Ion	Ratio	Lower	Upper
76	100		
78	10.4	6.7	13.9

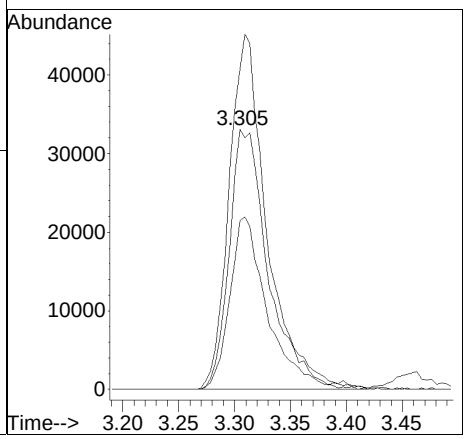


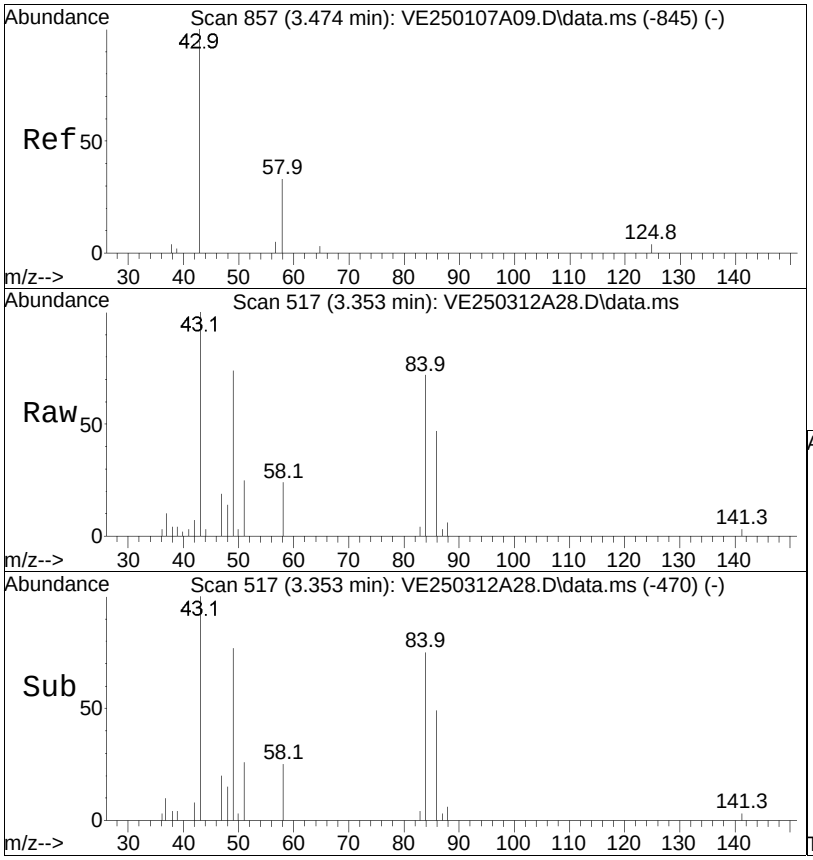


#15
Methylene chloride
Concen: 11.63 ug/L
RT: 3.305 min Scan# 506
Delta R.T. -0.005 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion: 84 Resp: 80867

Ion	Ratio	Lower	Upper
84	100		
86	63.8	42.1	87.3
49	131.8	79.9	165.9

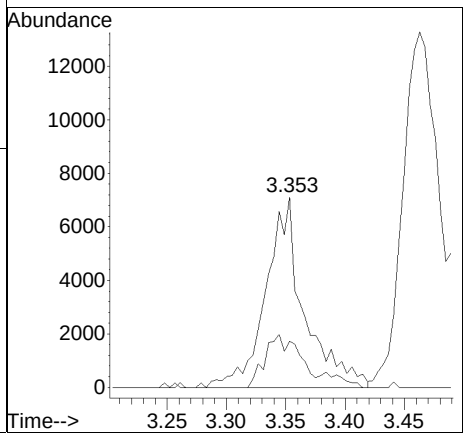


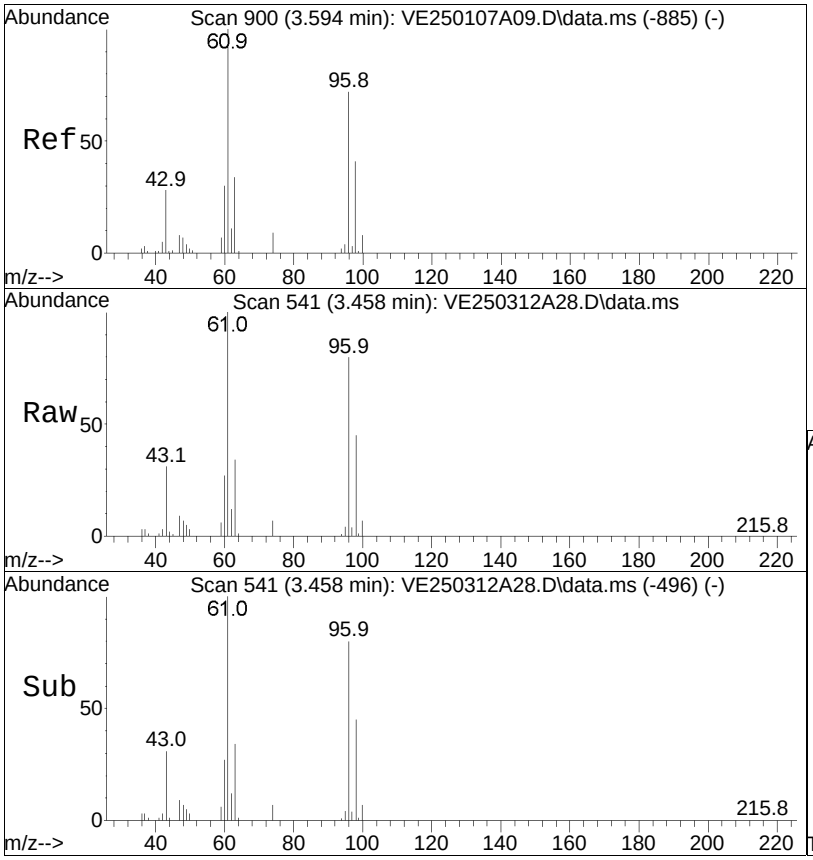


#17
Acetone
Concen: 13.53 ug/L
RT: 3.353 min Scan# 517
Delta R.T. 0.005 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion: 43 Resp: 15993

Ion	Ratio	Lower	Upper
43	100		
58	29.3	26.6	40.0

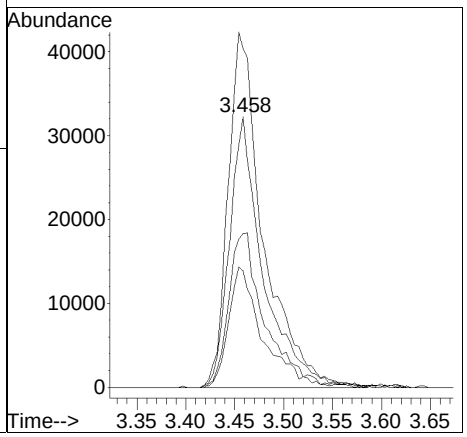


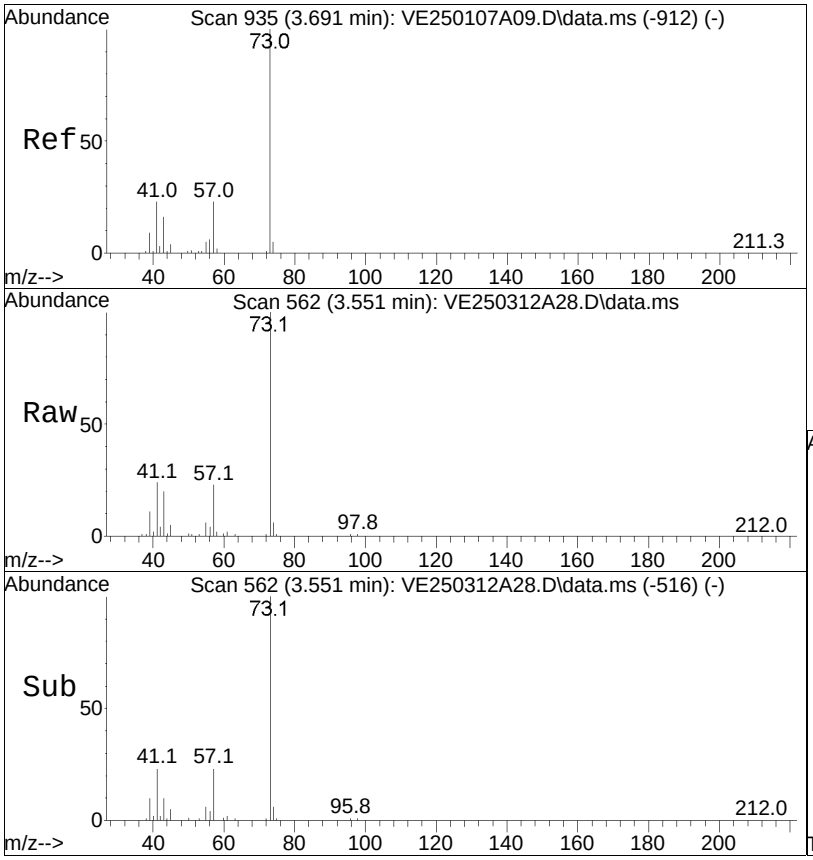


#18
trans-1,2-Dichloroethene
Concen: 11.91 ug/L
RT: 3.458 min Scan# 541
Delta R.T. -0.004 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion: 96 Resp: 77466

Ion	Ratio	Lower	Upper
96	100		
61	136.9	84.8	176.2
98	61.9	42.0	87.2
63	45.5	26.4	54.8

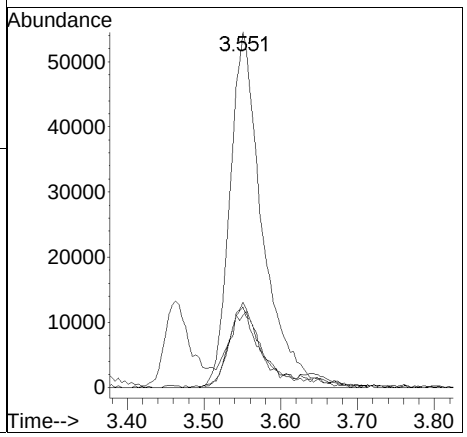


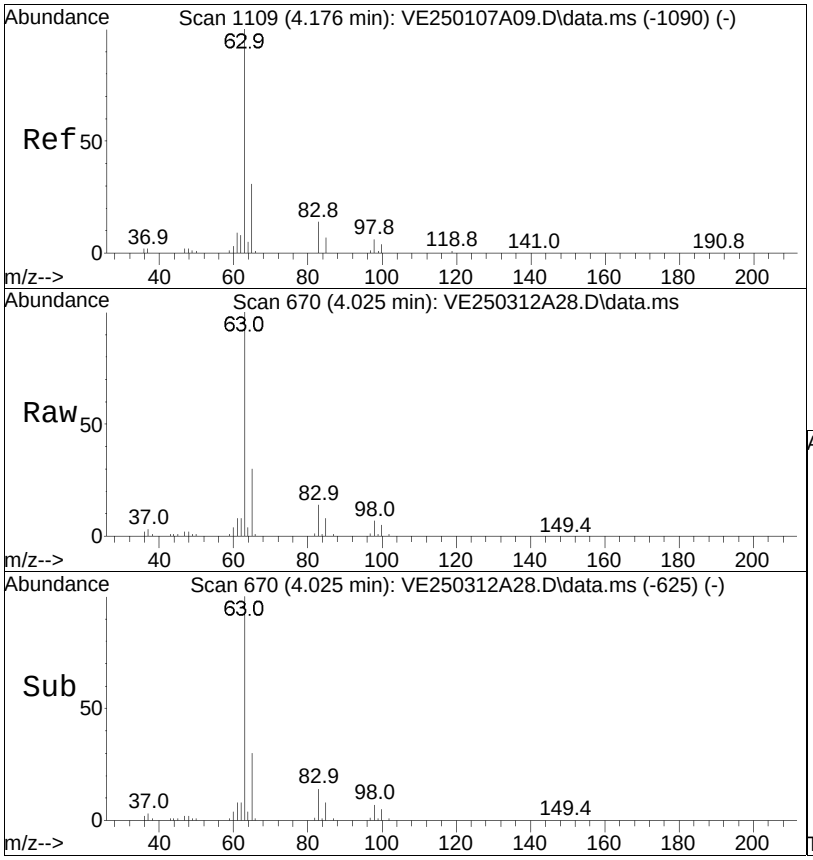


#21
Methyl tert-butyl ether
Concen: 10.51 ug/L
RT: 3.551 min Scan# 562
Delta R.T. 0.001 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion: 73 Resp: 161192

Ion	Ratio	Lower	Upper
73	100		
57	24.5	15.2	31.6
43	0.0	0.0	0.0
41	26.9	14.4	30.0

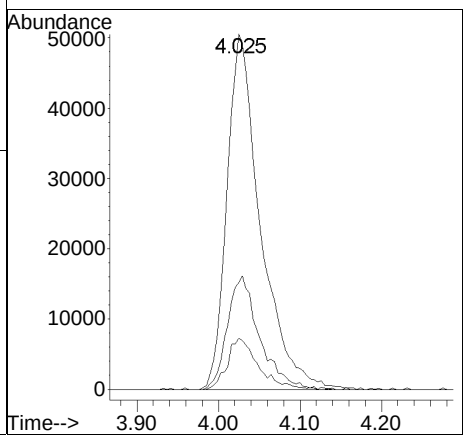


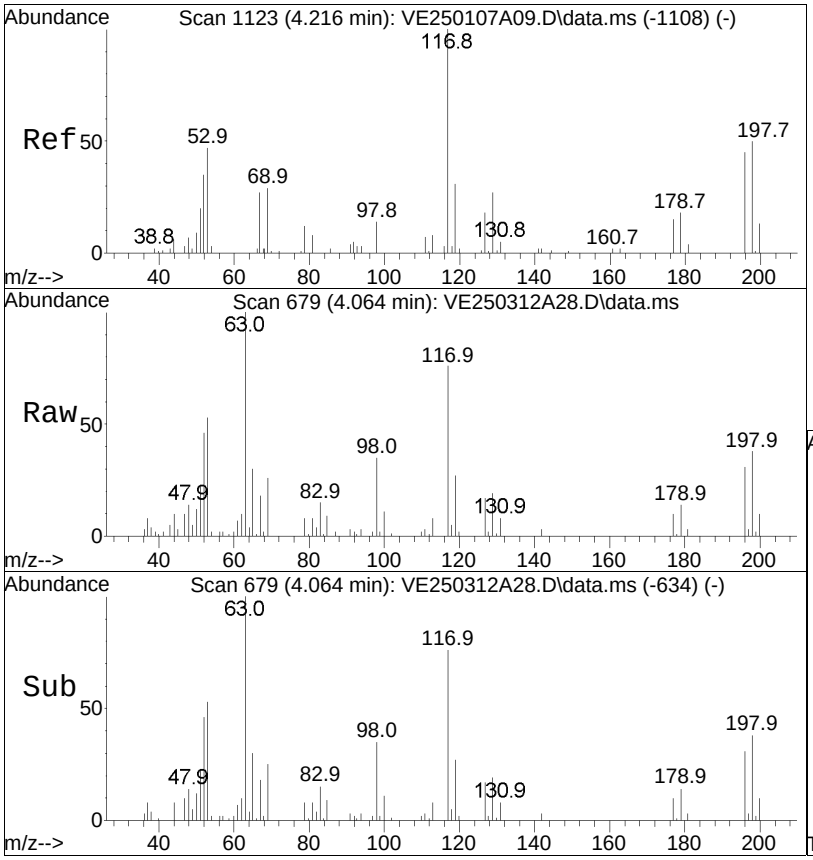


#25
1,1-Dichloroethane
Concen: 12.00 ug/L
RT: 4.025 min Scan# 670
Delta R.T. -0.004 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion: 63 Resp: 144288

Ion	Ratio	Lower	Upper
63	100		
65	30.6	11.7	51.7
83	13.3	0.0	33.3

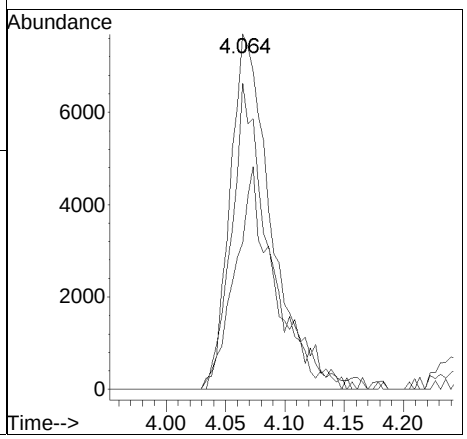


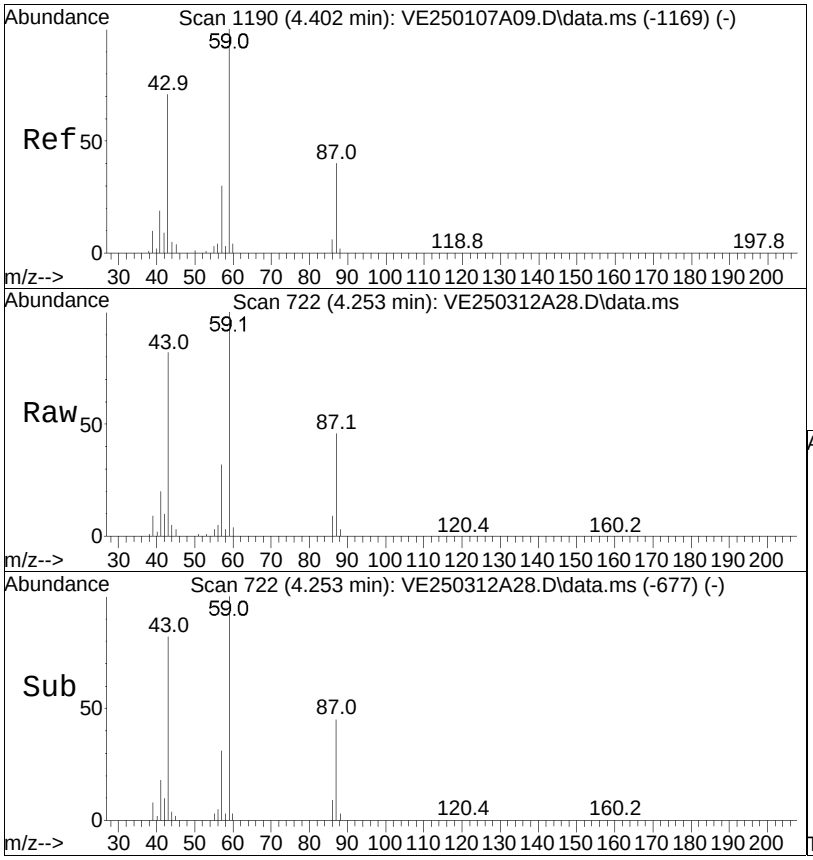


#27
Acrylonitrile
Concen: 12.48 ug/L
RT: 4.064 min Scan# 679
Delta R.T. -0.004 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion: 53 Resp: 18801

Ion	Ratio	Lower	Upper
53	100		
52	78.0	63.5	95.3
51	62.0	46.7	70.1

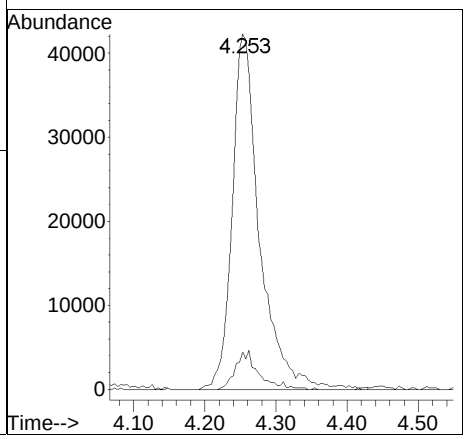


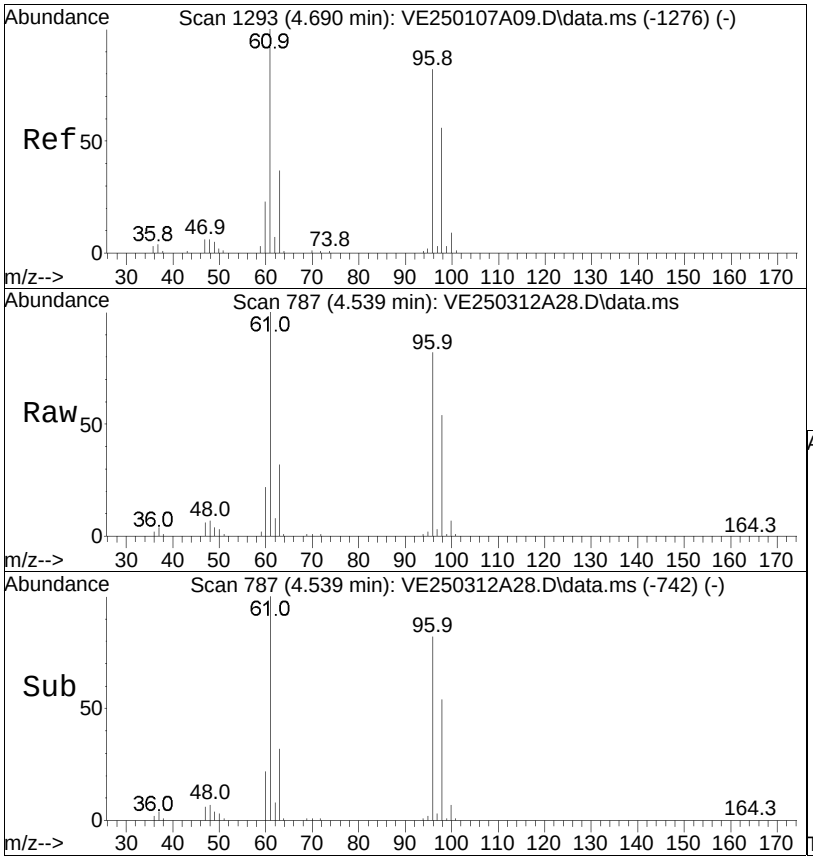


#29
Vinyl acetate
Concen: 9.49 ug/L
RT: 4.253 min Scan# 722
Delta R.T. -0.002 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion: 43 Resp: 113328

Ion	Ratio	Lower	Upper
43	100		
86	9.1	7.4	11.2

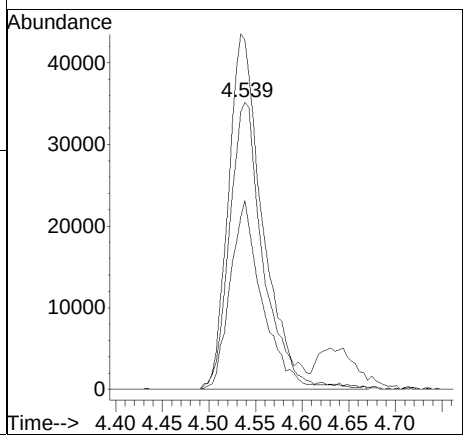


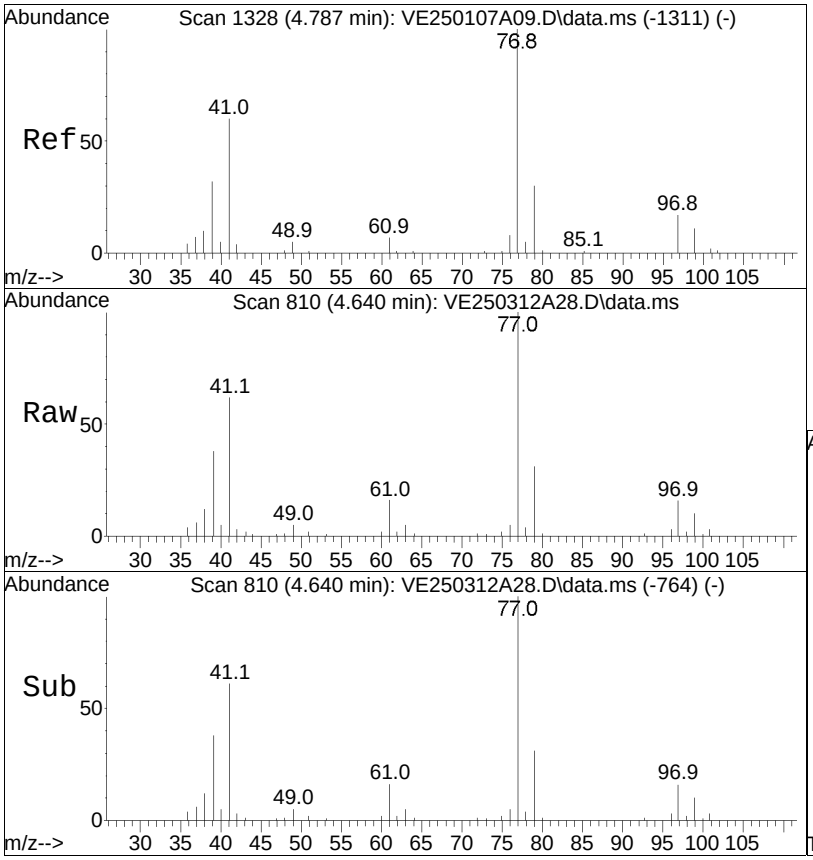


#30
cis-1,2-Dichloroethene
Concen: 11.75 ug/L
RT: 4.539 min Scan# 787
Delta R.T. -0.001 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion: 96 Resp: 89078

Ion	Ratio	Lower	Upper
96	100		
61	124.6	111.0	166.6
98	63.6	50.3	75.5

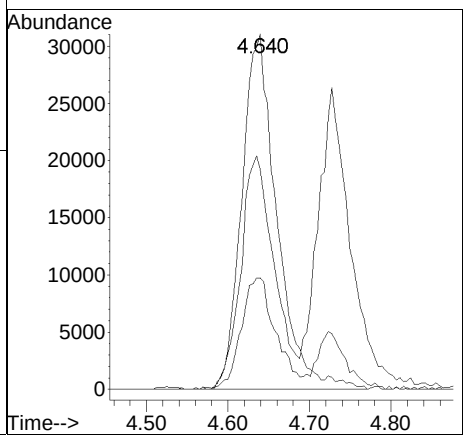


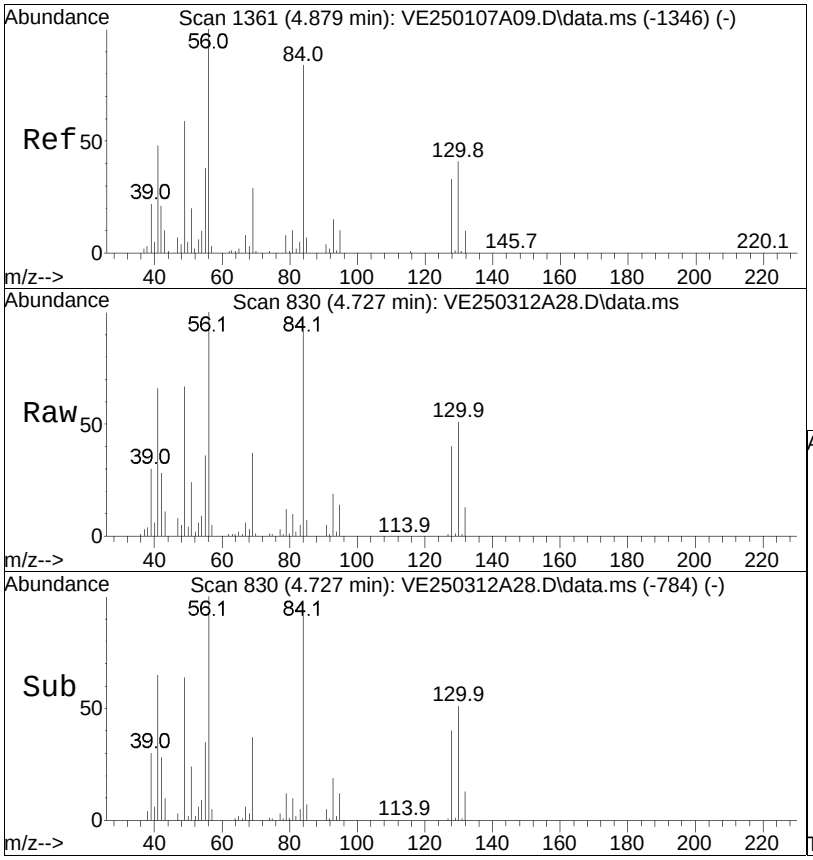


#31
2,2-Dichloropropane
Concen: 9.34 ug/L
RT: 4.640 min Scan# 810
Delta R.T. 0.003 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion: 77 Resp: 93126

Ion	Ratio	Lower	Upper
77	100		
41	62.9	0.0	0.0#
79	31.7	20.5	42.5

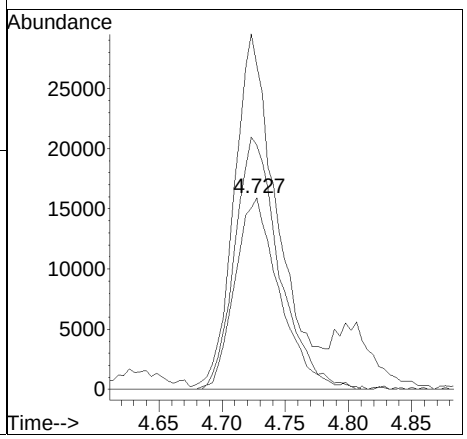


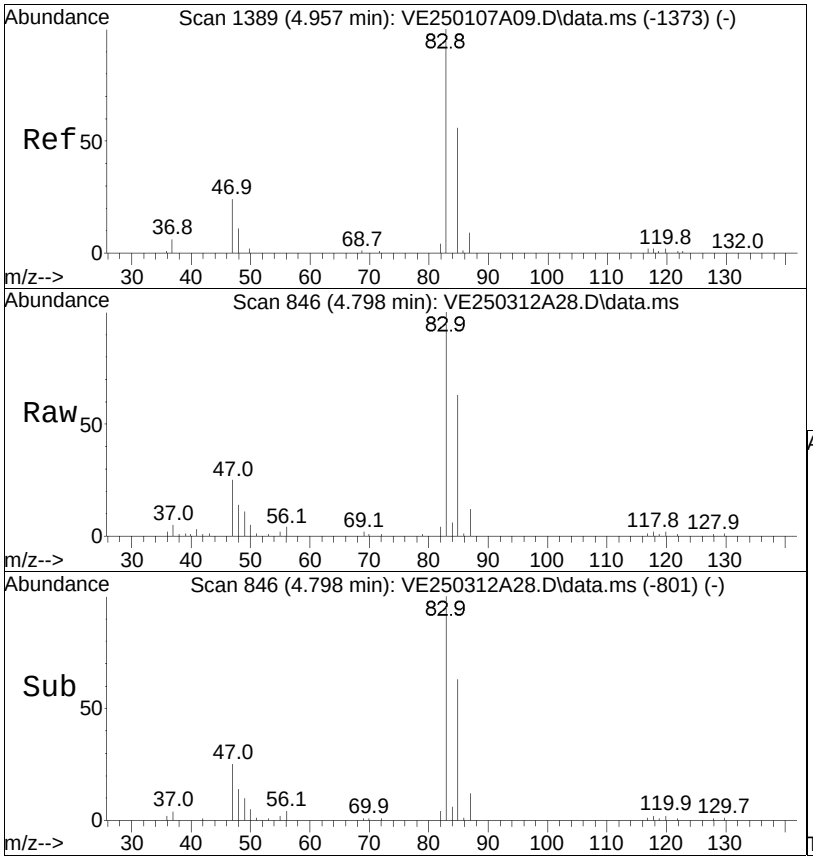


#33
Bromochloromethane
Concen: 11.41 ug/L
RT: 4.727 min Scan# 830
Delta R.T. 0.001 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion:128 Resp: 39447

Ion	Ratio	Lower	Upper
128	100		
49	210.4	152.6	228.8
130	131.0	101.8	152.6

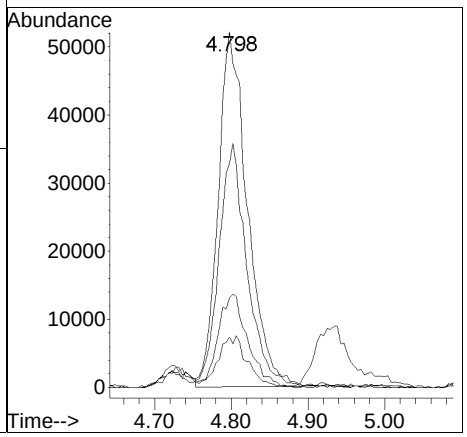


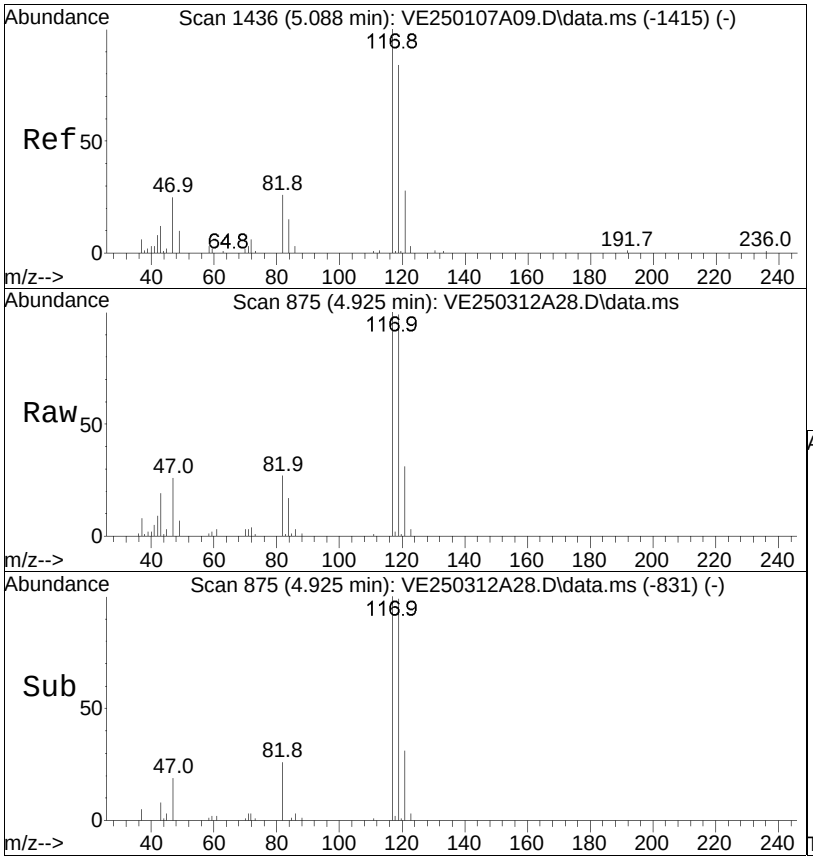


#35
Chloroform
Concen: 11.62 ug/L
RT: 4.798 min Scan# 846
Delta R.T. -0.004 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion: 83 Resp: 138378

Ion	Ratio	Lower	Upper
83	100		
85	66.4	42.5	88.3
47	25.3	16.8	35.0
48	14.6	9.2	19.2

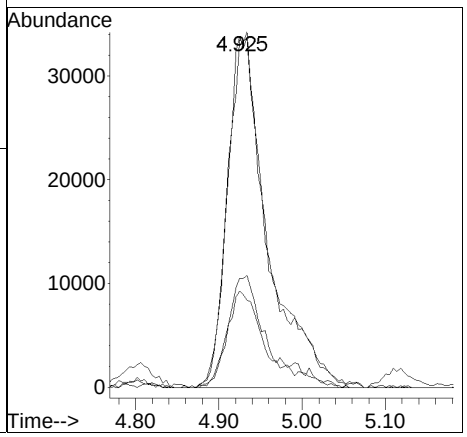


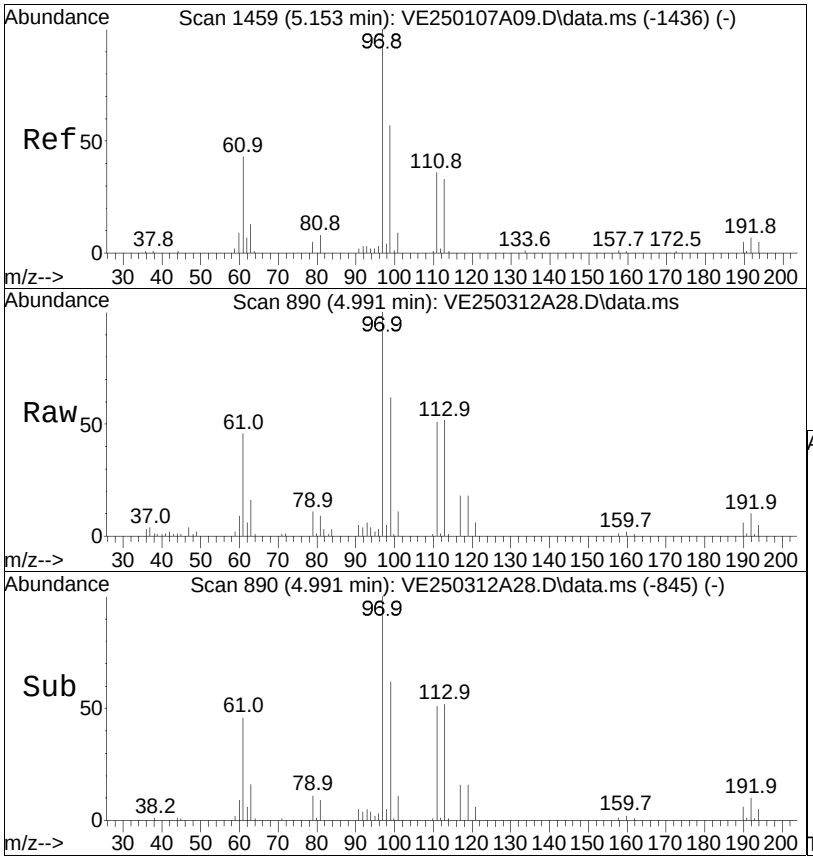


#37
Carbon tetrachloride
Concen: 13.08 ug/L
RT: 4.925 min Scan# 875
Delta R.T. -0.005 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion:117 Resp: 115215

Ion	Ratio	Lower	Upper
117	100		
119	98.2	70.2	145.8
121	31.0	22.9	47.7
82	26.5	19.7	40.9

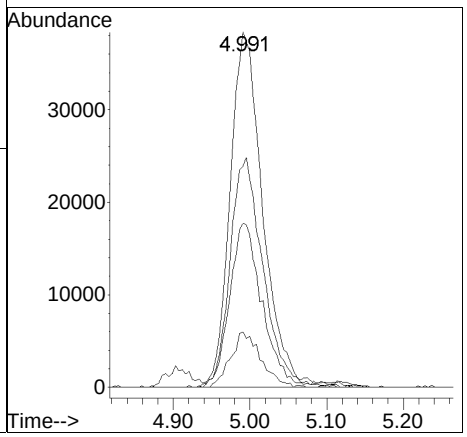


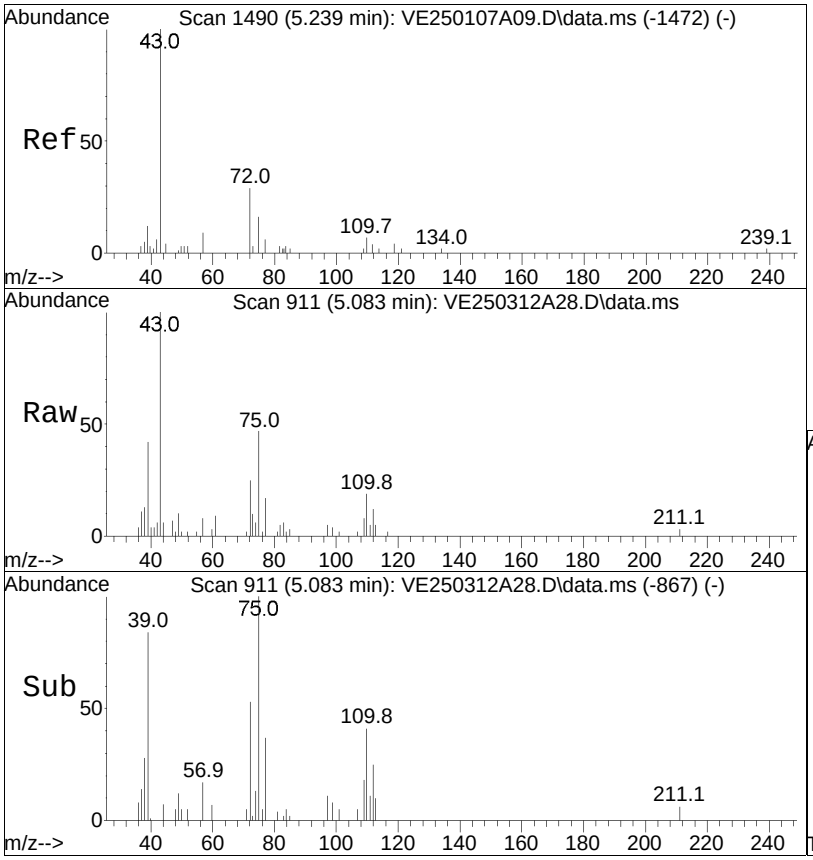


#40
1,1,1-Trichloroethane
Concen: 11.69 ug/L
RT: 4.991 min Scan# 890
Delta R.T. -0.003 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion: 97 Resp: 114501

Ion	Ratio	Lower	Upper
97	100		
99	64.4	42.4	88.2
61	47.3	29.0	60.2
63	14.4	9.4	19.6

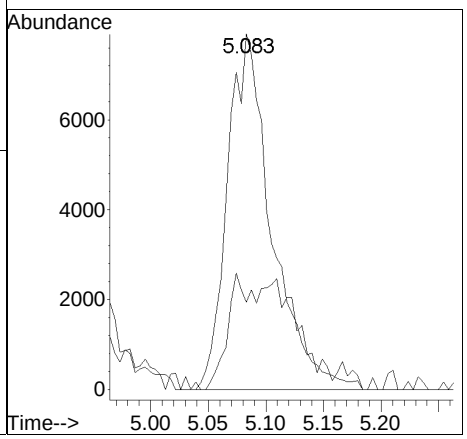


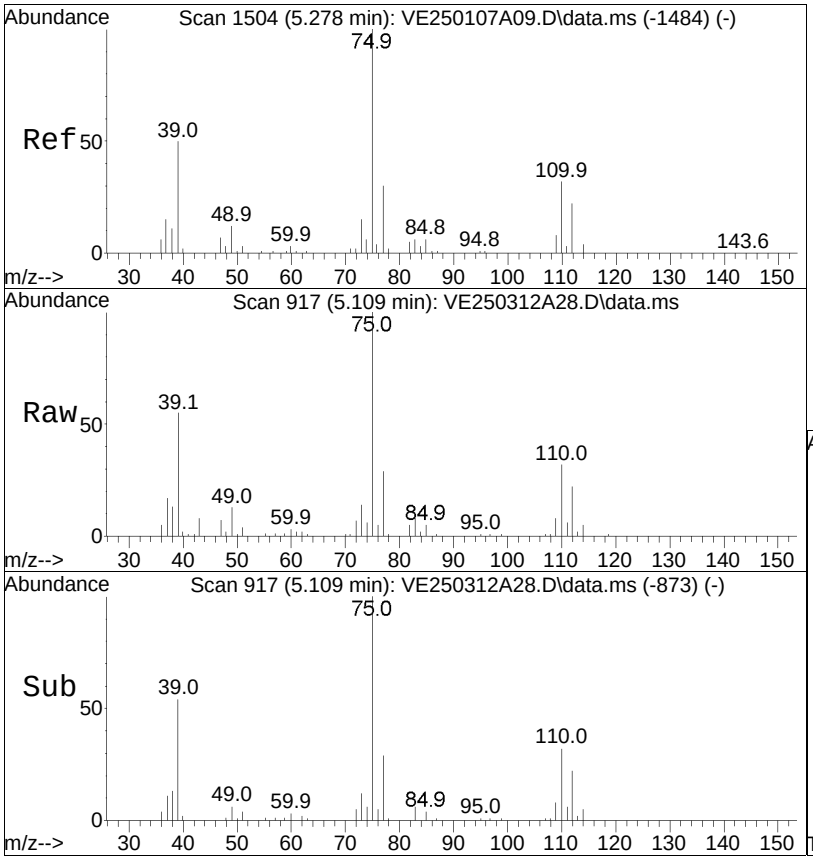


#42
2-Butanone
Concen: 13.05 ug/L
RT: 5.083 min Scan# 911
Delta R.T. -0.006 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion: 43 Resp: 21495

Ion	Ratio	Lower	Upper
43	100		
72	45.4	44.9	67.3

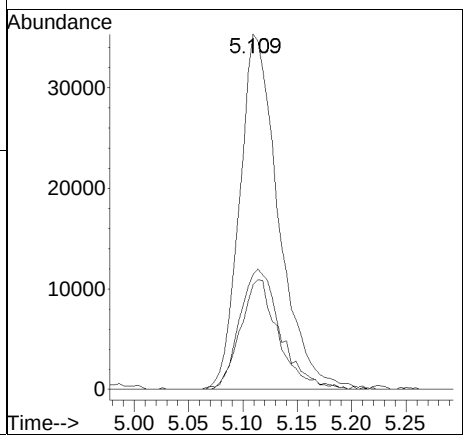


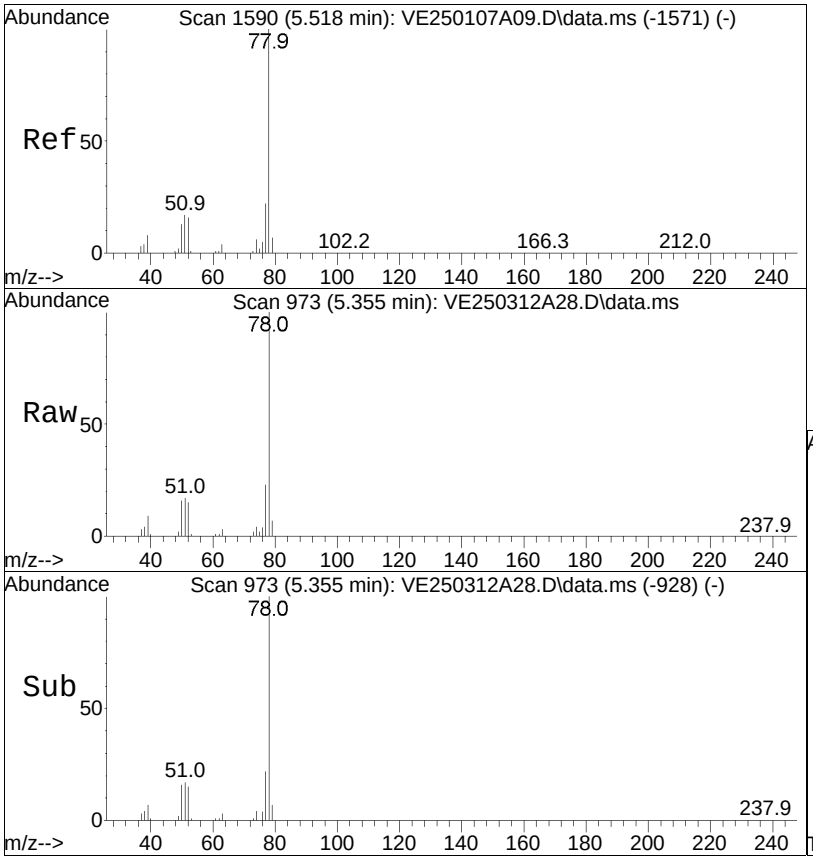


#43
1,1-Dichloropropene
Concen: 11.07 ug/L
RT: 5.109 min Scan# 917
Delta R.T. -0.007 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion: 75 Resp: 88106

Ion	Ratio	Lower	Upper
75	100		
110	35.7	23.5	48.7
77	30.3	20.1	41.7

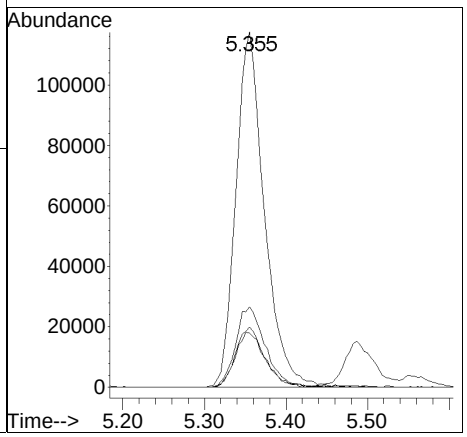


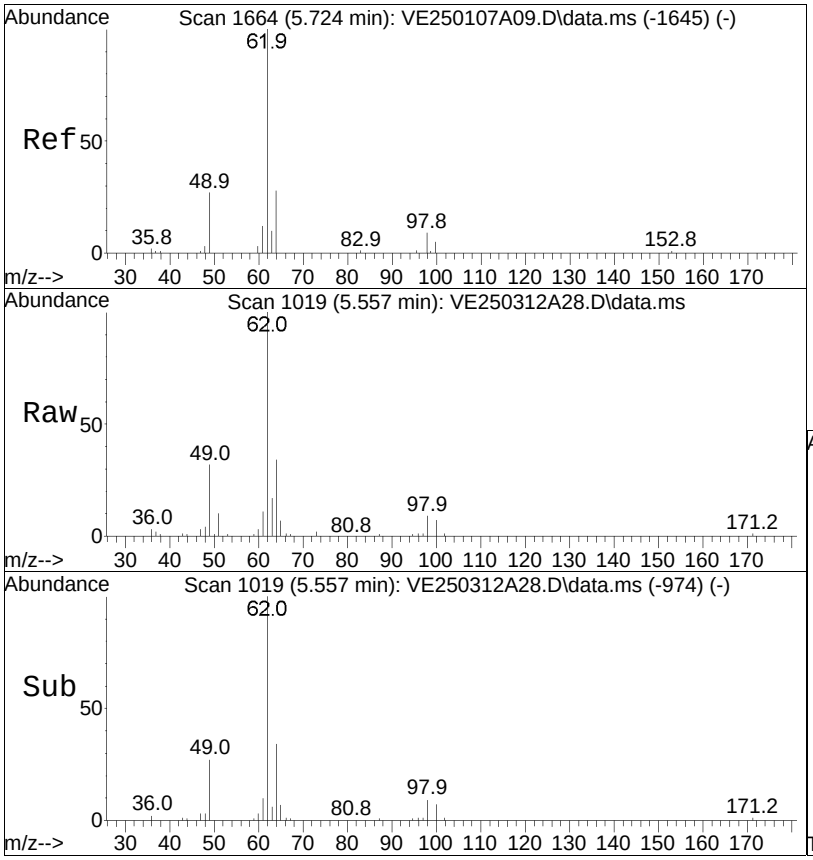


#45
Benzene
Concen: 10.95 ug/L
RT: 5.355 min Scan# 973
Delta R.T. -0.004 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion: 78 Resp: 286950

Ion	Ratio	Lower	Upper
78	100		
77	23.6	15.3	31.9
51	17.3	10.9	22.5
52	16.4	9.6	19.8

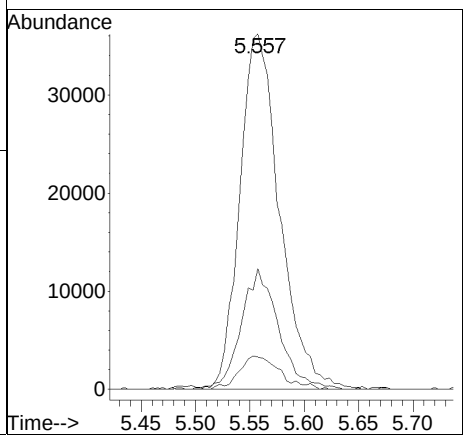


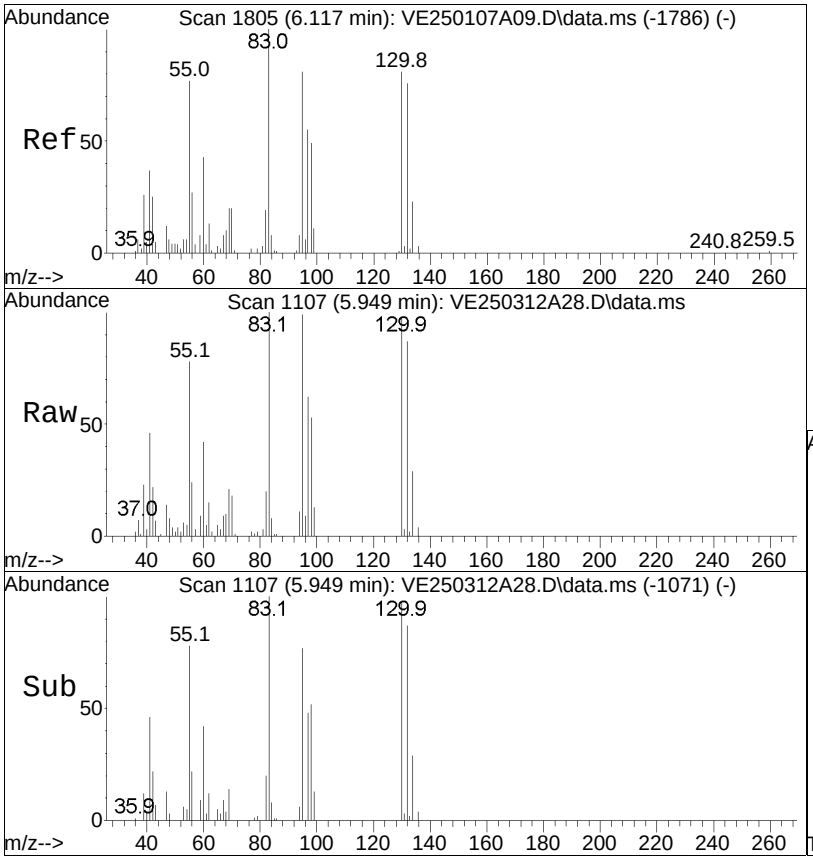


#48
1,2-Dichloroethane
Concen: 11.18 ug/L
RT: 5.557 min Scan# 1019
Delta R.T. -0.003 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion: 62 Resp: 92574

Ion	Ratio	Lower	Upper
62	100		
64	31.7	13.2	53.2
98	9.7	0.0	29.9

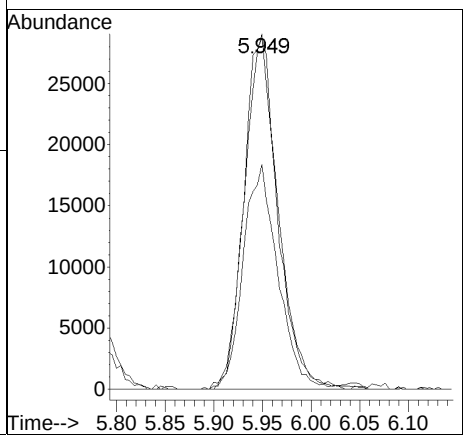


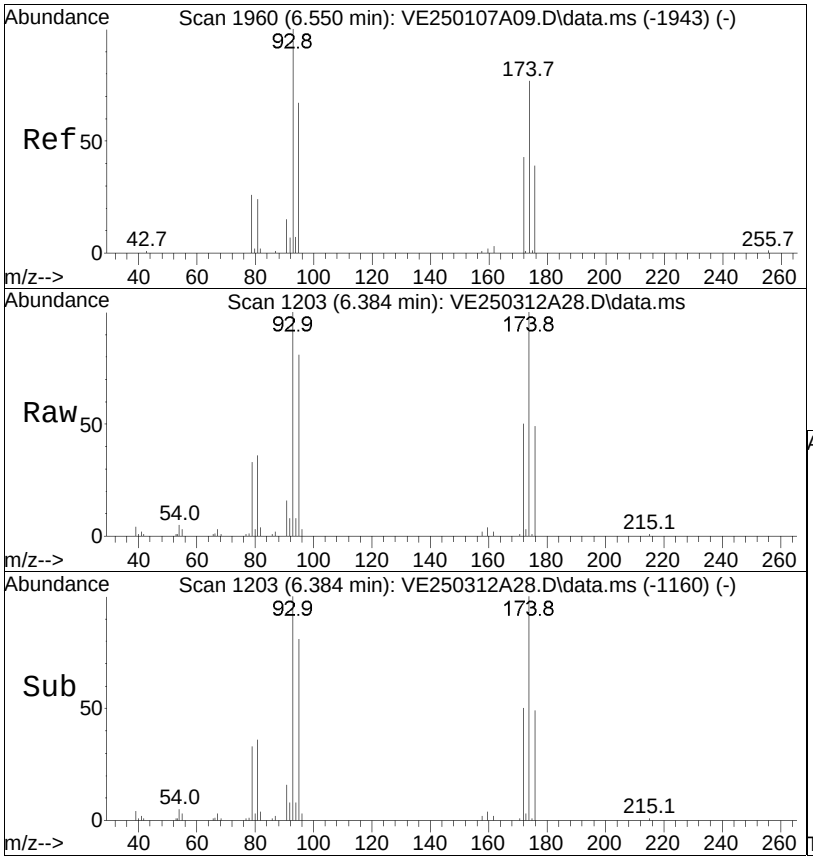


#52
Trichloroethene
Concen: 10.87 ug/L
RT: 5.949 min Scan# 1107
Delta R.T. 0.002 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion: 95 Resp: 69120

Ion	Ratio	Lower	Upper
95	100		
97	66.3	54.3	81.5
130	103.7	82.5	123.7

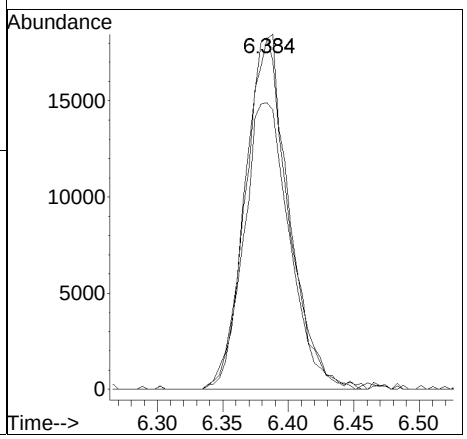


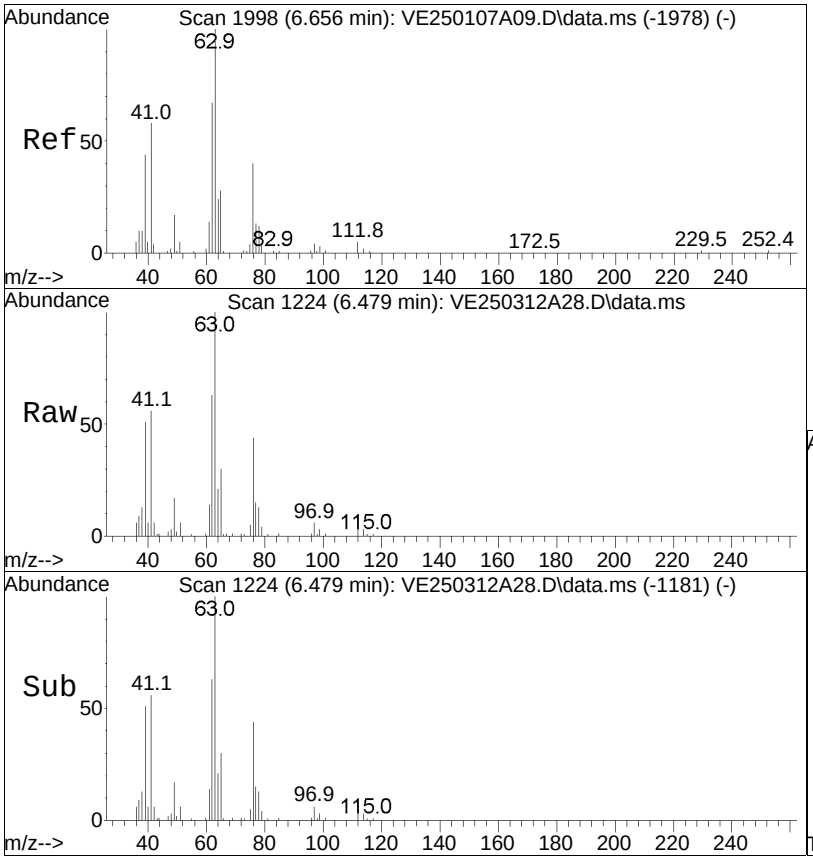


#54
Dibromomethane
Concen: 10.63 ug/L
RT: 6.384 min Scan# 1203
Delta R.T. -0.004 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion: 93 Resp: 42316

Ion	Ratio	Lower	Upper
93	100		
95	86.3	65.8	98.8
174	100.1	75.9	113.9

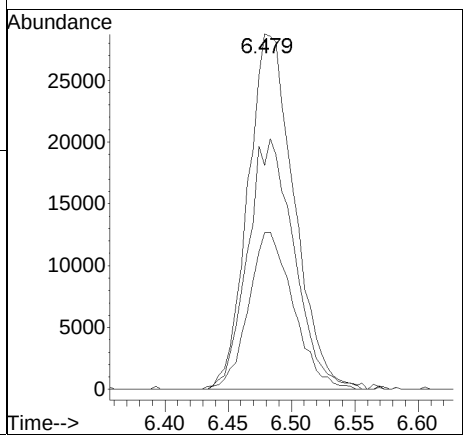


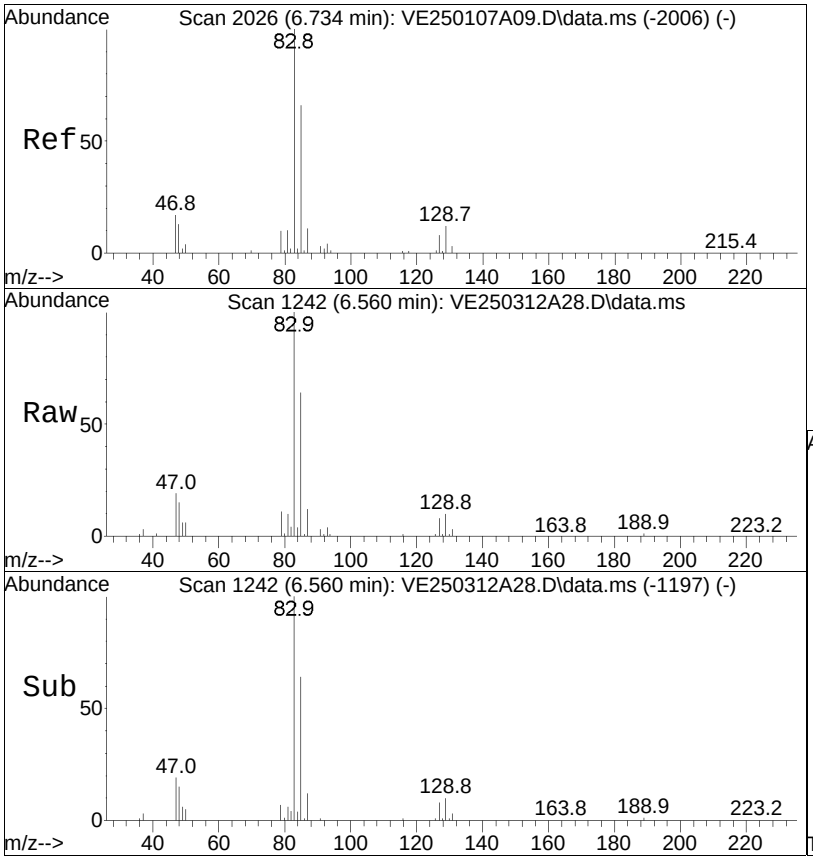


#55
1,2-Dichloropropane
Concen: 11.86 ug/L
RT: 6.479 min Scan# 1224
Delta R.T. -0.007 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion: 63 Resp: 73164

Ion	Ratio	Lower	Upper
63	100		
62	70.9	56.2	84.4
76	42.8	34.8	52.2

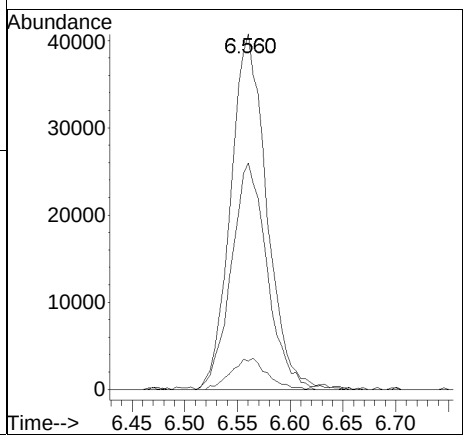


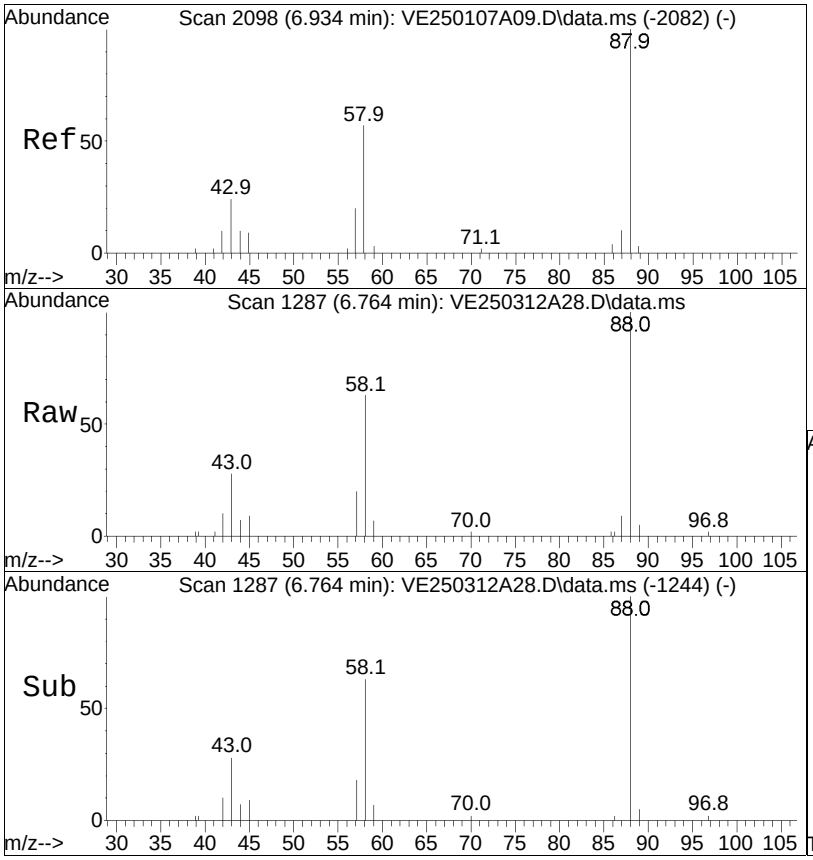


#58
Bromodichloromethane
Concen: 10.94 ug/L
RT: 6.560 min Scan# 1242
Delta R.T. 0.002 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion: 83 Resp: 97001

Ion	Ratio	Lower	Upper
83	100		
85	63.8	51.0	76.6
127	8.8	7.0	10.4

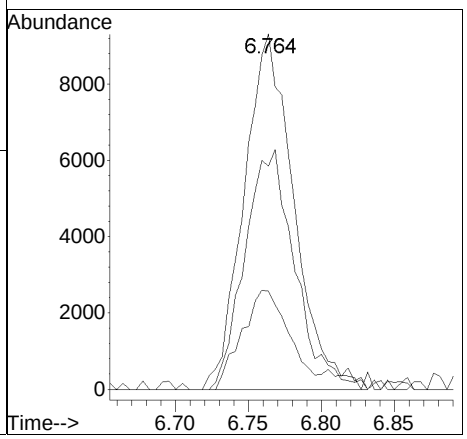


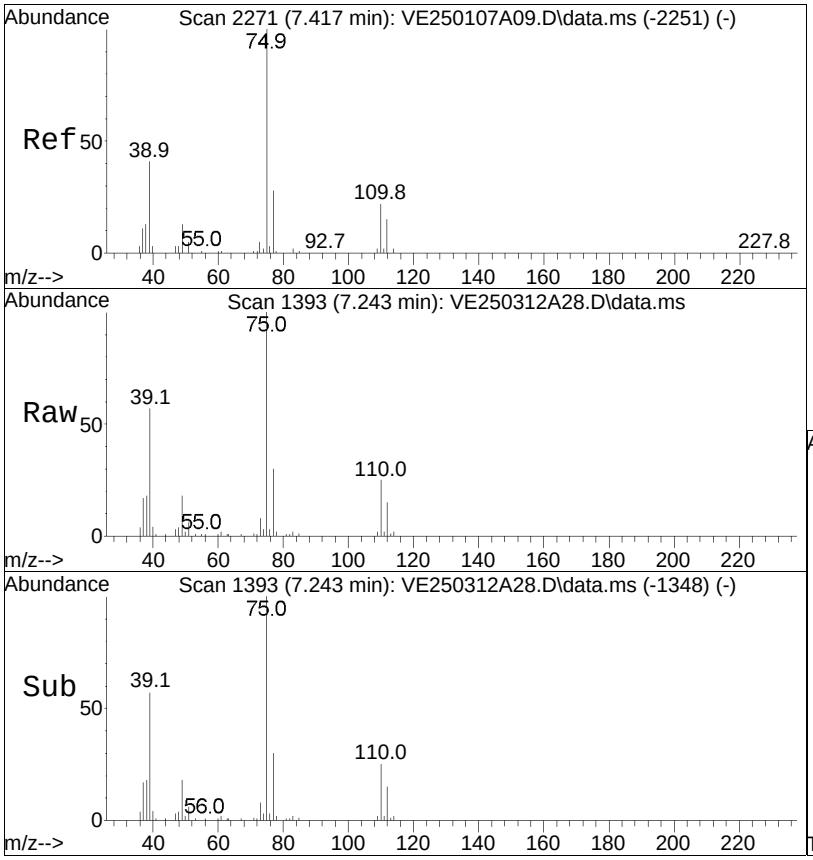


#61
1,4-Dioxane
Concen: 697.37 ug/L
RT: 6.764 min Scan# 1287
Delta R.T. -0.004 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion: 88 Resp: 22163

Ion	Ratio	Lower	Upper
88	100		
58	67.7	49.4	74.0
43	29.2	20.9	31.3

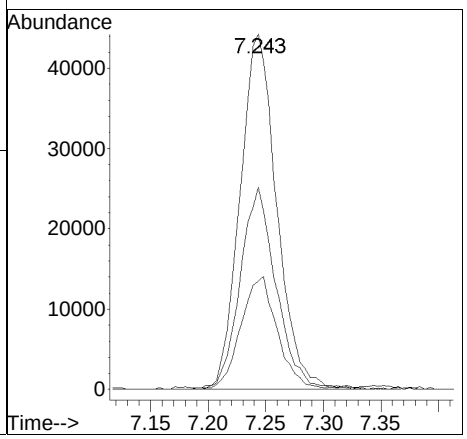


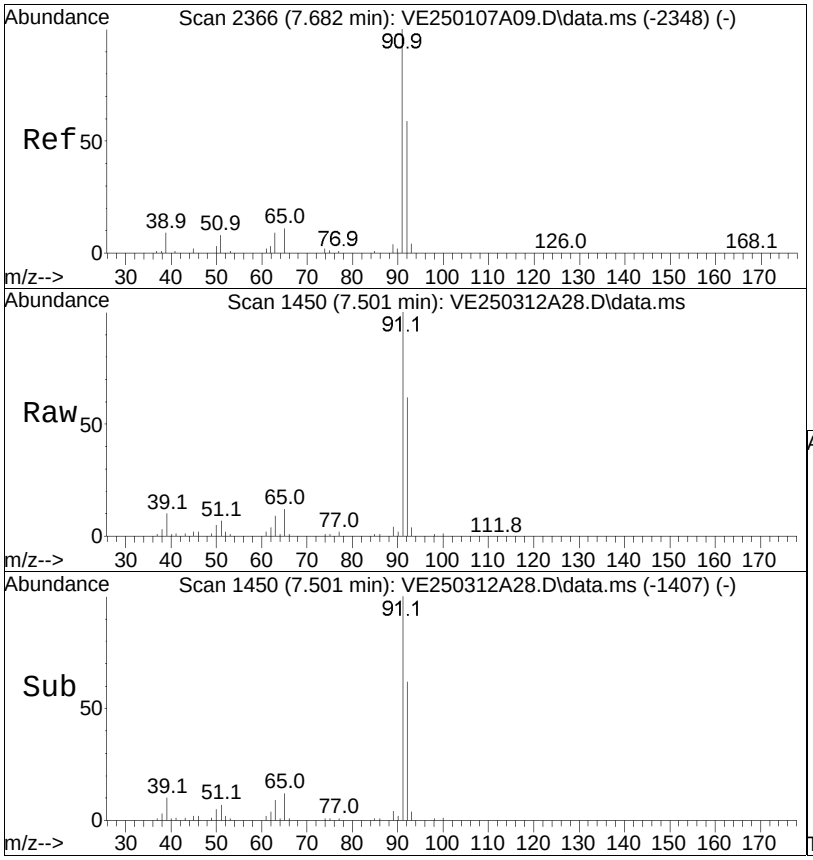


#62
cis-1,3-Dichloropropene
Concen: 10.25 ug/L
RT: 7.243 min Scan# 1393
Delta R.T. 0.002 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion: 75 Resp: 98403

Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.0	37.4
39	56.8	42.9	64.3

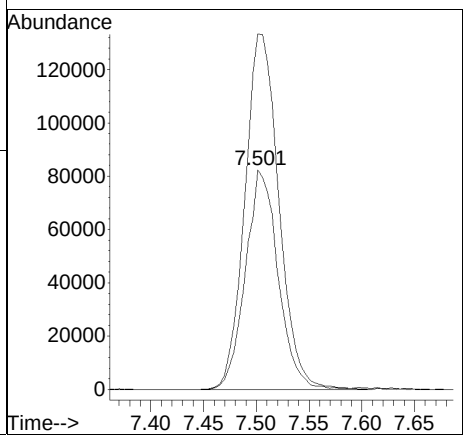


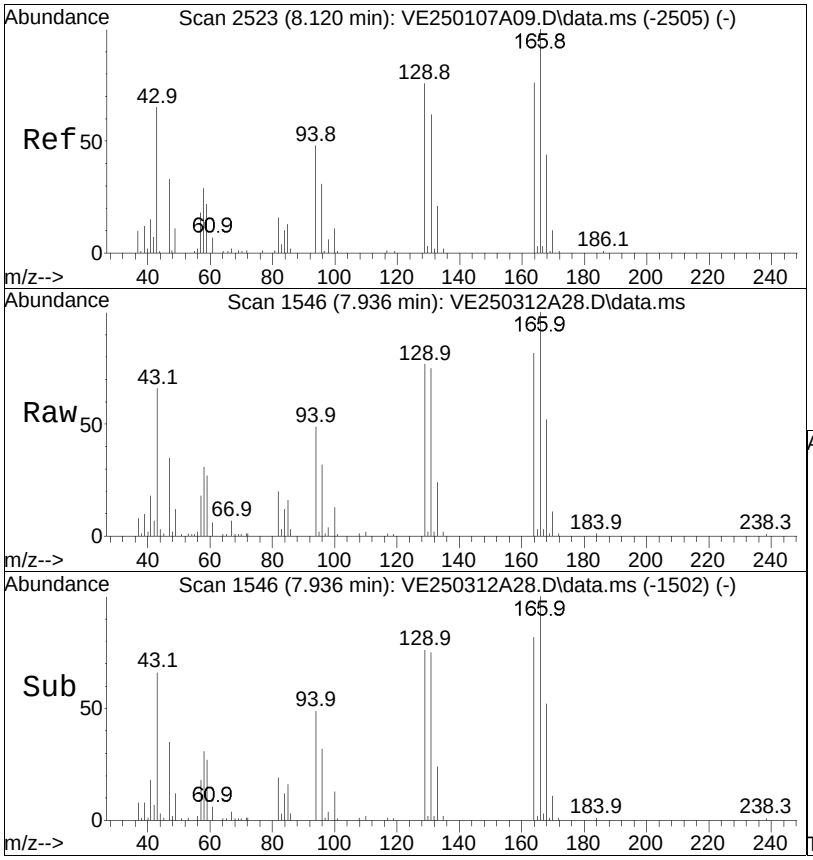


#65
Toluene
Concen: 10.20 ug/L
RT: 7.501 min Scan# 1450
Delta R.T. -0.005 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion: 92 Resp: 177571

Ion	Ratio	Lower	Upper
92	100		
91	169.1	134.8	202.2

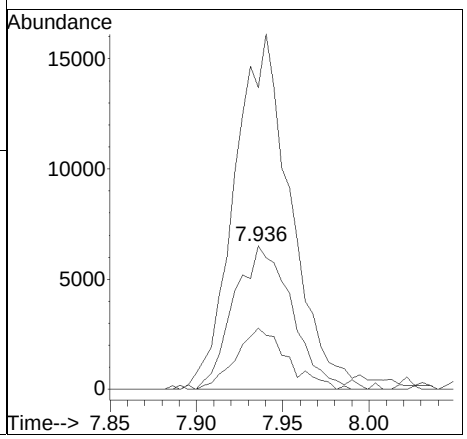


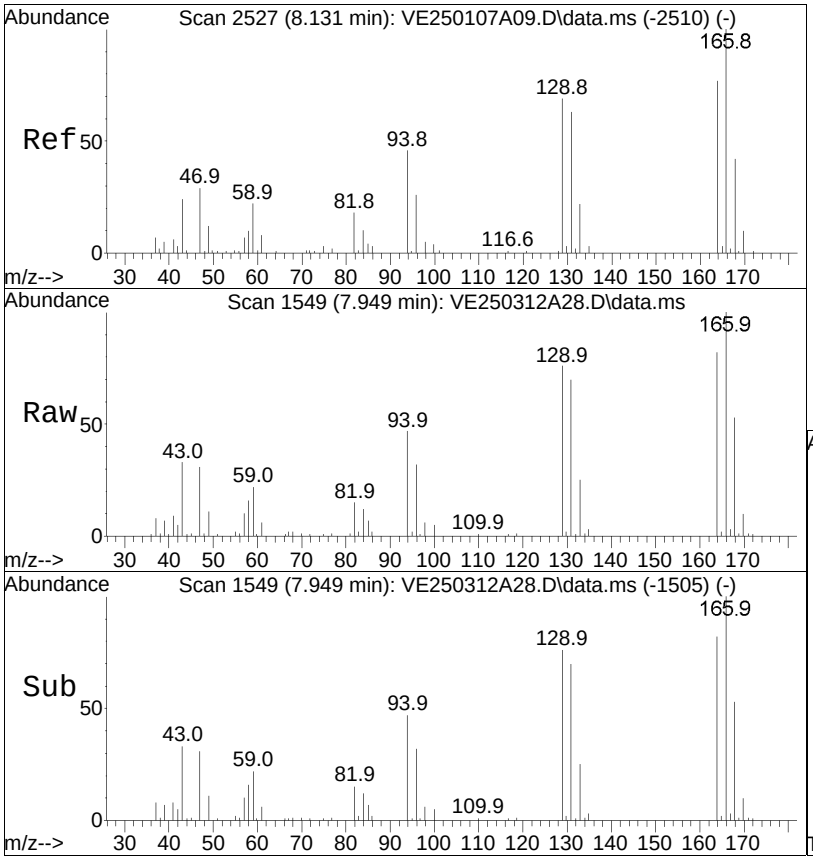


#66
4-Methyl-2-pentanone
Concen: 10.31 ug/L
RT: 7.936 min Scan# 1546
Delta R.T. -0.003 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion: 58 Resp: 15311

Ion	Ratio	Lower	Upper
58	100		
100	38.2	34.8	52.2
43	244.9	201.1	301.7

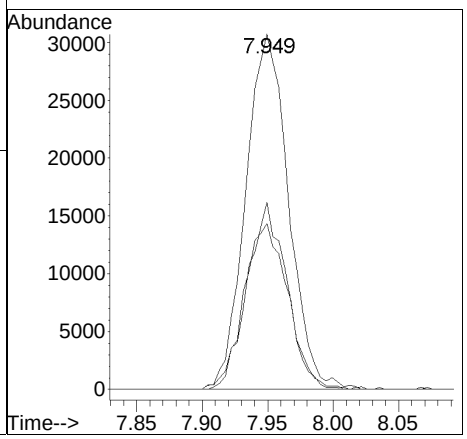


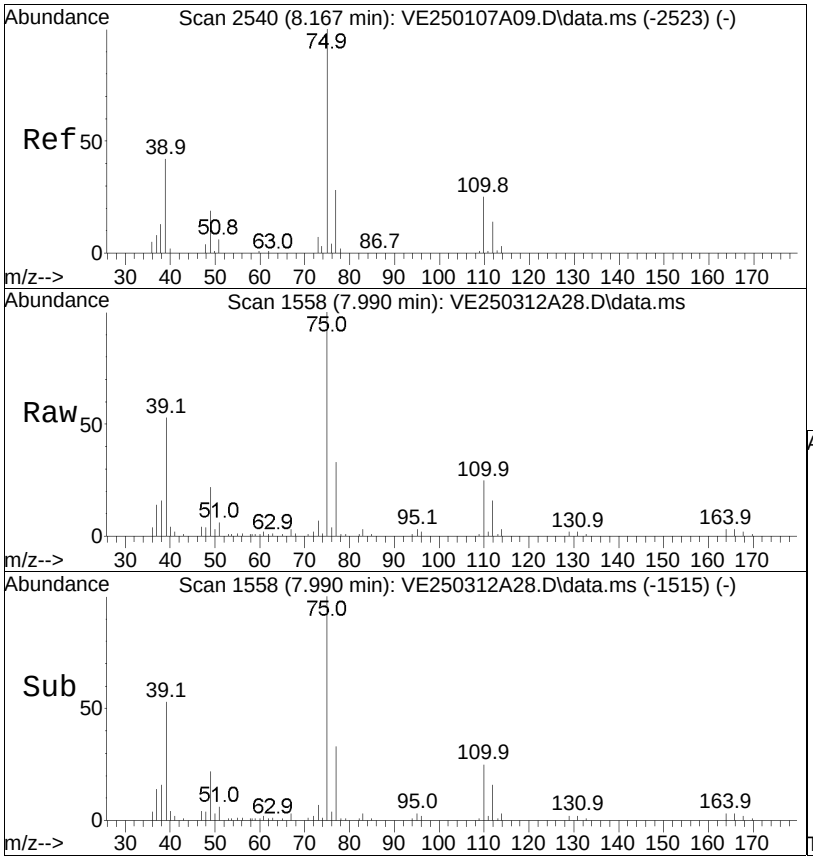


#67
Tetrachloroethene
Concen: 10.46 ug/L
RT: 7.949 min Scan# 1549
Delta R.T. -0.003 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion:166 Resp: 70052

Ion	Ratio	Lower	Upper
166	100		
168	48.7	28.3	68.3
94	47.5	27.4	67.4

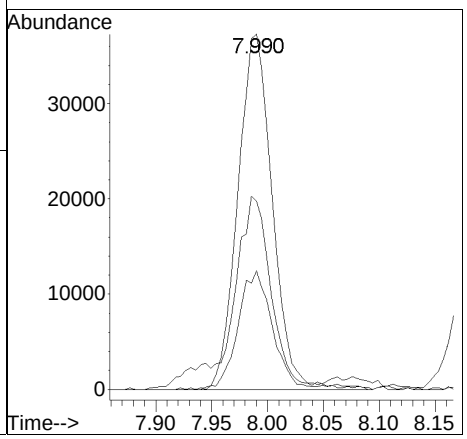


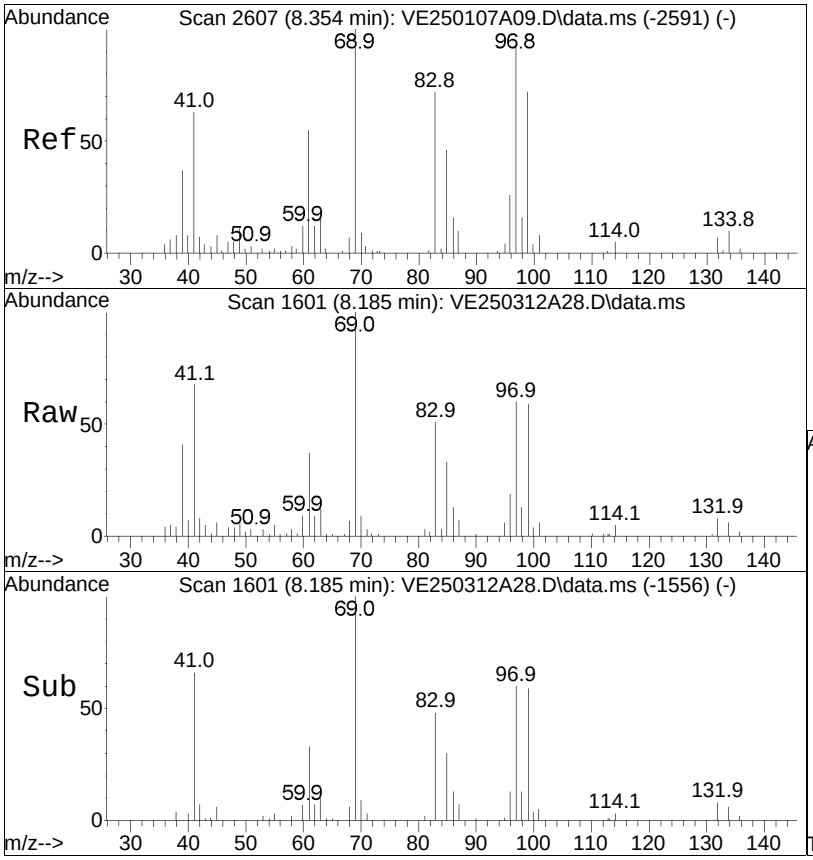


#69
trans-1,3-Dichloropropene
Concen: 9.53 ug/L
RT: 7.990 min Scan# 1558
Delta R.T. -0.004 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion: 75 Resp: 80245

Ion	Ratio	Lower	Upper
75	100		
77	34.3	11.5	51.5
39	55.2	29.6	69.6

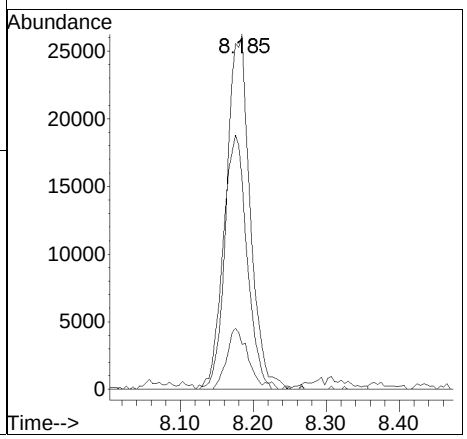


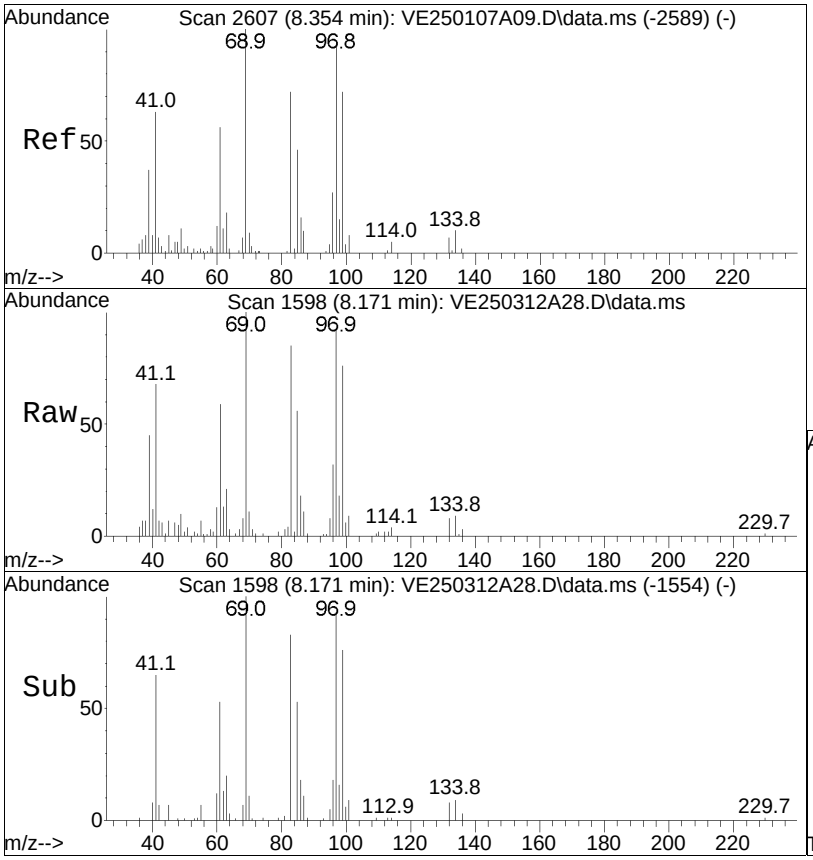


#71
Ethyl methacrylate
Concen: 10.31 ug/L
RT: 8.185 min Scan# 1601
Delta R.T. 0.004 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion: 69 Resp: 61272

Ion	Ratio	Lower	Upper
69	100		
99	70.3	46.3	86.3
86	14.9	0.0	36.5

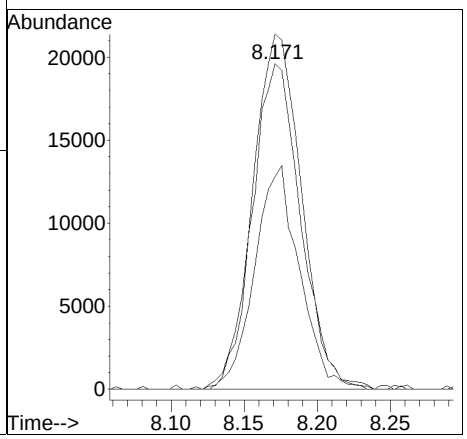


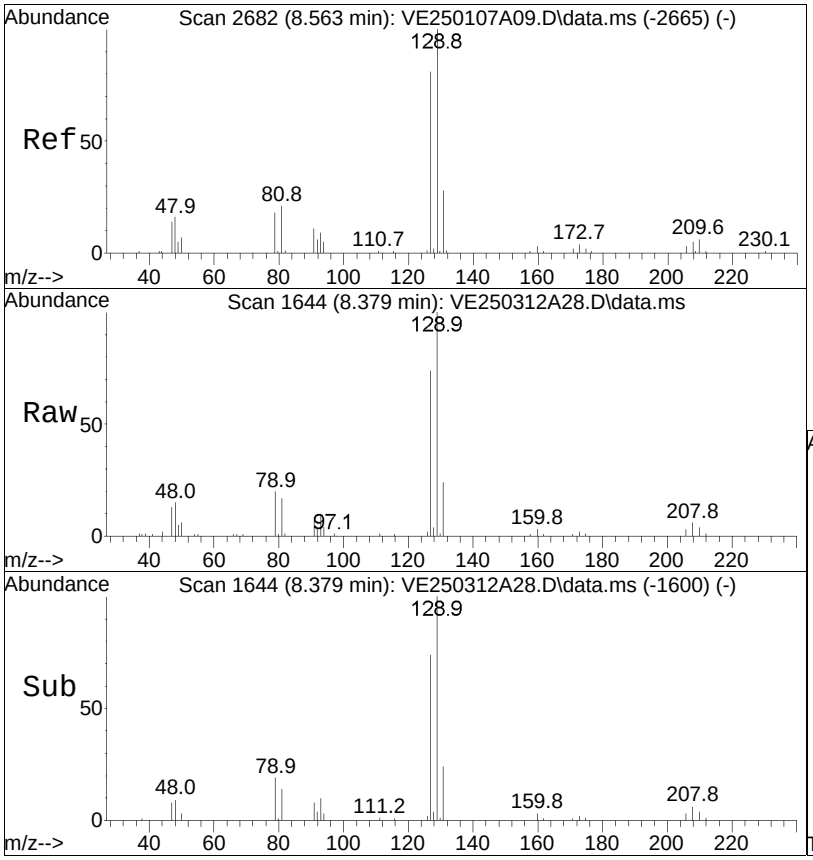


#72
1,1,2-Trichloroethane
Concen: 10.25 ug/L
RT: 8.171 min Scan# 1598
Delta R.T. -0.002 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion: 83 Resp: 44806

Ion	Ratio	Lower	Upper
83	100		
97	111.8	96.9	136.9
85	64.5	46.7	86.7

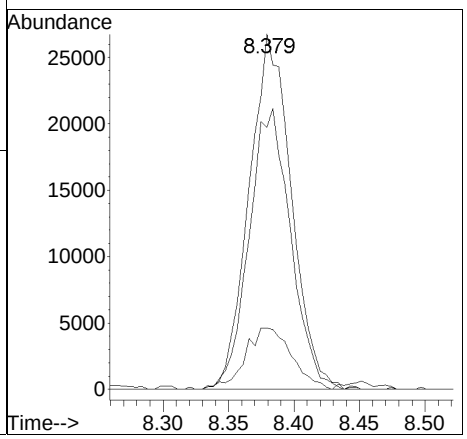


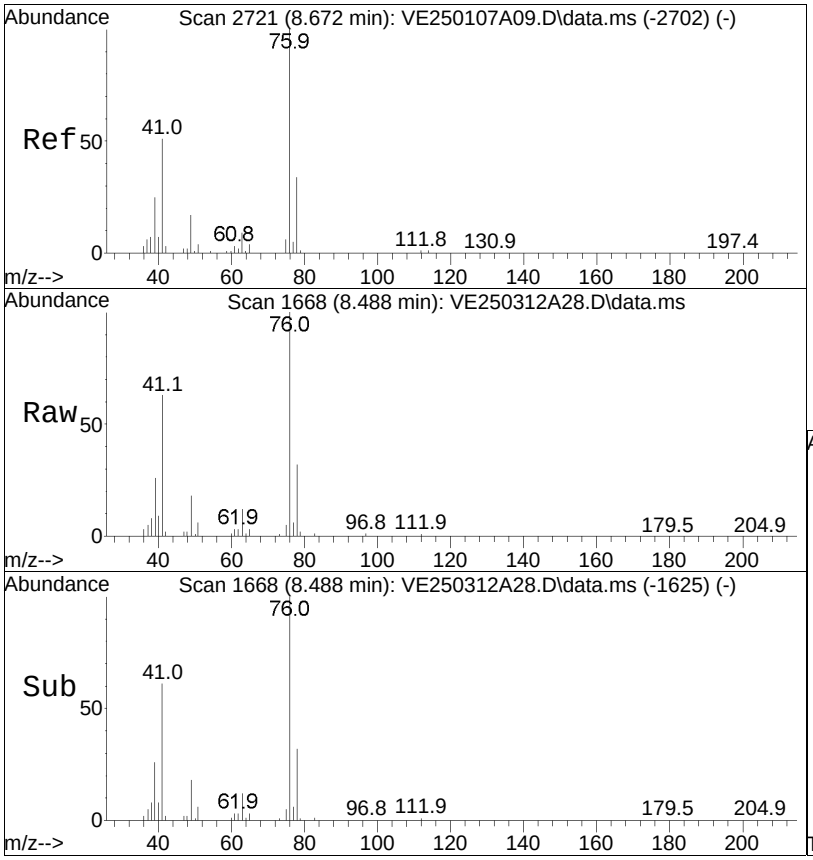


#73
Chlorodibromomethane
Concen: 9.89 ug/L
RT: 8.379 min Scan# 1644
Delta R.T. -0.003 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion:129 Resp: 60138

Ion	Ratio	Lower	Upper
129	100		
81	19.0	0.9	40.9
127	77.9	56.5	96.5

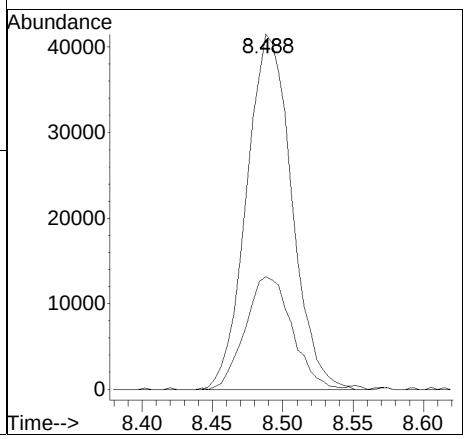


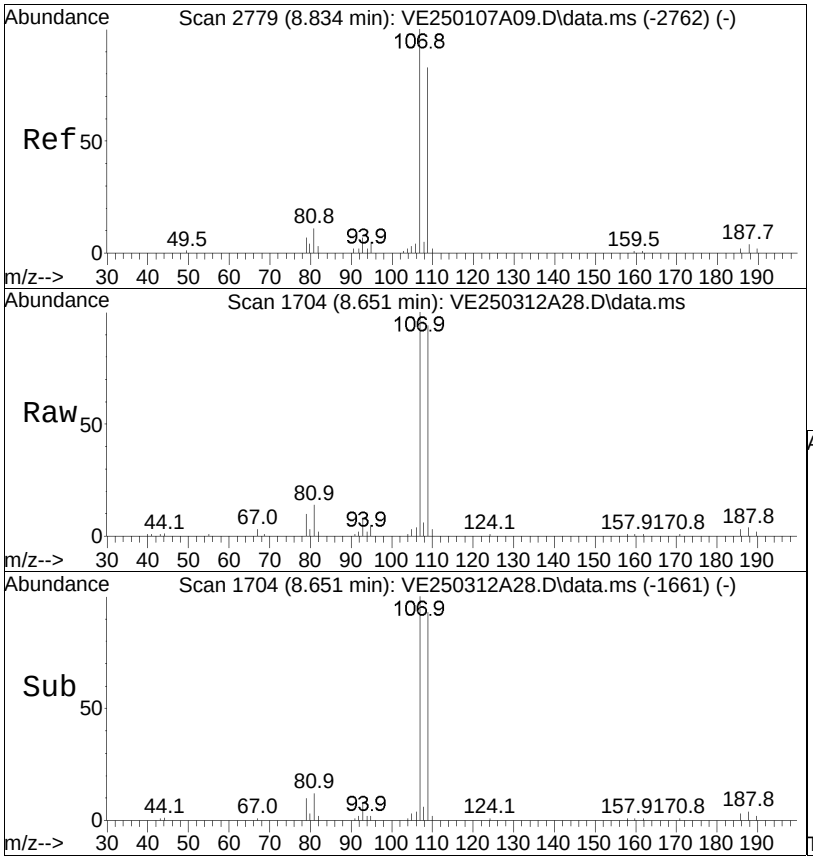


#74
1,3-Dichloropropane
Concen: 10.26 ug/L
RT: 8.488 min Scan# 1668
Delta R.T. -0.006 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion: 76 Resp: 92733

Ion	Ratio	Lower	Upper
76	100		
78	32.9	25.8	38.6

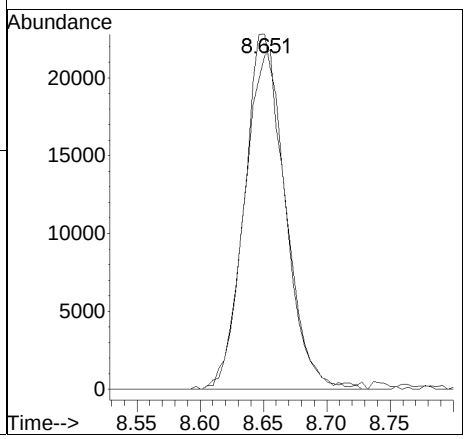


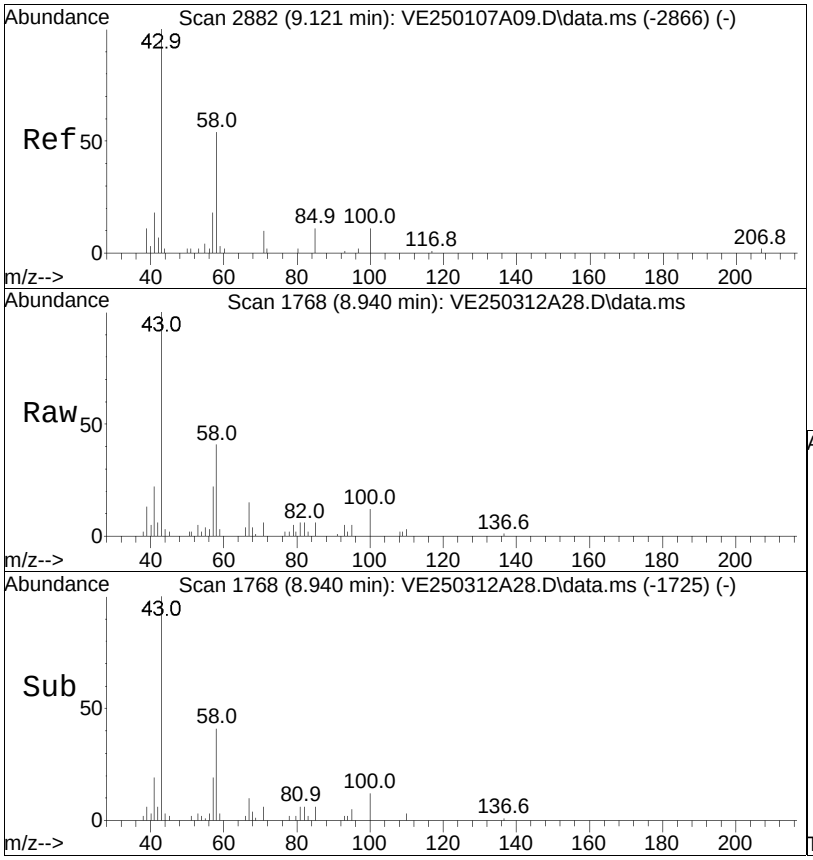


#75
1,2-Dibromoethane
Concen: 10.31 ug/L
RT: 8.651 min Scan# 1704
Delta R.T. -0.004 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion:107 Resp: 51578

Ion	Ratio	Lower	Upper
107	100		
109	95.7	72.7	109.1

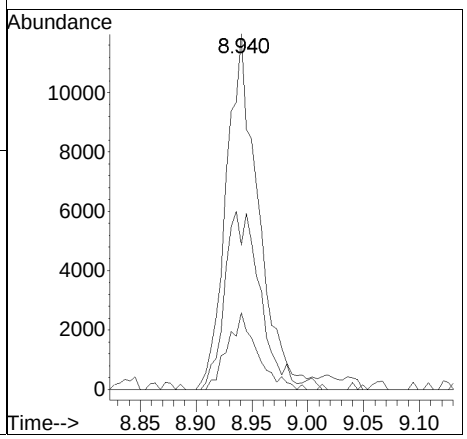


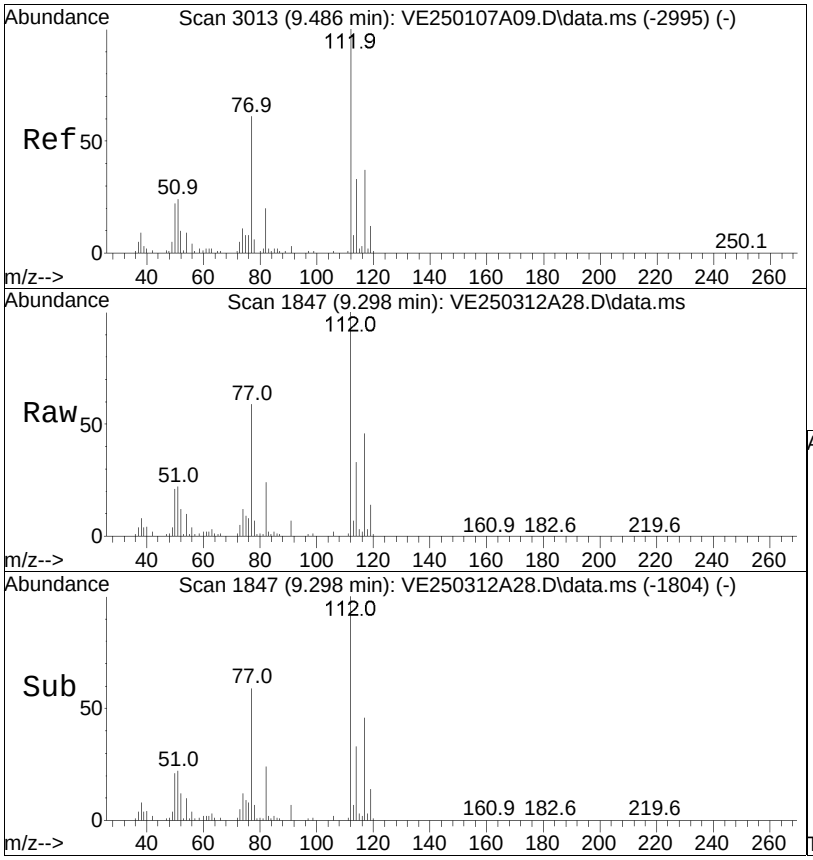


#77
2-Hexanone
Concen: 10.52 ug/L
RT: 8.940 min Scan# 1768
Delta R.T. -0.005 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion: 43 Resp: 24885

Ion	Ratio	Lower	Upper
43	100		
58	53.9	42.7	64.1
57	19.3	15.5	23.3

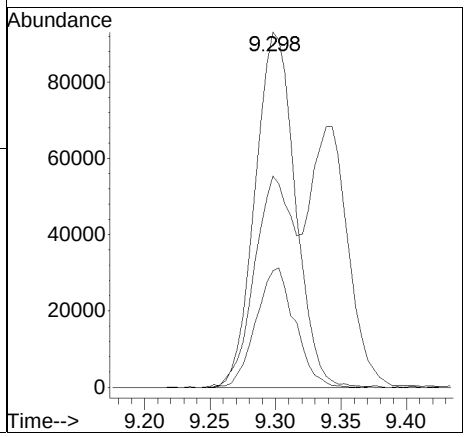


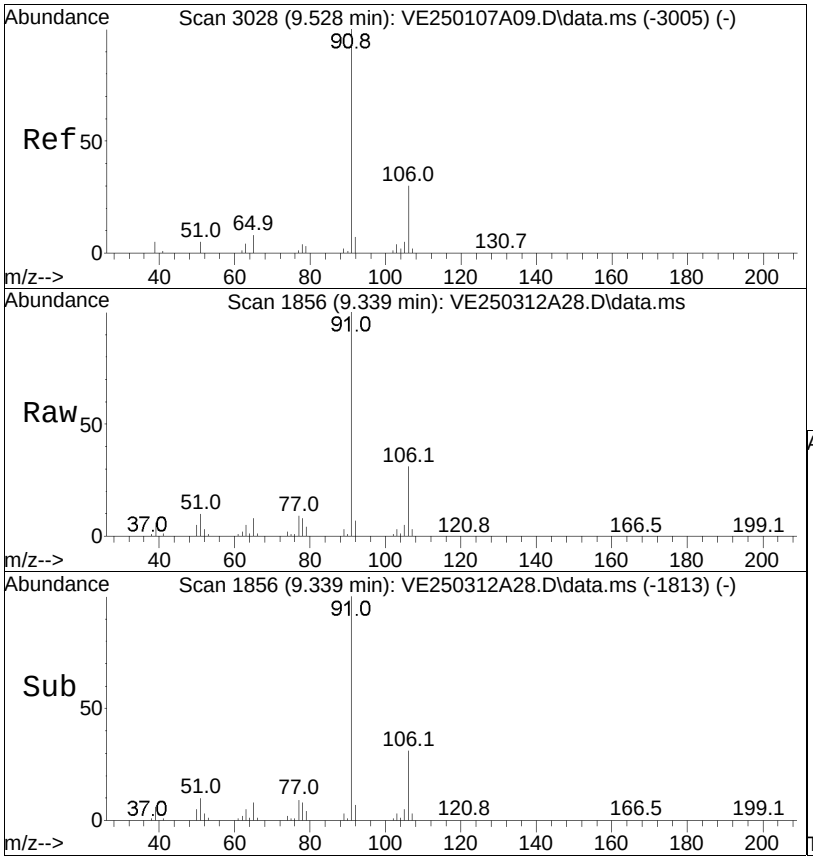


#78
Chlorobenzene
Concen: 10.03 ug/L
RT: 9.298 min Scan# 1847
Delta R.T. -0.004 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion:112 Resp: 198520

Ion	Ratio	Lower	Upper
112	100		
77	130.7	56.4	84.6#
114	32.6	25.8	38.6

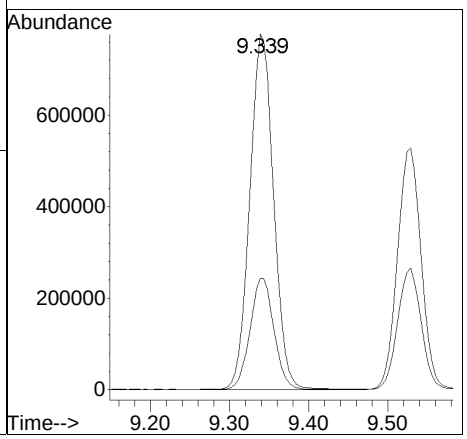


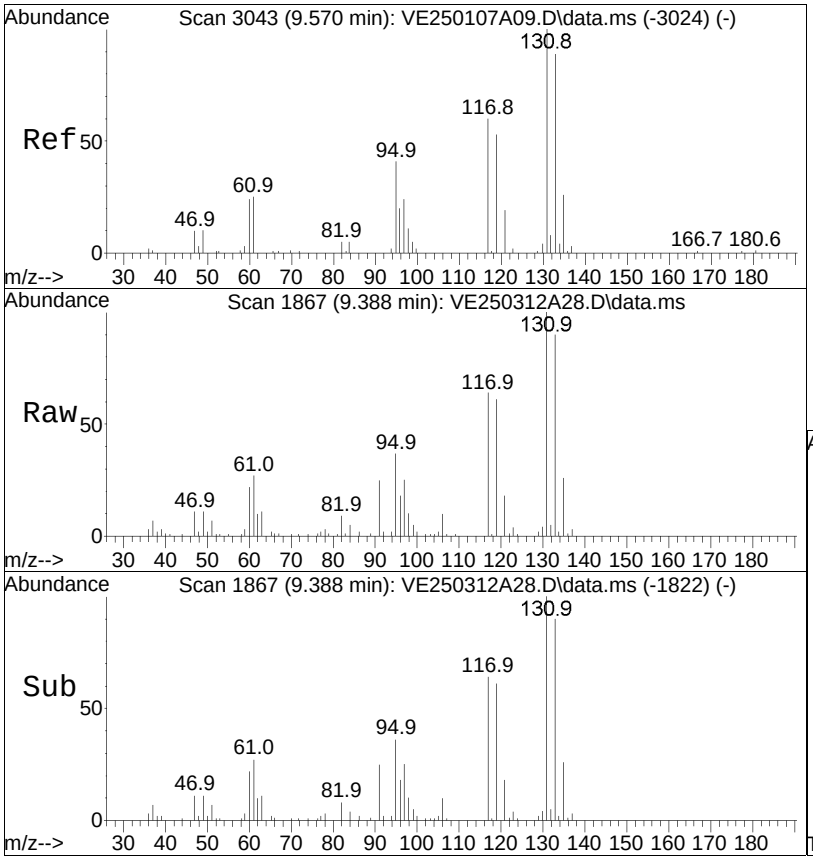


#79
Ethylbenzene
Concen: 46.58 ug/L
RT: 9.339 min Scan# 1856
Delta R.T. -0.005 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion: 91 Resp: 1623036

Ion	Ratio	Lower	Upper
91	100		
106	31.4	25.4	38.2

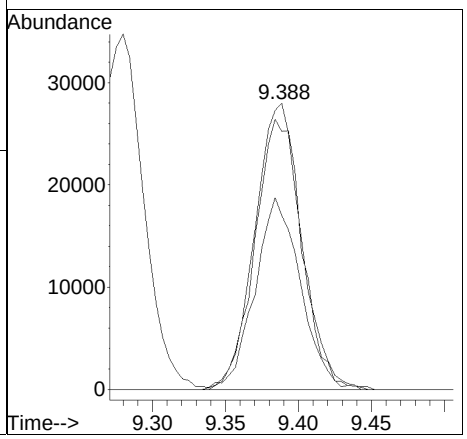


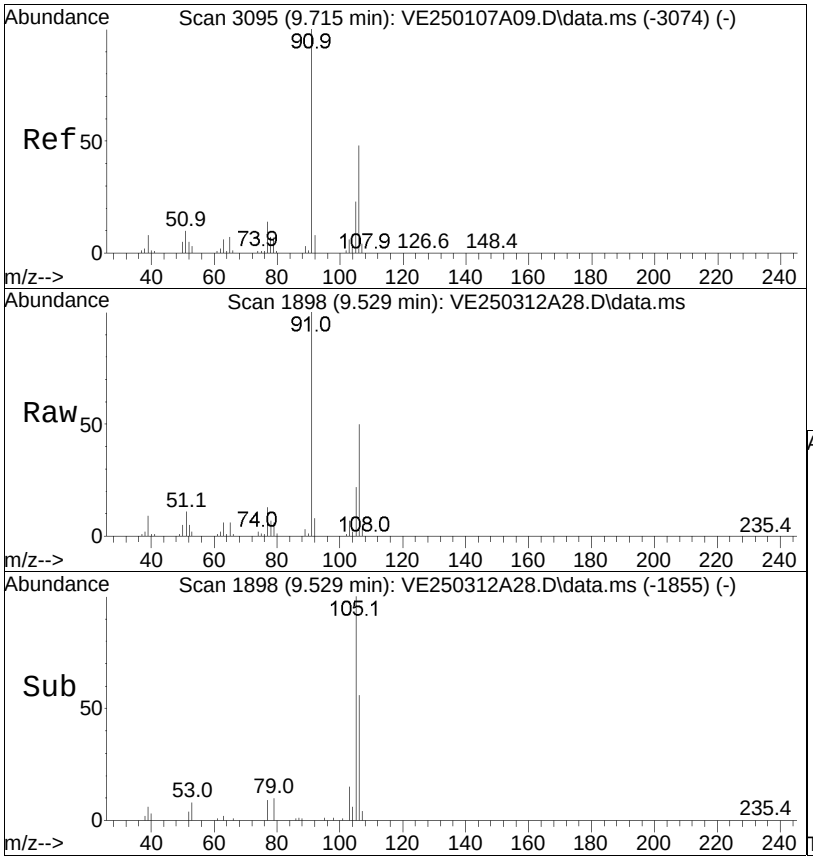


#80
1,1,1,2-Tetrachloroethane
Concen: 10.08 ug/L
RT: 9.388 min Scan# 1867
Delta R.T. 0.003 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion:131 Resp: 62233

Ion	Ratio	Lower	Upper
131	100		
133	95.0	75.3	115.3
119	65.4	45.6	85.6

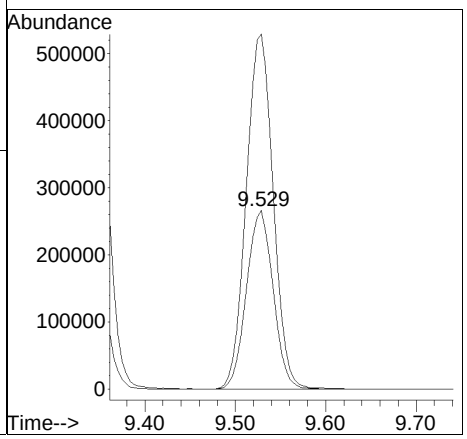


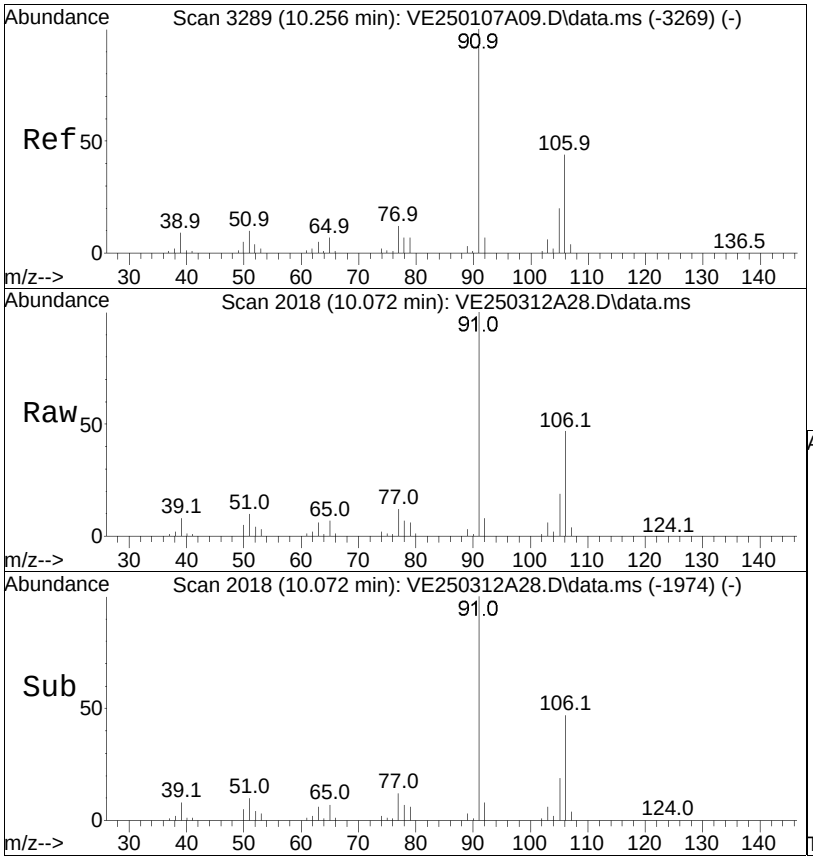


#81
p/m Xylene
Concen: 38.46 ug/L
RT: 9.529 min Scan# 1898
Delta R.T. -0.002 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion:106 Resp: 548185

Ion	Ratio	Lower	Upper
106	100		
91	200.9	158.3	237.5

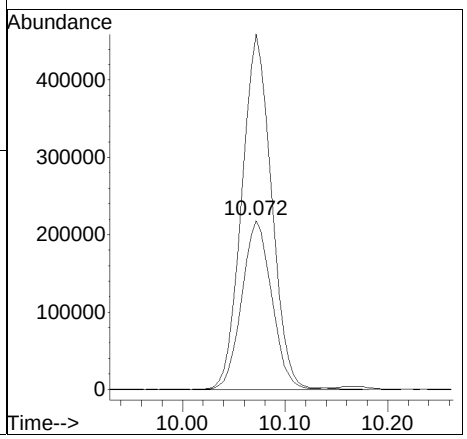


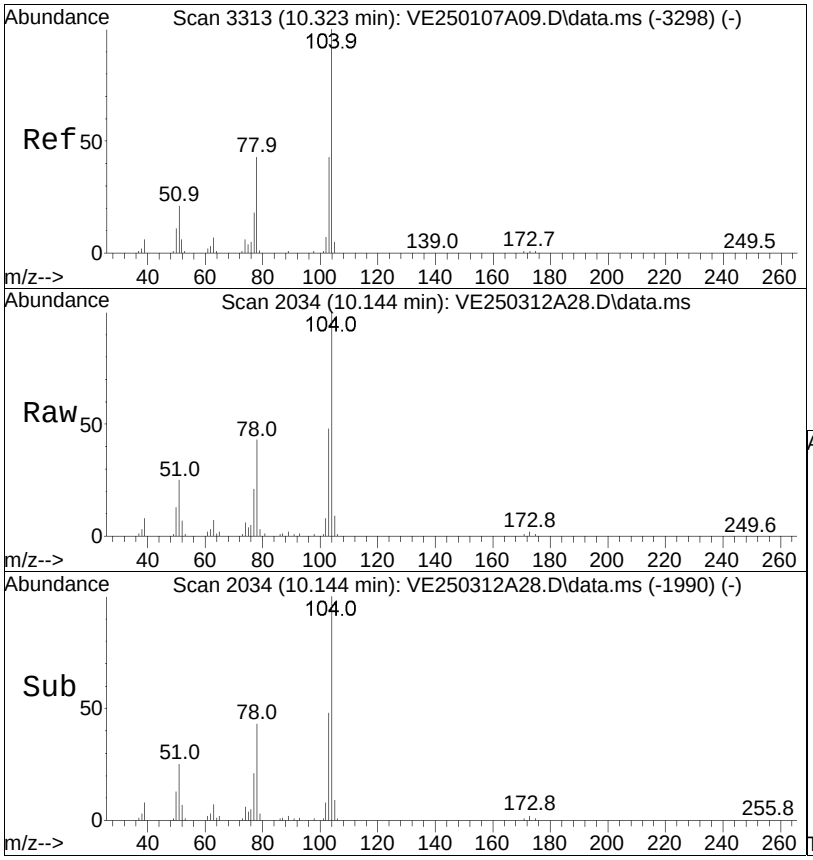


#82
o Xylene
Concen: 31.24 ug/L
RT: 10.072 min Scan# 2018
Delta R.T. -0.003 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion:106 Resp: 443227

Ion	Ratio	Lower	Upper
106	100		
91	210.8	168.7	253.1

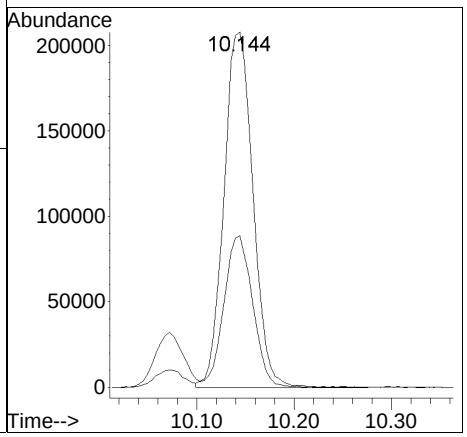


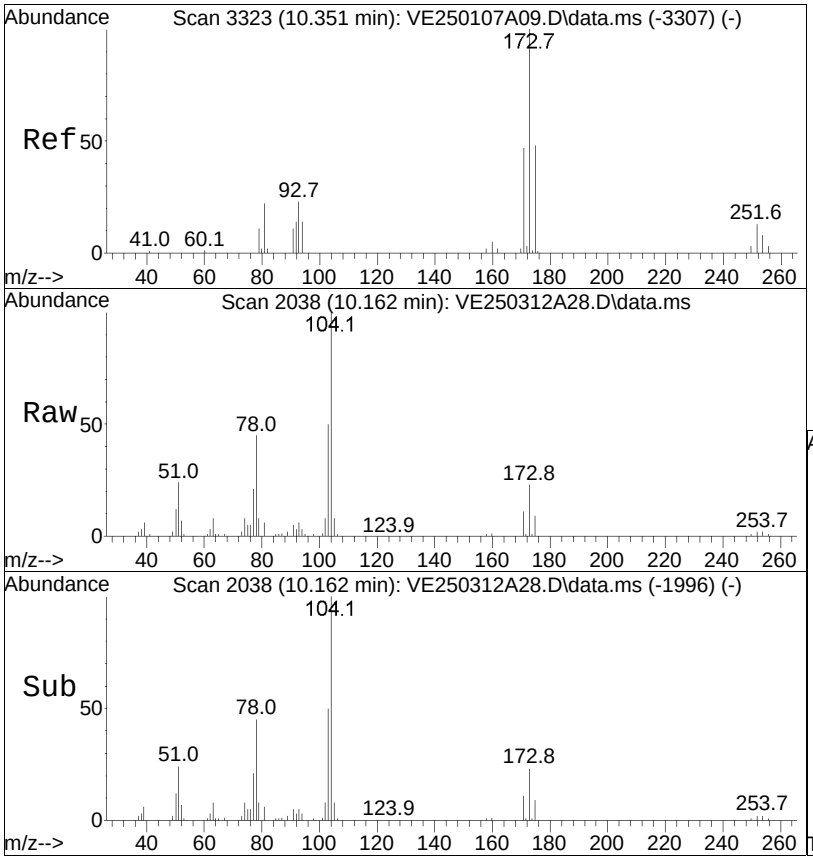


#83
Styrene
Concen: 17.84 ug/L
RT: 10.144 min Scan# 2034
Delta R.T. -0.003 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion:104 Resp: 431103

Ion	Ratio	Lower	Upper
104	100		
78	42.5	32.4	48.6

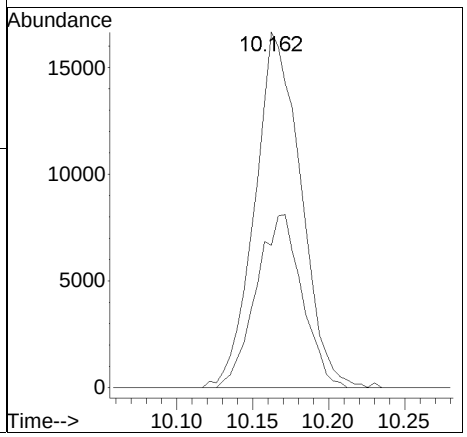


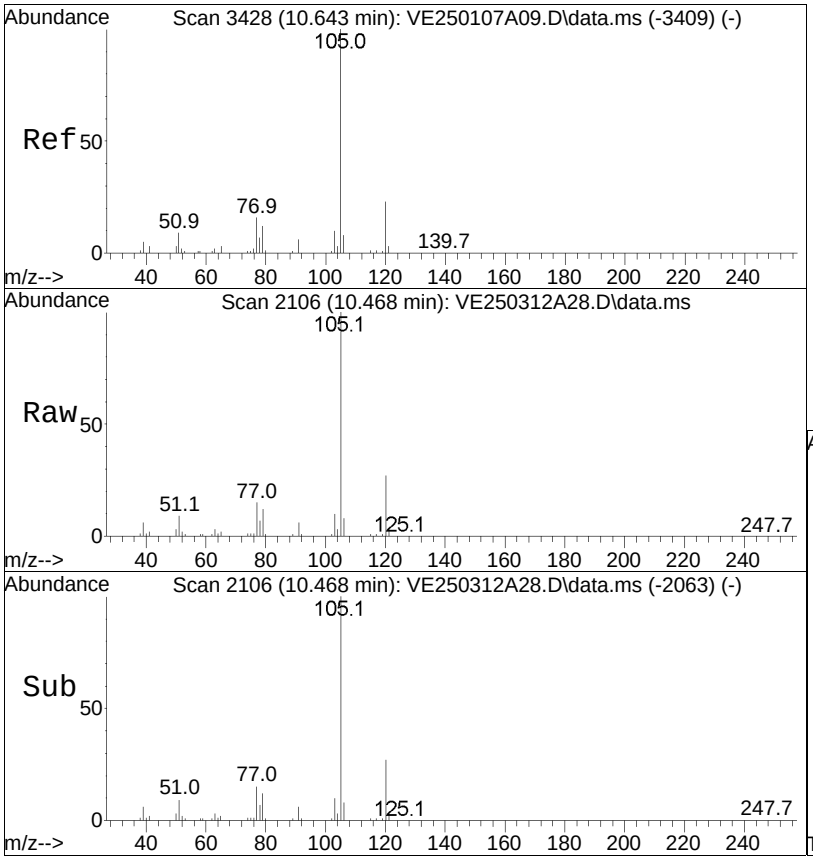


#85
Bromoform
Concen: 9.64 ug/L
RT: 10.162 min Scan# 2038
Delta R.T. -0.010 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion:173 Resp: 35036

Ion	Ratio	Lower	Upper
173	100		
175	48.7	27.0	67.0

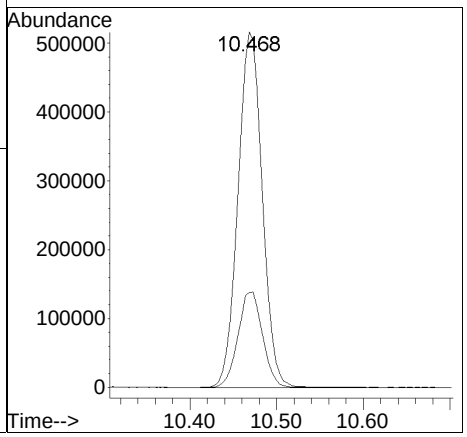


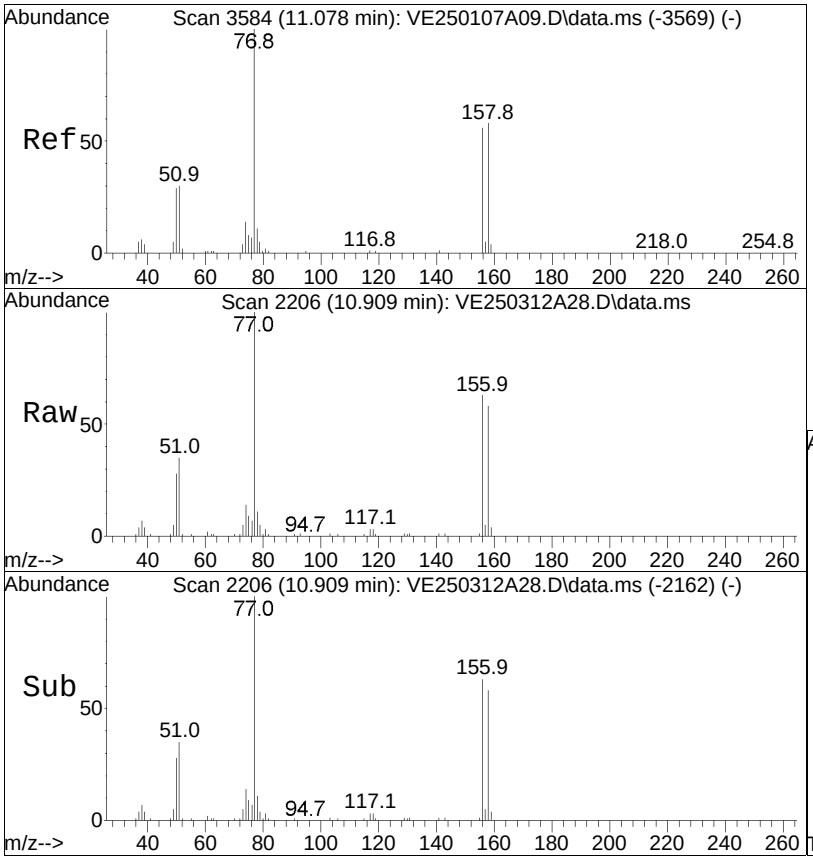


#87
Isopropylbenzene
Concen: 28.31 ug/L
RT: 10.468 min Scan# 2106
Delta R.T. -0.005 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion:105 Resp: 1003791

Ion	Ratio	Lower	Upper
105	100		
120	27.3	6.7	46.7

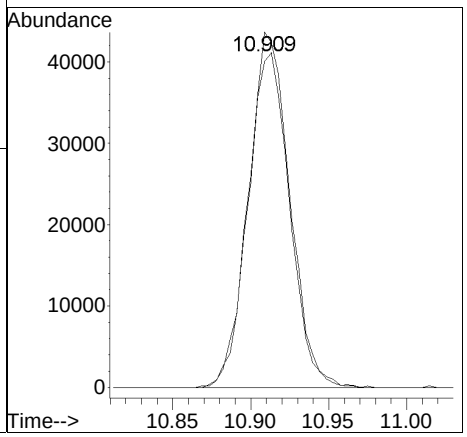


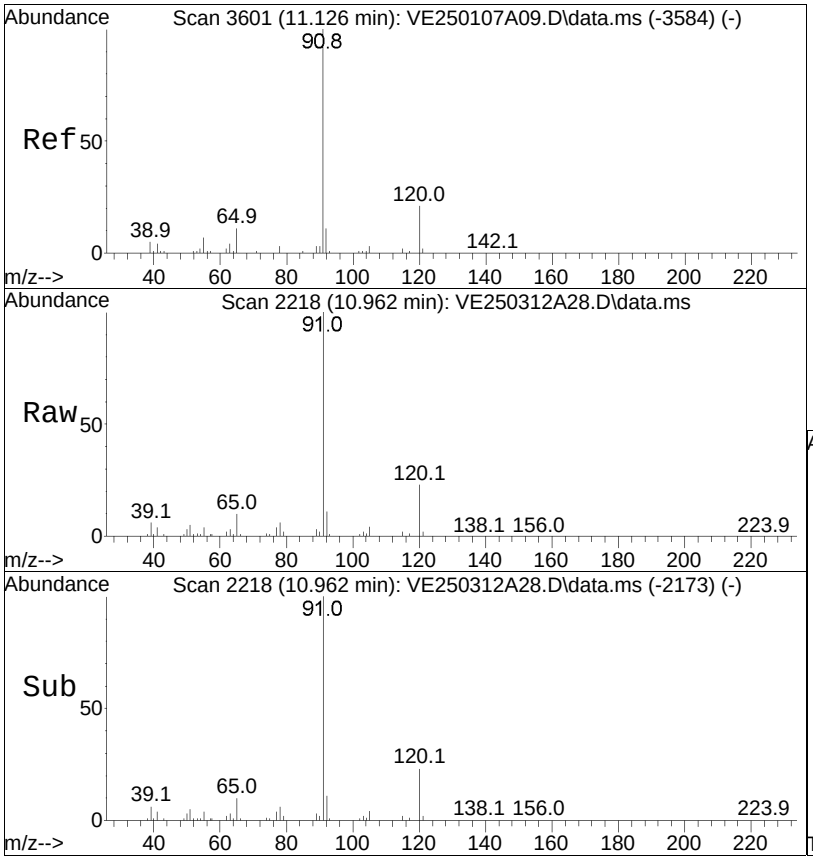


#89
Bromobenzene
Concen: 10.18 ug/L
RT: 10.909 min Scan# 2206
Delta R.T. -0.008 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion:156 Resp: 80522

Ion	Ratio	Lower	Upper
156	100		
158	94.9	77.1	115.7

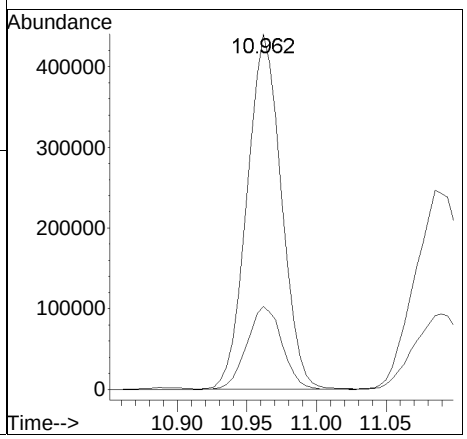


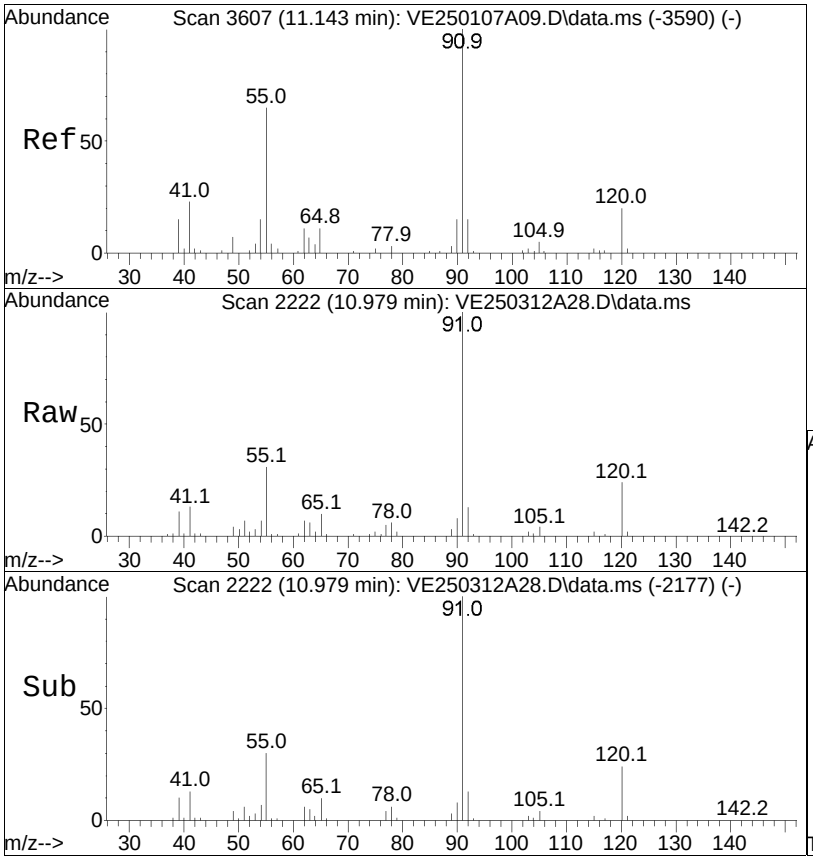


#90
n-Propylbenzene
Concen: 17.61 ug/L
RT: 10.962 min Scan# 2218
Delta R.T. -0.003 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion: 91 Resp: 752384

Ion	Ratio	Lower	Upper
91	100		
120	24.0	18.5	27.7

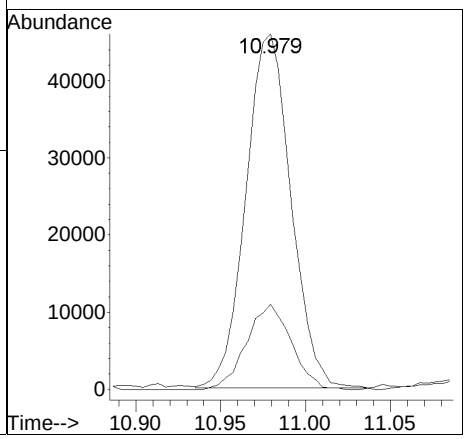


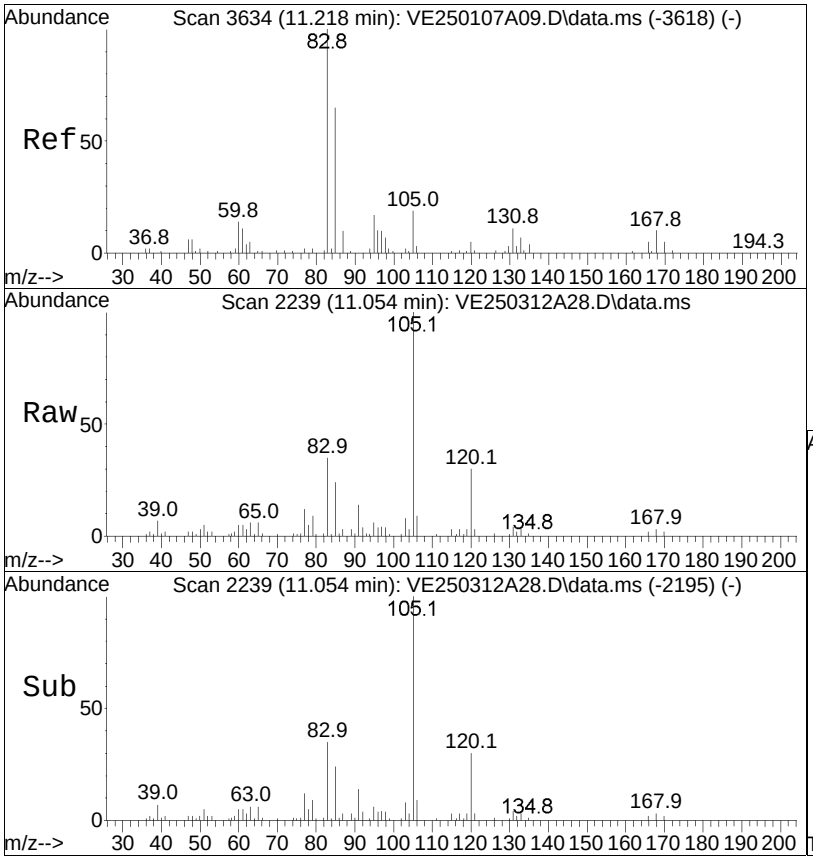


#91
1,4-Dichlorobutane
Concen: 10.86 ug/L
RT: 10.979 min Scan# 2222
Delta R.T. -0.002 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion: 55 Resp: 84789

Ion	Ratio	Lower	Upper
55	100		
54	23.8	17.5	26.3

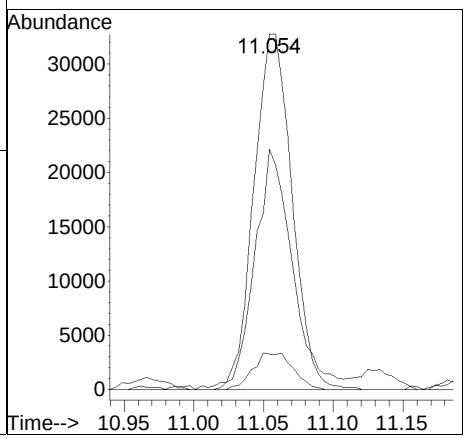


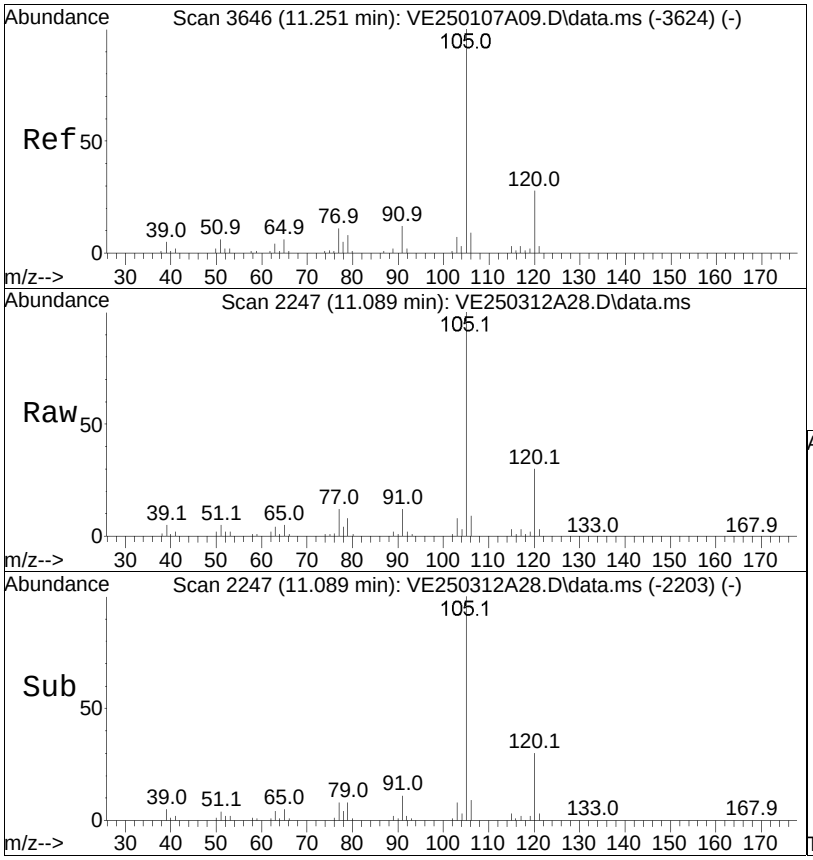


#92
1,1,2,2-Tetrachloroethane
Concen: 10.38 ug/L
RT: 11.054 min Scan# 2239
Delta R.T. -0.008 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion: 83 Resp: 62529

Ion	Ratio	Lower	Upper
83	100		
131	10.7	0.0	30.1
85	71.9	46.3	86.3

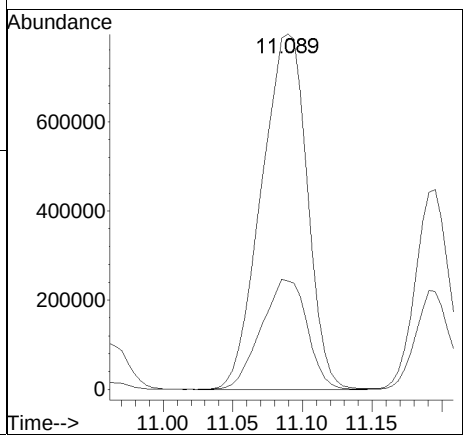


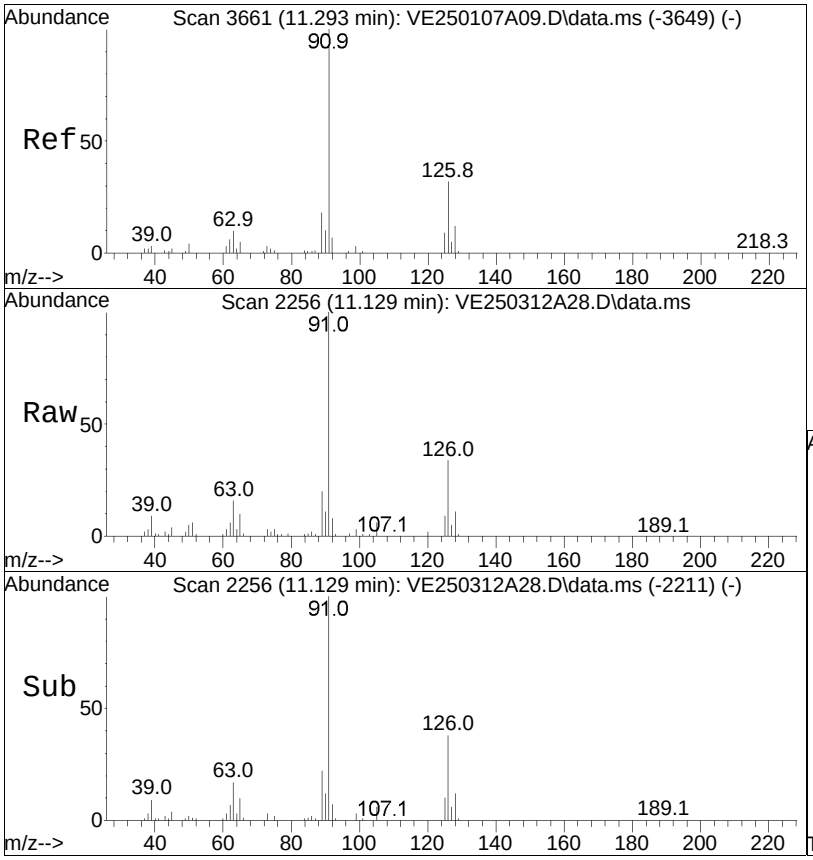


#93
4-Ethyltoluene
Concen: 51.57 ug/L
RT: 11.089 min Scan# 2247
Delta R.T. -0.006 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion:105 Resp: 1821832

Ion	Ratio	Lower	Upper
105	100		
120	31.0	19.2	40.0

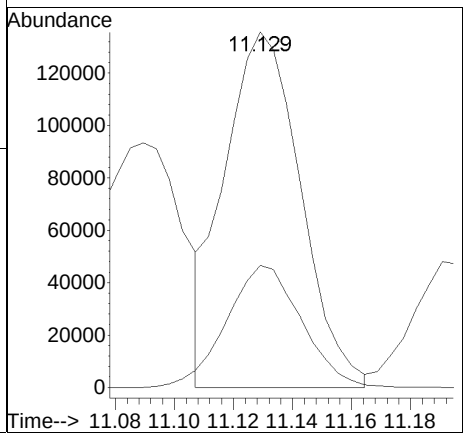


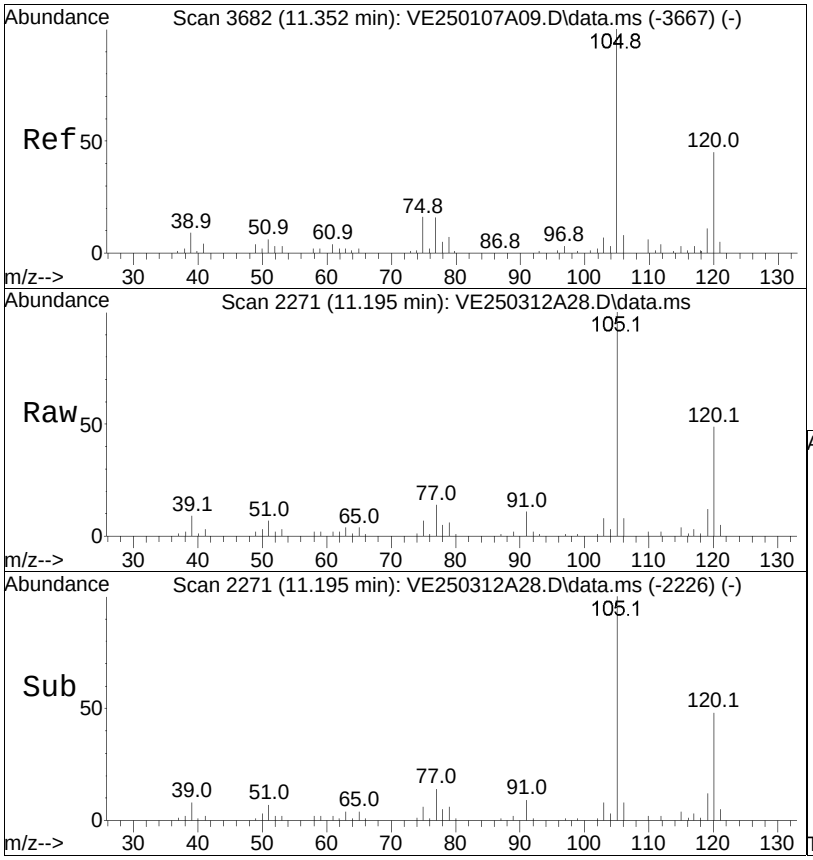


#94
2-Chlorotoluene
Concen: 10.01 ug/L M6
RT: 11.129 min Scan# 2256
Delta R.T. -0.002 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion: 91 Resp: 242842

Ion	Ratio	Lower	Upper
91	100		
126	33.9	28.0	42.0

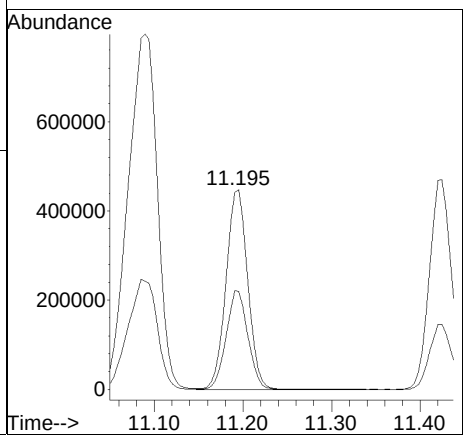


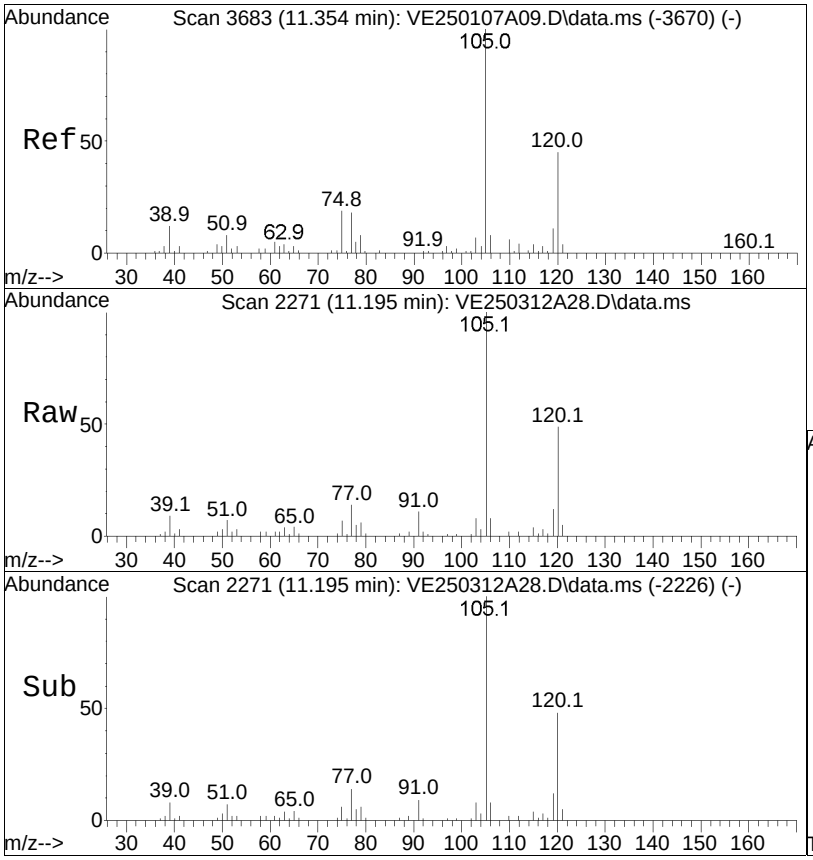


#95
1,3,5-Trimethylbenzene
Concen: 24.20 ug/L
RT: 11.195 min Scan# 2271
Delta R.T. -0.000 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion:105 Resp: 761928

Ion	Ratio	Lower	Upper
105	100		
120	49.3	40.2	60.2

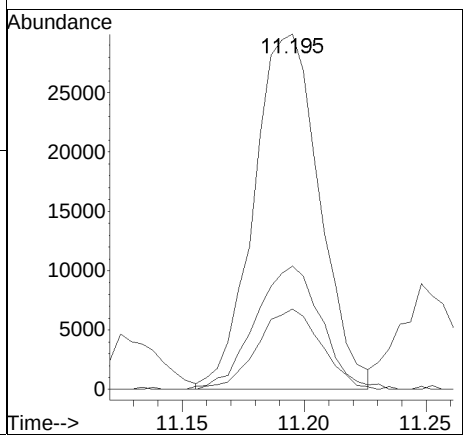


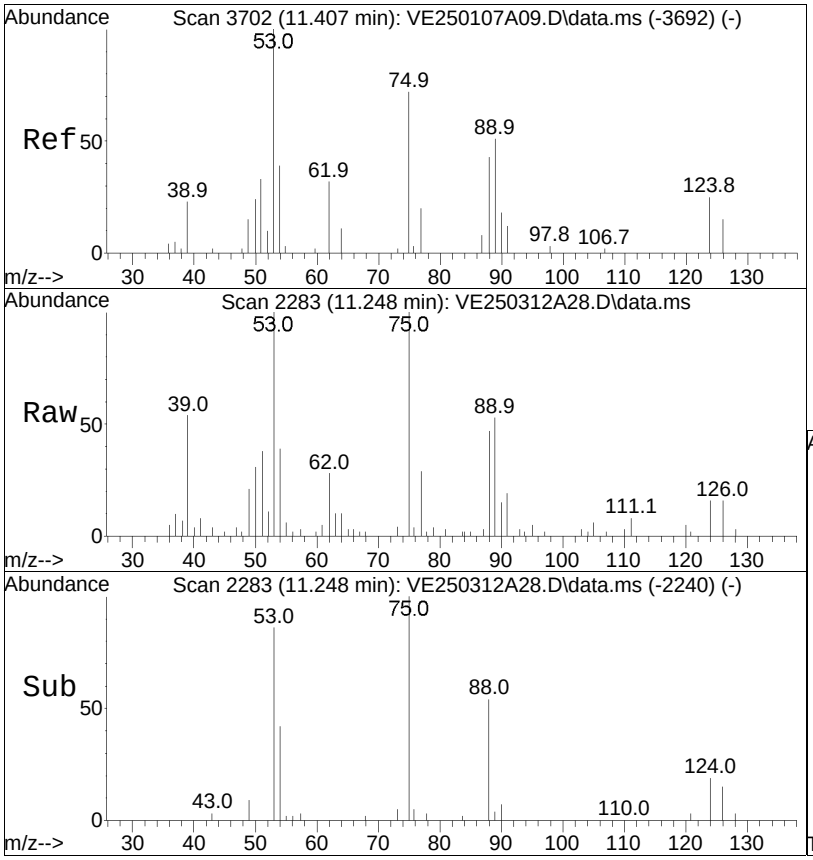


#96
1,2,3-Trichloropropane
Concen: 11.03 ug/L
RT: 11.195 min Scan# 2271
Delta R.T. -0.000 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion: 75 Resp: 56184

Ion	Ratio	Lower	Upper
75	100		
110	34.9	24.4	50.6
112	22.0	15.1	31.5

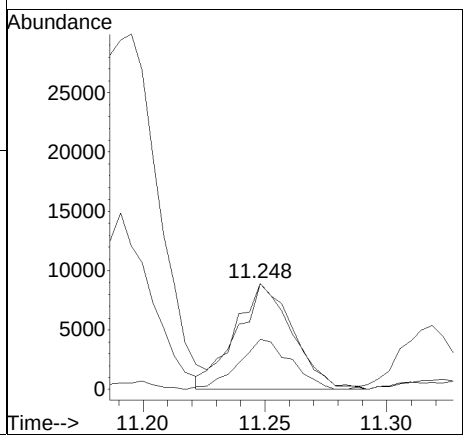


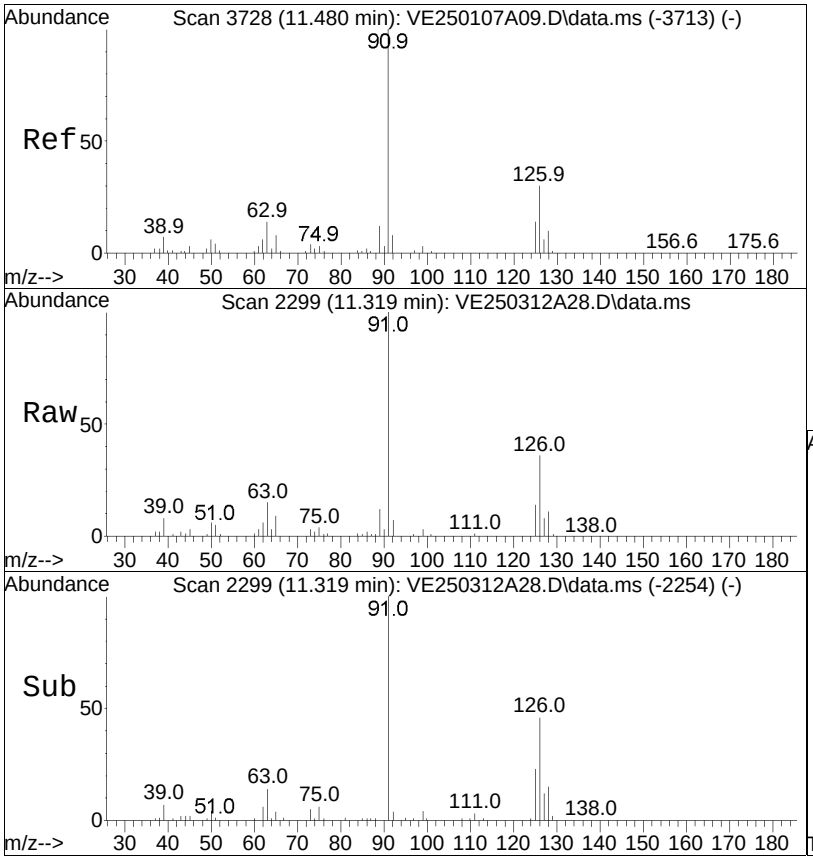


#97
trans-1,4-Dichloro-2-butene
Concen: 8.43 ug/L
RT: 11.248 min Scan# 2283
Delta R.T. -0.009 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion: 53 Resp: 14615

Ion	Ratio	Lower	Upper
53	100		
88	43.4	39.7	59.5
75	92.1	95.8	143.6#

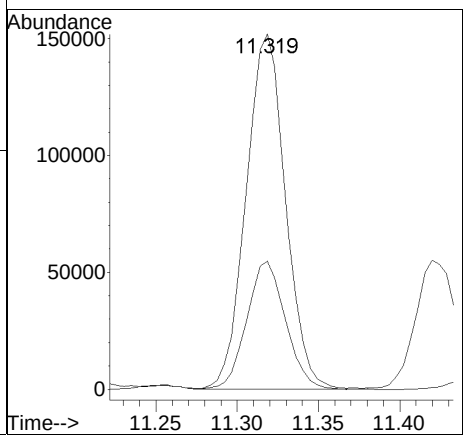


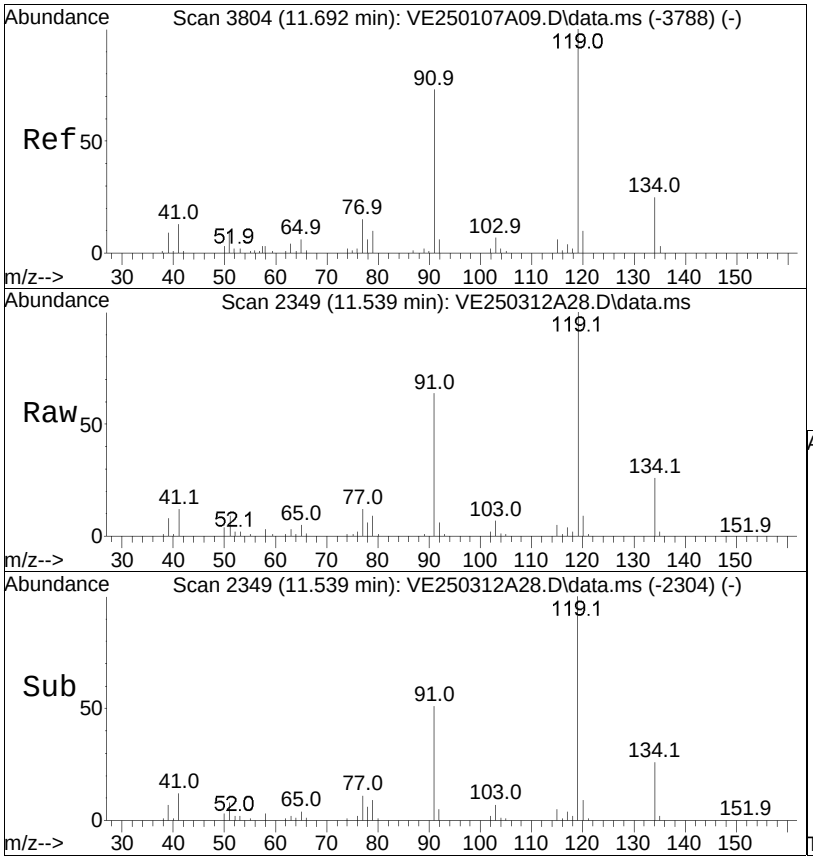


#98
4-Chlorotoluene
Concen: 10.16 ug/L
RT: 11.319 min Scan# 2299
Delta R.T. 0.000 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion: 91 Resp: 255576

Ion	Ratio	Lower	Upper
91	100		
126	35.6	28.2	42.2

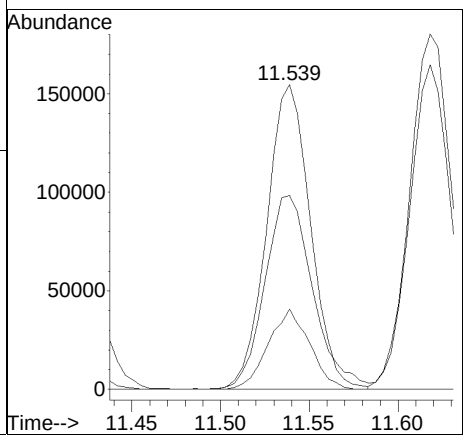


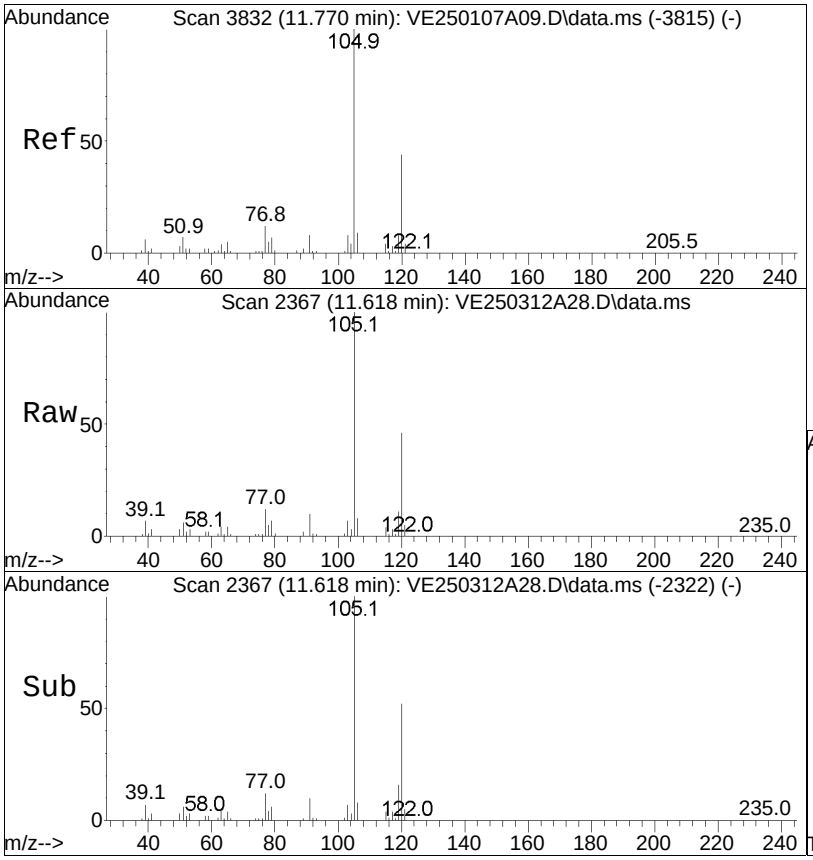


#99
tert-Butylbenzene
Concen: 10.10 ug/L
RT: 11.539 min Scan# 2349
Delta R.T. -0.003 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion:119 Resp: 265016

Ion	Ratio	Lower	Upper
119	100		
91	69.6	51.7	77.5
134	25.0	20.9	31.3

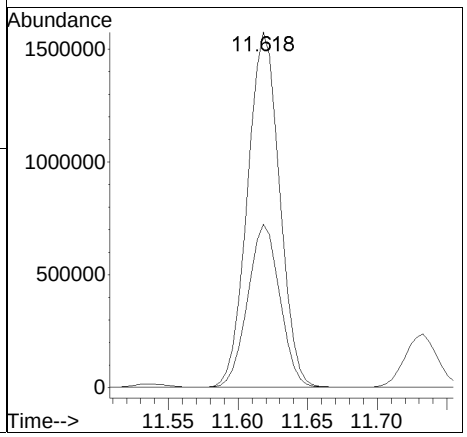


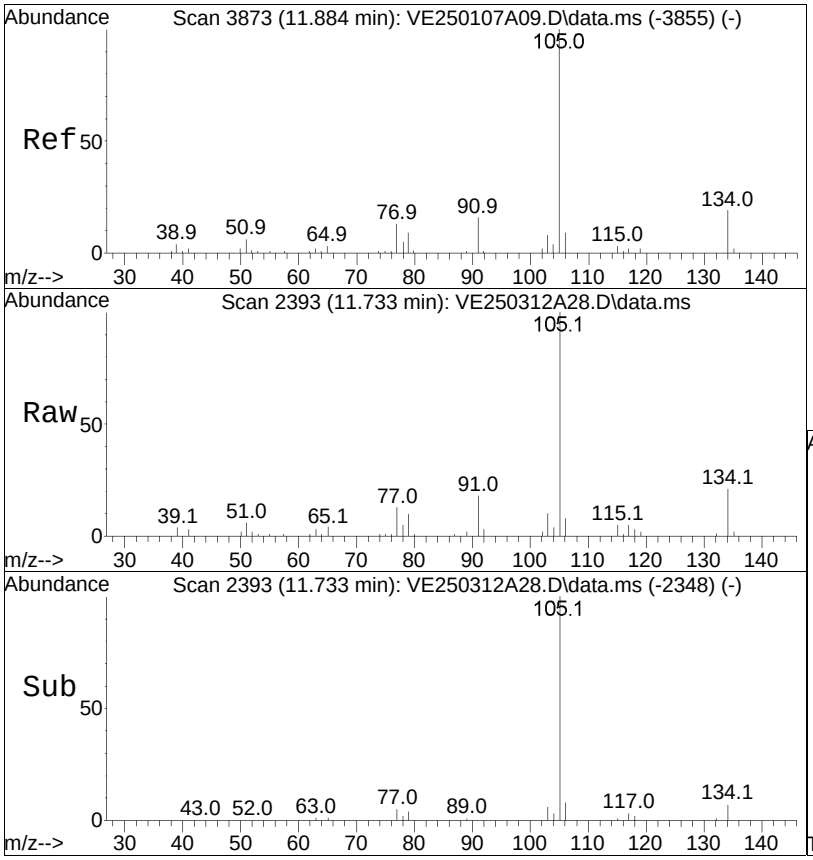


#102
1,2,4-Trimethylbenzene
Concen: 82.19 ug/L
RT: 11.618 min Scan# 2367
Delta R.T. -0.001 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion:105 Resp: 2533382

Ion	Ratio	Lower	Upper
105	100		
120	46.0	38.4	57.6

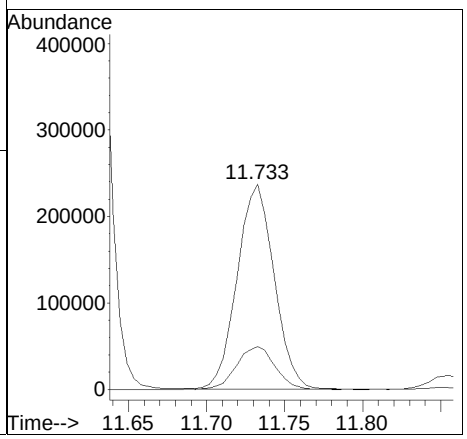


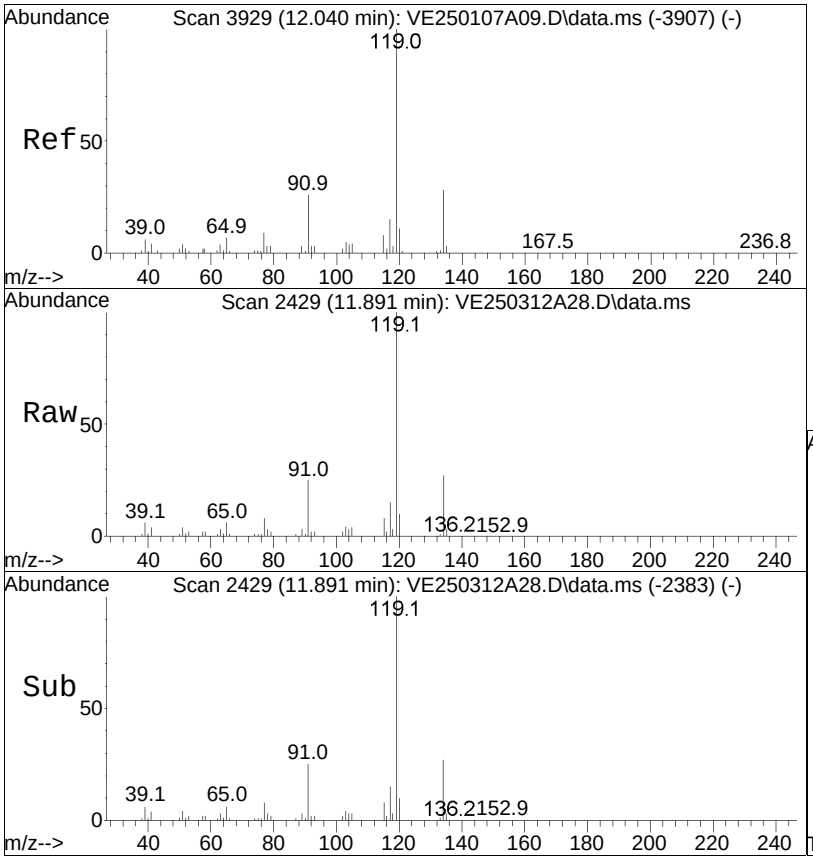


#103
sec-Butylbenzene
Concen: 9.83 ug/L
RT: 11.733 min Scan# 2393
Delta R.T. -0.001 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion:105 Resp: 391192

Ion	Ratio	Lower	Upper
105	100		
134	21.6	13.0	27.0

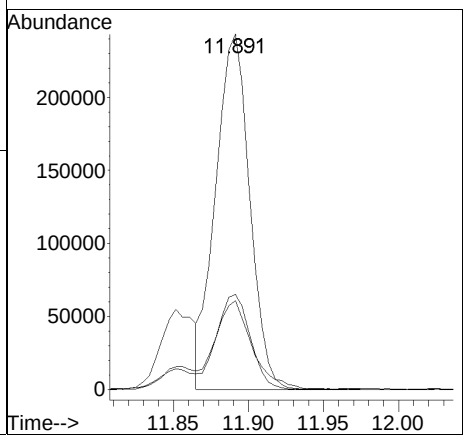


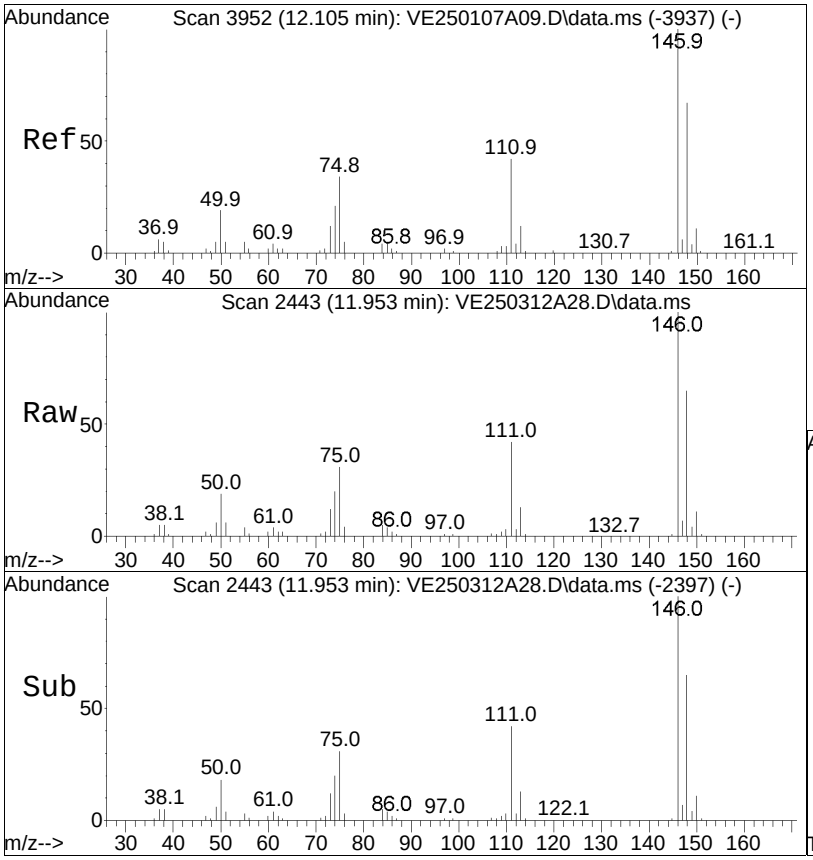


#104
p-Isopropyltoluene
Concen: 11.05 ug/L
RT: 11.891 min Scan# 2429
Delta R.T. 0.001 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion:119 Resp: 385405

Ion	Ratio	Lower	Upper
119	100		
134	26.0	17.2	35.6
91	26.4	15.0	31.2

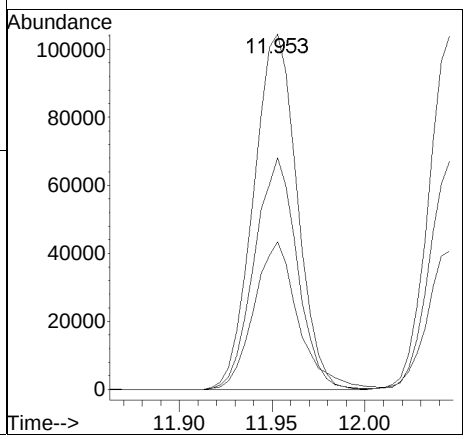


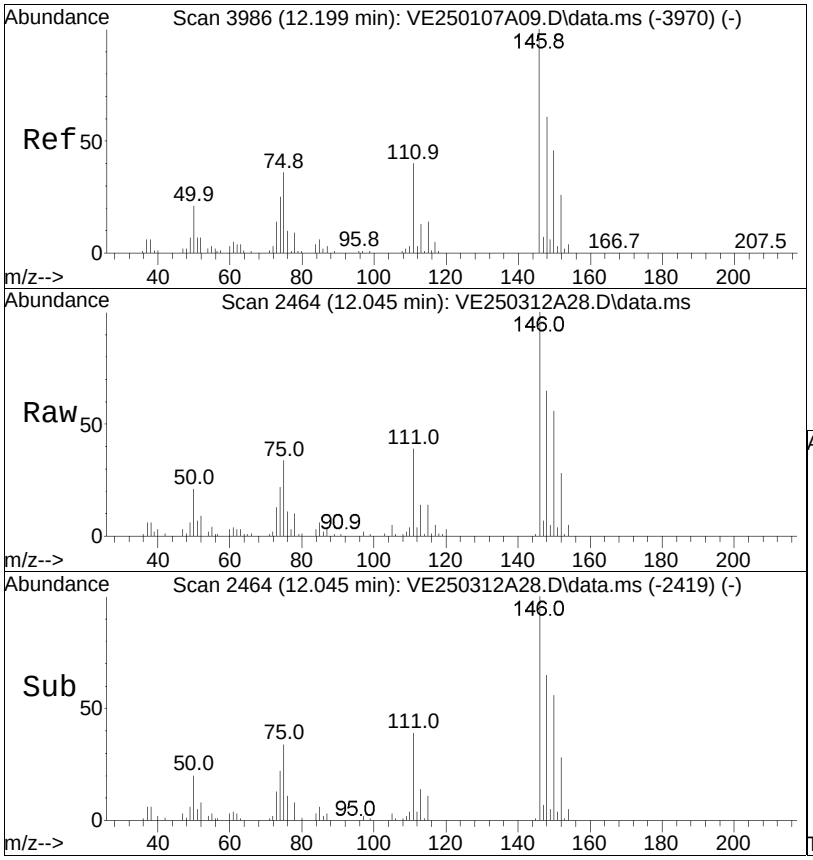


#105
1,3-Dichlorobenzene
Concen: 9.92 ug/L
RT: 11.953 min Scan# 2443
Delta R.T. 0.002 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion:146 Resp: 170775

Ion	Ratio	Lower	Upper
146	100		
111	42.4	26.0	54.0
148	63.8	42.1	87.3

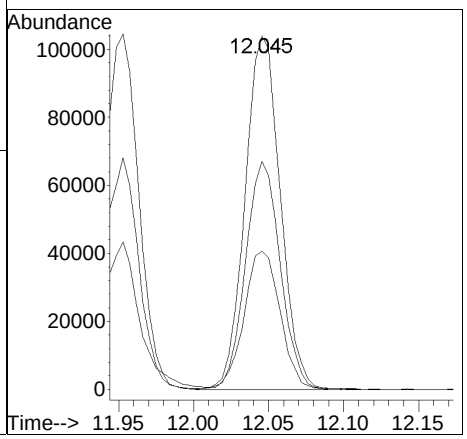


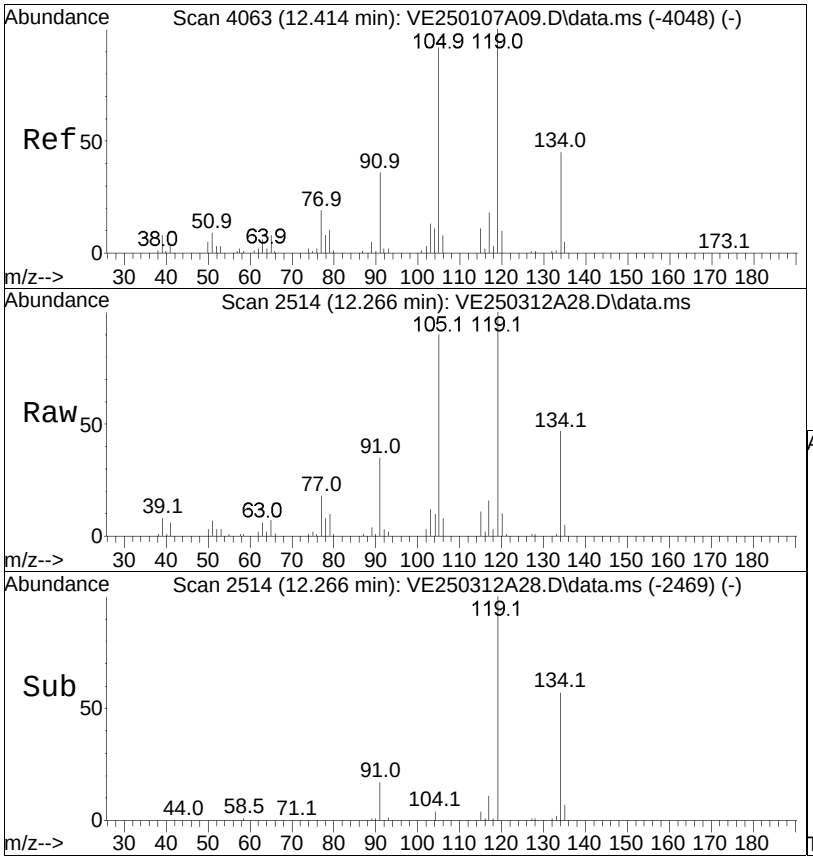


#106
1,4-Dichlorobenzene
Concen: 9.92 ug/L
RT: 12.045 min Scan# 2464
Delta R.T. -0.003 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion:146 Resp: 169875

Ion	Ratio	Lower	Upper
146	100		
111	40.0	31.5	47.3
148	64.0	51.1	76.7

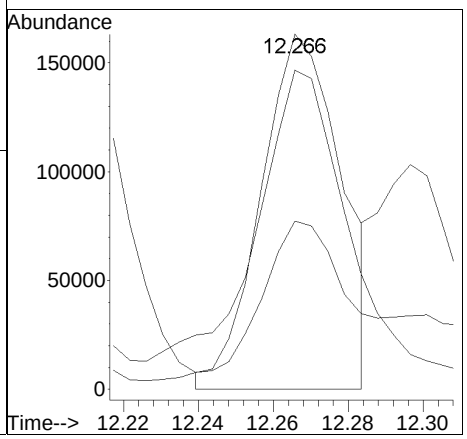


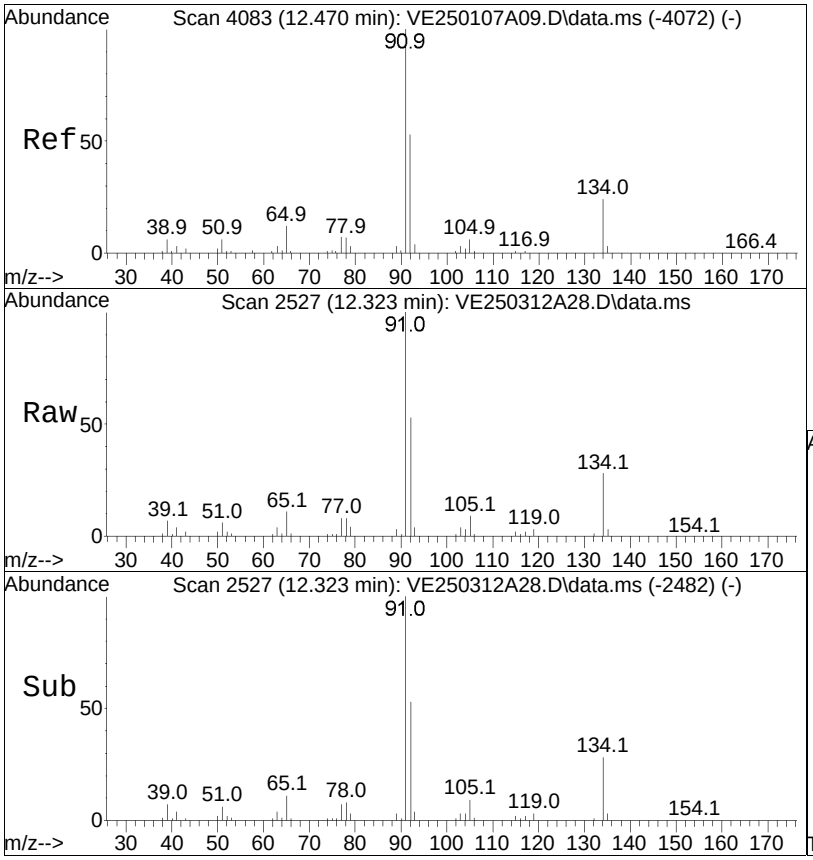


#107
p-Diethylbenzene
Concen: 11.78 ug/L M6
RT: 12.266 min Scan# 2514
Delta R.T. -0.004 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion:119 Resp: 243585

Ion	Ratio	Lower	Upper
119	100		
105	111.3	53.9	112.1
134	102.8	29.2	60.6#

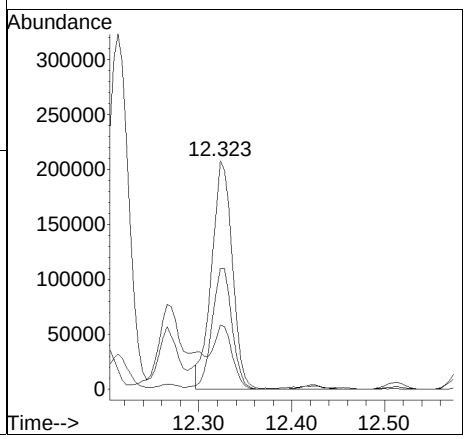


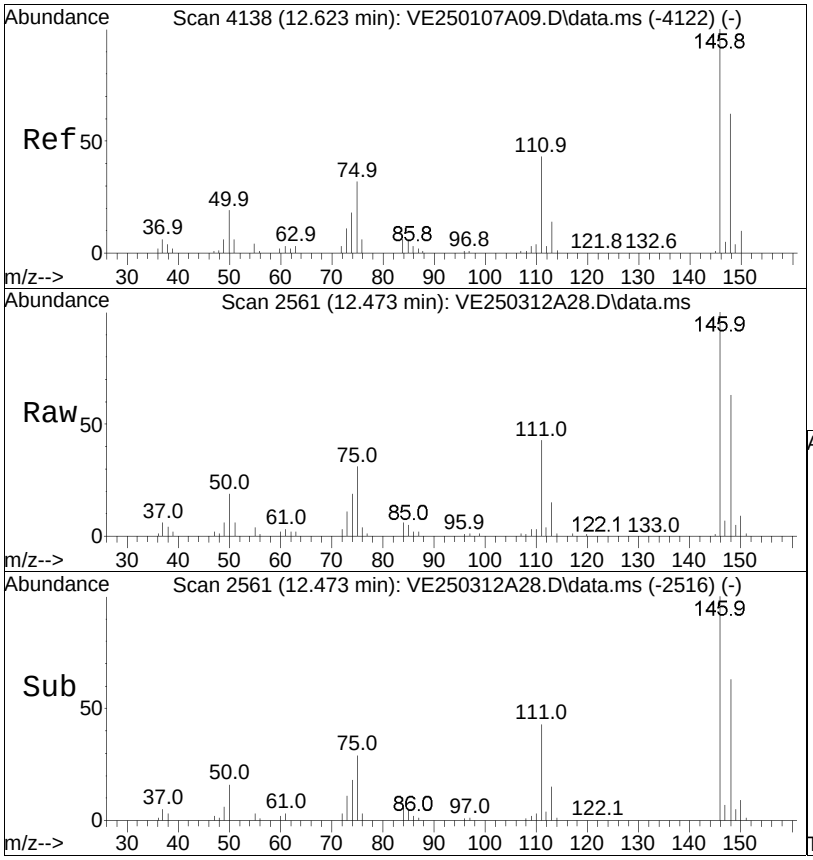


#108
n-Butylbenzene
Concen: 11.11 ug/L
RT: 12.323 min Scan# 2527
Delta R.T. -0.005 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion: 91 Resp: 332467

Ion	Ratio	Lower	Upper
91	100		
92	50.1	43.4	65.2
134	0.0	21.0	31.4#

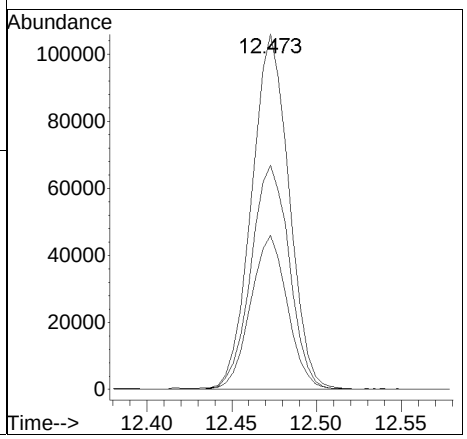


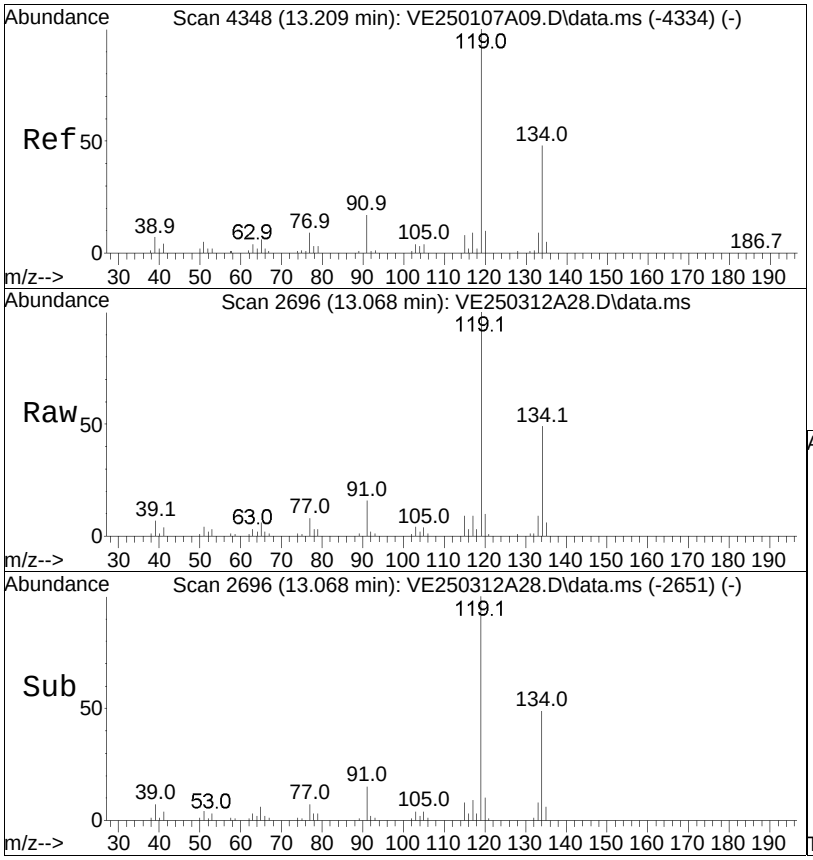


#109
1,2-Dichlorobenzene
Concen: 10.06 ug/L
RT: 12.473 min Scan# 2561
Delta R.T. -0.000 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion:146 Resp: 162713

Ion	Ratio	Lower	Upper
146	100		
111	42.8	26.8	55.6
148	64.7	40.9	84.9

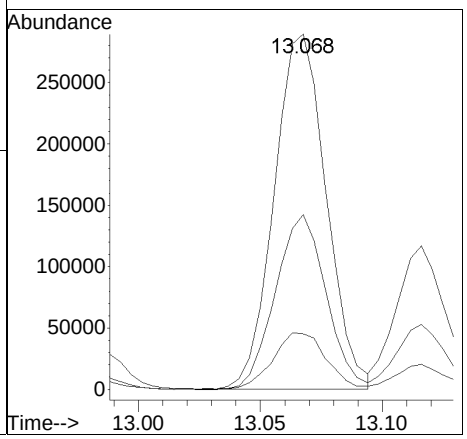


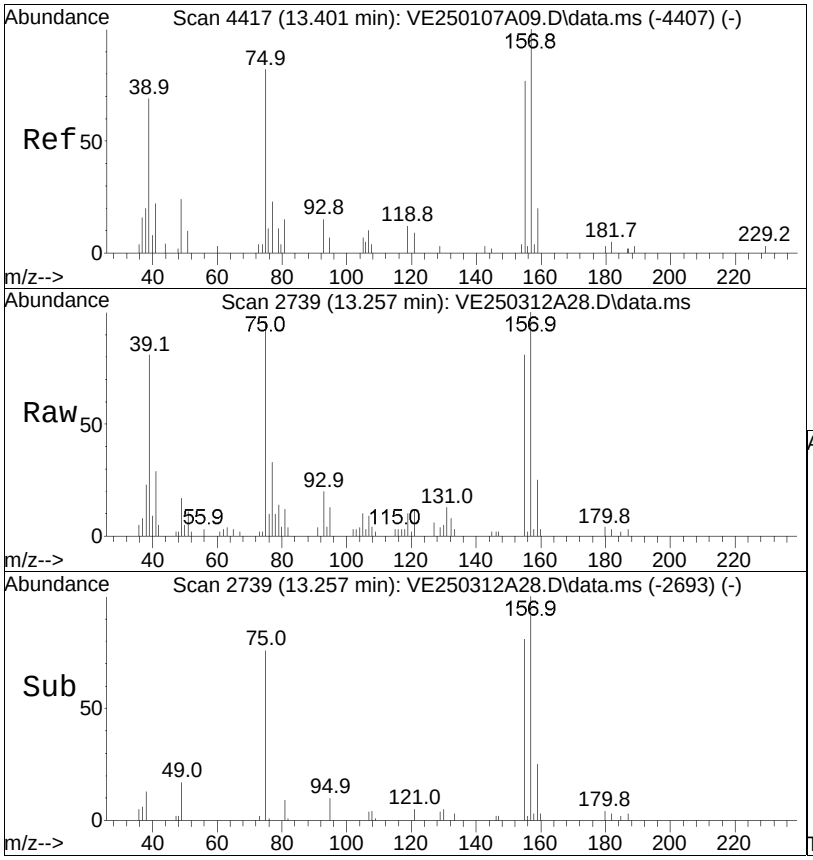


#110
1,2,4,5-Tetramethylbenzene
Concen: 13.16 ug/L
RT: 13.068 min Scan# 2696
Delta R.T. -0.002 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion:119 Resp: 429322

Ion	Ratio	Lower	Upper
119	100		
134	48.0	30.7	63.9
91	16.2	10.2	21.2

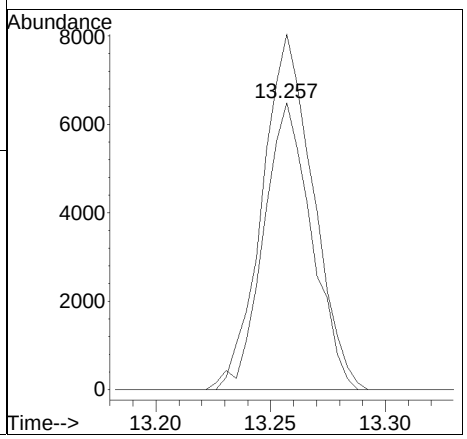


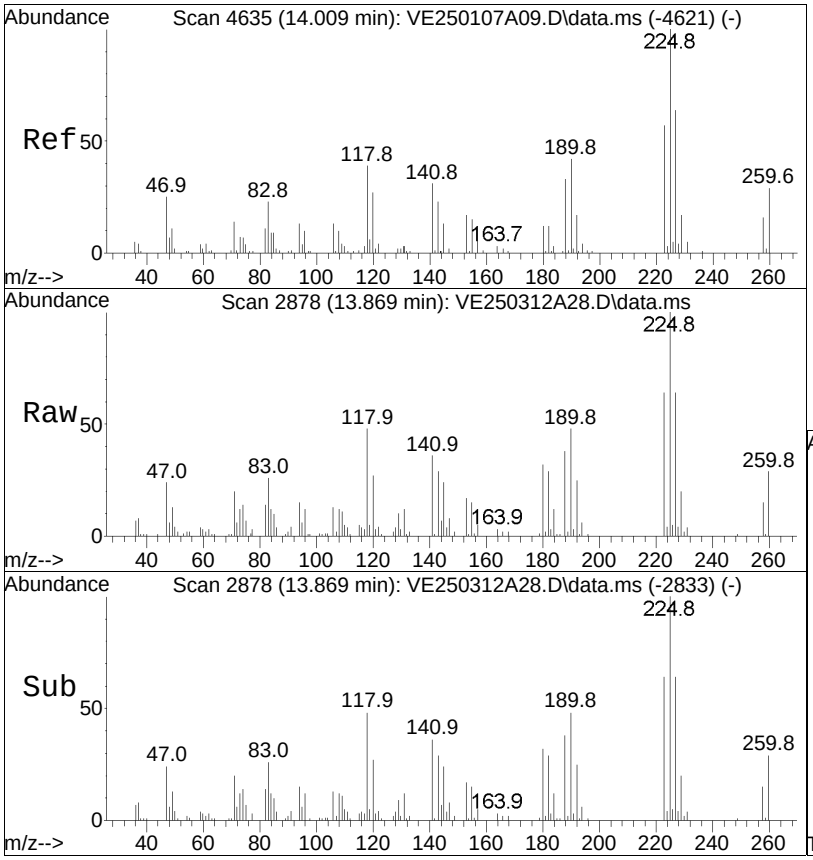


#111
1,2-Dibromo-3-chloropropane
Concen: 10.16 ug/L
RT: 13.257 min Scan# 2739
Delta R.T. 0.001 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion:155 Resp: 9504

Ion	Ratio	Lower	Upper
155	100		
157	130.5	95.8	143.8

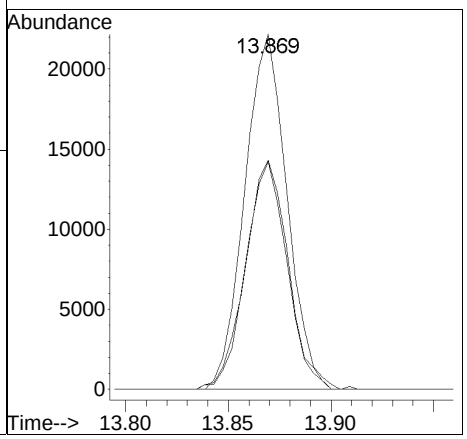


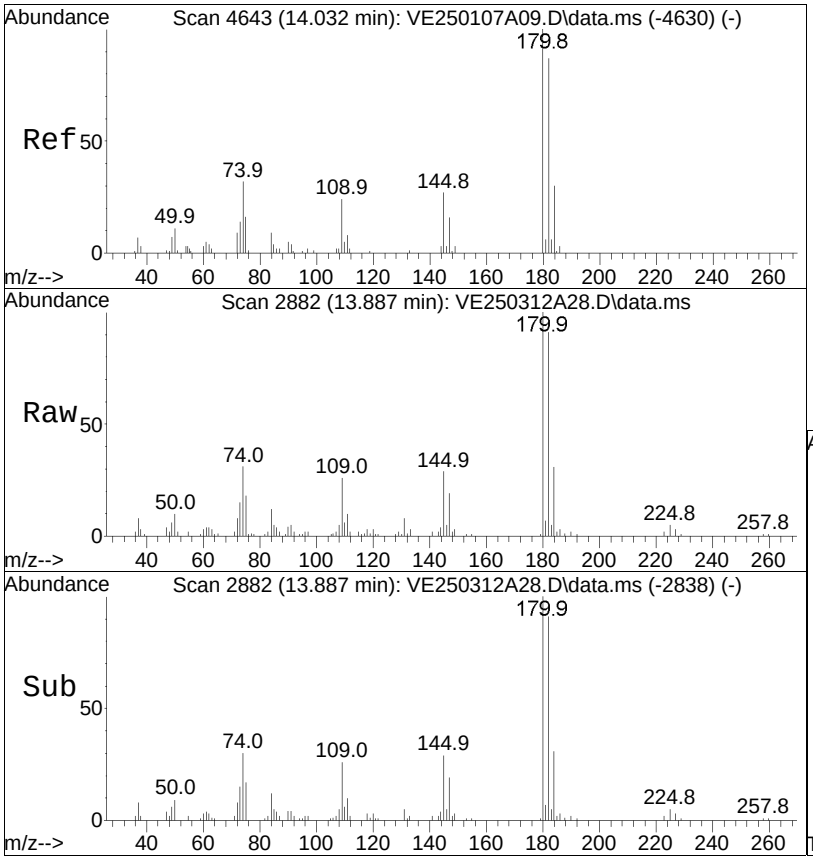


#113
Hexachlorobutadiene
Concen: 10.21 ug/L
RT: 13.869 min Scan# 2878
Delta R.T. -0.001 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion:225 Resp: 31834

Ion	Ratio	Lower	Upper
225	100		
223	62.4	50.1	75.1
227	64.9	51.0	76.6

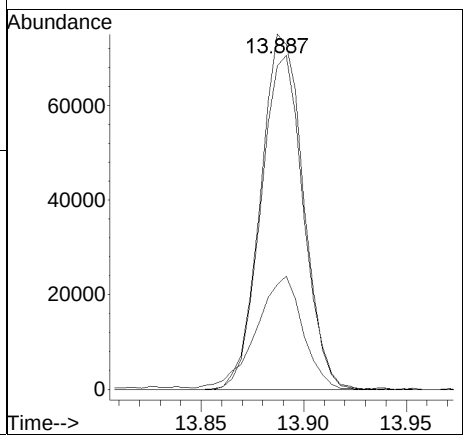


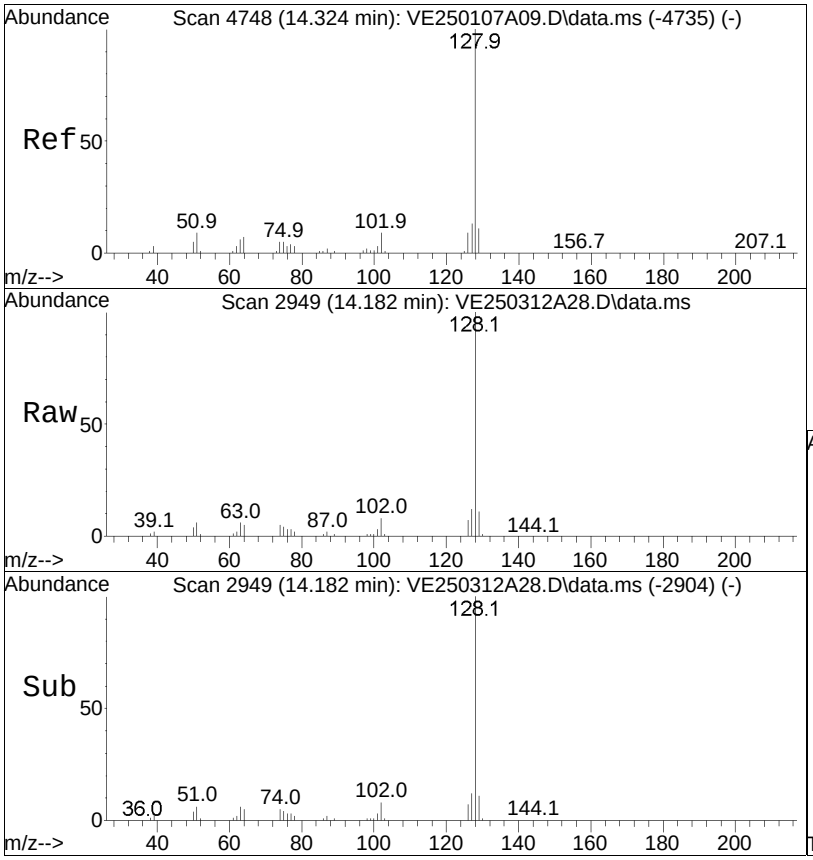


#114
1,2,4-Trichlorobenzene
Concen: 10.69 ug/L
RT: 13.887 min Scan# 2882
Delta R.T. -0.008 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion:180 Resp: 108984

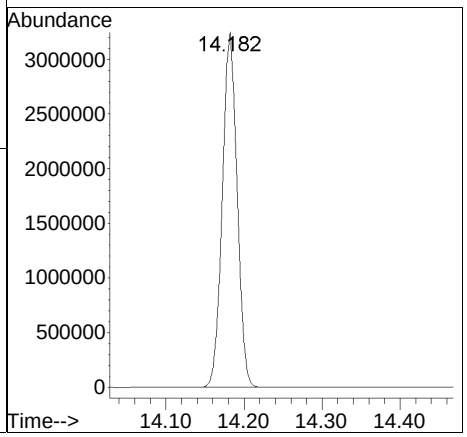
Ion	Ratio	Lower	Upper
180	100		
182	93.5	76.2	114.2
145	34.8	27.8	41.6

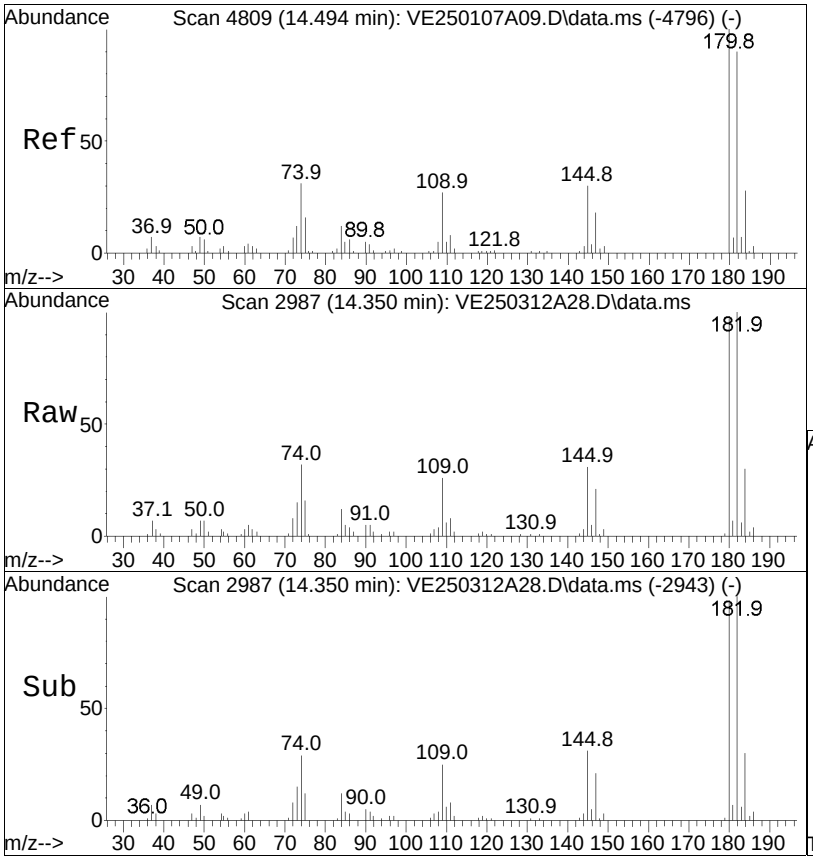




#115
Naphthalene
Concen: 176.87 ug/L
RT: 14.182 min Scan# 2949
Delta R.T. -0.003 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion:128 Resp: 4290381

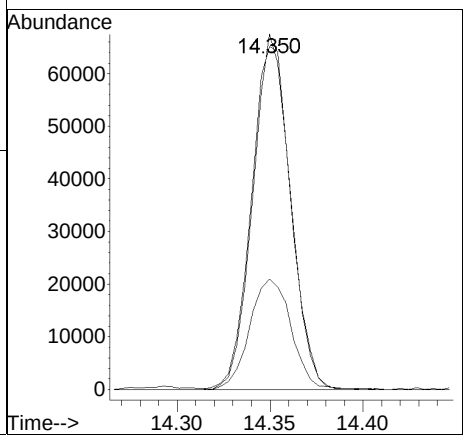




#116
1,2,3-Trichlorobenzene
Concen: 10.35 ug/L
RT: 14.350 min Scan# 2987
Delta R.T. -0.006 min
Lab File: VE250312A28.D
Acq: 12 Mar 2025 8:25 pm

Tgt Ion:180 Resp: 96781

Ion	Ratio	Lower	Upper
180	100		
182	97.4	77.0	115.4
145	33.7	25.9	38.9

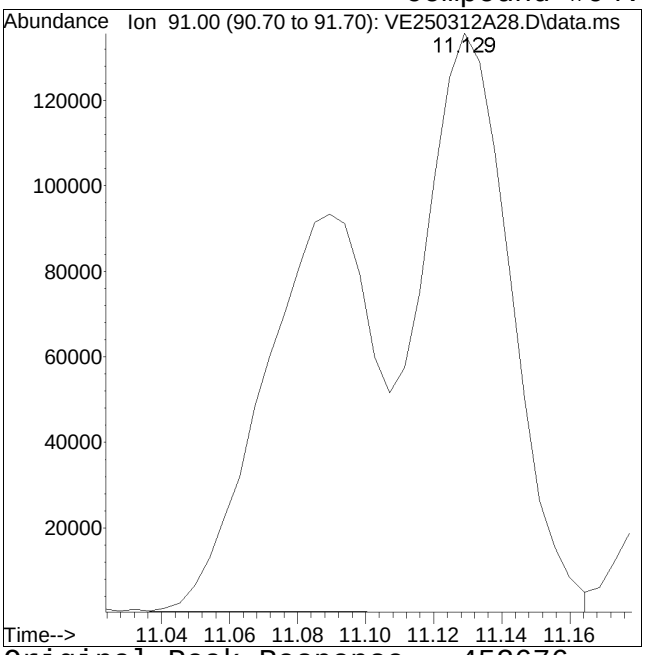


Manual Integration Report

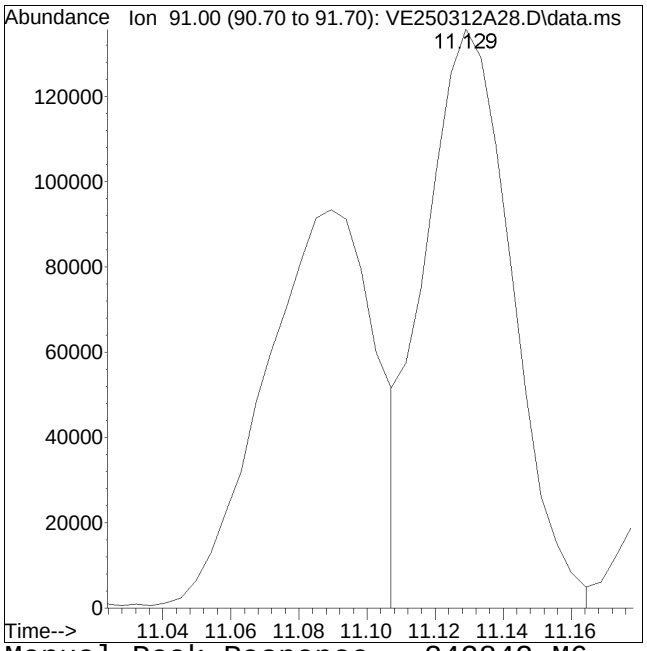
Data Path : K:\Elaine\2025\250312A\
Data File : VE250312A28.D
Date Inj'd : 3/12/2025 8:25 pm
Sample : WG2039699-7,31,5.0,10,,B

QMethod : Elaine_250220N_8260.m
Operator : ELAINE:MJV
Instrument : Elaine
Quant Date : 3/13/2025 5:13 am

Compound #94: 2-Chlorotoluene



Original Peak Response = 452676



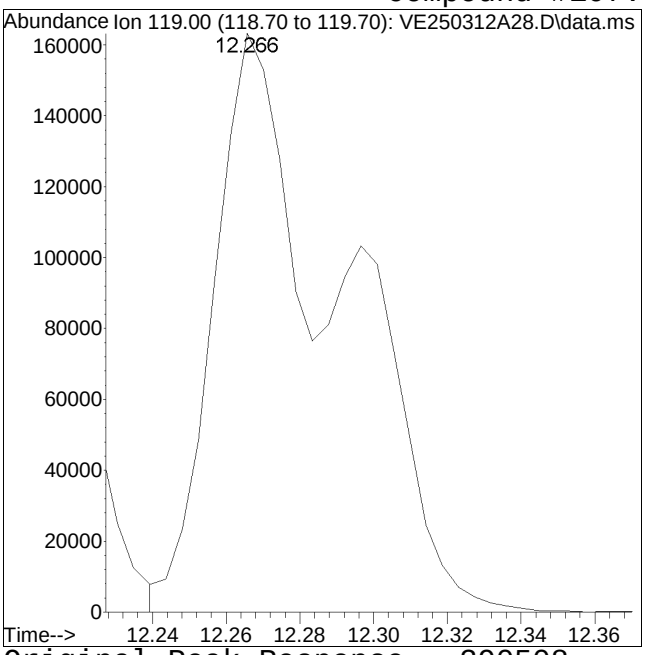
Manual Peak Response = 242842 M6

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

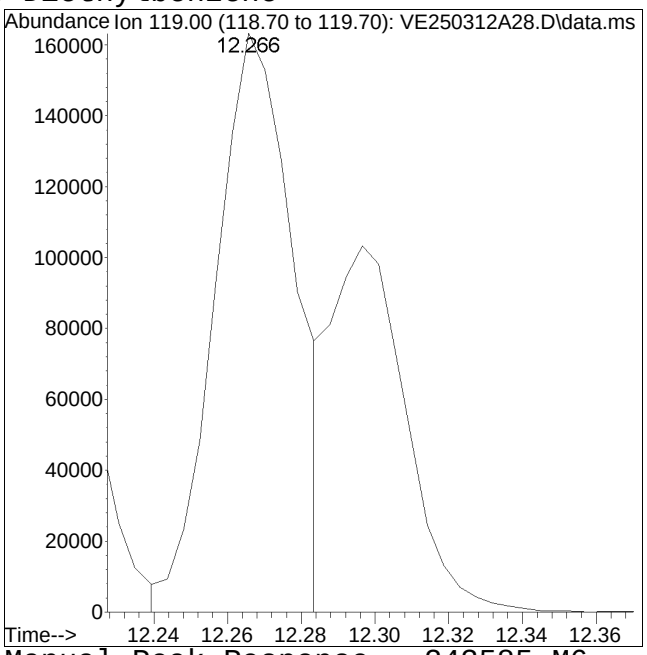
Manual Integration Report

Data Path : K:\Elaine\2025\250312A\ QMethod : Elaine_250220N_8260.m
Data File : VE250312A28.D Operator : ELAINE:MJV
Date Inj'd : 3/12/2025 8:25 pm Instrument : Elaine
Sample : WG2039699-7,31,5.0,10,,B Quant Date : 3/13/2025 5:13 am

Compound #107: p-Diethylbenzene



Original Peak Response = 390508



Manual Peak Response = 243585 M6

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

Calculation of Volatile Organic Compounds

Aqueous Concentration Formula: Amt * DF * Uf * (1/Vo)

Where:
DF = Dilution Factor
Vo = Sample Volume Purged (mL)
Uf = ng Unit Correction Factor (mL)

Soil Concentration Formula: Amt * DF * (1/Wt)

Where:
DF = Dilution Factor
Wt = Weight of Sample (g)

PACE ANALYTICAL SERVICES

PACE WORK GROUP REPORT (wk02)

Mar 13 2025, 02:06 pm

Work Group: WG2039699 for Department: 31 GC/MS - Volatiles

Created: 12-MAR-25 Due: Operator: PID

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2511898-06	MW-03_20250305	S	NYTCL-8260	WATER	DONE	U	0319	0313	S0	Vial-B
L2512368-18	CLUSTER 10 TRIP BLANK	S	NYTCL-8260	WATER	SEC	U	0319	0312	S0	Vial-B
L2512370-05	GW-2R	S	NYTCL-8260	WATER	DONE	U	0318	0312	S0	Vial-B
L2512370-06	DUP_250304	S	NYTCL-8260	WATER	DONE	U	0318	0312	S0	Vial-B
L2512370-07	FB_250304	S	NYTCL-8260	WATER	DONE	U	0318	0312	S0	Vial-B
L2512568-01	GW-TS-8	C	NYTCL-8260	WATER	DONE	U	0320	0313	S0	Vial-B
L2512607-01	MW-4S	S	NYTCL-8260	WATER	DONE	U	0320	0313	S0	Vial-B
L2512607-02	MW-4D2	S	NYTCL-8260	WATER	DONE	U	0320	0313	S0	Vial-B
L2512607-03	MW-12S	S	NYTCL-8260	WATER	DONE	U	0320	0313	S0	Vial-B
L2512607-04	MW-12D	S	NYTCL-8260	WATER	DONE	U	0320	0313	S0	Vial-B
L2512607-05	SCDOH_DR	S	NYTCL-8260	WATER	DONE	U	0320	0313	S0	Vial-B
L2512769-01	PT-MW01_030625	S	NYTCL-8260	WATER	DONE	U	0320	0313	S0	Vial-B
L2512769-02	PT-MW02_030625	S	NYTCL-8260	WATER	DONE	U	0320	0313	S0	Vial-B
L2512769-03	PT-MW03_030625	S	NYTCL-8260	WATER	DONE	U	0320	0313	S0	Vial-B
L2512769-04	MW-27_030625	S	NYTCL-8260	WATER	DONE	U	0320	0313	S0	Vial-B
L2512769-05	GWFB01_030625	S	NYTCL-8260	WATER	SENT	U	0320	0313	S0	Vial-B
L2512769-06	GWTB01_030625	S	NYTCL-8260	WATER	DONE	U	0320	0313	S0	Vial-B
L2512769-07	GWDUP_030625	S	NYTCL-8260	WATER	DONE	U	0320	0313	S0	Vial-B
WG2039699-1	MS BFB Tune Standard	S	NYTCL-8260	WATER	DONE	U				
WG2039699-2	Continuing Calibrati	S	NYTCL-8260	WATER	DONE	U				
WG2039699-3	Laboratory Control S	S	NYTCL-8260	WATER	DONE	U				
WG2039699-4	LCS Duplicate	S	NYTCL-8260	WATER	DONE	U				
WG2039699-5	Laboratory Method Bl	S	NYTCL-8260	WATER	DONE	U				
WG2039699-6	Matrix Spike	S	NYTCL-8260	WATER	DONE	U				
WG2039699-7	Matrix Spike Duplica	S	NYTCL-8260	WATER	DONE	U				

Comments:

WG2039699-4	WG2039699-3
WG2039699-6	L2512769-02
WG2039699-7	L2512769-02

PACE ANALYTICAL SERVICES

PACE WORK GROUP REPORT (wk02)

Mar 13 2025, 02:06 pm

Work Group: WG2040184 for Department: 31 GC/MS - Volatiles

Created: 13-MAR-25 Due: Operator: PID

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2512607-06	EQUIPMENT BLANK	S	NYTCL-8260	WATER	DONE	U	0320	0313	S0	Vial-B
L2512607-07	TRIP BLANK	S	NYTCL-8260	WATER	DONE	U	0320	0313	S0	Vial-B
L2514175-01	RMW-3-03122025	S	NYTCL-8260-R2	WATER	DONE	U	0326	0313	3A	Vial-B
WG2040184-1	MS BFB Tune Standard	S	NYTCL-8260	WATER	DONE	U				
WG2040184-1	MS BFB Tune Standard	S	NYTCL-8260-R2	WATER	DONE	U				
WG2040184-2	Continuing Calibrati	S	NYTCL-8260	WATER	DONE	U				
WG2040184-2	Continuing Calibrati	S	NYTCL-8260-R2	WATER	DONE	U				
WG2040184-3	Laboratory Control S	S	NYTCL-8260-R2	WATER	DACQ	U				
WG2040184-3	Laboratory Control S	S	NYTCL-8260	WATER	DONE	U				
WG2040184-4	LCS Duplicate	S	NYTCL-8260-R2	WATER	DACQ	U				
WG2040184-4	LCS Duplicate	S	NYTCL-8260	WATER	DONE	U				
WG2040184-5	Laboratory Method Bl	S	NYTCL-8260	WATER	DONE	U				
WG2040184-5	Laboratory Method Bl	S	NYTCL-8260-R2	WATER	DACQ	U				

Comments:

WG2040184-4 WG2040184-3

Method

Inst: VOA101 BFB: V10950 GC: 8260

Initials: TMS IS/SS: V10951 Autosampler: 8260water

Date: **02/08/25** ICAL: V10925C,V10941 Concentrator: 8260water

Run: **A** ICV: V10953,V10926,V10954,V10927,V10928,V10929 QC: _____ Seq: _____

Vial	DATA FILE	SAMPLE	
1	V01250208ABF1	BFB TUNE	
1	V01250208A01	BLK	
2	V01250208A02	BLK	
3	V01250208A03	I8260STD0.19PPB	
4	V01250208A04	I8260STD0.19PPB	
5	V01250208A05	I8260STD0.5PPB	
6	V01250208A06	I8260STD0.5PPB	
7	V01250208A07	I8260STD2PPB	
8	V01250208A08	I8260STD2PPB	
9	V01250208A09	I8260STD10PPB	
10	V01250208A10	I8260STD30PPB	
11	V01250208A11	I8260STD80PPB	
12	V01250208A12	I8260STD120PPB	
13	V01250208A13	I8260STD200PPB	
14	V01250208A14	BLK	
15	V01250208A15	BLK	
16	V01250208A16	BLK	
17	V01250208A17	BLK	
18	V01250208A18	C8260STD10PPB	
19	V01250208A19	C8260STD10PPB	
20	V01250208A20	BLK	
21	V01250208A21	METHOD BLK	
22	V01250208A22	MDL 0.19PPB	
23	V01250208A23	MDL 0.19PPB	
24	V01250208A24	MDL 0.5PPB	
25	V01250208A25	MDL 0.5PPB	
26	V01250208A26	MDL 2PPB	
27	V01250208A27	MDL 2PPB	
28	V01250208A28	BLK	

Inst: Elaine
Initials: TMS
Date: **02/20/25**
Run: **N**

BFB: V10950
IS/SS: V10951
ICAL: V10972A,V10970
ICV: V10953,V10926,V10954,V10927,V10928,V10929

Method
GC: 8260-SPLIT
Autosampler: 8260
Concentrator: 8260

QC:_____ Seq:_____

Vial	Data File	Sample	obs
1	VE250220NBF1	BFB TUNE	
1	VE250220N01	NO SAMPLE	
2	VE250220N02	BLK	
3	VE250220N03	BLK	
4	VE250220N04	I8260STD0.19PPB	
5	VE250220N05	I8260STD0.19PPB	
6	VE250220N06	I8260STD0.5PPB	
7	VE250220N07	I8260STD0.5PPB	
8	VE250220N08	I8260STD2PPB	
9	VE250220N09	I8260STD2PPB	
10	VE250220N10	I8260STD10PPB	
11	VE250220N11	I8260STD30PPB	
12	VE250220N12	I8260STD80PPB	
13	VE250220N13	I8260STD120PPB	
14	VE250220N14	I8260STD200PPB	
15	VE250220N15	BLK	
16	VE250220N16	BLK	
17	VE250220N17	BLK	
18	VE250220N18	BLK	
19	VE250220N19	C8260STD10PPB	
20	VE250220N20	C8260STD10PPB	
21	VE250220N21	BLK	
22	VE250220N22	BLK	
23	VE250220N23	METHOD BLK	
24	VE250220N24	MDL 0.19PPB	
25	VE250220N25	MDL 0.19PPB	
26	VE250220N26	MDL 0.19PPB	
27	VE250220N27	MDL 0.5PPB	
28	VE250220N28	MDL 2PPB	
29	VE250220N29	BLK	
30	VE250220N30	BLK	
31	VE250220N31	BLK	
32	VE250220N32	BLK	
33	VE250220N33	BLK	

Inst: Elaine BFB: V10998 Method GC: 8260-SPLIT
Initials: PID IS/SS: V10987 Autosampler: 8260
Date: **03/12/25** ICAL: V10972C,V11001 Concentrator: 8260
Run: **A** QC:_____ Seq:_____

Vial	Data File	Sample			obs
1	VE250312ABF1	BFB TUNE 09:13			
1	VE250312A01	8260 CCAL LCS			
2	VE250312A02	8260 CCAL LCSD			
3	VE250312A03	8260 CCAL			
4	VE250312A04	BLK			
5	VE250312A05	METHOD BLK			
6	VE250312A06	L2512368-18,31,10,10,,A	NYTCL	TB	pH<2
7	VE250312A07	L2512370-07,31,10,10,,C	NYTCL	FB,CONF RUN	pH<2
8	VE250312A08	L2512370-08,31,10,10,,B	NYTCL	TB,CONF RUN	pH<2
9	VE250312A09	L2512370-05D,31,2.0,10,,C	NY/2BUT		pH<2
10	VE250312A10	L2512370-06D,31,2.0,10,,C	NY/2BUT		pH<2
11	VE250312A11	D6			
12	VE250312A12	L2511898-06,31,10,10,,A	NYTCL		pH<2
13	VE250312A13	L2513790-02,31,10,10,,A	NYTCL	TB	pH<2
14	VE250312A14	L2512607-01,31,10,10,,A	NYTCL		pH<2
15	VE250312A15	L2512607-02,31,10,10,,A	NYTCL		pH<2
16	VE250312A16	L2512607-03,31,10,10,,A	NYTCL		pH<2
17	VE250312A17	L2512607-04,31,10,10,,A	NYTCL		pH<2
18	VE250312A18	L2512607-05,31,10,10,,A	NYTCL		pH<2
19	VE250312A19	L2512568-01,31,10,10,,A	NYTCL/10		pH<2
20	VE250312A20	L2512769-05,31,10,10,,A	NYTCL	FB	pH<2
21	VE250312A21	L2512769-06,31,10,10,,A	NYTCL	TB	pH<2
22	VE250312A22	L2512769-01,31,10,10,,A	NYTCL		pH<2
23	VE250312A23	L2512769-03,31,10,10,,A	NYTCL		pH<2
24	VE250312A24	L2512769-04,31,10,10,,A	NYTCL		pH<2
25	VE250312A25	L2512769-07,31,10,10,,A	NYTCL		pH<2
26	VE250312A26	L2512769-02D,31,5.0,10,,A	NYTCL		pH<2
27	VE250312A27	L2512769-02MS,31,5.0,10,,B	NYTCL		pH<2
28	VE250312A28	L2512769-02MSD,31,5.0,10,,B	NYTCL		pH<2
29	VE250312A29	HBM			
30	VE250312A30	BLK			
31	VE250312A31	BLK			

Inst: VOA101 BFB: V10998 Method GC: 8260
Initials: PID IS/SS: V10991 Autosampler: 8260water
Date: **03/13/25** ICAL: V10972C,V11001,V10984 Concentrator: 8260water
Run: **A** QC: _____ Seq: _____

Vial	DATA FILE	SAMPLE			
1	V01250313ABF1	BFB TUNE	06:49		
1	V01250313A01	AA CCAL	LCS		
2	V01250313A02	AA CCAL	LCSD		
3	V01250313A03	AA CCAL			
4	V01250313A04	8260 CCAL	LCS		
5	V01250313A05	8260 CCAL	LCSD		
6	V01250313A06	8260 CCAL			
7	V01250313A07	BLK			
8	V01250313A08	METHOD BLK			
9	V01250313A09	L2514047-01,31,10,10,,A		8260MM	pH<2
10	V01250313A10	L2514047-02,31,10,10,,A		8260MM	pH<2
11	V01250313A11	L2514175-01,31,10,10,,A		NY/R2	pH<2
12	V01250313A12	L2512607-06,31,10,10,,A		NYTCL	pH<2
13	V01250313A13	L2512607-07,31,10,10,,A		NYTCL TB	pH<2
14	V01250313A14	D6			
15	V01250313A15	L2512764-08,31,10,10,,A		NY/BTEX,MTBE TB	
16	V01250313A16	L2512764-01,31,10,10,,A		NY/BTEX,MTBE	
17	V01250313A17	L2512764-02,31,10,10,,A		NY/BTEX,MTBE	
18	V01250313A18	I2512764-03D,31,2.0,10,,a		NY/BTEX,MTBE	pH<2
19	V01250313A19	L2512764-04,31,10,10,,A		NY/BTEX,MTBE	
20	V01250313A20	L2512764-05,31,10,10,,A		NY/BTEX,MTBE	
21	V01250313A21	L2512764-06,31,10,10,,A		NY/BTEX,MTBE	
22	V01250313A22	L2512764-07,31,10,10,,A		NY/BTEX,MTBE	
23	V01250313A23	L2512749-01,31,10,10,,A		NYSTARS	
24	V01250313A24	L2512749-04,31,10,10,,A		NYSTARS	
25	V01250313A25	L2512749-05,31,10,10,,A		NYSTARS	
26	V01250313A26	I2512749-02D,31,1.0,10,,a		NYSTARS	pH<2
27	V01250313A27	I2512749-03D,31,2.5,10,,a		NYSTARS	pH<2
28	V01250313A28	HBM			
29	V01250313A29	BLK			
30	V01250313A30	BLK			

Semivolatiles Data- Method 8270

Semivolatiles QC Summary

Surrogate Recovery Summary
Form 2
Semivolatiles

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

Lab Number: L2512607
Project Number: 2232.0006Y005
Matrix: Equipment Blank/Water

CLIENT ID (LAB SAMPLE NO.)	S1 (2FP)	S2 (PHL)	S3 (NBZ)	S4 (FBP)	S5 (TBP)	S6 (TPH)	TOT OUT
MW-4S (L2512607-01)	18*	15	60	65	31	66	1
MW-4D2 (L2512607-02)	39	28	86	84	66	89	0
MW-12S (L2512607-03)	16*	15	71	71	24	78	1
MW-12D (L2512607-04)	43	30	87	90	87	87	0
SCDOH_DR (L2512607-05)	38	28	76	81	62	83	0
EQUIPMENT BLANK (L2512607-06)	32	24	79	80	54	86	0
WG2038207-1BLANK	30	24	73	72	50	74	0
WG2038207-2LCS	47	34	93	88	81	89	0
WG2038207-3LCSD	46	35	96	89	84	89	0

QC LIMITS

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

* Values outside of QC limits

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG2038207-2 Analysis Date : 03/13/25 13:50	**File ID**	: 038207-2
LCSD Sample ID	: WG2038207-3 Analysis Date : 03/13/25 14:13	**File ID**	: 038207-3

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
3,3'-Dichlorobenzidine	20	17.	86	20	19.	95	10	40-140	30
2,4-Dinitrotoluene	20	17.	86	20	18.	89	3	48-143	30
2,6-Dinitrotoluene	20	18.	90	20	20.	102	13	40-140	30
4-Chlorophenyl phenyl ether	20	16.	81	20	16.	83	2	40-140	30
4-Bromophenyl phenyl ether	20	16.	80	20	16.	81	1	40-140	30
Bis(2-chloroisopropyl)ether	20	19.	93	20	19.	97	4	40-140	30
Bis(2-chloroethoxy)methane	20	17.	86	20	17.	84	2	40-140	30
Hexachlorocyclopentadiene	20	8.3	41	20	8.0	40	2	40-140	30
Isophorone	20	18.	88	20	18.	91	3	40-140	30
Nitrobenzene	20	18.	89	20	18.	90	1	40-140	30
NDPA/DPA	20	17.	86	20	18.	89	3	40-140	30
n-Nitrosodi-n-propylamine	20	18.	92	20	19.	94	2	29-132	30
Bis(2-ethylhexyl)phthalate	20	17.	84	20	18.	89	6	40-140	30
Butyl benzyl phthalate	20	17.	84	20	19.	93	10	40-140	30
Di-n-butylphthalate	20	17.	86	20	21.	107	22	40-140	30
Di-n-octylphthalate	20	16.	83	20	18.	91	9	40-140	30
Diethyl phthalate	20	18.	88	20	19.	93	6	40-140	30
Dimethyl phthalate	20	18.	88	20	18.	90	2	40-140	30
Biphenyl	20	17.	83	20	16.	83	0	40-140	30
4-Chloroaniline	20	15.	74	20	16.	81	9	40-140	30
2-Nitroaniline	20	18.	89	20	20.	98	10	52-143	30
3-Nitroaniline	20	17.	84	20	19.	95	12	25-145	30
4-Nitroaniline	20	19.	97	20	20.	103	6	51-143	30
Dibenzofuran	20	16.	79	20	16.	81	3	40-140	30
1,2,4,5-Tetrachlorobenzene	20	15.	76	20	15.	74	3	2-134	30
Acetophenone	20	20.	98	20	20.	100	2	39-129	30

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG2038207-2 **Analysis Date** : 03/13/25 13:50	**File ID**	: 038207-2
LCSD Sample ID	: WG2038207-3 **Analysis Date** : 03/13/25 14:13	**File ID**	: 038207-3

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
2,4,6-Trichlorophenol	20	15.	74	20	16.	81	9	30-130	30
p-Chloro-m-cresol	20	15.	76	20	16.	79	4	23-97	30
2-Chlorophenol	20	14.	71	20	15.	75	5	27-123	30
2,4-Dichlorophenol	20	16.	81	20	17.	84	4	30-130	30
2,4-Dimethylphenol	20	10.	51	20	12.	59	15	30-130	30
2-Nitrophenol	20	16.	80	20	17.	87	8	30-130	30
4-Nitrophenol	20	9.3	46	20	9.7	49	6	10-80	30
2,4-Dinitrophenol	20	14.	73	20	11.	54	30	20-130	30
4,6-Dinitro-o-cresol	20	16.	82	20	16.	82	0	20-164	30
Phenol	20	6.9	34	20	7.1	35	3	12-110	30
2-Methylphenol	20	13.	64	20	13.	66	3	30-130	30
3-Methylphenol/4-Methylphenol	20	13.	67	20	14.	68	1	30-130	30
2,4,5-Trichlorophenol	20	17.	83	20	17.	86	4	30-130	30
Carbazole	20	18.	91	20	19.	93	2	55-144	30
Atrazine	20	18.	88	20	19.	94	7	40-140	30
Benzaldehyde	20	19.	95	20	18.	93	2	40-140	30
Caprolactam	20	5.6	28	20	5.9	29	4	10-130	30

Method Blank Summary
Form 4
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG2038207-1	**Lab File ID**	: 038207-1
Instrument ID	: SV106	**Extraction Date**	: 03/08/25
Matrix	: WATER	**Analysis Date**	: 03/13/25 13:27
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG2038207-2LCS	WG2038207-2	03/13/25 13:50
WG2038207-3LCSD	WG2038207-3	03/13/25 14:13
MW-4D2	L2512607-02	03/13/25 16:45
MW-12S	L2512607-03	03/13/25 17:08
SCDOH_DR	L2512607-05	03/13/25 17:55
EQUIPMENT BLANK	L2512607-06	03/13/25 18:18
MW-4S	L2512607-01	03/13/25 18:42
MW-12D	L2512607-04	03/13/25 18:52

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: DAKOTA	**Analysis Date**	: 11/05/24 16:36
Tune Standard	: R1897417-31	**Tune File ID**	: Tune1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	34.4
68	Less than 2.0% of mass 69	0 (0)1
69		100
70	Less than 2.0% of mass 69	0.2 (.6)1
127	10.0 - 80.0% of Base Peak	45.2
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.5
275	10.0 - 60.0% of Base Peak	27.8
365	Greater than 1.0% of mass 198	3.3
441	Present, but less than 24% of mass 442	17.4
442	Base Peak, or >50% of mass 198	80.8
443	15.0 - 24.0% of mass 442	15.9 (19.7)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ABNL9	R1897417-9	ABNL9	11/05/24 16:59
ABNL8	R1897417-8	ABNL8	11/05/24 17:23
ABNL7	R1897417-7	ABNL7	11/05/24 17:46
ABNL6	R1897417-6	ABNL6	11/05/24 18:09
ABNL5	R1897417-5	ABNL5	11/05/24 18:33
ABNL4	R1897417-4	ABNL4	11/05/24 18:56
ABNL3	R1897417-3	ABNL3	11/05/24 19:19
ABNL2	R1897417-2	ABNL2	11/05/24 19:42
ABNL1	R1897417-1	ABNL1	11/05/24 20:06
AP9L9	R1897417-27	AP9L9	11/05/24 20:29
AP9L8	R1897417-26	AP9L8	11/05/24 20:53
AP9L7	R1897417-25	AP9L7	11/05/24 21:16
AP9L6	R1897417-24	AP9L6	11/05/24 21:39
AP9L5	R1897417-23	AP9L5	11/05/24 22:03
AP9L4	R1897417-22	AP9L4	11/05/24 22:26
AP9L3	R1897417-21	AP9L3	11/05/24 22:49
AP9L2	R1897417-20	AP9L2	11/05/24 23:13
AP9L1	R1897417-19	AP9L1	11/05/24 23:36
ABN ICV Quant Report	R1897417-28	ABNICV	11/05/24 23:59
AP9 ICV Quant Report	R1897417-30	AP9ICV	11/06/24 00:23

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: DAKOTA	**Analysis Date**	: 11/06/24 00:46
Tune Standard	: R1897417-32	**Tune File ID**	: Tune2_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	35.4
68	Less than 2.0% of mass 69	0 (0)1
69		100
70	Less than 2.0% of mass 69	0.2 (.6)1
127	10.0 - 80.0% of Base Peak	45.9
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.6
275	10.0 - 60.0% of Base Peak	27.4
365	Greater than 1.0% of mass 198	3.3
441	Present, but less than 24% of mass 442	17.8
442	Base Peak, or >50% of mass 198	78.8
443	15.0 - 24.0% of mass 442	15.6 (19.8)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ADPL9	R1897417-18	ADPL9	11/06/24 01:10
ADPL8	R1897417-17	ADPL8	11/06/24 01:33
ADPL7	R1897417-16	ADPL7	11/06/24 01:56
ADPL6	R1897417-15	ADPL6	11/06/24 02:20
ADPL5	R1897417-14	ADPL5	11/06/24 02:43
ADPL4	R1897417-13	ADPL4	11/06/24 03:07
ADPL3	R1897417-12	ADPL3	11/06/24 03:30
ADPL2	R1897417-10	ADPL2	11/06/24 03:53
ADPL1	R1897417-11	ADPL1	11/06/24 04:17
ADP ICV Quant Report	R1897417-29	ADPICV	11/06/24 04:40

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: DAKOTA	**Analysis Date**	: 03/13/25 07:54
Tune Standard	: WG2040097-1	**Tune File ID**	: DEG0313_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	32.2
68	Less than 2.0% of mass 69	0 (0)1
69		100
70	Less than 2.0% of mass 69	0.2 (.4)1
127	10.0 - 80.0% of Base Peak	44.2
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.6
275	10.0 - 60.0% of Base Peak	30.5
365	Greater than 1.0% of mass 198	3.9
441	Present, but less than 24% of mass 442	18.3
442	Base Peak, or >50% of mass 198	92.2
443	15.0 - 24.0% of mass 442	18.5 (20.1)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG2040097-6TFACTOR-B	WG2040097-6	DEG0313	03/13/25 07:54
WG2040097-7TFACTOR-P	WG2040097-7	DEG0313	03/13/25 07:54
WG2040097-3CCAL	WG2040097-3	ABN0313	03/13/25 08:16
WG2040097-4CCAL	WG2040097-4	AP90313	03/13/25 08:39
WG2040097-5CCAL	WG2040097-5	ADP0313	03/13/25 09:01
MW-12D	L2512607-04	12607-04	03/13/25 18:52

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV106	**Analysis Date**	: 03/11/25 16:27
Tune Standard	: R1939674-1	**Tune File ID**	: Tune1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	41.5
68	Less than 2.0% of mass 69	0.4 (1.1)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	43.9
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.9
275	10.0 - 60.0% of Base Peak	25.9
365	Greater than 1.0% of mass 198	3
441	Present, but less than 24% of mass 442	16.7
442	Base Peak, or >50% of mass 198	74.8
443	15.0 - 24.0% of mass 442	14.9 (20)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ABNL9	R1939674-12	ABNL9	03/11/25 16:50
ABNL8	R1939674-10	ABNL8	03/11/25 17:14
ABNL7	R1939674-9	ABNL7	03/11/25 17:37
ABNL6	R1939674-8	ABNL6	03/11/25 18:01
ABNL5	R1939674-7	ABNL5	03/11/25 18:24
ABNL4	R1939674-6	ABNL4	03/11/25 18:48
ABNL3	R1939674-5	ABNL3	03/11/25 19:11
ABNL2	R1939674-4	ABNL2	03/11/25 19:34
ABNL1	R1939674-3	ABNL1	03/11/25 19:58
ABN ICV Quant Report	R1939674-30	ABNICV	03/11/25 22:18

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV106	**Analysis Date**	: 03/11/25 23:05
Tune Standard	: R1939674-2	**Tune File ID**	: Tune2_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	41.4
68	Less than 2.0% of mass 69	0.3 (.7)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	43.7
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.6
275	10.0 - 60.0% of Base Peak	25.6
365	Greater than 1.0% of mass 198	3
441	Present, but less than 24% of mass 442	16.9
442	Base Peak, or >50% of mass 198	72.8
443	15.0 - 24.0% of mass 442	14.2 (19.6)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
AP9L9	R1939674-29	AP9L9	03/11/25 23:29
AP9L8	R1939674-28	AP9L8	03/11/25 23:52
AP9L7	R1939674-27	AP9L7	03/12/25 00:15
AP9L6	R1939674-26	AP9L6	03/12/25 00:39
AP9L5	R1939674-25	AP9L5	03/12/25 01:02
AP9L4	R1939674-24	AP9L4	03/12/25 01:26
AP9L3	R1939674-22	AP9L3	03/12/25 01:49
AP9L2	R1939674-23	AP9L2	03/12/25 02:12
AP9L1	R1939674-19	AP9L1	03/12/25 02:36
ADPL9	R1939674-20	ADPL9	03/12/25 02:59
ADPL8	R1939674-21	ADPL8	03/12/25 03:23
ADPL7	R1939674-18	ADPL7	03/12/25 03:46
ADPL6	R1939674-16	ADPL6	03/12/25 04:09
ADPL5	R1939674-17	ADPL5	03/12/25 04:33
ADPL4	R1939674-15	ADPL4	03/12/25 04:56
ADPL3	R1939674-14	ADPL3	03/12/25 05:20
ADPL2	R1939674-13	ADPL2	03/12/25 05:43
ADPL1	R1939674-11	ADPL1	03/12/25 06:06
AP9 ICV Quant Report	R1939674-32	AP9ICV	03/12/25 06:30
ADP ICV Quant Report	R1939674-31	ADPICV	03/12/25 06:53

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV106	**Analysis Date**	: 03/13/25 10:40
Tune Standard	: WG2040166-1	**Tune File ID**	: DEG0313_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	42.8
68	Less than 2.0% of mass 69	0.3 (.7)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	43.9
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.9
275	10.0 - 60.0% of Base Peak	26
365	Greater than 1.0% of mass 198	3.1
441	Present, but less than 24% of mass 442	16.6
442	Base Peak, or >50% of mass 198	78
443	15.0 - 24.0% of mass 442	15.2 (19.6)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG2040166-6TFACTOR-B	WG2040166-6	DEG0313	03/13/25 10:40
WG2040166-7TFACTOR-P	WG2040166-7	DEG0313	03/13/25 10:40
WG2040166-3CCAL	WG2040166-3	ABN0313	03/13/25 11:03
WG2040166-4CCAL	WG2040166-4	AP90313	03/13/25 11:27
WG2040166-5CCAL	WG2040166-5	ADP0313	03/13/25 11:50
WG2038207-1BLANK	WG2038207-1	038207-1	03/13/25 13:27
WG2038207-2LCS	WG2038207-2	038207-2	03/13/25 13:50
WG2038207-3LCSD	WG2038207-3	038207-3	03/13/25 14:13
MW-4D2	L2512607-02	12607-02	03/13/25 16:45
MW-12S	L2512607-03	12607-03	03/13/25 17:08
SCDOH_DR	L2512607-05	12607-05	03/13/25 17:55
EQUIPMENT BLANK	L2512607-06	12607-06	03/13/25 18:18
MW-4S	L2512607-01	12607-01	03/13/25 18:42

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: DAKOTA	**Analysis Date**	: 03/13/25 08:16:00
Sample No	: WG2040097-3	**Lab File ID**	: ABN0313

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG2040097-3	21338	4.28	81396	5.52	59061	7.21
Upper Limit	42676	4.78	162792	6.02	118122	7.71
Lower Limit	10669	3.78	40698	5.02	29531	6.71
Sample ID						
WG2040097-4 CCAL	19371	4.28	75825	5.52	51321	7.21
WG2040097-5 CCAL	20407	4.28	-	-	50349	7.21
MW-12D	20900	4.28	77106	5.52	56503	7.21

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: DAKOTA	**Analysis Date**	: 03/13/25 08:16:00
Sample No	: WG2040097-3	**Lab File ID**	: ABN0313

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG2040097-3	138043	8.63	179826	11.20	218659	12.63
Upper Limit	276086	9.13	359652	11.70	437318	13.13
Lower Limit	69022	8.13	89913	10.70	109330	12.13
Sample ID						
WG2040097-4 CCAL	124221	8.63	-	-	-	-
WG2040097-5 CCAL	118135	8.63	-	-	-	-
MW-12D	132200	8.63	162530	11.20	192887	12.62

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV106	**Analysis Date**	: 03/13/25 11:03:00
Sample No	: WG2040166-3	**Lab File ID**	: ABN0313

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG2040166-3	59871	6.35	230532	7.78	140631	9.55
Upper Limit	119742	6.85	461064	8.28	281262	10.05
Lower Limit	29936	5.85	115266	7.28	70316	9.05
Sample ID						
WG2040166-4 CCAL	57135	6.35	214914	7.78	134336	9.55
WG2040166-5 CCAL	59091	6.35	-	-	132555	9.55
WG2038207-1 BLANK	65082	6.35	242428	7.78	148669	9.55
WG2038207-2 LCS	67857	6.35	254419	7.78	158088	9.55
WG2038207-3 LCSD	97575	6.35	367413	7.79	227741	9.55
MW-4D2	74373	6.35	270888	7.78	168777	9.55
MW-12S	60917	6.35	228470	7.78	141915	9.55
SCDOH_DR	62671	6.35	232352	7.78	143715	9.55
EQUIPMENT BLANK	58283	6.35	217731	7.78	130176	9.55
MW-4S	63251	6.35	230954	7.78	140627	9.55

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV106	**Analysis Date**	: 03/13/25 11:03:00
Sample No	: WG2040166-3	**Lab File ID**	: ABN0313

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG2040166-3	279147	10.99	296814	13.62	301762	15.08
Upper Limit	558294	11.49	593628	14.12	603524	15.58
Lower Limit	139574	10.49	148407	13.12	150881	14.58
Sample ID						
WG2040166-4 CCAL	269979	10.99	-	-	-	-
WG2040166-5 CCAL	278241	10.99	-	-	-	-
WG2038207-1 BLANK	296186	10.99	293756	13.61	309941	15.07
WG2038207-2 LCS	316714	10.99	313755	13.62	327342	15.08
WG2038207-3 LCSD	453536	10.99	464174	13.62	488339	15.08
MW-4D2	337486	10.99	330345	13.61	353295	15.07
MW-12S	281936	10.99	277169	13.62	292686	15.08
SCDOH_DR	290529	10.99	285118	13.61	298227	15.08
EQUIPMENT BLANK	265633	10.99	261008	13.62	268137	15.08
MW-4S	286315	10.99	275880	13.62	286107	15.08

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

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

* Values outside of QC limits

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14021-1
Page: 1

ABN Extractables - EPA 8270E (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	2	1.06	ug/l	37-111	30	37-111	30	30			
Benzidine	92-87-5	20	8.14	ug/l	10-75	30	10-75	30	30			
1,2,4-Trichlorobenzene	120-82-1	5	0.581	ug/l	39-98	30	39-98	30	30			
Hexachlorobenzene	118-74-1	2	0.69	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroethyl)ether	111-44-4	2	0.884	ug/l	40-140	30	40-140	30	30			
2-Chloronaphthalene	91-58-7	2	0.538	ug/l	40-140	30	40-140	30	30			
1,2-Dichlorobenzene	95-50-1	2	0.636	ug/l	40-140	30	40-140	30	30			
1,3-Dichlorobenzene	541-73-1	2	0.642	ug/l	40-140	30	40-140	30	30			
1,4-Dichlorobenzene	106-46-7	2	0.463	ug/l	36-97	30	36-97	30	30			
3,3'-Dichlorobenzidine	91-94-1	5	0.854	ug/l	40-140	30	40-140	30	30			
2,4-Dinitrotoluene	121-14-2	5	0.382	ug/l	48-143	30	48-143	30	30			
2,6-Dinitrotoluene	606-20-2	5	0.368	ug/l	40-140	30	40-140	30	30			
Azobenzene	122-66-7	2	0.81	ug/l	40-140	30	40-140	30	30			
Fluoranthene	206-44-0	2	0.653	ug/l	40-140	30	40-140	30	30			
4-Chlorophenyl phenyl ether	7005-72-3	2	0.795	ug/l	40-140	30	40-140	30	30			
4-Bromophenyl phenyl ether	101-55-3	2	0.632	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroisopropyl)ether	108-60-1	2	1.75	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroethoxy)methane	111-91-1	5	1.49	ug/l	40-140	30	40-140	30	30			
Hexachlorobutadiene	87-68-3	2	0.6	ug/l	40-140	30	40-140	30	30			
Hexachlorocyclopentadiene	77-47-4	20	0.606	ug/l	40-140	30	40-140	30	30			
Hexachloroethane	67-72-1	2	0.44	ug/l	40-140	30	40-140	30	30			
Isophorone	78-59-1	5	0.657	ug/l	40-140	30	40-140	30	30			
Naphthalene	91-20-3	2	0.669	ug/l	40-140	30	40-140	30	30			
Nitrobenzene	98-95-3	2	0.656	ug/l	40-140	30	40-140	30	30			
NitrosoDiPhenylAmine(NDPA)/DPA	86-30-6	2	0.65	ug/l	40-140	30	40-140	30	30			
n-Nitrosodi-n-propylamine	621-64-7	5	0.771	ug/l	29-132	30	29-132	30	30			
Bis(2-Ethylhexyl)phthalate	117-81-7	3	1.51	ug/l	40-140	30	40-140	30	30			
Butyl benzyl phthalate	85-68-7	5	2.18	ug/l	40-140	30	40-140	30	30			
Di-n-butylphthalate	84-74-2	5	0.58	ug/l	40-140	30	40-140	30	30			
Di-n-octylphthalate	117-84-0	5	2.39	ug/l	40-140	30	40-140	30	30			
Diethyl phthalate	84-66-2	5	4.3	ug/l	40-140	30	40-140	30	30			
Dimethyl phthalate	131-11-3	5	4.44	ug/l	40-140	30	40-140	30	30			
Benzo(a)anthracene	56-55-3	2	0.767	ug/l	40-140	30	40-140	30	30			
Benzo(a)pyrene	50-32-8	2	0.447	ug/l	40-140	30	40-140	30	30			
Benzo(b)fluoranthene	205-99-2	2	0.814	ug/l	40-140	30	40-140	30	30			
Benzo(k)fluoranthene	207-08-9	2	0.816	ug/l	40-140	30	40-140	30	30			
Chrysene	218-01-9	2	0.828	ug/l	40-140	30	40-140	30	30			
Acenaphthylene	208-96-8	2	0.59	ug/l	45-123	30	45-123	30	30			
Anthracene	120-12-7	2	0.79	ug/l	40-140	30	40-140	30	30			
Benzo(ghi)perylene	191-24-2	2	0.77	ug/l	40-140	30	40-140	30	30			
Fluorene	86-73-7	2	1.05	ug/l	40-140	30	40-140	30	30			
Phenanthrene	85-01-8	2	0.992	ug/l	40-140	30	40-140	30	30			

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

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14021-1

ABN Extractables - EPA 8270E (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dibenzo(a,h)anthracene	53-70-3	2	0.452	ug/l	40-140	30	40-140	30	30			
Indeno(1,2,3-cd)Pyrene	193-39-5	2	0.943	ug/l	40-140	30	40-140	30	30			
Pyrene	129-00-0	2	0.704	ug/l	26-127	30	26-127	30	30			
Biphenyl	92-52-4	2	0.635	ug/l	40-140	30	40-140	30	30			
Aniline	62-53-3	2	0.482	ug/l	40-140	30	40-140	30	30			
4-Chloroaniline	106-47-8	5	0.647	ug/l	40-140	30	40-140	30	30			
1-Methylnaphthalene	90-12-0	2	0.595	ug/l	41-103	30	41-103	30	30			
2-Nitroaniline	88-74-4	5	0.519	ug/l	52-143	30	52-143	30	30			
3-Nitroaniline	99-09-2	5	0.574	ug/l	25-145	30	25-145	30	30			
4-Nitroaniline	100-01-6	5	0.581	ug/l	51-143	30	51-143	30	30			
Dibenzofuran	132-64-9	2	0.823	ug/l	40-140	30	40-140	30	30			
2-Methylnaphthalene	91-57-6	2	0.677	ug/l	40-140	30	40-140	30	30			
n-Nitrosodimethylamine	62-75-9	2	0.524	ug/l	22-74	30	22-74	30	30			
2,4,6-Trichlorophenol	88-06-2	5	0.494	ug/l	30-130	30	30-130	30	30			
P-Chloro-M-Cresol	59-50-7	2	0.406	ug/l	23-97	30	23-97	30	30			
2-Chlorophenol	95-57-8	2	0.405	ug/l	27-123	30	27-123	30	30			
2,4-Dichlorophenol	120-83-2	5	0.527	ug/l	30-130	30	30-130	30	30			
2,4-Dimethylphenol	105-67-9	5	1.1	ug/l	30-130	30	30-130	30	30			
2-Nitrophenol	88-75-5	10	0.463	ug/l	30-130	30	30-130	30	30			
4-Nitrophenol	100-02-7	10	1.14	ug/l	10-80	30	10-80	30	30			
2,4-Dinitrophenol	51-28-5	20	3.55	ug/l	20-130	30	20-130	30	30			
4,6-Dinitro-o-cresol	534-52-1	10	5.42	ug/l	20-164	30	20-164	30	30			
Pentachlorophenol	87-86-5	10	1.95	ug/l	9-103	30	9-103	30	30			
Phenol	108-95-2	5	1.3	ug/l	12-110	30	12-110	30	30			
2-Methylphenol	95-48-7	5	1.1	ug/l	30-130	30	30-130	30	30			
3-Methylphenol/4-Methylphenol	106-44-5	5	0.55	ug/l	30-130	30	30-130	30	30			
2,4,5-Trichlorophenol	95-95-4	5	0.381	ug/l	30-130	30	30-130	30	30			
Benzoic Acid	65-85-0	50	12.9	ug/l	10-164	30	10-164	30	30			
Benzyl Alcohol	100-51-6	2	0.698	ug/l	26-116	30	26-116	30	30			
Carbazole	86-74-8	2	0.759	ug/l	55-144	30	55-144	30	30			
Pyridine	110-86-1	3.5	0.905	ug/l	10-66	30	10-66	30	30			
2-Fluorophenol	*367-12-4*									*21-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*15-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-120*		
4-Terphenyl-d14	*1718-51-0*									*41-149*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
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Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
Page: 1

ABN Extractables - EPA 8270E (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	133.6	17.3012	ug/kg	31-137	50	31-137	50	50			
Benzidine	92-87-5	551.1	181.028	ug/kg	10-66	50	10-66	50	50			
1,2,4-Trichlorobenzene	120-82-1	167	19.1048	ug/kg	38-107	50	38-107	50	50			
Hexachlorobenzene	118-74-1	100.2	18.704	ug/kg	40-140	50	40-140	50	50			
Bis(2-chloroethyl)ether	111-44-4	150.3	22.6452	ug/kg	40-140	50	40-140	50	50			
2-Chloronaphthalene	91-58-7	167	16.5664	ug/kg	40-140	50	40-140	50	50			
1,2-Dichlorobenzene	95-50-1	167	29.9932	ug/kg	40-140	50	40-140	50	50			
1,3-Dichlorobenzene	541-73-1	167	28.724	ug/kg	40-140	50	40-140	50	50			
1,4-Dichlorobenzene	106-46-7	167	29.1582	ug/kg	28-104	50	28-104	50	50			
3,3'-Dichlorobenzidine	91-94-1	167	44.422	ug/kg	40-140	50	40-140	50	50			
2,4-Dinitrotoluene	121-14-2	167	33.4	ug/kg	40-132	50	40-132	50	50			
2,6-Dinitrotoluene	606-20-2	167	28.6572	ug/kg	40-140	50	40-140	50	50			
Azobenzene	122-66-7	167	16.032	ug/kg	40-140	50	40-140	50	50			
Fluoranthene	206-44-0	100.2	19.1716	ug/kg	40-140	50	40-140	50	50			
4-Chlorophenyl phenyl ether	7005-72-3	167	17.869	ug/kg	40-140	50	40-140	50	50			
4-Bromophenyl phenyl ether	101-55-3	167	25.4842	ug/kg	40-140	50	40-140	50	50			
Bis(2-chloroisopropyl)ether	108-60-1	200.4	28.5236	ug/kg	40-140	50	40-140	50	50			
Bis(2-chloroethoxy)methane	111-91-1	180.36	16.7334	ug/kg	40-117	50	40-117	50	50			
Hexachlorobutadiene	87-68-3	167	24.4488	ug/kg	40-140	50	40-140	50	50			
Hexachlorocyclopentadiene	77-47-4	477.62	151.302	ug/kg	40-140	50	40-140	50	50			
Hexachloroethane	67-72-1	133.6	27.0206	ug/kg	40-140	50	40-140	50	50			
Isophorone	78-59-1	150.3	21.6766	ug/kg	40-140	50	40-140	50	50			
Naphthalene	91-20-3	167	20.3406	ug/kg	40-140	50	40-140	50	50			
Nitrobenzene	98-95-3	150.3	24.716	ug/kg	40-140	50	40-140	50	50			
NitrosoDiPhenylAmine(NDPA)/DPA	86-30-6	133.6	19.0046	ug/kg	36-157	50	36-157	50	50			
n-Nitrosodi-n-propylamine	621-64-7	167	25.7848	ug/kg	32-121	50	32-121	50	50			
Bis(2-Ethylhexyl)phthalate	117-81-7	167	57.782	ug/kg	40-140	50	40-140	50	50			
Butyl benzyl phthalate	85-68-7	167	42.084	ug/kg	40-140	50	40-140	50	50			
Di-n-butylphthalate	84-74-2	167	31.6632	ug/kg	40-140	50	40-140	50	50			
Di-n-octylphthalate	117-84-0	167	56.78	ug/kg	40-140	50	40-140	50	50			
Diethyl phthalate	84-66-2	167	15.4642	ug/kg	40-140	50	40-140	50	50			
Dimethyl phthalate	131-11-3	167	35.07	ug/kg	40-140	50	40-140	50	50			
Benzo(a)anthracene	56-55-3	100.2	18.8042	ug/kg	40-140	50	40-140	50	50			
Benzo(a)pyrene	50-32-8	133.6	40.748	ug/kg	40-140	50	40-140	50	50			
Benzo(b)fluoranthene	205-99-2	100.2	28.1228	ug/kg	40-140	50	40-140	50	50			
Benzo(k)fluoranthene	207-08-9	100.2	26.72	ug/kg	40-140	50	40-140	50	50			
Chrysene	218-01-9	100.2	17.368	ug/kg	40-140	50	40-140	50	50			
Acenaphthylene	208-96-8	133.6	25.7848	ug/kg	40-140	50	40-140	50	50			
Anthracene	120-12-7	100.2	32.565	ug/kg	40-140	50	40-140	50	50			
Benzo(ghi)perylene	191-24-2	133.6	19.6392	ug/kg	40-140	50	40-140	50	50			
Fluorene	86-73-7	167	16.2324	ug/kg	40-140	50	40-140	50	50			
Phenanthrene	85-01-8	100.2	20.3072	ug/kg	40-140	50	40-140	50	50			

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Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1

ABN Extractables - EPA 8270E (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dibenzo(a,h)anthracene	53-70-3	100.2	19.3052	ug/kg	40-140	50	40-140	50	50			
Indeno(1,2,3-cd)Pyrene	193-39-5	133.6	23.2798	ug/kg	40-140	50	40-140	50	50			
Pyrene	129-00-0	100.2	16.5998	ug/kg	35-142	50	35-142	50	50			
Biphenyl	92-52-4	380.76	21.71	ug/kg	37-127	50	37-127	50	50			
Aniline	62-53-3	200.4	78.824	ug/kg	40-140	50	40-140	50	50			
4-Chloroaniline	106-47-8	167	30.394	ug/kg	40-140	50	40-140	50	50			
1-Methylnaphthalene	90-12-0	167	19.372	ug/kg	26-130	50	26-130	50	50			
2-Nitroaniline	88-74-4	167	32.1976	ug/kg	47-134	50	47-134	50	50			
3-Nitroaniline	99-09-2	167	31.4962	ug/kg	26-129	50	26-129	50	50			
4-Nitroaniline	100-01-6	167	69.138	ug/kg	41-125	50	41-125	50	50			
Dibenzofuran	132-64-9	167	15.7982	ug/kg	40-140	50	40-140	50	50			
2-Methylnaphthalene	91-57-6	200.4	20.1736	ug/kg	40-140	50	40-140	50	50			
n-Nitrosodimethylamine	62-75-9	334	32.064	ug/kg	22-100	50	22-100	50	50			
2,4,6-Trichlorophenol	88-06-2	100.2	31.6632	ug/kg	30-130	50	30-130	50	50			
P-Chloro-M-Cresol	59-50-7	167	24.883	ug/kg	26-103	50	26-103	50	50			
2-Chlorophenol	95-57-8	167	19.7394	ug/kg	25-102	50	25-102	50	50			
2,4-Dichlorophenol	120-83-2	150.3	26.8536	ug/kg	30-130	50	30-130	50	50			
2,4-Dimethylphenol	105-67-9	167	55.11	ug/kg	30-130	50	30-130	50	50			
2-Nitrophenol	88-75-5	360.72	62.792	ug/kg	30-130	50	30-130	50	50			
4-Nitrophenol	100-02-7	233.8	68.136	ug/kg	11-114	50	11-114	50	50			
2,4-Dinitrophenol	51-28-5	801.6	77.822	ug/kg	4-130	50	4-130	50	50			
4,6-Dinitro-o-cresol	534-52-1	434.2	80.16	ug/kg	10-130	50	10-130	50	50			
Pentachlorophenol	87-86-5	133.6	36.74	ug/kg	17-109	50	17-109	50	50			
Phenol	108-95-2	167	25.217	ug/kg	26-90	50	26-90	50	50			
2-Methylphenol	95-48-7	167	25.885	ug/kg	30-130.	50	30-130.	50	50			
3-Methylphenol/4-Methylphenol	106-44-5	240.48	26.1522	ug/kg	30-130	50	30-130	50	50			
2,4,5-Trichlorophenol	95-95-4	167	31.9972	ug/kg	30-130	50	30-130	50	50			
Benzoic Acid	65-85-0	541.08	169.004	ug/kg	10-110	50	10-110	50	50			
Benzyl Alcohol	100-51-6	167	51.102	ug/kg	40-140	50	40-140	50	50			
Carbazole	86-74-8	167	16.2324	ug/kg	54-128	50	54-128	50	50			
Pyridine	110-86-1	180.36	63.46	ug/kg	10-93	50	10-93	50	50			
2-Fluorophenol	*367-12-4*									*25-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*30-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-136*		
4-Terphenyl-d14	*1718-51-0*									*18-120*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
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Semivolatile Sample Data

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-01	**Date Collected**	: 03/06/25 10:30
Client ID	: MW-4S	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/13/25 18:42
Sample Matrix	: WATER	**Date Extracted**	: 03/08/25
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 12607-01	**Analyst**	: JG
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-01	**Date Collected**	: 03/06/25 10:30
Client ID	: MW-4S	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/13/25 18:42
Sample Matrix	: WATER	**Date Extracted**	: 03/08/25
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 12607-01	**Analyst**	: JG
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	ND	5.0	0.35	U
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-02	**Date Collected**	: 03/06/25 10:24
Client ID	: MW-4D2	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/13/25 16:45
Sample Matrix	: WATER	**Date Extracted**	: 03/08/25
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 12607-02	**Analyst**	: JG
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	3.6	3.0	1.4	
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-02	**Date Collected**	: 03/06/25 10:24
Client ID	: MW-4D2	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/13/25 16:45
Sample Matrix	: WATER	**Date Extracted**	: 03/08/25
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 12607-02	**Analyst**	: JG
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	0.50	5.0	0.35	J
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-03	**Date Collected**	: 03/06/25 09:13
Client ID	: MW-12S	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/13/25 17:08
Sample Matrix	: WATER	**Date Extracted**	: 03/08/25
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 12607-03	**Analyst**	: JG
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-03	**Date Collected**	: 03/06/25 09:13
Client ID	: MW-12S	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/13/25 17:08
Sample Matrix	: WATER	**Date Extracted**	: 03/08/25
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 12607-03	**Analyst**	: JG
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	ND	5.0	0.35	U
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-04	**Date Collected**	: 03/06/25 08:46
Client ID	: MW-12D	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/13/25 18:52
Sample Matrix	: WATER	**Date Extracted**	: 03/08/25
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 12607-04	**Analyst**	: JG
Sample Amount	: 100 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-04	**Date Collected**	: 03/06/25 08:46
Client ID	: MW-12D	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/13/25 18:52
Sample Matrix	: WATER	**Date Extracted**	: 03/08/25
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 12607-04	**Analyst**	: JG
Sample Amount	: 100 ml	**Instrument ID**	: DAKOTA
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	ND	5.0	0.35	U
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-05	**Date Collected**	: 03/06/25 11:51
Client ID	: SCDOH_DR	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/13/25 17:55
Sample Matrix	: WATER	**Date Extracted**	: 03/08/25
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 12607-05	**Analyst**	: JG
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-05	**Date Collected**	: 03/06/25 11:51
Client ID	: SCDOH_DR	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/13/25 17:55
Sample Matrix	: WATER	**Date Extracted**	: 03/08/25
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 12607-05	**Analyst**	: JG
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	ND	5.0	0.35	U
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-06	**Date Collected**	: 03/06/25 12:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/13/25 18:18
Sample Matrix	: Equipment Blank	**Date Extracted**	: 03/08/25
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 12607-06	**Analyst**	: JG
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	3.2	3.0	1.4	
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-06	**Date Collected**	: 03/06/25 12:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/13/25 18:18
Sample Matrix	: Equipment Blank	**Date Extracted**	: 03/08/25
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 12607-06	**Analyst**	: JG
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	ND	5.0	0.35	U
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2038207-1	**Date Collected**	: NA
Client ID	: WG2038207-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/13/25 13:27
Sample Matrix	: WATER	**Date Extracted**	: 03/08/25
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 038207-1	**Analyst**	: JG
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2038207-1	**Date Collected**	: NA
Client ID	: WG2038207-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/13/25 13:27
Sample Matrix	: WATER	**Date Extracted**	: 03/08/25
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 038207-1	**Analyst**	: JG
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	ND	5.0	0.35	U
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250313RVT\
Data File : 12607-02.D
Acq On : 13 Mar 2025 4:45 pm
Operator : SV106:jg
Sample : L2512607-02,32,,gmr
Misc : WG2040166,WG2038207,ical22075
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 13 17:40:52 2025
Quant Method : I:\8270\SV106\250313RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 16:35:56 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250313RVT\ABN0313.D
: 2 - I:\8270\SV106\250313RVT\ADP0313.D
: 3 - I:\8270\SV106\250313RVT\AP90313.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.351	152	74373	4.000	ug/ml		0.00
Standard Area 1 = 59871			Recovery = 124.22%				
27) IS2_1,4-Dichlorobenzen...	6.351	152	74373	4.000	ug/ml		0.00
Standard Area 3 = 57135			Recovery = 130.17%				
35) IS1_Naphthalene-d8	7.783	136	270888	4.000	ug/ml	#	0.00
Standard Area 1 = 230532			Recovery = 117.51%				
55) IS2_Naphthalene-d8	7.783	136	270888	4.000	ug/ml	#	0.00
Standard Area 3 = 214914			Recovery = 126.04%				
63) IS1_Acenaphthene-d10	9.550	164	168777	4.000	ug/ml		0.00
Standard Area 1 = 140631			Recovery = 120.01%				
83) IS2_Acenaphthene-d10	9.550	164	168777	4.000	ug/ml		0.00
Standard Area 3 = 134336			Recovery = 125.64%				
86) IS3_Acenaphthene-d10	9.550	164	168777	4.000	ug/ml		0.00
Standard Area 2 = 132555			Recovery = 127.33%				
88) IS1_Phenanthrene-d10	10.988	188	337486	4.000	ug/ml		0.00
Standard Area 1 = 279147			Recovery = 120.90%				
100) IS3_Phenanthrene-d10	10.988	188	337486	4.000	ug/ml		0.00
Standard Area 2 = 278241			Recovery = 121.29%				
104) IS1_Chrysene-d12	13.609	240	330345	4.000	ug/ml		0.00
Standard Area 1 = 296814			Recovery = 111.30%				
113) IS1_Perylene-d12	15.071	264	353295	4.000	ug/ml		0.00
Standard Area 1 = 301762			Recovery = 117.08%				
System Monitoring Compounds							
4) 2-Fluorophenol	4.377	112	16561	0.789	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 39.45%				
7) Phenol-d6	5.985	99	13999	0.569	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 28.45%				
19) Nitrobenzene-d5	7.017	82	17542	0.861	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 86.10%				
46) 2-Fluorobiphenyl	8.911	172	52799	0.844	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 84.40%				
79) 2,4,6-Tribromophenol	10.321	330	11451	1.320	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 66.00%				
96) 4-Terphenyl-d14	12.566	244	77458	0.885	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 88.50%				

Data Path : I:\8270\SV106\250313RVT\
Data File : 12607-02.D
Acq On : 13 Mar 2025 4:45 pm
Operator : SV106:jg
Sample : L2512607-02,32,,gmr
Misc : WG2040166,WG2038207,ical22075
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 13 17:40:52 2025
Quant Method : I:\8270\SV106\250313RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 16:35:56 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250313RVT\ABN0313.D
: 2 - I:\8270\SV106\250313RVT\ADP0313.D
: 3 - I:\8270\SV106\250313RVT\AP90313.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	6.002	94	1345	0.050	ug/ml#	42
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
38) 4-Chloroaniline	0.000		0	N.D.		
40) p-Chloro-m-cresol	0.000		0	N.D.		
43) Hexachlorocyclopentadiene	0.000		0	N.D.		
44) 2,4,6-Trichlorophenol	0.000		0	N.D.		
45) 2,4,5-Trichlorophenol	0.000		0	N.D.		
48) 2-Nitroaniline	0.000		0	N.D.		
51) Dimethyl phthalate	0.000		0	N.D.		
53) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
60) Caprolactam	0.000		0	N.D.	d	
61) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
62) Biphenyl	0.000		0	N.D.		
64) 3-Nitroaniline	0.000		0	N.D.		
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.		
68) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
69) 4-Nitrophenol	0.000		0	N.D.	d	
72) Diethyl phthalate	0.000		0	N.D.	d	
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
77) NDPA/DPA	0.000		0	N.D.		
80) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Data Path : I:\8270\SV106\250313RVT\
Data File : 12607-02.D
Acq On : 13 Mar 2025 4:45 pm
Operator : SV106:jg
Sample : L2512607-02,32,,gmr
Misc : WG2040166,WG2038207,ical22075
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 13 17:40:52 2025
Quant Method : I:\8270\SV106\250313RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 16:35:56 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250313RVT\ABN0313.D
: 2 - I:\8270\SV106\250313RVT\ADP0313.D
: 3 - I:\8270\SV106\250313RVT\AP90313.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
87) Atrazine	0.000		0	N.D.		
91) Carbazole	0.000		0	N.D.		
92) Di-n-butylphthalate	0.000		0	N.D. d		
97) Butyl benzyl phthalate	0.000		0	N.D.		
106) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
108) Bis(2-ethylhexyl)phtha...	13.736	149	11431	0.358	ug/ml#	96
109) Di-n-octylphthalate	0.000		0	N.D. d		

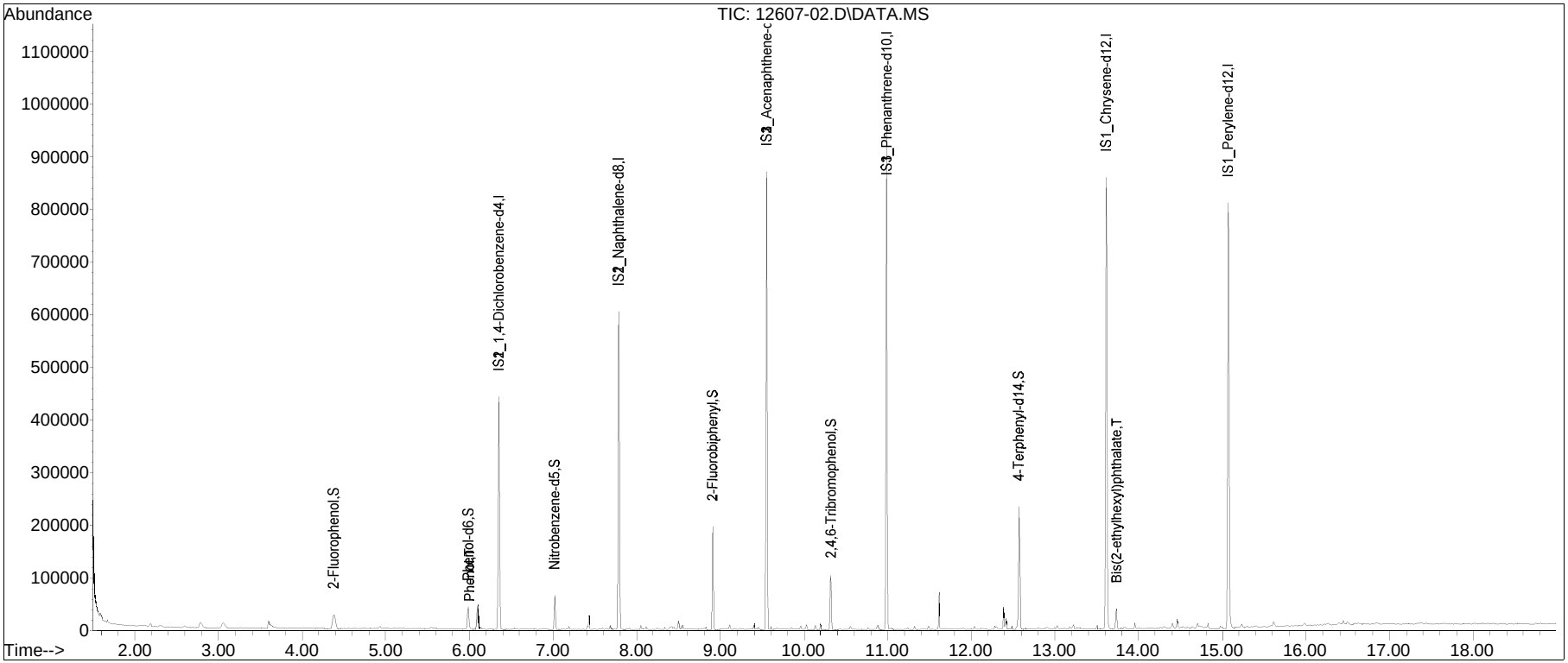
(#) = qualifier out of range (m) = manual integration (+) = signals summed

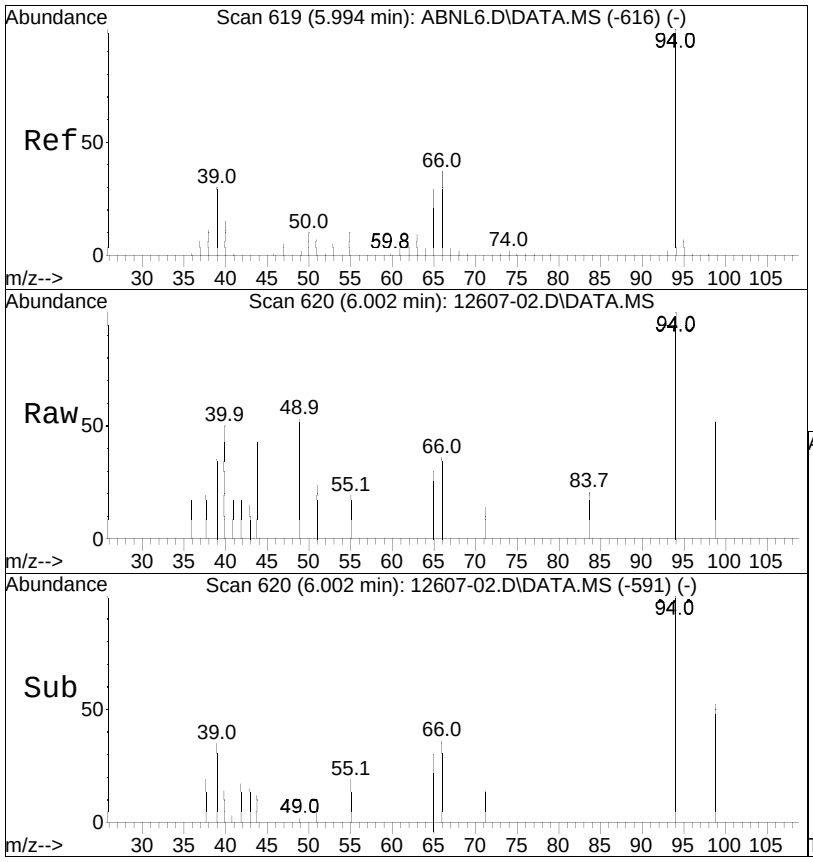
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250313RVT\
Data File : 12607-02.D
Acq On : 13 Mar 2025 4:45 pm
Operator : SV106:jg
Sample : L2512607-02,32,,gmr
Misc : WG2040166,WG2038207,ical22075
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 13 17:40:52 2025
Quant Method : I:\8270\SV106\250313RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 16:35:56 2025
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90313.D•

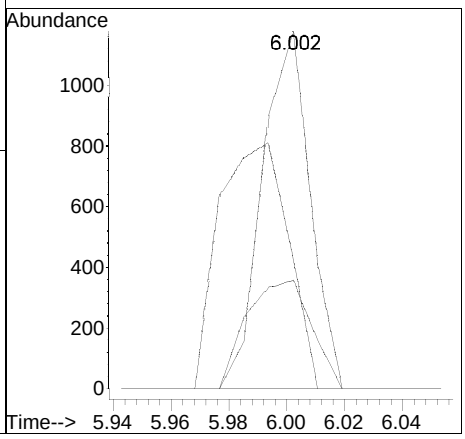


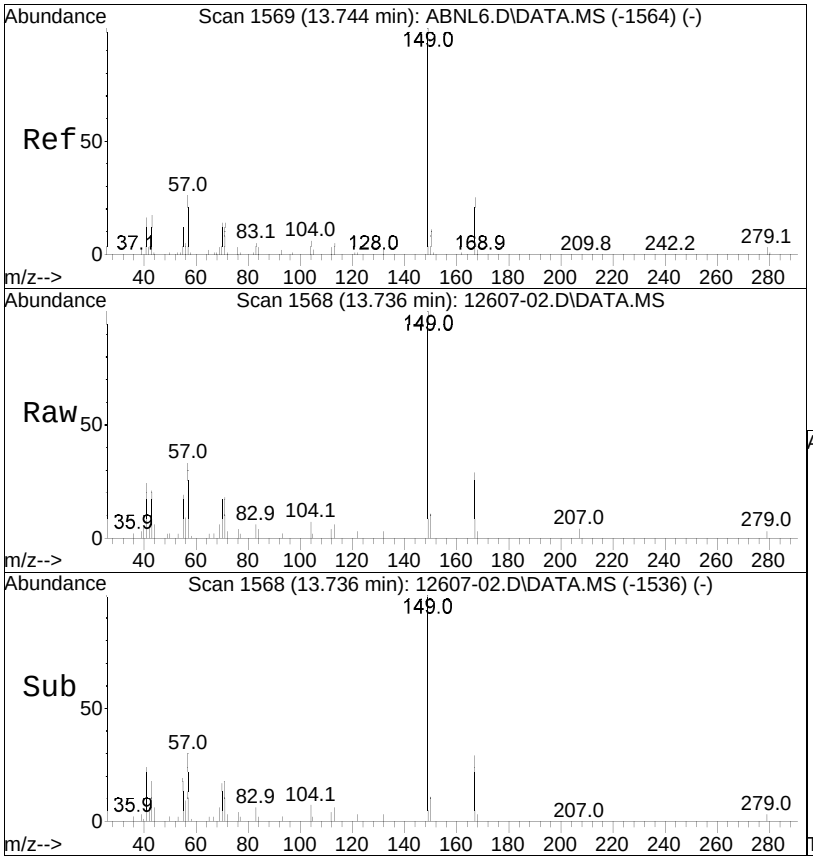


#8
Phenol
Concen: 0.05 ug/ml
RT: 6.002 min Scan# 620
Delta R.T. 0.000 min
Lab File: 12607-02.D
Acq: 13 Mar 2025 4:45 pm

Tgt Ion: 94 Resp: 1345

Ion	Ratio	Lower	Upper
94	100		
65	41.1	26.0	39.0#
66	99.7	33.8	50.8#

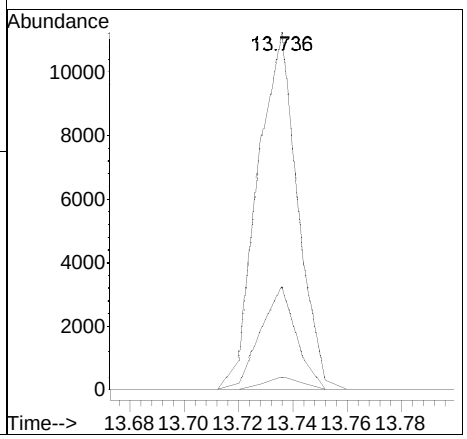




#108
Bis(2-ethylhexyl)phthalate
Concen: 0.36 ug/ml
RT: 13.736 min Scan# 1568
Delta R.T. 0.000 min
Lab File: 12607-02.D
Acq: 13 Mar 2025 4:45 pm

Tgt Ion:149 Resp: 11431

Ion	Ratio	Lower	Upper
149	100		
167	26.1	22.1	33.1
279	0.0	3.0	4.4#



Manual Integration Report

Data Path	: I:\8270\SV106\250313RVT\	QMethod	: FS250311SV106.m
Data File	: 12607-02.D	Operator	: SV106:jg
Date Inj'd	: 3/13/2025 4:45 pm	Instrument	: SV 106
Sample	: L2512607-02,32,,gmr	Quant Date	: 3/13/2025 5:04 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250313RVT\
Data File : 12607-03.D
Acq On : 13 Mar 2025 5:08 pm
Operator : SV106:jg
Sample : L2512607-03,32,,gmr
Misc : WG2040166,WG2038207,ical22075
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 13 17:41:19 2025
Quant Method : I:\8270\SV106\250313RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 16:35:56 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250313RVT\ABN0313.D
: 2 - I:\8270\SV106\250313RVT\ADP0313.D
: 3 - I:\8270\SV106\250313RVT\AP90313.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.351	152	60917	4.000	ug/ml		0.00
Standard Area 1 = 59871			Recovery = 101.75%				
27) IS2_1,4-Dichlorobenzen...	6.351	152	60917	4.000	ug/ml		0.00
Standard Area 3 = 57135			Recovery = 106.62%				
35) IS1_Naphthalene-d8	7.783	136	228470	4.000	ug/ml	#	0.00
Standard Area 1 = 230532			Recovery = 99.11%				
55) IS2_Naphthalene-d8	7.783	136	228470	4.000	ug/ml	#	0.00
Standard Area 3 = 214914			Recovery = 106.31%				
63) IS1_Acenaphthene-d10	9.550	164	141915	4.000	ug/ml		0.00
Standard Area 1 = 140631			Recovery = 100.91%				
83) IS2_Acenaphthene-d10	9.550	164	141915	4.000	ug/ml		0.00
Standard Area 3 = 134336			Recovery = 105.64%				
86) IS3_Acenaphthene-d10	9.550	164	141915	4.000	ug/ml		0.00
Standard Area 2 = 132555			Recovery = 107.06%				
88) IS1_Phenanthrene-d10	10.988	188	281936	4.000	ug/ml	#	0.00
Standard Area 1 = 279147			Recovery = 101.00%				
100) IS3_Phenanthrene-d10	10.988	188	281936	4.000	ug/ml	#	0.00
Standard Area 2 = 278241			Recovery = 101.33%				
104) IS1_Chrysene-d12	13.617	240	277169	4.000	ug/ml		0.00
Standard Area 1 = 296814			Recovery = 93.38%				
113) IS1_Perylene-d12	15.079	264	292686	4.000	ug/ml		0.00
Standard Area 1 = 301762			Recovery = 96.99%				
System Monitoring Compounds							
4) 2-Fluorophenol	4.384	112	5407	0.315	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 15.75%				
7) Phenol-d6	5.985	99	5913	0.294	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 14.70%#				
19) Nitrobenzene-d5	7.017	82	11843	0.710	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 71.00%				
46) 2-Fluorobiphenyl	8.911	172	37673	0.714	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 71.40%				
79) 2,4,6-Tribromophenol	10.321	330	3508	0.481	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 24.05%				
96) 4-Terphenyl-d14	12.566	244	57224	0.782	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 78.20%				

Data Path : I:\8270\SV106\250313RVT\
Data File : 12607-03.D
Acq On : 13 Mar 2025 5:08 pm
Operator : SV106:jg
Sample : L2512607-03,32,,gmr
Misc : WG2040166,WG2038207,ical22075
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 13 17:41:19 2025
Quant Method : I:\8270\SV106\250313RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 16:35:56 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250313RVT\ABN0313.D
: 2 - I:\8270\SV106\250313RVT\ADP0313.D
: 3 - I:\8270\SV106\250313RVT\AP90313.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
38) 4-Chloroaniline	0.000		0	N.D.	d	
40) p-Chloro-m-cresol	0.000		0	N.D.		
43) Hexachlorocyclopentadiene	0.000		0	N.D.		
44) 2,4,6-Trichlorophenol	0.000		0	N.D.		
45) 2,4,5-Trichlorophenol	0.000		0	N.D.		
48) 2-Nitroaniline	0.000		0	N.D.		
51) Dimethyl phthalate	0.000		0	N.D.		
53) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
60) Caprolactam	0.000		0	N.D.		
61) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
62) Biphenyl	0.000		0	N.D.		
64) 3-Nitroaniline	0.000		0	N.D.		
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.		
68) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
69) 4-Nitrophenol	0.000		0	N.D.		
72) Diethyl phthalate	0.000		0	N.D.		
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
77) NDPA/DPA	0.000		0	N.D.		
80) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Data Path : I:\8270\SV106\250313RVT\
Data File : 12607-03.D
Acq On : 13 Mar 2025 5:08 pm
Operator : SV106:jg
Sample : L2512607-03,32,,gmr
Misc : WG2040166,WG2038207,ical22075
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 13 17:41:19 2025
Quant Method : I:\8270\SV106\250313RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 16:35:56 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250313RVT\ABN0313.D
: 2 - I:\8270\SV106\250313RVT\ADP0313.D
: 3 - I:\8270\SV106\250313RVT\AP90313.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
87) Atrazine	0.000		0	N.D.		
91) Carbazole	0.000		0	N.D.		
92) Di-n-butylphthalate	0.000		0	N.D.	d	
97) Butyl benzyl phthalate	0.000		0	N.D.		
106) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
108) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
109) Di-n-octylphthalate	0.000		0	N.D.	d	

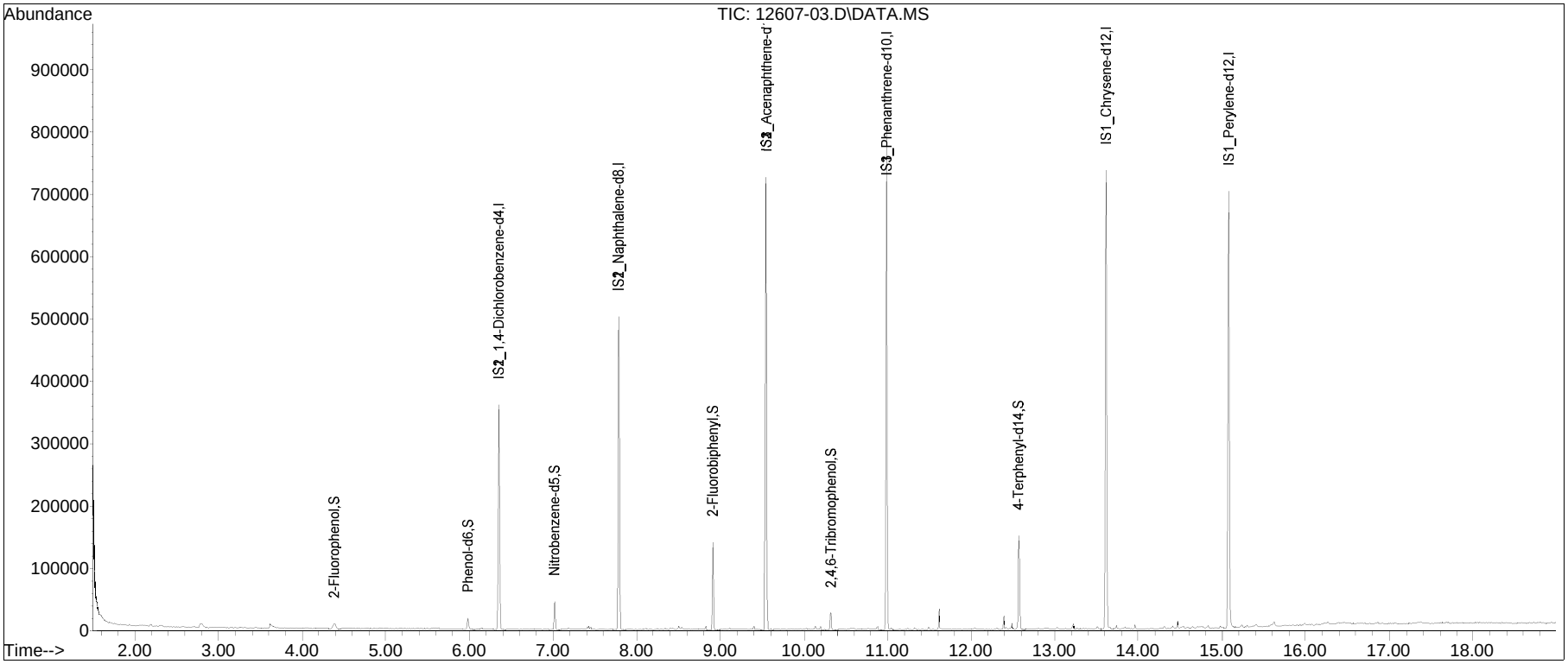
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250313RVT\
Data File : 12607-03.D
Acq On : 13 Mar 2025 5:08 pm
Operator : SV106:jg
Sample : L2512607-03,32,,gmr
Misc : WG2040166,WG2038207,ical22075
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 13 17:41:19 2025
Quant Method : I:\8270\SV106\250313RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 16:35:56 2025
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90313.D•



Manual Integration Report

Data Path	: I:\8270\SV106\250313RVT\	QMethod	: FS250311SV106.m
Data File	: 12607-03.D	Operator	: SV106:jg
Date Inj'd	: 3/13/2025 5:08 pm	Instrument	: SV 106
Sample	: L2512607-03,32,,gmr	Quant Date	: 3/13/2025 5:28 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250313RVT\
Data File : 12607-05.D
Acq On : 13 Mar 2025 5:55 pm
Operator : SV106:jg
Sample : L2512607-05,32,,gmr
Misc : WG2040166,WG2038207,ical22075
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 13 18:16:04 2025
Quant Method : I:\8270\SV106\250313RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 16:35:56 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250313RVT\ABN0313.D
: 2 - I:\8270\SV106\250313RVT\ADP0313.D
: 3 - I:\8270\SV106\250313RVT\AP90313.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.351	152	62671	4.000	ug/ml		0.00
Standard Area 1 = 59871			Recovery = 104.68%				
27) IS2_1,4-Dichlorobenzen...	6.351	152	62671	4.000	ug/ml		0.00
Standard Area 3 = 57135			Recovery = 109.69%				
35) IS1_Naphthalene-d8	7.783	136	232352	4.000	ug/ml	#	0.00
Standard Area 1 = 230532			Recovery = 100.79%				
55) IS2_Naphthalene-d8	7.783	136	232352	4.000	ug/ml	#	0.00
Standard Area 3 = 214914			Recovery = 108.11%				
63) IS1_Acenaphthene-d10	9.550	164	143715	4.000	ug/ml		0.00
Standard Area 1 = 140631			Recovery = 102.19%				
83) IS2_Acenaphthene-d10	9.550	164	143715	4.000	ug/ml		0.00
Standard Area 3 = 134336			Recovery = 106.98%				
86) IS3_Acenaphthene-d10	9.550	164	143715	4.000	ug/ml		0.00
Standard Area 2 = 132555			Recovery = 108.42%				
88) IS1_Phenanthrene-d10	10.988	188	290529	4.000	ug/ml	#	0.00
Standard Area 1 = 279147			Recovery = 104.08%				
100) IS3_Phenanthrene-d10	10.988	188	290529	4.000	ug/ml	#	0.00
Standard Area 2 = 278241			Recovery = 104.42%				
104) IS1_Chrysene-d12	13.609	240	285118	4.000	ug/ml		0.00
Standard Area 1 = 296814			Recovery = 96.06%				
113) IS1_Perylene-d12	15.079	264	298227	4.000	ug/ml		0.00
Standard Area 1 = 301762			Recovery = 98.83%				
System Monitoring Compounds							
4) 2-Fluorophenol	4.377	112	13514	0.764	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 38.20%				
7) Phenol-d6	5.985	99	11441	0.552	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 27.60%				
19) Nitrobenzene-d5	7.017	82	13079	0.762	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 76.20%				
46) 2-Fluorobiphenyl	8.911	172	43573	0.812	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 81.20%				
79) 2,4,6-Tribromophenol	10.321	330	9102	1.232	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 61.60%				
96) 4-Terphenyl-d14	12.566	244	62438	0.828	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 82.80%				

Data Path : I:\8270\SV106\250313RVT\
Data File : 12607-05.D
Acq On : 13 Mar 2025 5:55 pm
Operator : SV106:jg
Sample : L2512607-05,32,,gmr
Misc : WG2040166,WG2038207,ical22075
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 13 18:16:04 2025
Quant Method : I:\8270\SV106\250313RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 16:35:56 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250313RVT\ABN0313.D
: 2 - I:\8270\SV106\250313RVT\ADP0313.D
: 3 - I:\8270\SV106\250313RVT\AP90313.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
38) 4-Chloroaniline	0.000		0	N.D.		
40) p-Chloro-m-cresol	0.000		0	N.D.		
43) Hexachlorocyclopentadiene	0.000		0	N.D.		
44) 2,4,6-Trichlorophenol	0.000		0	N.D.		
45) 2,4,5-Trichlorophenol	0.000		0	N.D.		
48) 2-Nitroaniline	0.000		0	N.D.		
51) Dimethyl phthalate	0.000		0	N.D.		
53) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
60) Caprolactam	0.000		0	N.D.		
61) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
62) Biphenyl	0.000		0	N.D.		
64) 3-Nitroaniline	0.000		0	N.D.		
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.		
68) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
69) 4-Nitrophenol	0.000		0	N.D.		
72) Diethyl phthalate	0.000		0	N.D.		
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
77) NDPA/DPA	0.000		0	N.D.	d	
80) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Data Path : I:\8270\SV106\250313RVT\
Data File : 12607-05.D
Acq On : 13 Mar 2025 5:55 pm
Operator : SV106:jg
Sample : L2512607-05,32,,gmr
Misc : WG2040166,WG2038207,ical22075
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 13 18:16:04 2025
Quant Method : I:\8270\SV106\250313RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 16:35:56 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250313RVT\ABN0313.D
: 2 - I:\8270\SV106\250313RVT\ADP0313.D
: 3 - I:\8270\SV106\250313RVT\AP90313.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
87) Atrazine	0.000		0		N.D.	
91) Carbazole	0.000		0		N.D.	
92) Di-n-butylphthalate	0.000		0		N.D.	d
97) Butyl benzyl phthalate	0.000		0		N.D.	
106) 3,3'-Dichlorobenzidine	0.000		0		N.D.	
108) Bis(2-ethylhexyl)phtha...	0.000		0		N.D.	d
109) Di-n-octylphthalate	0.000		0		N.D.	d

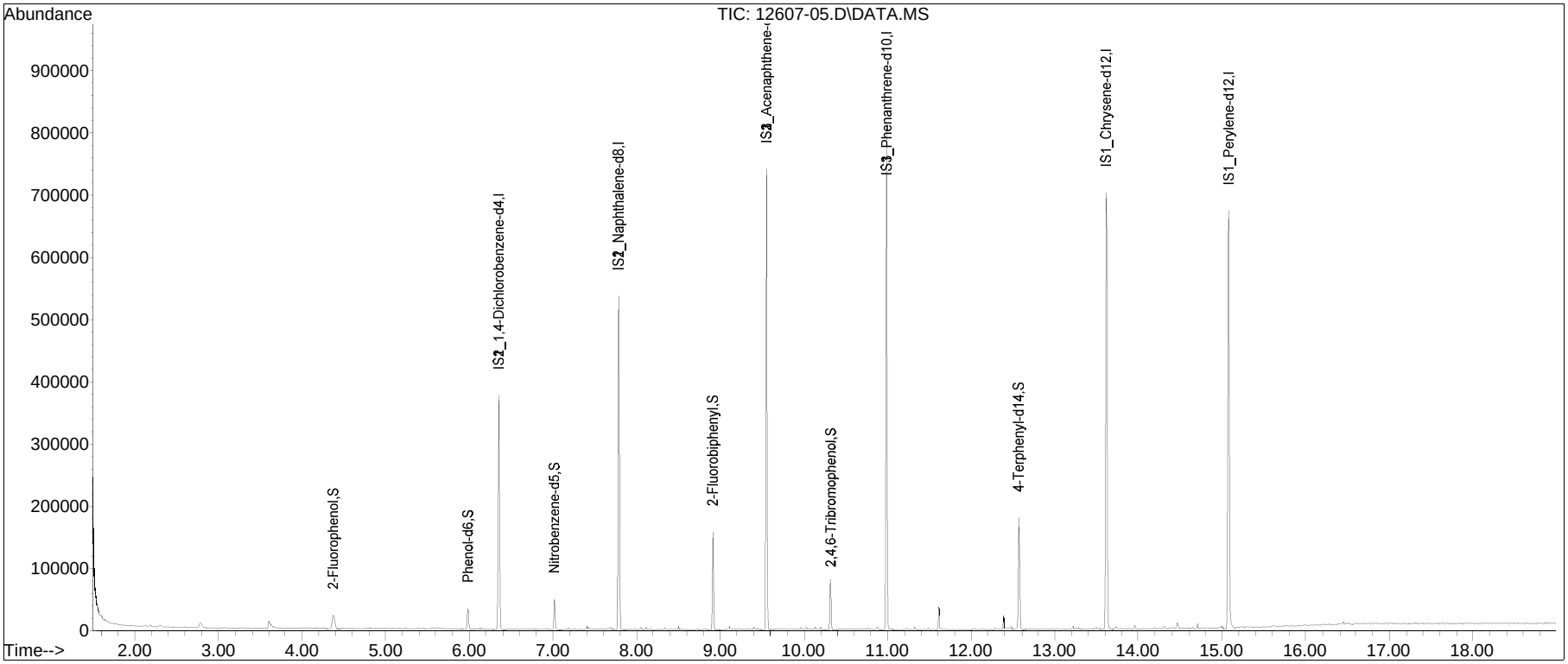
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250313RVT\
Data File : 12607-05.D
Acq On : 13 Mar 2025 5:55 pm
Operator : SV106:jg
Sample : L2512607-05,32,,gmr
Misc : WG2040166,WG2038207,ical22075
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 13 18:16:04 2025
Quant Method : I:\8270\SV106\250313RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 16:35:56 2025
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90313.D•



Manual Integration Report

Data Path	: I:\8270\SV106\250313RVT\	QMethod	: FS250311SV106.m
Data File	: 12607-05.D	Operator	: SV106:jg
Date Inj'd	: 3/13/2025 5:55 pm	Instrument	: SV 106
Sample	: L2512607-05,32,,gmr	Quant Date	: 3/13/2025 6:14 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250313RVT\
Data File : 12607-06.D
Acq On : 13 Mar 2025 6:18 pm
Operator : SV106:jg
Sample : L2512607-06,32,,gmr
Misc : WG2040166,WG2038207,ical22075
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 13 18:40:17 2025
Quant Method : I:\8270\SV106\250313RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 16:35:56 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250313RVT\ABN0313.D
: 2 - I:\8270\SV106\250313RVT\ADP0313.D
: 3 - I:\8270\SV106\250313RVT\AP90313.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.351	152	58283	4.000	ug/ml		0.00
Standard Area 1 = 59871			Recovery = 97.35%				
27) IS2_1,4-Dichlorobenzen...	6.351	152	58283	4.000	ug/ml		0.00
Standard Area 3 = 57135			Recovery = 102.01%				
35) IS1_Naphthalene-d8	7.783	136	217731	4.000	ug/ml	#	0.00
Standard Area 1 = 230532			Recovery = 94.45%				
55) IS2_Naphthalene-d8	7.783	136	217731	4.000	ug/ml	#	0.00
Standard Area 3 = 214914			Recovery = 101.31%				
63) IS1_Acenaphthene-d10	9.550	164	130176	4.000	ug/ml		0.00
Standard Area 1 = 140631			Recovery = 92.57%				
83) IS2_Acenaphthene-d10	9.550	164	130176	4.000	ug/ml		0.00
Standard Area 3 = 134336			Recovery = 96.90%				
86) IS3_Acenaphthene-d10	9.550	164	130176	4.000	ug/ml		0.00
Standard Area 2 = 132555			Recovery = 98.21%				
88) IS1_Phenanthrene-d10	10.988	188	265633	4.000	ug/ml	#	0.00
Standard Area 1 = 279147			Recovery = 95.16%				
100) IS3_Phenanthrene-d10	10.988	188	265633	4.000	ug/ml	#	0.00
Standard Area 2 = 278241			Recovery = 95.47%				
104) IS1_Chrysene-d12	13.617	240	261008	4.000	ug/ml		0.00
Standard Area 1 = 296814			Recovery = 87.94%				
113) IS1_Perylene-d12	15.079	264	268137	4.000	ug/ml		0.00
Standard Area 1 = 301762			Recovery = 88.86%				
System Monitoring Compounds							
4) 2-Fluorophenol	4.390	112	10591	0.644	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 32.20%				
7) Phenol-d6	5.985	99	9373	0.486	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 24.30%				
19) Nitrobenzene-d5	7.017	82	12592	0.789	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 78.90%				
46) 2-Fluorobiphenyl	8.911	172	40013	0.796	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 79.60%				
79) 2,4,6-Tribromophenol	10.321	330	7184	1.073	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 53.65%				
96) 4-Terphenyl-d14	12.566	244	59023	0.857	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 85.70%				

Data Path : I:\8270\SV106\250313RVT\
Data File : 12607-06.D
Acq On : 13 Mar 2025 6:18 pm
Operator : SV106:jg
Sample : L2512607-06,32,,gmr
Misc : WG2040166,WG2038207,ical22075
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 13 18:40:17 2025
Quant Method : I:\8270\SV106\250313RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 16:35:56 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250313RVT\ABN0313.D
: 2 - I:\8270\SV106\250313RVT\ADP0313.D
: 3 - I:\8270\SV106\250313RVT\AP90313.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
38) 4-Chloroaniline	0.000		0	N.D.		
40) p-Chloro-m-cresol	0.000		0	N.D.		
43) Hexachlorocyclopentadiene	0.000		0	N.D.		
44) 2,4,6-Trichlorophenol	0.000		0	N.D.		
45) 2,4,5-Trichlorophenol	0.000		0	N.D.		
48) 2-Nitroaniline	0.000		0	N.D.		
51) Dimethyl phthalate	0.000		0	N.D.		
53) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
60) Caprolactam	0.000		0	N.D.		
61) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
62) Biphenyl	0.000		0	N.D.		
64) 3-Nitroaniline	0.000		0	N.D.		
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.		
68) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
69) 4-Nitrophenol	0.000		0	N.D.	d	
72) Diethyl phthalate	0.000		0	N.D.		
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
77) NDPA/DPA	0.000		0	N.D.		
80) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Data Path : I:\8270\SV106\250313RVT\
Data File : 12607-06.D
Acq On : 13 Mar 2025 6:18 pm
Operator : SV106:jg
Sample : L2512607-06,32,,gmr
Misc : WG2040166,WG2038207,ical22075
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 13 18:40:17 2025
Quant Method : I:\8270\SV106\250313RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 16:35:56 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250313RVT\ABN0313.D
: 2 - I:\8270\SV106\250313RVT\ADP0313.D
: 3 - I:\8270\SV106\250313RVT\AP90313.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
87) Atrazine	0.000		0	N.D.		
91) Carbazole	0.000		0	N.D.		
92) Di-n-butylphthalate	0.000		0	N.D.	d	
97) Butyl benzyl phthalate	0.000		0	N.D.		
106) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
108) Bis(2-ethylhexyl)phtha...	13.736	149	7157M2	0.319	ug/ml	
109) Di-n-octylphthalate	0.000		0	N.D.	d	

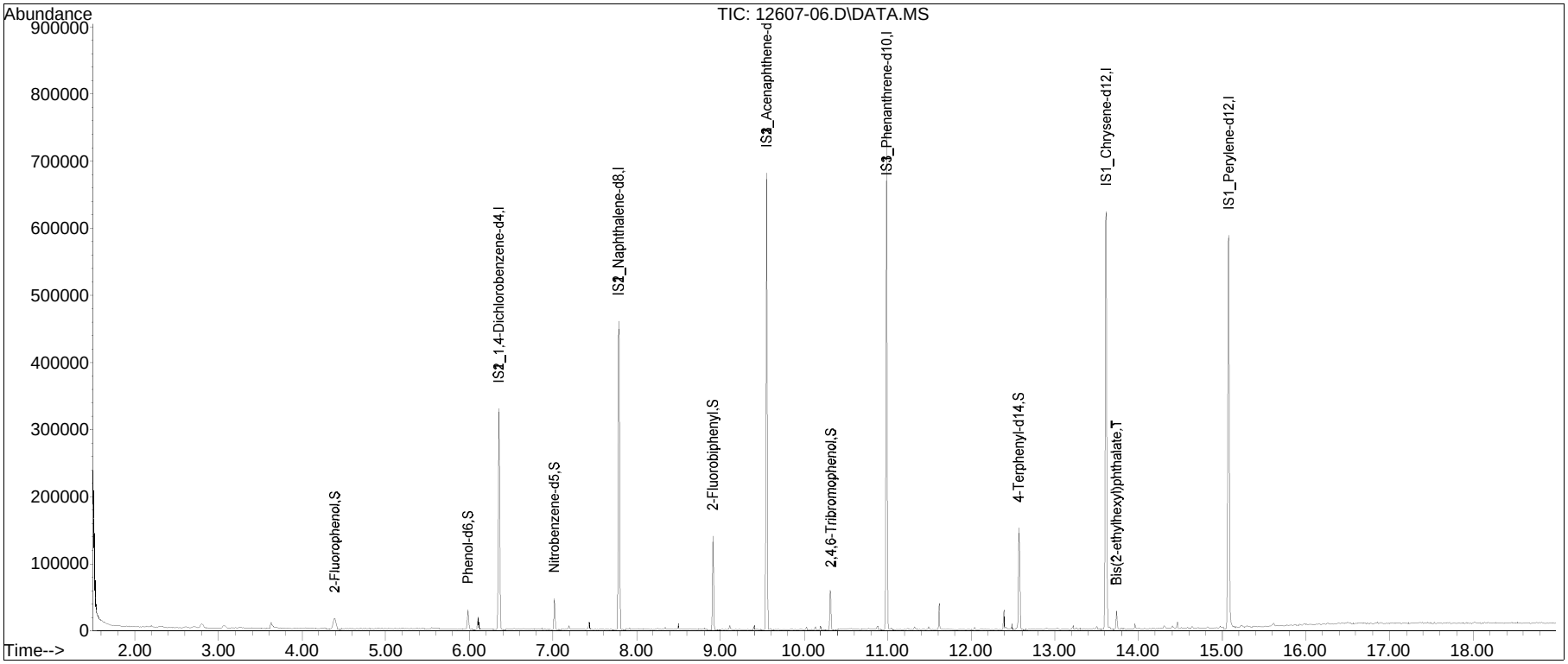
(#) = qualifier out of range (m) = manual integration (+) = signals summed

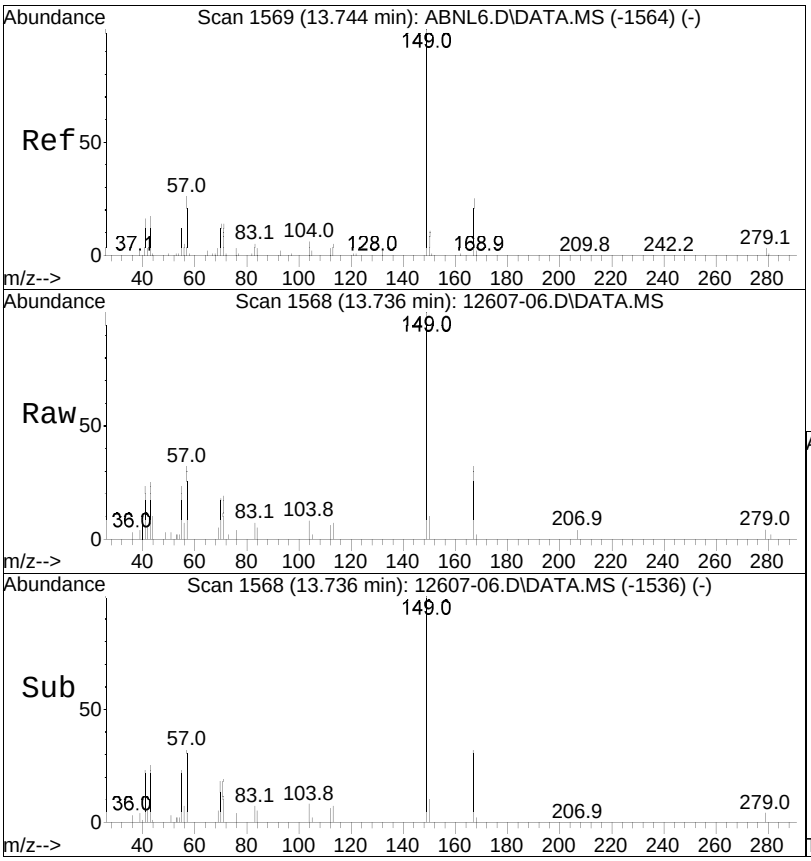
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250313RVT\
Data File : 12607-06.D
Acq On : 13 Mar 2025 6:18 pm
Operator : SV106:jg
Sample : L2512607-06,32,,gmr
Misc : WG2040166,WG2038207,ical22075
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 13 18:40:17 2025
Quant Method : I:\8270\SV106\250313RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 16:35:56 2025
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90313.D•

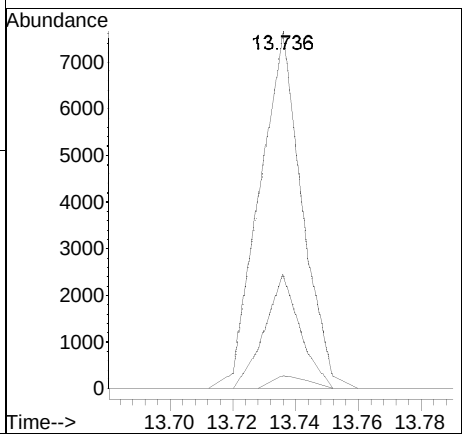




#108
Bis(2-ethylhexyl)phthalate
Concen: 0.32 ug/ml M2
RT: 13.736 min Scan# 1568
Delta R.T. 0.000 min
Lab File: 12607-06.D
Acq: 13 Mar 2025 6:18 pm

Tgt Ion:149 Resp: 7157

Ion	Ratio	Lower	Upper
149	100		
167	0.0	22.1	33.1#
279	0.0	3.0	4.4#

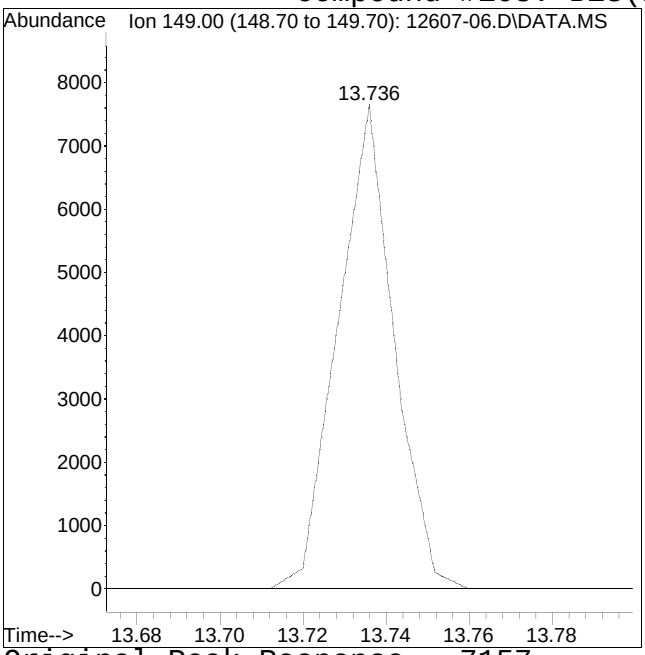


Manual Integration Report

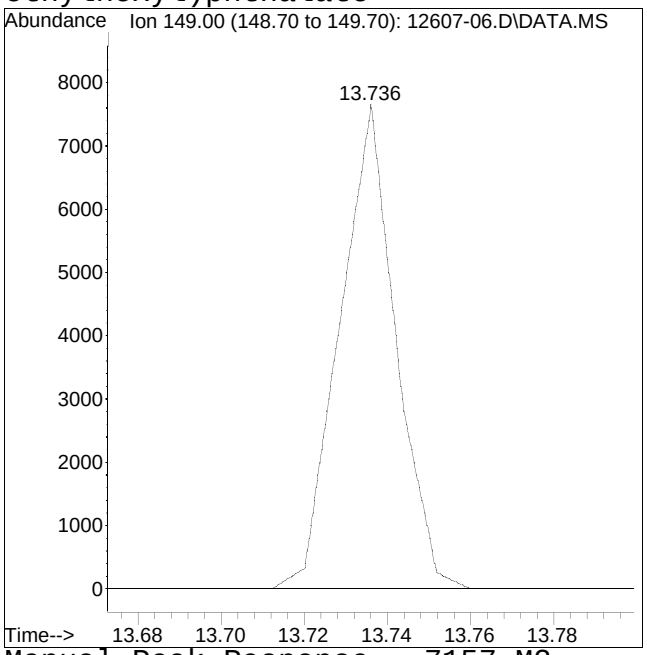
Data Path : I:\8270\SV106\250313RVT\
Data File : 12607-06.D
Date Inj'd : 3/13/2025 6:18 pm
Sample : L2512607-06,32,,gmr

QMethod : FS250311SV106.m
Operator : SV106:jg
Instrument : SV 106
Quant Date : 3/13/2025 6:38 pm

Compound #108: Bis(2-ethylhexyl)phthalate



Original Peak Response = 7157



Manual Peak Response = 7157 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250313RVT\
Data File : 12607-01.D
Acq On : 13 Mar 2025 6:42 pm
Operator : SV106:jg
Sample : L2512607-01,32,,gmr
Misc : WG2040166,WG2038207,ical22075
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 13 20:26:24 2025
Quant Method : I:\8270\SV106\250313RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 16:35:56 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250313RVT\ABN0313.D
: 2 - I:\8270\SV106\250313RVT\ADP0313.D
: 3 - I:\8270\SV106\250313RVT\AP90313.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.351	152	63251	4.000	ug/ml	0.00
Standard Area 1 = 59871			Recovery = 105.65%			
27) IS2_1,4-Dichlorobenzen...	6.351	152	63251	4.000	ug/ml	0.00
Standard Area 3 = 57135			Recovery = 110.70%			
35) IS1_Naphthalene-d8	7.782	136	230954	4.000	ug/ml	# 0.00
Standard Area 1 = 230532			Recovery = 100.18%			
55) IS2_Naphthalene-d8	7.782	136	230954	4.000	ug/ml	# 0.00
Standard Area 3 = 214914			Recovery = 107.46%			
63) IS1_Acenaphthene-d10	9.550	164	140627	4.000	ug/ml	0.00
Standard Area 1 = 140631			Recovery = 100.00%			
83) IS2_Acenaphthene-d10	9.550	164	140627	4.000	ug/ml	0.00
Standard Area 3 = 134336			Recovery = 104.68%			
86) IS3_Acenaphthene-d10	9.550	164	140627	4.000	ug/ml	0.00
Standard Area 2 = 132555			Recovery = 106.09%			
88) IS1_Phenanthrene-d10	10.987	188	286315	4.000	ug/ml	# 0.00
Standard Area 1 = 279147			Recovery = 102.57%			
100) IS3_Phenanthrene-d10	10.987	188	286315	4.000	ug/ml	# 0.00
Standard Area 2 = 278241			Recovery = 102.90%			
104) IS1_Chrysene-d12	13.617	240	275880	4.000	ug/ml	0.00
Standard Area 1 = 296814			Recovery = 92.95%			
113) IS1_Perylene-d12	15.079	264	286107	4.000	ug/ml	0.00
Standard Area 1 = 301762			Recovery = 94.81%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.377	112	6503	0.364	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 18.20%			
7) Phenol-d6	5.985	99	6156	0.294	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 14.70%#			
19) Nitrobenzene-d5	7.017	82	10372	0.599	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 59.90%			
46) 2-Fluorobiphenyl	8.910	172	34651	0.650	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 65.00%			
79) 2,4,6-Tribromophenol	10.321	330	4441	0.614	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 30.70%			
96) 4-Terphenyl-d14	12.566	244	49101	0.661	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 66.10%			

Data Path : I:\8270\SV106\250313RVT\
Data File : 12607-01.D
Acq On : 13 Mar 2025 6:42 pm
Operator : SV106:jg
Sample : L2512607-01,32,,gmr
Misc : WG2040166,WG2038207,ical22075
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 13 20:26:24 2025
Quant Method : I:\8270\SV106\250313RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 16:35:56 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250313RVT\ABN0313.D
: 2 - I:\8270\SV106\250313RVT\ADP0313.D
: 3 - I:\8270\SV106\250313RVT\AP90313.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
38) 4-Chloroaniline	0.000		0	N.D.		
40) p-Chloro-m-cresol	0.000		0	N.D.		
43) Hexachlorocyclopentadiene	0.000		0	N.D.		
44) 2,4,6-Trichlorophenol	0.000		0	N.D.		
45) 2,4,5-Trichlorophenol	0.000		0	N.D.		
48) 2-Nitroaniline	0.000		0	N.D.		
51) Dimethyl phthalate	0.000		0	N.D.		
53) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
60) Caprolactam	0.000		0	N.D.		
61) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
62) Biphenyl	0.000		0	N.D.		
64) 3-Nitroaniline	0.000		0	N.D.		
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.		
68) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
69) 4-Nitrophenol	0.000		0	N.D.	d	
72) Diethyl phthalate	0.000		0	N.D.		
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
77) NDPA/DPA	0.000		0	N.D.		
80) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Data Path : I:\8270\SV106\250313RVT\
Data File : 12607-01.D
Acq On : 13 Mar 2025 6:42 pm
Operator : SV106:jg
Sample : L2512607-01,32,,gmr
Misc : WG2040166,WG2038207,ical22075
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 13 20:26:24 2025
Quant Method : I:\8270\SV106\250313RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 16:35:56 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250313RVT\ABN0313.D
: 2 - I:\8270\SV106\250313RVT\ADP0313.D
: 3 - I:\8270\SV106\250313RVT\AP90313.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
87) Atrazine	0.000		0	N.D.		
91) Carbazole	0.000		0	N.D.		
92) Di-n-butylphthalate	0.000		0	N.D.	d	
97) Butyl benzyl phthalate	0.000		0	N.D.		
106) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
108) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
109) Di-n-octylphthalate	0.000		0	N.D.	d	

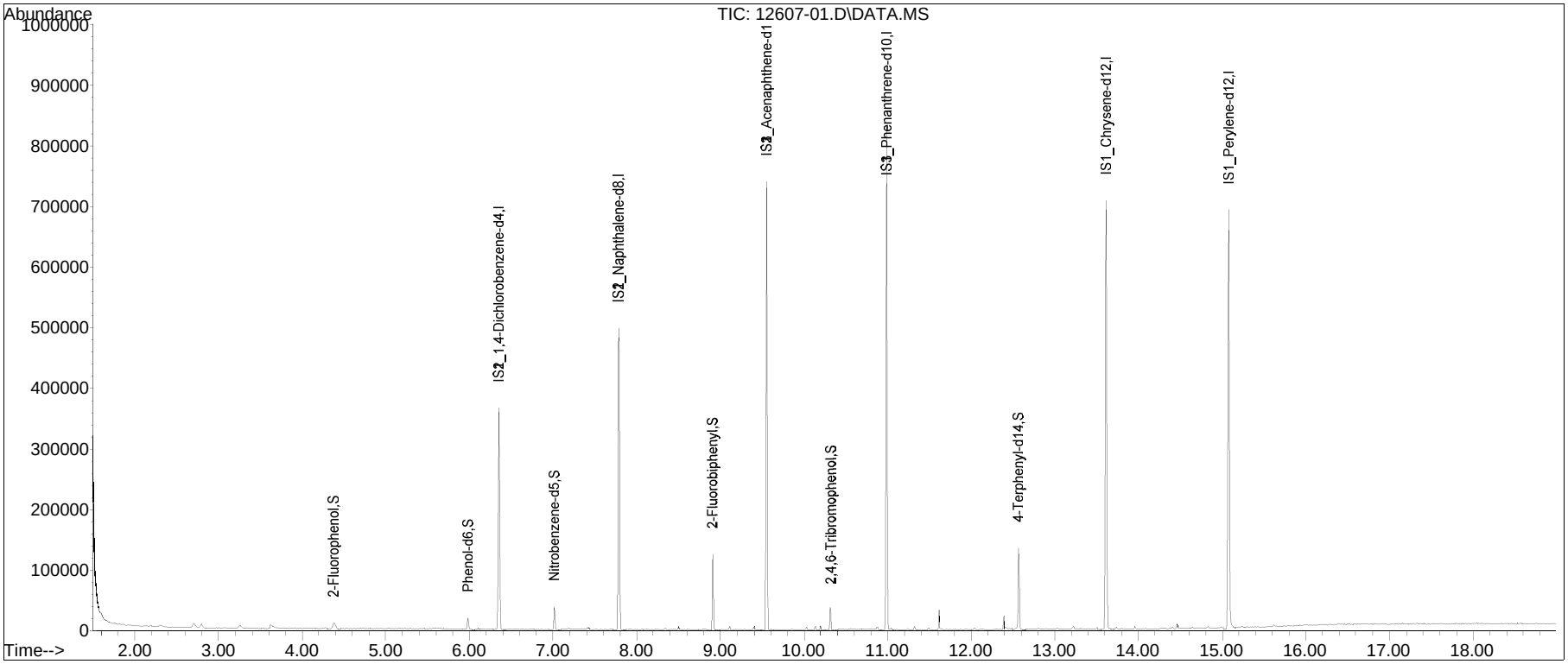
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250313RVT\
Data File : 12607-01.D
Acq On : 13 Mar 2025 6:42 pm
Operator : SV106:jg
Sample : L2512607-01,32,,gmr
Misc : WG2040166,WG2038207,ical22075
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 13 20:26:24 2025
Quant Method : I:\8270\SV106\250313RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 16:35:56 2025
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90313.D•



Manual Integration Report

Data Path	: I:\8270\SV106\250313RVT\	QMethod	: FS250311SV106.m
Data File	: 12607-01.D	Operator	: SV106:jg
Date Inj'd	: 3/13/2025 6:42 pm	Instrument	: SV 106
Sample	: L2512607-01,32,,gmr	Quant Date	: 3/13/2025 7:01 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250313RVT\
Data File : 12607-04.D
Acq On : 13 Mar 2025 6:52 pm
Operator : Dakota:jg
Sample : L2512607-04,32,,
Misc : WG2040097,WG2038207,ical21680
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Mar 13 20:29:30 2025
Quant Method : I:\8270\Dakota\250313RVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 11:54:23 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250313RVT\ABN0313.D
: 2 - I:\8270\Dakota\250313RVT\ADP0313.D
: 3 - I:\8270\Dakota\250313RVT\AP90313.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.283	152	20900	4.000	ug/ml	0.00
Standard Area 1 = 21338			Recovery = 97.95%			
27) IS2_1,4-Dichlorobenzen...	4.283	152	20900	4.000	ug/ml	0.00
Standard Area 3 = 19371			Recovery = 107.89%			
37) IS1_Naphthalene-d8	5.520	136	77106	4.000	ug/ml	0.00
Standard Area 1 = 81396			Recovery = 94.73%			
57) IS2_Naphthalene-d8	5.520	136	77106	4.000	ug/ml	0.00
Standard Area 3 = 75825			Recovery = 101.69%			
65) IS1_Acenaphthene-d10	7.214	164	56503	4.000	ug/ml	0.00
Standard Area 1 = 59061			Recovery = 95.67%			
85) IS2_Acenaphthene-d10	7.214	164	56503	4.000	ug/ml	0.00
Standard Area 3 = 51321			Recovery = 110.10%			
88) IS3_Acenaphthene-d10	7.214	164	56503	4.000	ug/ml	0.00
Standard Area 2 = 50349			Recovery = 112.22%			
90) IS1_Phenanthrene-d10	8.628	188	132200	4.000	ug/ml	0.00
Standard Area 1 = 138043			Recovery = 95.77%			
102) IS3_Phenanthrene-d10	8.628	188	132200	4.000	ug/ml	0.00
Standard Area 2 = 118135			Recovery = 111.91%			
106) IS1_Chrysene-d12	11.202	240	162530	4.000	ug/ml	# 0.00
Standard Area 1 = 179826			Recovery = 90.38%			
115) IS1_Perylene-d12	12.622	264	192887	4.000	ug/ml	0.00
Standard Area 1 = 218659			Recovery = 88.21%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.006	112	4578	0.852	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 42.60%			
7) Phenol-d6	4.000	99	4095	0.595	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 29.75%			
19) Nitrobenzene-d5	4.836	82	5413	0.867	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 86.70%			
48) 2-Fluorobiphenyl	6.595	172	17194	0.901	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 90.10%			
81) 2,4,6-Tribromophenol	7.975	330	7035	1.742	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 87.10%			
98) 4-Terphenyl-d14	10.198	244	33109	0.866	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 86.60%			

Data Path : I:\8270\Dakota\250313RVT\
Data File : 12607-04.D
Acq On : 13 Mar 2025 6:52 pm
Operator : Dakota:jg
Sample : L2512607-04,32,,
Misc : WG2040097,WG2038207,ical21680
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Mar 13 20:29:30 2025
Quant Method : I:\8270\Dakota\250313RVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 11:54:23 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250313RVT\ABN0313.D
: 2 - I:\8270\Dakota\250313RVT\ADP0313.D
: 3 - I:\8270\Dakota\250313RVT\AP90313.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
40) 4-Chloroaniline	0.000		0	N.D.		
42) p-Chloro-m-cresol	0.000		0	N.D.		
45) Hexachlorocyclopentadiene	0.000		0	N.D.		
46) 2,4,6-Trichlorophenol	0.000		0	N.D.		
47) 2,4,5-Trichlorophenol	0.000		0	N.D.		
50) 2-Nitroaniline	0.000		0	N.D.		
53) Dimethyl phthalate	0.000		0	N.D.	d	
55) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
62) Caprolactam	0.000		0	N.D.		
63) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
64) Biphenyl	0.000		0	N.D.		
66) 3-Nitroaniline	0.000		0	N.D.		
68) 2,4-Dinitrophenol	0.000		0	N.D.		
69) Dibenzofuran	0.000		0	N.D.		
70) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
71) 4-Nitrophenol	0.000		0	N.D.		
74) Diethyl phthalate	0.000		0	N.D.		
76) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
77) 4-Nitroaniline	0.000		0	N.D.		
78) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
79) NDPA/DPA	0.000		0	N.D.		
82) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Data Path : I:\8270\Dakota\250313RVT\
Data File : 12607-04.D
Acq On : 13 Mar 2025 6:52 pm
Operator : Dakota:jg
Sample : L2512607-04,32,,
Misc : WG2040097,WG2038207,ical21680
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Mar 13 20:29:30 2025
Quant Method : I:\8270\Dakota\250313RVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 11:54:23 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250313RVT\ABN0313.D
: 2 - I:\8270\Dakota\250313RVT\ADP0313.D
: 3 - I:\8270\Dakota\250313RVT\AP90313.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89)	Atrazine	0.000		0	N.D.		
93)	Carbazole	0.000		0	N.D.		
94)	Di-n-butylphthalate	0.000		0	N.D.	d	
99)	Butyl benzyl phthalate	0.000		0	N.D.		
108)	3,3'-Dichlorobenzidine	0.000		0	N.D.		
110)	Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
111)	Di-n-octylphthalate	0.000		0	N.D.	d	

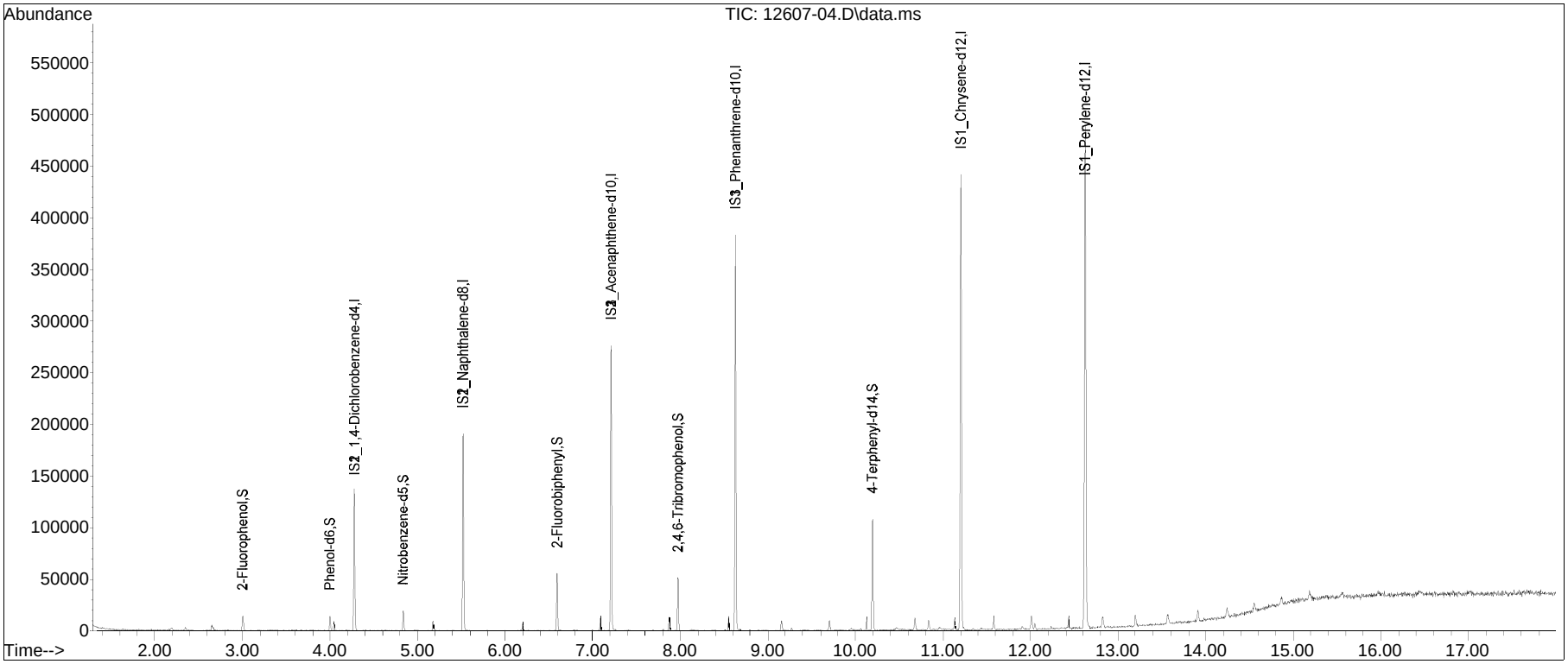
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250313RVT\
Data File : 12607-04.D
Acq On : 13 Mar 2025 6:52 pm
Operator : Dakota:jg
Sample : L2512607-04,32,,
Misc : WG2040097,WG2038207,ical21680
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Mar 13 20:29:30 2025
Quant Method : I:\8270\Dakota\250313RVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 11:54:23 2025
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAP90313.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\250313RVT\	QMethod	: FS241105RVT_Dakota.m
Data File	: 12607-04.D	Operator	: Dakota:jg
Date Inj'd	: 3/13/2025 6:52 pm	Instrument	: Dakota
Sample	: L2512607-04,32,,	Quant Date	: 3/13/2025 7:10 pm

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

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2512607**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: DAKOTA**	**Ical Ref**	**: ICAL21680**
Calibration dates	**: 11/05/24 16:59 11/06/24 04:17**		

Calibration Files

L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =ABNL4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	----------ISTD----------										
2)	t	N-Nitrosodimethylamine	0.688	0.547	0.631	0.657	0.592	0.619	0.625	0.637	0.677	0.630	6.87
3)	t	Pyridine	0.718	0.742	0.925	1.043	0.961	1.016	1.039	1.024	1.118	0.954	14.48
4)	S	2-Fluorophenol	1.049	1.004	1.119	1.011	0.907	1.005	1.012	1.034	1.114	1.028	6.19
5)	T	Aniline	1.820	1.428	1.670	1.497	1.407	1.535	1.513	1.561	1.671	1.567	8.42
6)	t	2-Chlorophenol	1.412	1.055	1.248	1.201	1.124	1.210	1.219	1.242	1.314	1.225	8.34
7)	S	Phenol-d6	1.562	1.289	1.387	1.281	1.108	1.276	1.276	1.308	1.365	1.317	9.16
8)	T	Phenol	1.717	1.324	1.459	1.383	1.257	1.388	1.373	1.397	1.488	1.421	9.16
9)	T	bis(2-Chloroethyl)ether	1.289	0.906	1.073	0.962	0.928	0.981	0.987	0.993	1.037	1.017	11.18
10)	T	1,3-Dichlorobenzene	1.989	1.455	1.700	1.552	1.372	1.510	1.497	1.511	1.602	1.577	11.40
11)	T	1,4-Dichlorobenzene	2.118	1.551	1.603	1.571	1.432	1.536	1.512	1.529	1.633	1.610	12.35
12)	T	1,2-Dichlorobenzene	1.695	1.566	1.655	1.525	1.383	1.466	1.447	1.489	1.583	1.534	6.57
13)	t	Benzyl alcohol	1.016	0.858	0.891	0.896	0.818	0.912	0.930	0.995	1.055	0.930	8.32
14)	T	bis(2-chloroisopropyl)ether	2.239	1.745	1.843	1.773	1.610	1.706	1.707	1.728	1.793	1.794	9.98
15)	T	2-Methylphenol	1.301	1.037	1.137	1.033	0.949	1.014	1.050	1.065	1.130	1.079	9.34
16)	T	Hexachloroethane	0.791	0.505	0.620	0.596	0.507	0.543	0.558	0.571	0.615	0.589	14.63
17)	T	n-Nitrosodi-n-propylamine	1.121	0.834	0.856	0.811	0.724	0.813	0.829	0.866	0.909	0.863	12.65
18)	T	3-Methylphenol/4-Methylphenol	1.510	1.200	1.173	1.153	0.986	1.108	1.108	1.166	1.239	1.182	12.02
19)	S	Nitrobenzene-d5	1.239	1.148	1.175	1.191	1.071	1.176	1.187	1.238	1.328	1.195	5.92
20)	T	Nitrobenzene	1.353	1.122	1.287	1.162	1.081	1.203	1.212	1.254	1.326	1.222	7.51
21)	T	Isophorone	2.724	2.161	2.268	2.038	1.932	2.172	2.181	2.313	2.433	2.247	10.29
22)	T	2-Nitrophenol	0.655	0.587	0.609	0.564	0.538	0.598	0.623	0.674	0.721	0.619	9.18
23)	T	2,4-Dimethylphenol	1.368	1.006	1.085	1.051	0.963	1.062	1.074	1.108	1.188	1.101	10.75
24)	T	bis(2-Chloroethoxy)methane	1.605	1.319	1.550	1.332	1.236	1.352	1.353	1.401	1.451	1.400	8.36
25)	T	2,4-Dichlorophenol	1.548	1.174	1.340	1.190	1.118	1.246	1.245	1.307	1.399	1.285	10.22
26)	T	1,2,4-Trichlorobenzene	1.977	1.522	1.585	1.488	1.349	1.476	1.475	1.515	1.611	1.555	11.25
27)	I	IS2_1,4-Dichlorobenzene-d4	----------ISTD----------										
28)	T	Benzaldehyde	0.535	0.565	0.698	0.703	0.698	0.762	0.770	0.814	0.786	0.703	13.73
29)	T	Acetophenone	1.107	1.282	1.407	1.330	1.361	1.463	1.521	1.608	1.552	1.403	11.02
30)	T	m-Toluidine			1.080	1.092	1.257	1.323	1.390	1.457	1.409	1.287	11.76
31)	T	2-Chloroaniline	1.078	1.270	1.369	1.264	1.363	1.427	1.471	1.559	1.510	1.368	10.81
32)	I	IS3_1,4-Dichlorobenzene-d4	----------ISTD----------										
33)	T	1,4-Dioxane		0.252	0.402	0.398	0.392	0.404	0.400	0.409	0.392	0.381	13.71
34)	t	n-Nitrosodieth		0.349	0.372	0.347	0.382	0.401	0.414	0.437	0.420	0.390	8.57
35)	T	n-Decane	0.828	1.074	1.101	0.967	1.017	1.097	1.087	1.158	1.107	1.048	9.45
36)	t	n-Nitrosopyrro	0.287	0.406	0.461	0.431	0.441	0.486	0.521	0.550	0.537	0.458	17.68

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2512607**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: DAKOTA**	**Ical Ref**	**: ICAL21680**
Calibration dates	**: 11/05/24 16:59 11/06/24 04:17**		

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =ABNL4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

	Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
37) I	IS1_Naphthalene-d8	----------ISTD----------										
38) T	Naphthalene	1.453	1.116	1.167	1.048	0.965	1.022	1.010	1.038	1.082	1.100	13.19
39) T	Benzoic Acid					0.170	0.206	0.226	0.257	0.279	0.228	18.76
40) T	4-Chloroaniline	0.150	0.114	0.123	0.117	0.108	0.118	0.114	0.119	0.125	0.121	9.98
41) T	Hexachlorobutadiene	0.298	0.234	0.285	0.254	0.231	0.250	0.249	0.255	0.270	0.258	8.55
42) T	p-Chloro-m-cresol	0.342	0.278	0.308	0.267	0.246	0.280	0.275	0.298	0.315	0.290	9.94
43) T	2-Methylnaphthalene	1.045	0.738	0.807	0.705	0.659	0.700	0.706	0.729	0.763	0.761	15.02
44) T	1-Methylnaphthalene	0.321	0.228	0.254	0.233	0.207	0.232	0.225	0.231	0.246	0.242	13.41
45) T	Hexachlorocyclopentadiene	0.297	0.225	0.280	0.262	0.240	0.269	0.274	0.291	0.311	0.272	10.00
46) T	2,4,6-Trichlorophenol	0.326	0.279	0.279	0.267	0.250	0.278	0.282	0.300	0.320	0.287	8.51
47) T	2,4,5-Trichlorophenol	0.399	0.300	0.312	0.309	0.278	0.301	0.313	0.325	0.347	0.320	10.95
48) S	2-Fluorobiphenyl	1.386	0.978	1.052	0.941	0.852	0.912	0.902	0.920	0.968	0.990	16.04
49) T	2-Chloronaphthalene	1.113	0.897	0.884	0.813	0.728	0.799	0.774	0.811	0.853	0.852	13.02
50) T	2-Nitroaniline	0.220	0.198	0.212	0.207	0.184	0.216	0.223	0.243	0.260	0.218	10.43
51) T	1,4-Dinitrobenzene	0.093	0.063	0.090	0.090	0.086	0.094	0.101	0.113	0.122	0.095	17.69
52) T	1,3-Dinitrobenzene	0.108	0.093	0.120	0.105	0.098	0.114	0.117	0.129	0.137	0.113	12.53
53) T	Dimethyl phthalate	1.318	0.991	1.021	0.936	0.866	0.923	0.912	0.953	0.998	0.991	13.29
54) T	Acenaphthylene	1.586	1.204	1.302	1.203	1.092	1.183	1.181	1.230	1.286	1.252	11.14
55) T	2,6-Dinitrotoluene	0.192	0.157	0.185	0.174	0.167	0.186	0.187	0.201	0.215	0.185	9.50
56) T	1,2-Dinitrobenzene		0.043	0.065	0.067	0.062	0.070	0.069	0.073	0.080	0.066	16.02
57) I	IS2_Naphthalene-d8	----------ISTD----------										
58) T	a-Terpineol	0.162	0.210	0.212	0.213	0.210	0.235	0.239	0.261	0.251	0.221	13.16
59) T	3-Chloroaniline		0.086	0.112	0.111	0.106	0.125	0.121	0.129	0.125	0.115	12.17
60) T	2,6-Dichlorophenol	0.250	0.246	0.297	0.277	0.286	0.319	0.317	0.339	0.329	0.296	11.35
61) T	1-chloro-2-nitrobenzene	0.068	0.091	0.114	0.114	0.114	0.126	0.124	0.137	0.133	0.113	19.26
62) T	Caprolactam	0.115	0.103	0.112	0.114	0.113	0.127	0.132	0.146	0.142	0.123	12.07
63) T	1,2,4,5-Tetrachlorobenzene	0.355	0.419	0.415	0.393	0.401	0.437	0.417	0.450	0.429	0.413	6.76
64) T	Biphenyl	0.719	0.789	0.880	0.804	0.823	0.897	0.870	0.918	0.876	0.842	7.51
65) I	IS1_Acenaphthene-d10	----------ISTD----------										
66) T	3-Nitroaniline	0.312	0.289	0.294	0.288	0.284	0.310	0.324	0.332	0.349	0.309	7.30
67) T	Acenaphthene	1.665	1.203	1.195	1.092	1.004	1.062	1.049	1.077	1.122	1.163	17.13
68) T	2,4-Dinitrophenol				0.130	0.149	0.172	0.185	0.208	0.226	*L	0.9959
69) T	Dibenzofuran	2.796	2.124	2.085	1.944	1.749	1.824	1.814	1.833	1.885	2.006	16.04
70) T	2,4-Dinitrotoluene	0.373	0.326	0.366	0.349	0.361	0.402	0.410	0.433	0.464	0.387	11.29
71) T	4-Nitrophenol	0.229	0.206	0.209	0.221	0.208	0.233	0.237	0.255	0.273	0.230	9.86
72) T	2,3,5,6-Tetrachlorophenol	0.465	0.419	0.459	0.406	0.390	0.425	0.429	0.454	0.481	0.436	6.86

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2512607**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: DAKOTA**	**Ical Ref**	**: ICAL21680**
Calibration dates	**: 11/05/24 16:59 11/06/24 04:17**		

Calibration Files
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L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
73)	T	2,3,4,6-Tetrachlorophenol	0.536	0.376	0.418	0.411	0.383	0.413	0.421	0.432	0.461	0.428	11.15
74)	T	Diethyl phthalate	2.187	1.601	1.621	1.458	1.366	1.435	1.445	1.489	1.570	1.575	15.53
75)	T	Fluorene	2.060	1.606	1.598	1.495	1.311	1.420	1.399	1.439	1.498	1.536	14.16
76)	T	4-Chlorophenyl-phenylether	1.099	0.823	0.819	0.767	0.683	0.722	0.716	0.736	0.762	0.792	15.66
77)	T	4-Nitroaniline	0.236	0.258	0.299	0.296	0.275	0.312	0.317	0.337	0.357	0.299	12.76
78)	T	4,6-Dinitro-o-cresol	0.240	0.149	0.221	0.215	0.210	0.242	0.251	0.278	0.300	0.234	18.54
79)	T	NDPA/DPA	1.902	1.355	1.398	1.272	1.134	1.220	1.202	1.245	1.300	1.337	16.94
80)	T	Azobenzene	1.550	1.299	1.365	1.219	1.116	1.216	1.210	1.254	1.298	1.281	9.61
81)	S	2,4,6-Tribromophenol	0.315	0.286	0.278	0.265	0.249	0.272	0.276	0.299	0.332	0.286	8.99
82)	T	4-Bromophenyl-phenylether	0.722	0.544	0.560	0.476	0.442	0.474	0.474	0.485	0.517	0.522	16.10
83)	T	Hexachlorobenzene	0.895	0.718	0.682	0.616	0.571	0.586	0.579	0.605	0.656	0.656	15.60
84)	T	Pentachlorophenol	0.372	0.280	0.312	0.320	0.315	0.357	0.379	0.412	0.455	0.356	15.51
85)	I	IS2_Acenaphthene-d10	----------ISTD----------										
86)	T	Dichloran		0.151	0.132	0.142	0.146	0.165	0.185	0.214	0.217	0.169	19.47
87)	T	Pentachloronitrobenzene			0.157	0.173	0.164	0.181	0.190	0.220	0.221	0.187	13.74
88)	I	IS3_Acenaphthene-d10	----------ISTD----------										
89)	T	Atrazine	0.307	0.322	0.368	0.285	0.313	0.342	0.350	0.401	0.400	0.343	11.90
90)	I	IS1_Phenanthrene-d10	----------ISTD----------										
91)	T	Phenanthrene	1.655	1.246	1.214	1.134	1.019	1.085	1.072	1.100	1.119	1.183	16.11
92)	T	Anthracene	1.572	1.147	1.191	1.098	1.017	1.082	1.065	1.115	1.153	1.160	14.06
93)	T	Carbazole	1.327	1.038	1.109	1.013	0.956	1.020	1.001	1.037	1.079	1.064	10.14
94)	T	Di-n-butylphthalate	1.417	1.094	1.207	1.105	1.064	1.185	1.204	1.275	1.309	1.207	9.42
95)	T	Fluoranthene	1.943	1.443	1.460	1.351	1.250	1.321	1.315	1.344	1.374	1.422	14.44
96)	T	Benzidine	0.815	0.657	0.698	0.696	0.708	0.801	0.818	0.853	0.900	0.772	10.90
97)	T	Pyrene	2.028	1.546	1.562	1.479	1.353	1.429	1.397	1.427	1.456	1.520	13.29
98)	S	4-Terphenyl-d14	1.660	1.139	1.202	1.092	1.007	1.066	1.052	1.085	1.114	1.157	16.95
99)	T	Butyl benzyl phthalate	0.567	0.415	0.479	0.447	0.453	0.520	0.541	0.594	0.635	0.517	14.34
100)	I	IS2_Phenanthrene-d10	----------ISTD----------										
101)	T	Diphenamid	0.347	0.380	0.392	0.377	0.390	0.434	0.456	0.494	0.474	0.416	12.13
102)	I	IS3_Phenanthrene-d10	----------ISTD----------										
103)	T	n-Octadecane	0.279	0.354	0.355	0.289	0.309	0.332	0.347	0.369	0.369	0.334	10.10
104)	T	Parathion			0.076	0.062	0.069	0.074	0.086	0.106	0.115	*Q	0.9978
105)	T	3,3'-Dimethylbenzidine				0.425	0.542	0.649	0.734	0.845	0.870	*L	0.9972
106)	I	IS1_Chrysene-d12	----------ISTD----------										
107)	T	Benzo[a]anthracene	1.869	1.383	1.408	1.283	1.164	1.251	1.262	1.278	1.301	1.355	15.16
108)	T	3,3'-Dichlorobenzidine	0.587	0.439	0.489	0.467	0.455	0.503	0.519	0.533	0.552	0.505	9.52

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2512607**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: DAKOTA**	**Ical Ref**	**: ICAL21680**
Calibration dates	**: 11/05/24 16:59 11/06/24 04:17**		

Calibration Files
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L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
109)	T	Chrysene	1.959	1.373	1.454	1.290	1.162	1.224	1.199	1.230	1.250	1.349	18.23
110)	T	bis(2-Ethylhexyl)phthalate	0.831	0.597	0.665	0.632	0.630	0.732	0.775	0.822	0.855	0.726	13.56
111)	T	Di-n-octylphthalate	1.380	1.021	1.044	1.017	1.027	1.217	1.316	1.411	1.473	1.212	15.54
112)	T	Benzo(b)fluoranthene	1.822	1.402	1.469	1.372	1.282	1.313	1.333	1.348	1.437	1.420	11.43
113)	T	Benzo(k)fluoranthene	1.743	1.264	1.425	1.314	1.209	1.355	1.362	1.367	1.409	1.383	10.93
114)	T	Benzo(a)pyrene	1.495	1.196	1.246	1.206	1.127	1.232	1.262	1.289	1.349	1.267	8.34
115)	I	IS1_Perylene-d12	----------ISTD----------										
116)	T	Indeno(1,2,3-cd)pyrene	1.598	1.131	1.193	1.086	1.057	1.169	1.203	1.283	1.387	1.234	13.71
117)	T	Dibenzo[a,h]anthracene	1.503	1.130	1.213	1.140	1.076	1.169	1.186	1.217	1.281	1.213	10.21
118)	T	Benzo(g,h,i)perylene	1.547	1.172	1.230	1.097	1.024	1.118	1.137	1.171	1.234	1.192	12.43

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2512607**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV106**	**Ical Ref**	**: ICAL22075**
Calibration dates	**: 03/11/25 16:50 03/12/25 06:06**		

Calibration Files

L1 =ABNL1.D L2 =ABNL2.D L3 =ABNL3.D L4 =ABNL4.D L5 =ABNL5.D L6 =AP9L6.D L7 =AP9L7.D

L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	----------ISTD----------										
2)	t	N-Nitrosodimethylamine	0.783	0.639	0.806	0.721	0.661	0.702	0.699	0.722	0.729	0.718	7.31
3)	t	Pyridine	1.339	1.093	1.529	1.236	1.201	1.149	1.191	1.244	1.273	1.251	10.09
4)	S	2-Fluorophenol	1.224	1.069	1.213	1.104	1.001	1.105	1.120	1.164	1.155	1.128	6.20
5)	T	Aniline	1.435	1.473	1.919	1.836	1.609	1.811	1.825	1.885	1.851	1.738	10.53
6)	t	2-Chlorophenol	1.198	1.133	1.316	1.271	1.151	1.200	1.235	1.253	1.205	1.218	4.74
7)	S	Phenol-d6	1.413	1.195	1.418	1.380	1.214	1.307	1.307	1.353	1.318	1.323	5.98
8)	T	Phenol	1.689	1.351	1.550	1.470	1.327	1.425	1.435	1.468	1.418	1.459	7.41
9)	T	bis(2-Chloroethyl)ether	1.263	1.082	1.308	1.252	1.050	1.135	1.126	1.130	1.088	1.159	7.91
10)	T	1,3-Dichlorobenzene	1.816	1.456	1.735	1.588	1.418	1.466	1.458	1.484	1.441	1.540	9.30
11)	T	1,4-Dichlorobenzene	1.775	1.571	1.744	1.599	1.419	1.539	1.507	1.527	1.489	1.574	7.42
12)	T	1,2-Dichlorobenzene	1.478	1.599	1.747	1.530	1.349	1.422	1.422	1.444	1.423	1.490	8.06
13)	t	Benzyl alcohol	0.936	0.785	0.924	0.877	0.840	0.905	0.944	0.994	0.988	0.910	7.45
14)	T	bis(2-chloroisopropyl)ether	3.091	2.730	3.138	2.726	2.446	2.605	2.535	2.564	2.500	2.704	9.30
15)	T	2-Methylphenol	1.421	1.210	1.452	1.326	1.213	1.227	1.184	1.291	1.220	1.283	7.62
16)	T	Hexachloroethane	0.595	0.543	0.555	0.568	0.502	0.539	0.536	0.544	0.533	0.546	4.72
17)	T	n-Nitrosodi-n-propylamine	0.885	0.765	0.920	0.849	0.776	0.846	0.856	0.902	0.894	0.855	6.33
18)	T	3-Methylphenol/4-Methylphenol	1.159	1.015	1.134	1.151	1.009	1.108	1.115	1.159	1.141	1.110	5.28
19)	S	Nitrobenzene-d5	1.074	0.972	1.124	1.108	0.964	1.102	1.139	1.210	1.168	1.096	7.53
20)	T	Nitrobenzene	1.087	1.017	1.105	1.088	1.032	1.137	1.184	1.229	1.185	1.118	6.41
21)	T	Isophorone	2.346	2.038	2.466	2.303	2.103	2.283	2.326	2.409	2.386	2.296	6.10
22)	T	2-Nitrophenol	0.450	0.400	0.518	0.481	0.457	0.512	0.554	0.609	0.599	0.509	13.74
23)	T	2,4-Dimethylphenol	1.252	1.058	1.221	1.170	1.096	1.227	1.222	1.278	1.261	1.198	6.32
24)	T	bis(2-Chloroethoxy)methane	2.026	1.644	1.872	1.648	1.492	1.468	1.436	1.469	1.695	1.639	12.36
25)	T	2,4-Dichlorophenol	1.091	1.055	1.129	1.154	1.018	1.156	1.169	1.237	1.226	1.137	6.43
26)	T	1,2,4-Trichlorobenzene	1.699	1.523	1.585	1.484	1.275	1.382	1.375	1.414	1.380	1.457	8.86
27)	I	IS2_1,4-Dichlorobenzene-d4	----------ISTD----------										
28)	T	Benzaldehyde	0.817	0.939	1.065	0.956	0.864	0.943	0.930	1.089	0.980	0.954	9.01
29)	T	Acetophenone	1.654	1.322	1.819	1.638	1.502	1.665	1.613	1.890	1.708	1.646	10.09
30)	T	m-Toluidine			1.266	1.297	1.394	1.557	1.561	1.856	1.668	1.514	13.95
31)	T	2-Chloroaniline	1.346	1.252	1.654	1.465	1.369	1.470	1.496	1.744	1.531	1.481	10.28
32)	I	IS3_1,4-Dichlorobenzene-d4	----------ISTD----------										
33)	t	1,4-Dioxane	0.690	0.570	0.697	0.523	0.467	0.467	0.470	0.547	0.500	0.548	16.44
34)	T	n-Decane	1.845	1.532	1.881	1.764	1.460	1.569	1.627	1.900	1.719	1.700	9.45
35)	I	IS1_Naphthalene-d8	----------ISTD----------										
36)	T	Naphthalene	1.239	1.058	1.194	1.095	0.950	1.020	1.014	1.024	1.003	1.066	8.86

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2512607**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV106**	**Ical Ref**	**: ICAL22075**
Calibration dates	**: 03/11/25 16:50 03/12/25 06:06**		

Calibration Files

L1 =ABNL1.D L2 =ABNL2.D L3 =ABNL3.D L4 =ABNL4.D L5 =ABNL5.D L6 =AP9L6.D L7 =AP9L7.D

L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD	
37)	T	Benzoic Acid			0.144	0.142	0.139	0.100	0.171	0.226			*Q	0.9979
38)	T	4-Chloroaniline	0.134	0.133	0.135	0.133	0.119	0.133	0.132	0.135	0.131	0.132	3.68	
39)	T	Hexachlorobutadiene	0.287	0.237	0.267	0.244	0.218	0.239	0.235	0.237	0.231	0.244	8.47	
40)	T	p-Chloro-m-cresol	0.353	0.335	0.347	0.316	0.278	0.310	0.312	0.328	0.345	0.325	7.23	
41)	T	2-Methylnaphthalene	0.708	0.611	0.709	0.643	0.571	0.625	0.619	0.635	0.618	0.638	7.02	
42)	T	1-Methylnaphthalene	0.281	0.262	0.282	0.238	0.215	0.233	0.230	0.233	0.228	0.245	9.96	
43)	T	Hexachlorocyclopentadiene	0.334	0.276	0.315	0.289	0.262	0.298	0.301	0.314	0.310	0.300	7.33	
44)	T	2,4,6-Trichlorophenol	0.279	0.224	0.250	0.236	0.219	0.252	0.258	0.271	0.272	0.251	8.55	
45)	T	2,4,5-Trichlorophenol	0.258	0.214	0.233	0.235	0.236	0.263	0.273	0.289	0.293	0.255	10.66	
46)	S	2-Fluorobiphenyl	1.075	0.922	1.017	0.923	0.824	0.893	0.877	0.899	0.879	0.923	8.35	
47)	T	2-Chloronaphthalene	0.915	0.720	0.839	0.749	0.679	0.734	0.718	0.733	0.721	0.756	9.69	
48)	T	2-Nitroaniline	0.133	0.138	0.149	0.146	0.144	0.174	0.188	0.211	0.213	0.166	18.82	
49)	T	1,4-Dinitrobenzene		0.014	0.011	0.014	0.012	0.015	0.025	0.053	0.099		*Q	1.0000
50)	T	1,3-Dinitrobenzene					0.077	0.100	0.106	0.121	0.117	0.104	16.96	
51)	T	Dimethyl phthalate	1.084	0.893	0.956	0.901	0.832	0.903	0.861	0.891	0.856	0.908	8.22	
52)	T	Acenaphthylene	1.387	1.177	1.273	1.160	1.078	1.174	1.171	1.199	1.193	1.201	7.14	
53)	T	2,6-Dinitrotoluene	0.112	0.110	0.141	0.144	0.137	0.177	0.175	0.177	0.185	0.151	19.16	
54)	T	1,2-Dinitrobenzene		0.046	0.052	0.052	0.060	0.070	0.077	0.075	0.074	0.063	19.21	
55)	I	IS2_Naphthalene-d8	----------ISTD----------											
56)	T	a-Terpineol	0.284	0.221	0.279	0.261	0.252	0.272	0.276	0.325	0.305	0.275	10.91	
57)	T	3-Chloroaniline	0.123	0.115	0.152	0.150	0.129	0.140	0.141	0.160	0.145	0.139	10.56	
58)	T	2,6-Dichlorophenol	0.283	0.236	0.265	0.258	0.236	0.264	0.274	0.319	0.295	0.270	9.87	
59)	T	1-chloro-2-nitrobenzene	0.095	0.092	0.108	0.102	0.099	0.104	0.112	0.133	0.126	0.108	12.82	
60)	T	Caprolactam	0.196	0.156	0.149	0.147	0.136	0.148	0.166	0.200	0.184	0.165	14.22	
61)	T	1,2,4,5-Tetrachlorobenzene	0.460	0.358	0.442	0.409	0.368	0.381	0.381	0.427	0.388	0.401	8.71	
62)	T	Biphenyl	1.000	0.843	0.967	0.890	0.807	0.844	0.829	0.939	0.848	0.885	7.69	
63)	I	IS1_Acenaphthene-d10	----------ISTD----------											
64)	T	3-Nitroaniline	0.247	0.185	0.207	0.227	0.217	0.266	0.293	0.314	0.315	0.252	18.81	
65)	T	Acenaphthene	1.498	1.192	1.163	1.100	0.919	1.022	0.989	1.000	1.032	1.101	15.61	
66)	T	2,4-Dinitrophenol	0.046	0.075	0.095	0.099	0.095	0.117	0.131	0.164	0.167		*Q	0.9956
67)	T	Dibenzofuran	2.170	1.878	2.090	1.916	1.548	1.689	1.667	2.098	2.168	1.914	12.29	
68)	T	2,4-Dinitrotoluene	0.235	0.253	0.260	0.286	0.272	0.331	0.353	0.446	0.491		*Q	0.9979
69)	T	4-Nitrophenol	0.180	0.133	0.178	0.179	0.160	0.198	0.216	0.236	0.253	0.192	19.52	
70)	T	2,3,5,6-Tetrachlorophenol	0.352	0.283	0.362	0.334	0.303	0.354	0.501	0.397	0.401	0.365	17.53	
71)	T	2,3,4,6-Tetrachlorophenol	0.341	0.270	0.342	0.334	0.302	0.349	0.363	0.399	0.396	0.344	11.94	
72)	T	Diethyl phthalate	1.402	1.330	1.450	1.366	1.180	1.342	1.308	1.422	1.431	1.359	6.11	

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2512607**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV106**	**Ical Ref**	**: ICAL22075**
Calibration dates	**: 03/11/25 16:50 03/12/25 06:06**		

Calibration Files
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L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
73)	T	Fluorene	1.612	1.458	1.505	1.421	1.191	1.352	1.350	1.395	1.407	1.410	8.22
74)	T	4-Chlorophenyl-phenylether	0.907	0.776	0.824	0.747	0.620	0.687	0.681	0.703	0.694	0.738	11.78
75)	T	4-Nitroaniline	0.216	0.187	0.227	0.238	0.213	0.260	0.264	0.300	0.304	0.246	16.23
76)	T	4,6-Dinitro-o-cresol			0.141	0.133	0.135	0.176	0.191	0.226	0.235	*L	0.9929
77)	T	NDPA/DPA	1.326	1.129	1.255	1.192	1.056	1.133	1.131	1.176	1.182	1.176	6.70
78)	T	Azobenzene	1.195	1.034	1.201	1.149	0.990	1.110	1.122	1.143	1.147	1.121	6.20
79)	S	2,4,6-Tribromophenol	0.187	0.164	0.208	0.202	0.180	0.214	0.218	0.240	0.238	0.206	12.38
80)	T	4-Bromophenyl-phenylether	0.558	0.465	0.502	0.462	0.388	0.440	0.433	0.457	0.463	0.463	10.17
81)	T	Hexachlorobenzene	0.590	0.600	0.659	0.542	0.450	0.501	0.500	0.525	0.520	0.543	11.65
82)	T	Pentachlorophenol			0.246	0.237	0.227	0.278	0.300	0.336	0.352	0.282	17.41
83)	I	IS2_Acenaphthene-d10	----------ISTD----------										
84)	T	Dichloran					0.086	0.107	0.121	0.165	0.167	*L	0.9986
85)	T	Pentachloronitrobenzene			0.134	0.111	0.119	0.132	0.147	0.185	0.180	0.144	19.92
86)	I	IS3_Acenaphthene-d10	----------ISTD----------										
87)	T	Atrazine	0.371	0.301	0.330	0.306	0.305	0.335	0.385	0.516	0.440	0.366	19.90
88)	I	IS1_Phenanthrene-d10	----------ISTD----------										
89)	T	Phenanthrene	1.467	1.201	1.229	1.130	0.984	1.066	1.050	1.070	1.022	1.135	13.04
90)	T	Anthracene	1.273	1.128	1.218	1.083	0.972	1.086	1.067	1.091	1.049	1.107	8.13
91)	T	Carbazole	1.007	0.946	1.055	0.993	0.902	0.996	0.987	1.014	1.000	0.989	4.36
92)	T	Di-n-butylphthalate	1.042	0.879	1.042	0.976	0.931	1.115	1.147	1.464	1.453	1.116	18.90
93)	T	Fluoranthene	1.518	1.269	1.388	1.260	1.152	1.255	1.257	1.322	1.257	1.298	8.00
94)	T	Benzidine			0.517	0.579	0.617	0.739	0.782	0.857	0.834	0.704	18.85
95)	T	Pyrene	1.623	1.313	1.486	1.366	1.236	1.328	1.280	1.330	1.268	1.359	9.00
96)	S	4-Terphenyl-d14	1.198	1.044	1.129	1.026	0.928	1.001	0.974	1.018	1.020	1.038	7.80
97)	T	Butyl benzyl phthalate			0.360	0.335	0.347	0.440	0.470	0.554	0.567	*L	0.9941
98)	I	IS2_Phenanthrene-d10	----------ISTD----------										
99)	T	Diphenamid	0.384	0.336	0.383	0.352	0.358	0.426	0.442	0.538	0.495	0.413	16.71
100)	I	IS3_Phenanthrene-d10	----------ISTD----------										
101)	T	n-Octadecane	0.465	0.378	0.436	0.423	0.377	0.441	0.479	0.604	0.519	0.458	15.53
102)	T	Parathion			0.066	0.057	0.051	0.057	0.068	0.107		*Q	1.0000
103)	T	3,3'-Dimethylbenzidine					0.486	0.597	0.764	1.061	0.970	*L	0.9945
104)	I	IS1_Chrysene-d12	----------ISTD----------										
105)	T	Benzo[a]anthracene	1.484	1.248	1.356	1.216	1.113	1.221	1.268	1.313	1.283	1.278	8.06
106)	T	3,3'-Dichlorobenzidine	0.366	0.327	0.409	0.409	0.404	0.457	0.478	0.512	0.498	0.429	14.44
107)	T	Chrysene	1.563	1.341	1.467	1.269	1.114	1.190	1.140	1.179	1.140	1.267	12.56
108)	T	bis(2-Ethylhexyl)phthalate		0.435	0.532	0.503	0.541	0.652	0.677	0.758	0.770	*L	0.9961

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2512607**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV106**	**Ical Ref**	**: ICAL22075**
Calibration dates	**: 03/11/25 16:50 03/12/25 06:06**		

Calibration Files

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L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD	
109)	T	Di-n-octylphthalate			0.787	0.753	0.799	1.040	1.119	1.350	1.382	*L	0.9931	
110)	T	Benzo(b)fluoranthene	1.371	1.201	1.334	1.447	1.256	1.333	1.253	1.339	1.293	1.314	5.55	
111)	T	Benzo(k)fluoranthene	1.449	1.230	1.429	1.106	1.048	1.187	1.224	1.191	1.137	1.222	11.12	
112)	T	Benzo(a)pyrene	1.200	1.065	1.216	1.142	1.065	1.177	1.159	1.206	1.180	1.157	4.92	
113)	I	IS1_Perylene-d12	----------ISTD----------											
114)	T	Indeno(1,2,3-cd)pyrene	1.094	0.997	1.068	1.000	0.977	1.136	1.132	1.161	1.045	1.068	6.34	
115)	T	Dibenzo[a,h]anthracene	1.140	0.961	1.119	1.074	0.959	1.097	1.114	1.091	1.009	1.063	6.47	
116)	T	Benzo(g,h,i)perylene	1.131	1.077	1.115	1.076	0.929	1.064	1.072	1.061	0.902	1.047	7.50	

Response Factor Report Dakota

Method Path : I:\8270\Dakota\241105RVTICAL\
Method File : FS241105RVT_Dakota.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Nov 11 15:34:18 2024
Response Via : Initial Calibration

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =ABNL4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	----------ISTD----------										
2)	t	N-Nitrosodimethylamine	0.688	0.547	0.631	0.657	0.592	0.619	0.625	0.637	0.677	0.630	6.87
3)	t	Pyridine	0.718	0.742	0.925	1.043	0.961	1.016	1.039	1.024	1.118	0.954	14.48
4)	S	2-Fluorophenol	1.049	1.004	1.119	1.011	0.907	1.005	1.012	1.034	1.114	1.028	6.19
5)	T	Aniline	1.820	1.428	1.670	1.497	1.407	1.535	1.513	1.561	1.671	1.567	8.42
6)	t	2-Chlorophenol	1.412	1.055	1.248	1.201	1.124	1.210	1.219	1.242	1.314	1.225	8.34
7)	S	Phenol-d6	1.562	1.289	1.387	1.281	1.108	1.276	1.276	1.308	1.365	1.317	9.16
8)	T	Phenol	1.717	1.324	1.459	1.383	1.257	1.388	1.373	1.397	1.488	1.421	9.16
9)	T	bis(2-Chloroethyl)ether	1.289	0.906	1.073	0.962	0.928	0.981	0.987	0.993	1.037	1.017	11.18
10)	T	1,3-Dichlorobenzene	1.989	1.455	1.700	1.552	1.372	1.510	1.497	1.511	1.602	1.577	11.40
11)	T	1,4-Dichlorobenzene	2.118	1.551	1.603	1.571	1.432	1.536	1.512	1.529	1.633	1.610	12.35
12)	T	1,2-Dichlorobenzene	1.695	1.566	1.655	1.525	1.383	1.466	1.447	1.489	1.583	1.534	6.57
13)	t	Benzyl alcohol	1.016	0.858	0.891	0.896	0.818	0.912	0.930	0.995	1.055	0.930	8.32
14)	T	bis(2-chloroisopropyl)ether	2.239	1.745	1.843	1.773	1.610	1.706	1.707	1.728	1.793	1.794	9.98
15)	T	2-Methylphenol	1.301	1.037	1.137	1.033	0.949	1.014	1.050	1.065	1.130	1.079	9.34
16)	T	Hexachloroethane	0.791	0.505	0.620	0.596	0.507	0.543	0.558	0.571	0.615	0.589	14.63
17)	T	n-Nitrosodi-n-propylamine	1.121	0.834	0.856	0.811	0.724	0.813	0.829	0.866	0.909	0.863	12.65
18)	T	3-Methylphenol/4-Methylphenol	1.510	1.200	1.173	1.153	0.986	1.108	1.108	1.166	1.239	1.182	12.02
19)	S	Nitrobenzene-d5	1.239	1.148	1.175	1.191	1.071	1.176	1.187	1.238	1.328	1.195	5.92
20)	T	Nitrobenzene	1.353	1.122	1.287	1.162	1.081	1.203	1.212	1.254	1.326	1.222	7.51
21)	T	Isophorone	2.724	2.161	2.268	2.038	1.932	2.172	2.181	2.313	2.433	2.247	10.29
22)	T	2-Nitrophenol	0.655	0.587	0.609	0.564	0.538	0.598	0.623	0.674	0.721	0.619	9.18
23)	T	2,4-Dimethylphenol	1.368	1.006	1.085	1.051	0.963	1.062	1.074	1.108	1.188	1.101	10.75
24)	T	bis(2-Chloroethoxy)methane	1.605	1.319	1.550	1.332	1.236	1.352	1.353	1.401	1.451	1.400	8.36
25)	T	2,4-Dichlorophenol	1.548	1.174	1.340	1.190	1.118	1.246	1.245	1.307	1.399	1.285	10.22
26)	T	1,2,4-Trichlorobenzene	1.977	1.522	1.585	1.488	1.349	1.476	1.475	1.515	1.611	1.555	11.25
27)	I	IS2_1,4-Dichlorobenzene-d4	----------ISTD----------										
28)	T	Benzaldehyde	0.535	0.565	0.698	0.703	0.698	0.762	0.770	0.814	0.786	0.703	13.73
29)	T	Acetophenone	1.107	1.282	1.407	1.330	1.361	1.463	1.521	1.608	1.552	1.403	11.02
30)	T	m-Toluidine			1.080	1.092	1.257	1.323	1.390	1.457	1.409	1.287	11.76
31)	T	2-Chloroaniline	1.078	1.270	1.369	1.264	1.363	1.427	1.471	1.559	1.510	1.368	10.81
32)	I	IS3_1,4-Dichlorobenzene-d4	----------ISTD----------										
33)	T	1,4-Dioxane		0.252	0.402	0.398	0.392	0.404	0.400	0.409	0.392	0.381	13.71
34)	t	n-Nitrosodieth...		0.349	0.372	0.347	0.382	0.401	0.414	0.437	0.420	0.390	8.57
35)	T	n-Decane	0.828	1.074	1.101	0.967	1.017	1.097	1.087	1.158	1.107	1.048	9.45
36)	t	n-Nitrosopyrro...	0.287	0.406	0.461	0.431	0.441	0.486	0.521	0.550	0.537	0.458	17.68
37)	I	IS1_Naphthalene-d8	----------ISTD----------										
38)	T	Naphthalene	1.453	1.116	1.167	1.048	0.965	1.022	1.010	1.038	1.082	1.100	13.19
39)	T	Benzoic Acid					0.170	0.206	0.226	0.257	0.279	0.228	18.76
40)	T	4-Chloroaniline	0.150	0.114	0.123	0.117	0.108	0.118	0.114	0.119	0.125	0.121	9.98
41)	T	Hexachlorobutadiene	0.298	0.234	0.285	0.254	0.231	0.250	0.249	0.255	0.270	0.258	8.55
42)	T	p-Chloro-m-cresol	0.342	0.278	0.308	0.267	0.246	0.280	0.275	0.298	0.315	0.290	9.94
43)	T	2-Methylnaphthalene	1.045	0.738	0.807	0.705	0.659	0.700	0.706	0.729	0.763	0.761	15.02
44)	T	1-Methylnaphthalene	0.321	0.228	0.254	0.233	0.207	0.232	0.225	0.231	0.246	0.242	13.41
45)	T	Hexachlorocyclopentadiene	0.297	0.225	0.280	0.262	0.240	0.269	0.274	0.291	0.311	0.272	10.00

Response Factor Report Dakota

Method Path : I:\8270\Dakota\241105RVTICAL\
Method File : FS241105RVT_Dakota.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Nov 11 15:34:18 2024
Response Via : Initial Calibration

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =ABNL4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
46)	T	2,4,6-Trichlorophenol	0.326	0.279	0.279	0.267	0.250	0.278	0.282	0.300	0.320	0.287	8.51
47)	T	2,4,5-Trichlorophenol	0.399	0.300	0.312	0.309	0.278	0.301	0.313	0.325	0.347	0.320	10.95
48)	S	2-Fluorobiphenyl	1.386	0.978	1.052	0.941	0.852	0.912	0.902	0.920	0.968	0.990	16.04
49)	T	2-Chloronaphthalene	1.113	0.897	0.884	0.813	0.728	0.799	0.774	0.811	0.853	0.852	13.02
50)	T	2-Nitroaniline	0.220	0.198	0.212	0.207	0.184	0.216	0.223	0.243	0.260	0.218	10.43
51)	T	1,4-Dinitrobenzene	0.093	0.063	0.090	0.090	0.086	0.094	0.101	0.113	0.122	0.095	17.69
52)	T	1,3-Dinitrobenzene	0.108	0.093	0.120	0.105	0.098	0.114	0.117	0.129	0.137	0.113	12.53
53)	T	Dimethyl phthalate	1.318	0.991	1.021	0.936	0.866	0.923	0.912	0.953	0.998	0.991	13.29
54)	T	Acenaphthylene	1.586	1.204	1.302	1.203	1.092	1.183	1.181	1.230	1.286	1.252	11.14
55)	T	2,6-Dinitrotoluene	0.192	0.157	0.185	0.174	0.167	0.186	0.187	0.201	0.215	0.185	9.50
56)	T	1,2-Dinitrobenzene		0.043	0.065	0.067	0.062	0.070	0.069	0.073	0.080	0.066	16.02
57)	I	IS2_Naphthalene-d8	ISTD										
58)	T	a-Terpineol	0.162	0.210	0.212	0.213	0.210	0.235	0.239	0.261	0.251	0.221	13.16
59)	T	3-Chloroaniline		0.086	0.112	0.111	0.106	0.125	0.121	0.129	0.125	0.115	12.17
60)	T	2,6-Dichlorophenol	0.250	0.246	0.297	0.277	0.286	0.319	0.317	0.339	0.329	0.296	11.35
61)	T	1-chloro-2-nitrobenzene	0.068	0.091	0.114	0.114	0.114	0.126	0.124	0.137	0.133	0.113	19.26
62)	T	Caprolactam	0.115	0.103	0.112	0.114	0.113	0.127	0.132	0.146	0.142	0.123	12.07
63)	T	1,2,4,5-Tetrachlorobenzene	0.355	0.419	0.415	0.393	0.401	0.437	0.417	0.450	0.429	0.413	6.76
64)	T	Biphenyl	0.719	0.789	0.880	0.804	0.823	0.897	0.870	0.918	0.876	0.842	7.51
65)	I	IS1_Acenaphthene-d10	ISTD										
66)	T	3-Nitroaniline	0.312	0.289	0.294	0.288	0.284	0.310	0.324	0.332	0.349	0.309	7.30
67)	T	Acenaphthene	1.665	1.203	1.195	1.092	1.004	1.062	1.049	1.077	1.122	1.163	17.13
68)	T	2,4-Dinitrophenol				0.130	0.149	0.172	0.185	0.208	0.226	*L	0.9959
69)	T	Dibenzofuran	2.796	2.124	2.085	1.944	1.749	1.824	1.814	1.833	1.885	2.006	16.04
70)	T	2,4-Dinitrotoluene	0.373	0.326	0.366	0.349	0.361	0.402	0.410	0.433	0.464	0.387	11.29
71)	T	4-Nitrophenol	0.229	0.206	0.209	0.221	0.208	0.233	0.237	0.255	0.273	0.230	9.86
72)	T	2,3,5,6-Tetrachlorophenol	0.465	0.419	0.459	0.406	0.390	0.425	0.429	0.454	0.481	0.436	6.86
73)	T	2,3,4,6-Tetrachlorophenol	0.536	0.376	0.418	0.411	0.383	0.413	0.421	0.432	0.461	0.428	11.15
74)	T	Diethyl phthalate	2.187	1.601	1.621	1.458	1.366	1.435	1.445	1.489	1.570	1.575	15.53
75)	T	Fluorene	2.060	1.606	1.598	1.495	1.311	1.420	1.399	1.439	1.498	1.536	14.16
76)	T	4-Chlorophenyl-phenylether	1.099	0.823	0.819	0.767	0.683	0.722	0.716	0.736	0.762	0.792	15.66
77)	T	4-Nitroaniline	0.236	0.258	0.299	0.296	0.275	0.312	0.317	0.337	0.357	0.299	12.76
78)	T	4,6-Dinitro-o-cresol	0.240	0.149	0.221	0.215	0.210	0.242	0.251	0.278	0.300	0.234	18.54
79)	T	NDPA/DPA	1.902	1.355	1.398	1.272	1.134	1.220	1.202	1.245	1.300	1.337	16.94
80)	T	Azobenzene	1.550	1.299	1.365	1.219	1.116	1.216	1.210	1.254	1.298	1.281	9.61
81)	S	2,4,6-Tribromophenol	0.315	0.286	0.278	0.265	0.249	0.272	0.276	0.299	0.332	0.286	8.99
82)	T	4-Bromophenyl-phenylether	0.722	0.544	0.560	0.476	0.442	0.474	0.474	0.485	0.517	0.522	16.10
83)	T	Hexachlorobenzene	0.895	0.718	0.682	0.616	0.571	0.586	0.579	0.605	0.656	0.656	15.60
84)	T	Pentachlorophenol	0.372	0.280	0.312	0.320	0.315	0.357	0.379	0.412	0.455	0.356	15.51
85)	I	IS2_Acenaphthene-d10	ISTD										
86)	T	Dichloran		0.151	0.132	0.142	0.146	0.165	0.185	0.214	0.217	0.169	19.47
87)	T	Pentachloronitrobenzene			0.157	0.173	0.164	0.181	0.190	0.220	0.221	0.187	13.74
88)	I	IS3_Acenaphthene-d10	ISTD										
89)	T	Atrazine	0.307	0.322	0.368	0.285	0.313	0.342	0.350	0.401	0.400	0.343	11.90
90)	I	IS1_Phenanthrene-d10	ISTD										

Response Factor Report Dakota

Method Path : I:\8270\Dakota\241105RVTICAL\
Method File : FS241105RVT_Dakota.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Nov 11 15:34:18 2024
Response Via : Initial Calibration

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =ABNL4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
91)	T	Phenanthrene	1.655	1.246	1.214	1.134	1.019	1.085	1.072	1.100	1.119	1.183	16.11
92)	T	Anthracene	1.572	1.147	1.191	1.098	1.017	1.082	1.065	1.115	1.153	1.160	14.06
93)	T	Carbazole	1.327	1.038	1.109	1.013	0.956	1.020	1.001	1.037	1.079	1.064	10.14
94)	T	Di-n-butylphthalate	1.417	1.094	1.207	1.105	1.064	1.185	1.204	1.275	1.309	1.207	9.42
95)	T	Fluoranthene	1.943	1.443	1.460	1.351	1.250	1.321	1.315	1.344	1.374	1.422	14.44
96)	T	Benzidine	0.815	0.657	0.698	0.696	0.708	0.801	0.818	0.853	0.900	0.772	10.90
97)	T	Pyrene	2.028	1.546	1.562	1.479	1.353	1.429	1.397	1.427	1.456	1.520	13.29
98)	S	4-Terphenyl-d14	1.660	1.139	1.202	1.092	1.007	1.066	1.052	1.085	1.114	1.157	16.95
99)	T	Butyl benzyl phthalate	0.567	0.415	0.479	0.447	0.453	0.520	0.541	0.594	0.635	0.517	14.34
100)	I	IS2_Phenanthrene-d10	----------ISTD----------										
101)	T	Diphenamid	0.347	0.380	0.392	0.377	0.390	0.434	0.456	0.494	0.474	0.416	12.13
102)	I	IS3_Phenanthrene-d10	----------ISTD----------										
103)	T	n-Octadecane	0.279	0.354	0.355	0.289	0.309	0.332	0.347	0.369	0.369	0.334	10.10
104)	T	Parathion			0.076	0.062	0.069	0.074	0.086	0.106	0.115	*Q	0.9978
105)	T	3,3'-Dimethylbenzidine				0.425	0.542	0.649	0.734	0.845	0.870	*L	0.9972
106)	I	IS1_Chrysene-d12	----------ISTD----------										
107)	T	Benzo[a]anthracene	1.869	1.383	1.408	1.283	1.164	1.251	1.262	1.278	1.301	1.355	15.16
108)	T	3,3'-Dichlorobenzidine	0.587	0.439	0.489	0.467	0.455	0.503	0.519	0.533	0.552	0.505	9.52
109)	T	Chrysene	1.959	1.373	1.454	1.290	1.162	1.224	1.199	1.230	1.250	1.349	18.23
110)	T	bis(2-Ethylhexyl)phthalate	0.831	0.597	0.665	0.632	0.630	0.732	0.775	0.822	0.855	0.726	13.56
111)	T	Di-n-octylphthalate	1.380	1.021	1.044	1.017	1.027	1.217	1.316	1.411	1.473	1.212	15.54
112)	T	Benzo(b)fluoranthene	1.822	1.402	1.469	1.372	1.282	1.313	1.333	1.348	1.437	1.420	11.43
113)	T	Benzo(k)fluoranthene	1.743	1.264	1.425	1.314	1.209	1.355	1.362	1.367	1.409	1.383	10.93
114)	T	Benzo(a)pyrene	1.495	1.196	1.246	1.206	1.127	1.232	1.262	1.289	1.349	1.267	8.34
115)	I	IS1_Perylene-d12	----------ISTD----------										
116)	T	Indeno(1,2,3-cd)pyrene	1.598	1.131	1.193	1.086	1.057	1.169	1.203	1.283	1.387	1.234	13.71
117)	T	Dibenzo[a,h]anthracene	1.503	1.130	1.213	1.140	1.076	1.169	1.186	1.217	1.281	1.213	10.21
118)	T	Benzo(g,h,i)perylene	1.547	1.172	1.230	1.097	1.024	1.118	1.137	1.171	1.234	1.192	12.43

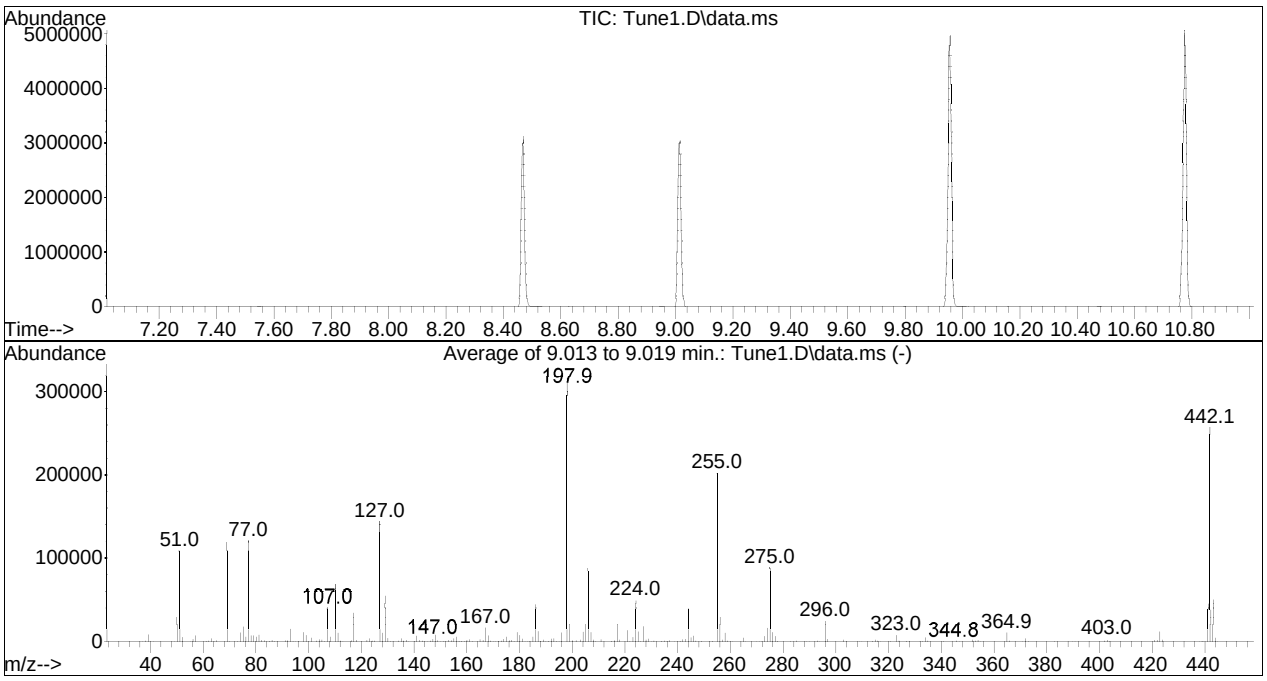
(#) = Out of Range

DFTPP

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : Tune1.D
Acq On : 5 Nov 2024 4:36 pm
Operator : Dakota:HNY
Sample : Tune1 Lot # 11144
Misc : WG1994500
ALS Vial : 100 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Nov 11 15:34:18 2024



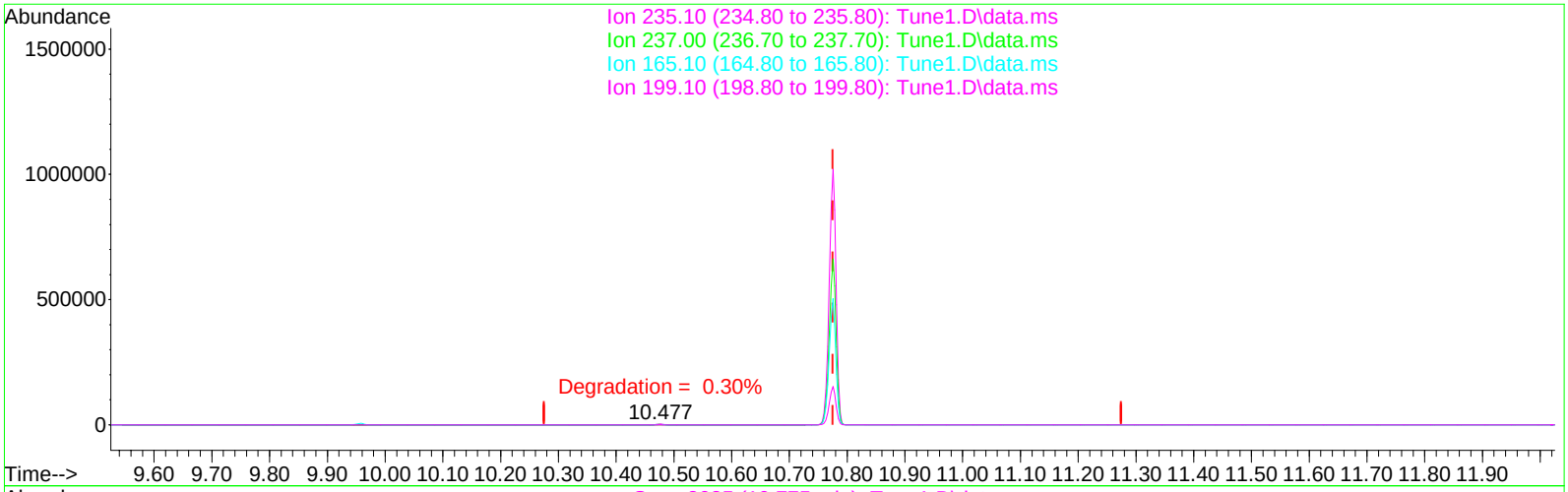
Spectrum Information: Average of 9.013 to 9.019 min.

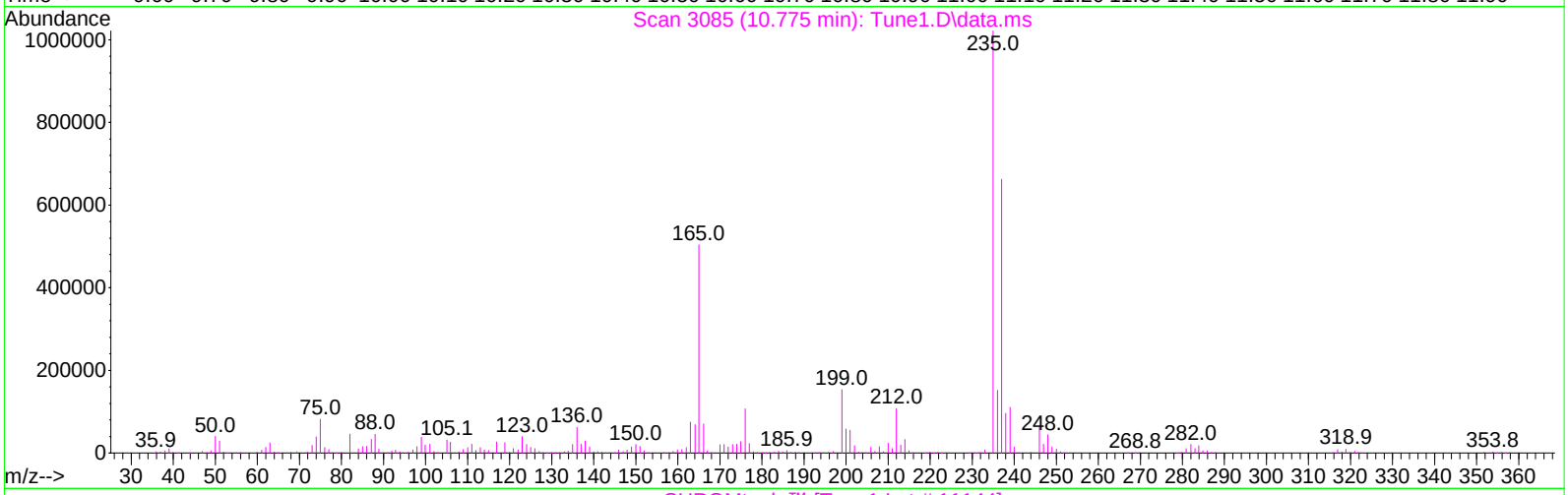
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	34.4	108867	PASS
68	69	0.00	2	0.0	0	PASS
69	69	100	100	100.0	118323	PASS
70	69	0.00	2	0.6	688	PASS
127	198	10	80	45.2	143328	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	316843	PASS
199	198	5	9	6.5	20619	PASS
275	198	10	60	27.8	88232	PASS
365	198	1	100	3.3	10554	PASS
441	442	0.01	24	17.4	44621	PASS
442	198	50	100	80.8	256128	PASS
443	442	15	24	19.7	50387	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : Tune1.D
Acq On : 5 Nov 2024 4:36 pm
Operator : Dakota:HNY
Sample : Tune1 Lot # 11144
Misc : WG1994500
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Nov 05 18:26:55 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Nov 01 13:11:54 2024
Response via : Initial Calibration





CHROMtools™ [Tune1 Lot # 11144]

(6) DDT (T)

10.775min (+ 0.000) 139.61

response 851056

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.90	64.29
165.10	48.70	47.50
199.10	15.80	14.59

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : Tune1.D
Acq On : 5 Nov 2024 4:36 pm
Operator : Dakota:HNY
Sample : Tune1 Lot # 11144
Misc : WG1994500
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Nov 05 18:26:55 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
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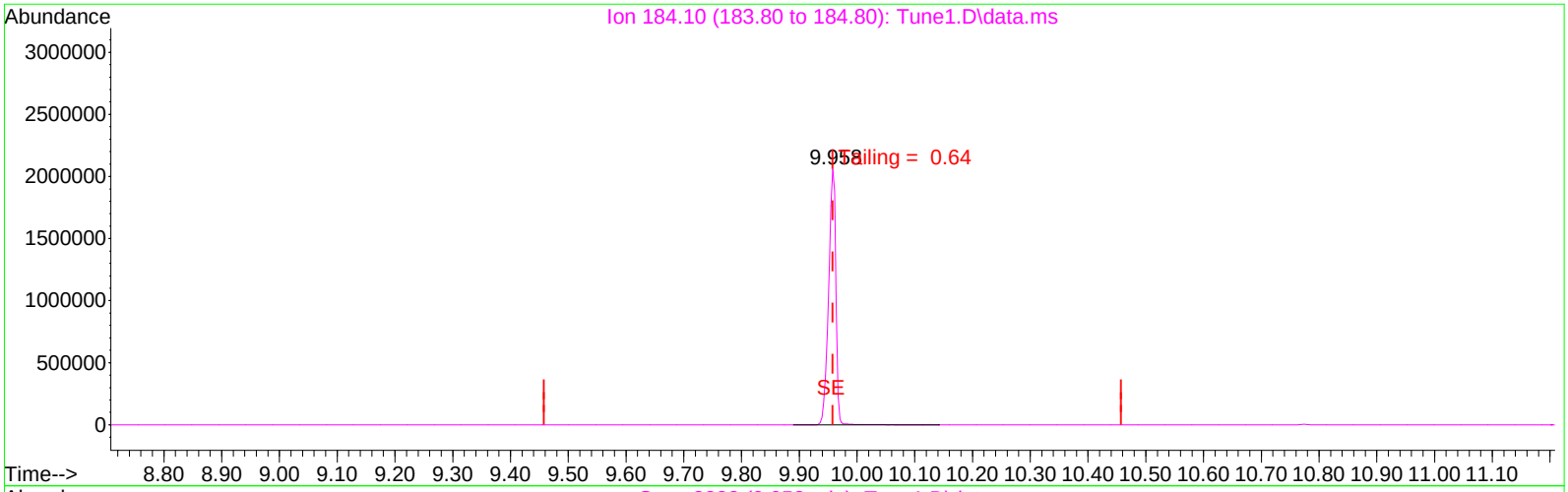
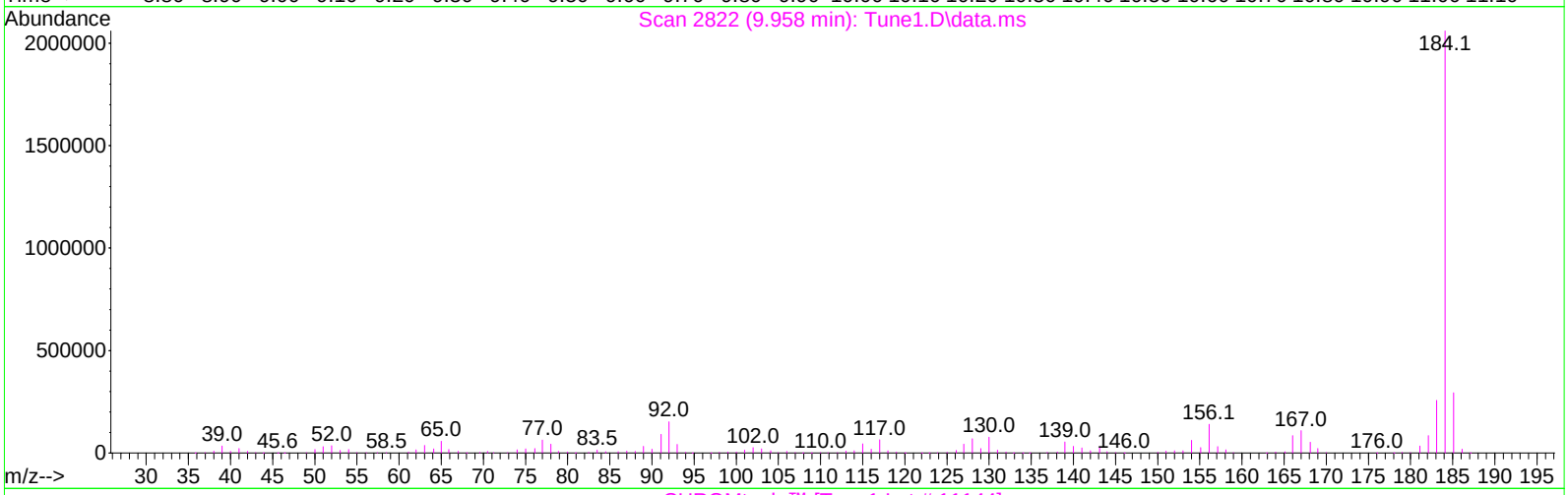
Response via : Initial Calibration





CHROMtools™ [Tune1 Lot # 11144]

(3) Benzidine (T)

9.958min (+ 0.000) 176.60

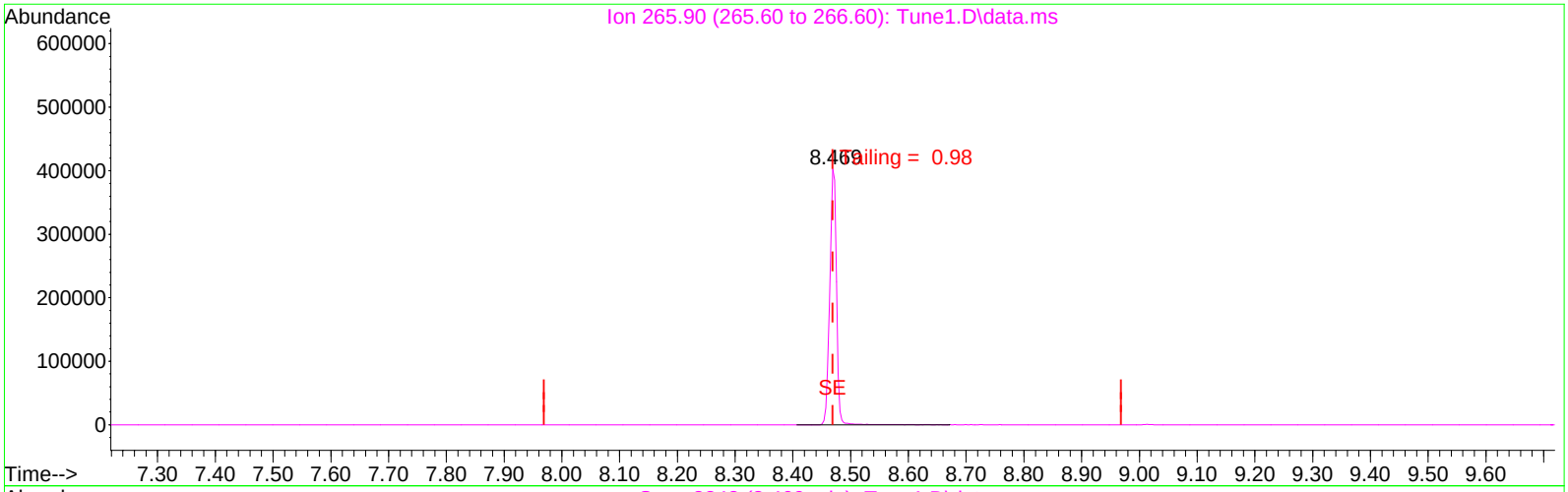
response 1797793

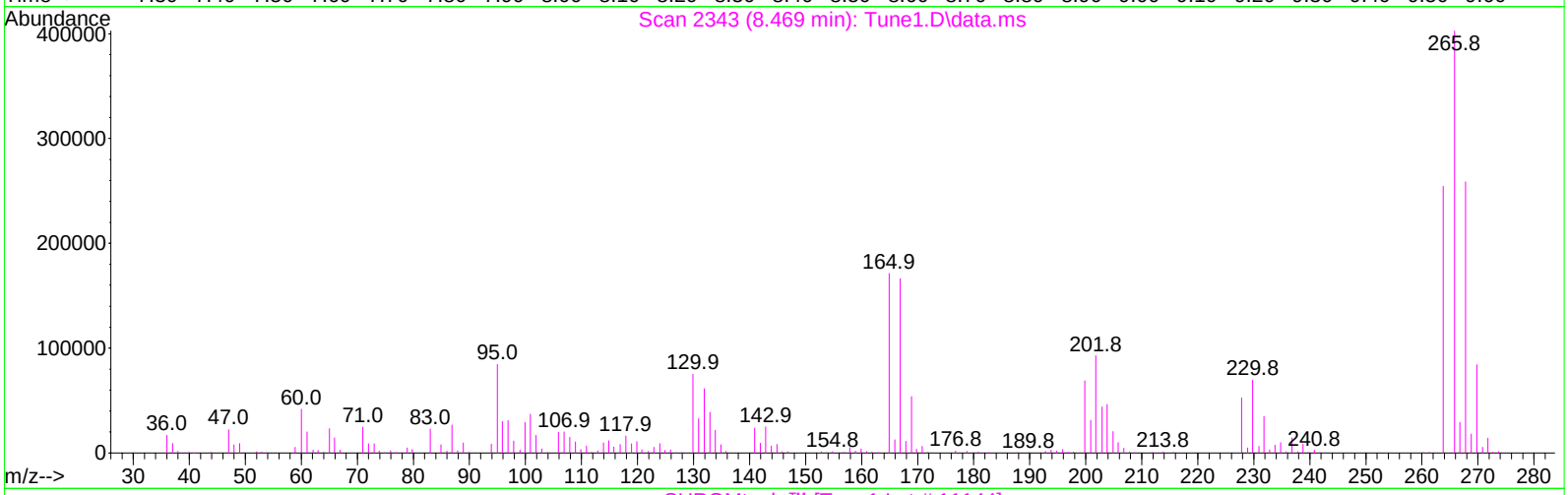
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : Tune1.D
Acq On : 5 Nov 2024 4:36 pm
Operator : Dakota:HNY
Sample : Tune1 Lot # 11144
Misc : WG1994500
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Nov 05 18:26:55 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Nov 01 13:11:54 2024
Response via : Initial Calibration





CHROMtools™ [Tune1 Lot # 11144]

(1) Pentachlorophenol (T)

8.469min (+ 0.000) 155.17

response 325922

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL9.D
Acq On : 5 Nov 2024 4:59 pm
Operator : Dakota:HNY
Sample : IL2,32,,ABNL50 Lot# 11111
Misc : WG1994500
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 06 09:27:38 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	4.286	152	30652	4.000 ug/ml	0.00
Standard Area 1 = 28960			Recovery = 105.84%		
37) IS1_Naphthalene-d8	5.523	136	115575	4.000 ug/ml #	0.00
Standard Area 1 = 107558			Recovery = 107.45%		
65) IS1_Acenaphthene-d10	7.217	164	76687	4.000 ug/ml	0.00
Standard Area 1 = 69553			Recovery = 110.26%		
90) IS1_Phenanthrene-d10	8.628	188	166987	4.000 ug/ml	0.00
Standard Area 1 = 149813			Recovery = 111.46%		
106) IS1_Chrysene-d12	11.204	240	194641	4.000 ug/ml	0.01
Standard Area 1 = 173036			Recovery = 112.49%		
115) IS1_Perylene-d12	12.615	264	225226	4.000 ug/ml	0.00
Standard Area 1 = 203359			Recovery = 110.75%		
System Monitoring Compounds					
4) 2-Fluorophenol	2.999	112	426850	59.194 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 2959.70%#		
7) Phenol-d6	3.997	99	522918	56.419 ug/ml	0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 2820.95%#		
19) Nitrobenzene-d5	4.836	82	509012	60.281 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 6028.10%#		
48) 2-Fluorobiphenyl	6.598	172	1397973	47.353 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 4735.30%#		
81) 2,4,6-Tribromophenol	7.978	330	318182	63.648 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 3182.40%#		
98) 4-Terphenyl-d14	10.197	244	2326146	51.642 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 5164.20%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	1.600	74	259400	52.853 ug/ml#	81
3) Pyridine	1.628	79	428290M4	55.731 ug/ml	
5) Aniline	3.972	93	640203	53.323 ug/ml	97
6) 2-Chlorophenol	4.084	128	503520	57.731 ug/ml#	89
8) Phenol	4.009	94	570150	52.586 ug/ml	95
9) Bis(2-chloroethyl)ether	4.062	93	397399	51.752 ug/ml	97
10) 1,3-Dichlorobenzene	4.227	146	613947	47.830 ug/ml	94
11) 1,4-Dichlorobenzene	4.301	146	625718	49.989 ug/ml	94
12) 1,2-Dichlorobenzene	4.447	146	606587	50.459 ug/ml	94
13) Benzyl alcohol	4.457	79	404093	59.695 ug/ml	99
14) Bis(2-chloroisopropyl)...	4.593	45	686842	43.928 ug/ml#	58

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL9.D
Acq On : 5 Nov 2024 4:59 pm
Operator : Dakota:HNY
Sample : IL2,32,,ABNL50 Lot# 11111
Misc : WG1994500
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 06 09:27:38 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	4.593	108	432836	56.676	ug/ml	99
16) Hexachloroethane	4.774	117	235552	51.801	ug/ml#	50
17) n-Nitrosodi-n-propylamine	4.730	70	348350	54.578	ug/ml#	88
18) 3-Methylphenol/4-Methy...	4.758	108	474628	58.576	ug/ml	98
20) Nitrobenzene	4.855	77	508075	56.813	ug/ml	99
21) Isophorone	5.103	82	932214	56.512	ug/ml	95
22) 2-Nitrophenol	5.168	139	276353	73.081	ug/ml#	86
23) 2,4-Dimethylphenol	5.265	107	455183	59.441	ug/ml	98
24) Bis(2-chloroethoxy)met...	5.346	93	555844	53.062	ug/ml#	95
25) 2,4-Dichlorophenol	5.414	162	535919	56.225	ug/ml#	93
26) 1,2,4-Trichlorobenzene	5.482	180	617065	49.088	ug/ml	96
38) Naphthalene	5.545	128	1563409	50.438	ug/ml	99
39) Benzoic Acid	5.448	105	403452	57.603	ug/ml	94
40) 4-Chloroaniline	5.625	65	180490	44.567	ug/ml#	66
41) Hexachlorobutadiene	5.697	225	390074	48.367	ug/ml	99
42) p-Chloro-m-cresol	6.132	107	455050	56.560	ug/ml	90
43) 2-Methylnaphthalene	6.222	142	1101989	50.436	ug/ml	95
44) 1-Methylnaphthalene	6.312	115	355748	49.874	ug/ml	94
45) Hexachlorocyclopentadiene	6.390	237	448866	57.912	ug/ml	98
46) 2,4,6-Trichlorophenol	6.514	196	461815	54.022	ug/ml	99
47) 2,4,5-Trichlorophenol	6.542	196	501540	53.375	ug/ml	99
49) 2-Chloronaphthalene	6.682	162	1232869	48.247	ug/ml	93
50) 2-Nitroaniline	6.806	138	375805	64.681	ug/ml#	76
51) 1,4-Dinitrobenzene	6.940	168	176371	60.844	ug/ml	79
52) 1,3-Dinitrobenzene	7.015	168	197913	57.416	ug/ml#	1
53) Dimethyl phthalate	7.021	163	1441304	47.423	ug/ml#	97
54) Acenaphthylene	7.077	152	1857454	49.980	ug/ml	98
55) 2,6-Dinitrotoluene	7.055	165	311315	60.836	ug/ml#	75
56) 1,2-Dinitrobenzene	7.099	168	114969	57.322	ug/ml	96
66) 3-Nitroaniline	7.207	138	334091	65.269	ug/ml#	84
67) Acenaphthene	7.248	154	1075382	50.509	ug/ml	89
68) 2,4-Dinitrophenol	7.307	184	216833	65.280	ug/ml#	81
69) Dibenzofuran	7.419	168	1807087	49.044	ug/ml#	81
70) 2,4-Dinitrotoluene	7.437	165	444663	62.937	ug/ml#	75
71) 4-Nitrophenol	7.413	65	261902	64.521	ug/ml#	1
72) 2,3,5,6-Tetrachlorophenol	7.512	232	460699	61.758	ug/ml	99
73) 2,3,4,6-Tetrachlorophenol	7.552	232	441598	60.168	ug/ml	98
74) Diethyl phthalate	7.702	149	1504708	51.958	ug/ml	98
75) Fluorene	7.745	166	1436151	49.717	ug/ml	92
76) 4-Chlorophenyl phenyl ...	7.767	204	730405	48.977	ug/ml#	86

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL9.D
Acq On : 5 Nov 2024 4:59 pm
Operator : Dakota:HNY
Sample : IL2,32,,ABNL50 Lot# 11111
Misc : WG1994500
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 06 09:27:38 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77)	4-Nitroaniline	7.801	138	342396	60.275	ug/ml#	69
78)	4,6-Dinitro-o-cresol	7.829	198	287986	56.625	ug/ml#	56
79)	NDPA/DPA	7.891	169	1246099	49.971	ug/ml	93
80)	Azobenzene	7.919	77	1244414	53.600	ug/ml	98
82)	4-Bromophenyl phenyl e...	8.233	248	495260M3	52.189	ug/ml	
83)	Hexachlorobenzene	8.277	284	628621	52.365	ug/ml#	80
84)	Pentachlorophenol	8.472	266	435993	66.782	ug/ml	99
91)	Phenanthrene	8.653	178	2336584	49.387	ug/ml	99
92)	Anthracene	8.702	178	2406283	51.441	ug/ml	98
93)	Carbazole	8.876	167	2253274	51.023	ug/ml	97
94)	Di-n-butylphthalate	9.277	149	2732871	56.111	ug/ml#	98
95)	Fluoranthene	9.793	202	2867925	48.973	ug/ml#	92
96)	Benzidine	9.955	184	1878693	56.269	ug/ml#	94
97)	Pyrene	10.002	202	3038413	48.767	ug/ml	98
99)	Butyl benzyl phthalate	10.716	149	1326004	63.789	ug/ml#	82
107)	Benzo(a)anthracene	11.195	228	3166019	49.297	ug/ml	98
108)	3,3'-Dichlorobenzidine	11.208	252	1342833	57.018	ug/ml#	96
109)	Chrysene	11.236	228	3040984	49.111	ug/ml	97
110)	Bis(2-ethylhexyl)phtha...	11.341	149	2080032	61.018	ug/ml#	89
111)	Di-n-octylphthalate	12.003	149	3584357	63.929	ug/ml#	72
112)	Benzo(b)fluoranthene	12.270	252	3497162	53.103	ug/ml#	93
113)	Benzo(k)fluoranthene	12.302	252	3427673M3	52.799	ug/ml	
114)	Benzo(a)pyrene	12.575	252	3281306M2	54.636	ug/ml	
116)	Indeno(1,2,3-cd)pyrene	13.570	276	3906250	56.698	ug/mL#	89
117)	Dibenzo(a,h)anthracene	13.595	278	3606363	53.295	ug/ml#	89
118)	Benzo(ghi)perylene	13.784	276	3474271	53.027	ug/ml#	86

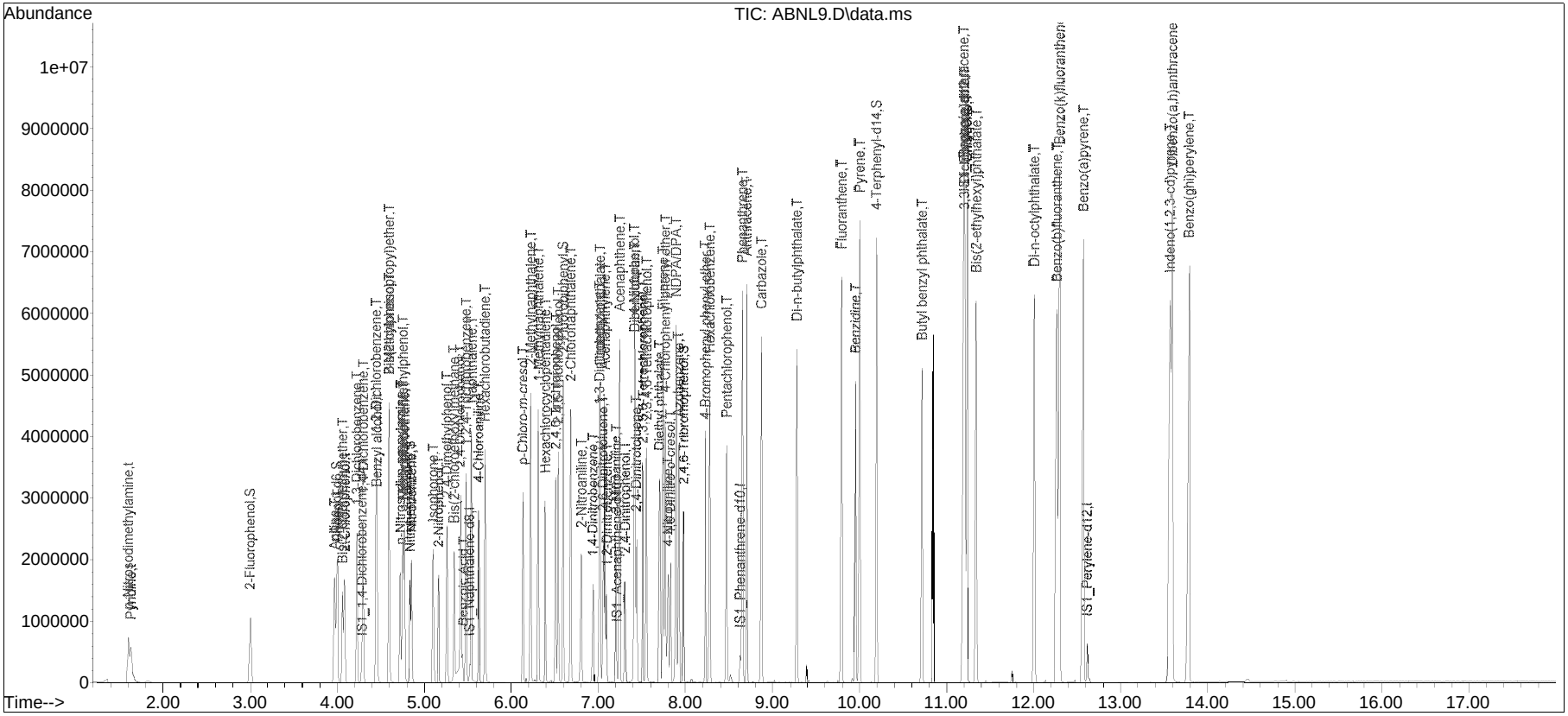
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL9.D
Acq On : 5 Nov 2024 4:59 pm
Operator : Dakota:HNY
Sample : IL2,32,,ABNL50 Lot# 11111
Misc : WG1994500
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 06 09:27:38 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

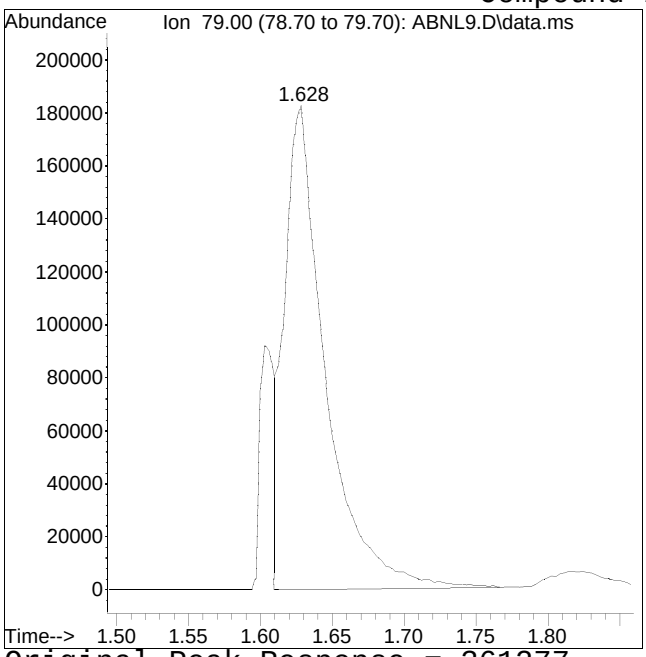
Sub List : ABNical - ABN ical sublistVTICAL\ABNL6.D•



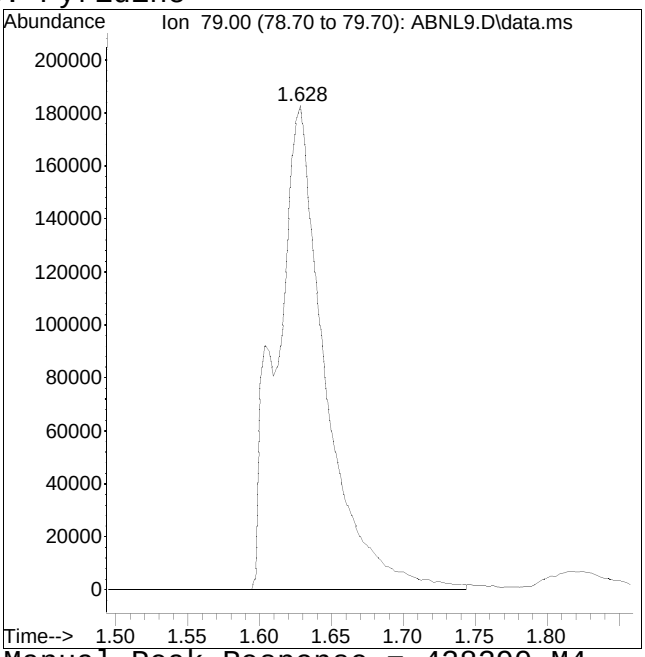
Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQ
Data File : ABNL9.D
Date Inj'd : 11/5/2024 4:59 pm
Sample : IL2,32,,ABNL50 Lot# 11111
Method : FS241105RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 11/6/2024 8:36 am

Compound #3: Pyridine



Original Peak Response = 361277



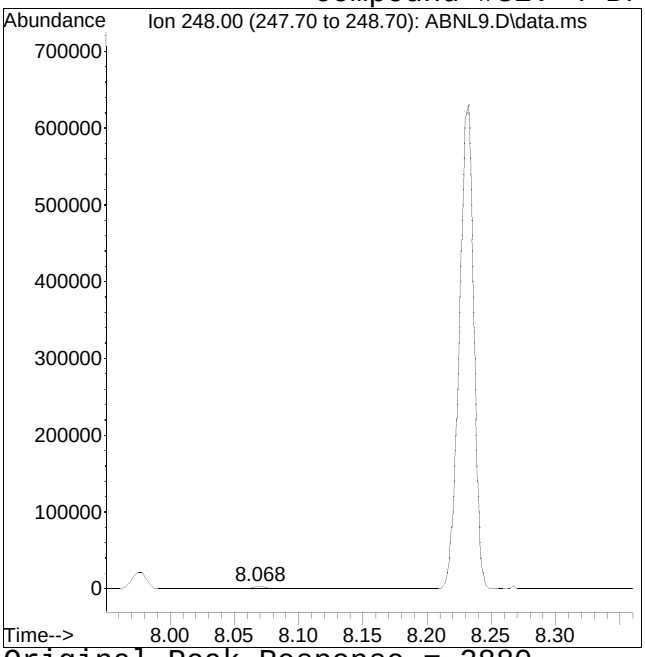
Manual Peak Response = 428290 M4

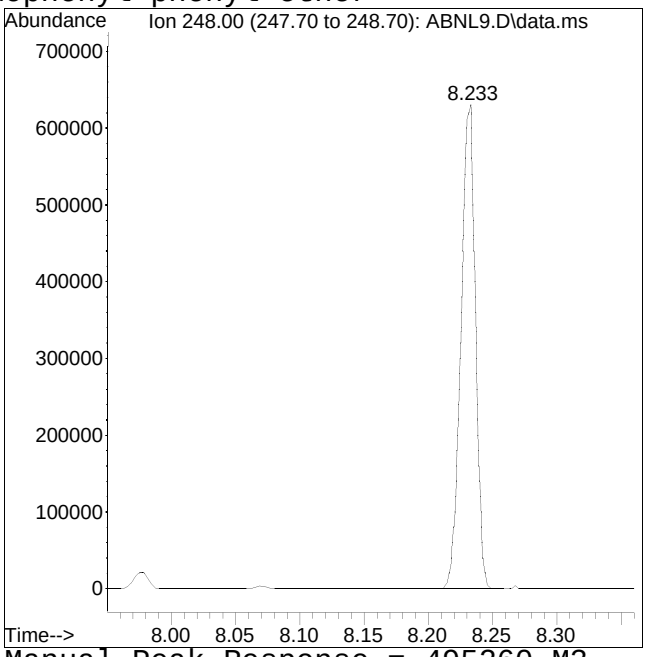
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQMethod : FS241105RVT_Dakota.m
Data File : ABNL9.D Operator : Dakota:HNY
Date Inj'd : 11/5/2024 4:59 pm Instrument : Dakota
Sample : IL2,32,,ABNL50 Lot# 11111 Quant Date : 11/6/2024 8:36 am

Compound #82: 4-Bromophenyl phenyl ether



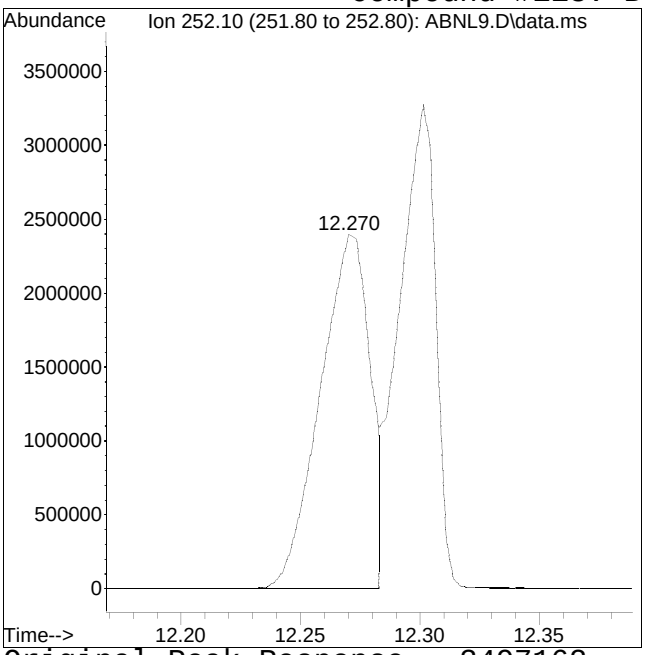


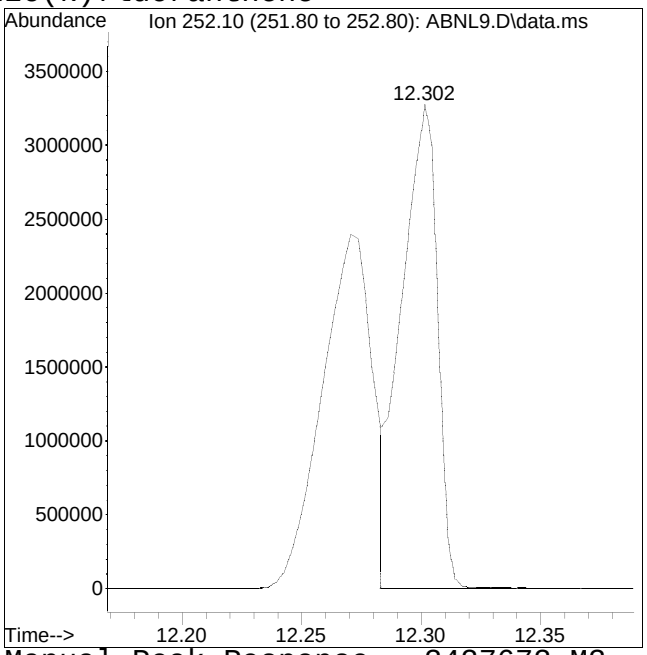
Original Peak Response = 2880 Manual Peak Response = 495260 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQMethod : FS241105RVT_Dakota.m
Data File : ABNL9.D Operator : Dakota:HNY
Date Inj'd : 11/5/2024 4:59 pm Instrument : Dakota
Sample : IL2,32,,ABNL50 Lot# 11111 Quant Date : 11/6/2024 8:36 am

Compound #113: Benzo(k)fluoranthene



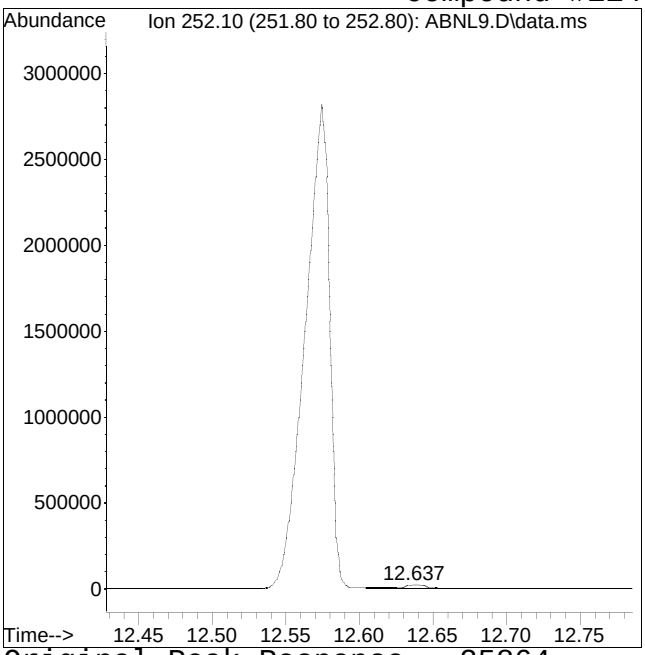


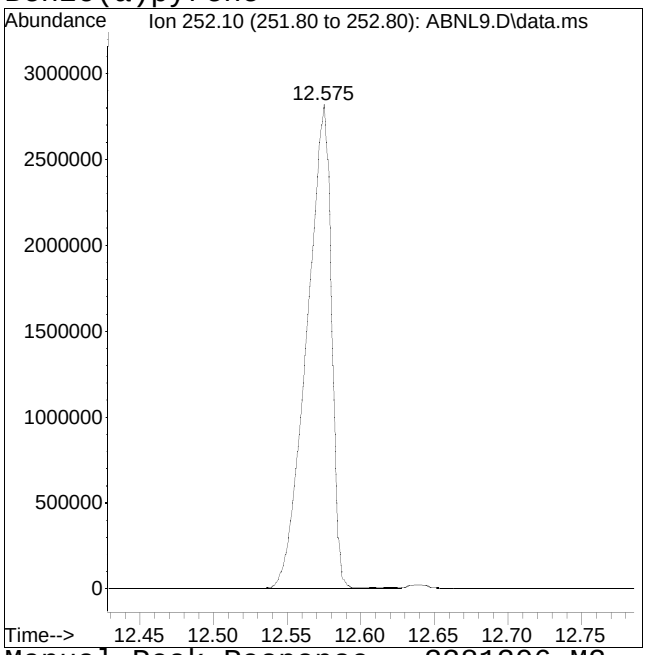
Original Peak Response = 3497162 Manual Peak Response = 3427673 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQMethod : FS241105RVT_Dakota.m
Data File : ABNL9.D Operator : Dakota:HNY
Date Inj'd : 11/5/2024 4:59 pm Instrument : Dakota
Sample : IL2,32,,ABNL50 Lot# 11111 Quant Date : 11/6/2024 8:36 am

Compound #114: Benzo(a)pyrene





Original Peak Response = 25864 Manual Peak Response = 3281306 M2
M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL8.D
Acq On : 5 Nov 2024 5:23 pm
Operator : Dakota:HNY
Sample : IL3,32,,ABNL25 Lot# 11112
Misc : WG1994500
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 06 09:26:22 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.286	152	32882	4.000	ug/ml	0.00
Standard Area 1 = 28960			Recovery = 113.54%			
37) IS1_Naphthalene-d8	5.523	136	122219	4.000	ug/ml	0.00
Standard Area 1 = 107558			Recovery = 113.63%			
65) IS1_Acenaphthene-d10	7.213	164	80019	4.000	ug/ml	0.00
Standard Area 1 = 69553			Recovery = 115.05%			
90) IS1_Phenanthrene-d10	8.625	188	170526	4.000	ug/ml	0.00
Standard Area 1 = 149813			Recovery = 113.83%			
106) IS1_Chrysene-d12	11.198	240	195039	4.000	ug/ml	0.00
Standard Area 1 = 173036			Recovery = 112.72%			
115) IS1_Perylene-d12	12.612	264	222671	4.000	ug/ml	0.00
Standard Area 1 = 203359			Recovery = 109.50%			
System Monitoring Compounds						
4) 2-Fluorophenol	2.999	112	212455	27.464	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 1373.20%#			
7) Phenol-d6	3.990	99	268911	27.046	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 1352.30%#			
19) Nitrobenzene-d5	4.833	82	254511	28.097	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2809.70%#			
48) 2-Fluorobiphenyl	6.595	172	702587	22.505	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2250.50%#			
81) 2,4,6-Tribromophenol	7.972	330	149763	28.710	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 1435.50%#			
98) 4-Terphenyl-d14	10.194	244	1156113	25.134	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2513.40%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.603	74	130982	24.878	ug/ml#	80
3) Pyridine	1.631	79	210509	25.535	ug/ml#	60
5) Aniline	3.969	93	320735	24.903	ug/ml	97
6) 2-Chlorophenol	4.081	128	255159	27.271	ug/ml#	88
8) Phenol	4.003	94	287124	24.686	ug/ml	96
9) Bis(2-chloroethyl)ether	4.059	93	204030	24.768	ug/ml	98
10) 1,3-Dichlorobenzene	4.227	146	310564	22.554	ug/ml	94
11) 1,4-Dichlorobenzene	4.301	146	314288	23.406	ug/ml	94
12) 1,2-Dichlorobenzene	4.447	146	305963	23.725	ug/ml	94
13) Benzyl alcohol	4.454	79	204562	28.170	ug/ml	100
14) Bis(2-chloroisopropyl)...	4.593	45	355071	21.169	ug/ml#	60

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL8.D
Acq On : 5 Nov 2024 5:23 pm
Operator : Dakota:HNY
Sample : IL3,32,,ABNL25 Lot# 11112
Misc : WG1994500
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 06 09:26:22 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	4.593	108	218784	26.705	ug/ml	98
16) Hexachloroethane	4.774	117	117262	24.038	ug/ml#	50
17) n-Nitrosodi-n-propylamine	4.724	70	178039	26.002	ug/ml#	88
18) 3-Methylphenol/4-Methy...	4.752	108	239554	27.559	ug/ml	99
20) Nitrobenzene	4.851	77	257804	26.872	ug/ml	99
21) Isophorone	5.097	82	475439	26.867	ug/ml	95
22) 2-Nitrophenol	5.168	139	138413	34.121	ug/ml#	86
23) 2,4-Dimethylphenol	5.259	107	227762	27.726	ug/ml	99
24) Bis(2-chloroethoxy)met...	5.342	93	287885	25.618	ug/ml#	95
25) 2,4-Dichlorophenol	5.411	162	268517	26.260	ug/ml#	92
26) 1,2,4-Trichlorobenzene	5.482	180	311284	23.084	ug/ml	96
38) Naphthalene	5.541	128	793205	24.199	ug/ml	99
39) Benzoic Acid	5.408	105	196632	27.424	ug/ml	94
40) 4-Chloroaniline	5.622	65	90913	21.228	ug/ml#	66
41) Hexachlorobutadiene	5.697	225	194721	22.832	ug/ml	99
42) p-Chloro-m-cresol	6.129	107	227472	26.736	ug/ml	90
43) 2-Methylnaphthalene	6.219	142	556861	24.101	ug/ml	96
44) 1-Methylnaphthalene	6.309	115	176736	23.431	ug/ml	93
45) Hexachlorocyclopentadiene	6.390	237	222494	27.145	ug/ml	100
46) 2,4,6-Trichlorophenol	6.511	196	228866	25.317	ug/ml	97
47) 2,4,5-Trichlorophenol	6.539	196	248308	24.989	ug/ml	99
49) 2-Chloronaphthalene	6.682	162	619402	22.922	ug/ml	93
50) 2-Nitroaniline	6.800	138	185396	30.174	ug/ml#	77
51) 1,4-Dinitrobenzene	6.934	168	86479	28.212	ug/ml	81
52) 1,3-Dinitrobenzene	7.008	168	98273M3	26.960	ug/ml	
53) Dimethyl phthalate	7.011	163	727981	22.651	ug/ml#	97
54) Acenaphthylene	7.071	152	939390	23.903	ug/ml	99
55) 2,6-Dinitrotoluene	7.049	165	153890	28.438	ug/ml#	75
56) 1,2-Dinitrobenzene	7.089	168	55846	26.330	ug/ml#	85
66) 3-Nitroaniline	7.201	138	166040	31.088	ug/ml#	84
67) Acenaphthene	7.245	154	538516	24.240	ug/ml	88
68) 2,4-Dinitrophenol	7.297	184	103900	29.978	ug/ml#	82
69) Dibenzofuran	7.412	168	916582	23.840	ug/ml#	84
70) 2,4-Dinitrotoluene	7.431	165	216744	29.400	ug/ml#	77
71) 4-Nitrophenol	7.403	65	127663	30.141	ug/ml#	1
72) 2,3,5,6-Tetrachlorophenol	7.506	232	227154	29.182	ug/ml	98
73) 2,3,4,6-Tetrachlorophenol	7.549	232	216190	28.230	ug/ml	98
74) Diethyl phthalate	7.698	149	744890	24.650	ug/ml	99
75) Fluorene	7.739	166	719758	23.879	ug/ml	92
76) 4-Chlorophenyl phenyl ...	7.764	204	367884	23.641	ug/ml#	86

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL8.D
Acq On : 5 Nov 2024 5:23 pm
Operator : Dakota:HNY
Sample : IL3,32,,ABNL25 Lot# 11112
Misc : WG1994500
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 06 09:26:22 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) 4-Nitroaniline	7.789	138	168641	28.451	ug/ml#	77
78) 4,6-Dinitro-o-cresol	7.820	198	138975	26.395	ug/ml#	56
79) NDPA/DPA	7.885	169	622751	23.934	ug/ml	92
80) Azobenzene	7.916	77	627012	25.882	ug/ml	98
82) 4-Bromophenyl phenyl e...	8.227	248	242429	24.482	ug/ml#	81
83) Hexachlorobenzene	8.273	284	302652	24.162	ug/ml#	80
84) Pentachlorophenol	8.469	266	205928	30.229	ug/ml	98
91) Phenanthrene	8.649	178	1171950	24.257	ug/ml	99
92) Anthracene	8.699	178	1188072	24.871	ug/ml	98
93) Carbazole	8.873	167	1104845	24.499	ug/ml	98
94) Di-n-butylphthalate	9.274	149	1359271	27.329	ug/ml#	98
95) Fluoranthene	9.787	202	1432553	23.955	ug/ml#	92
96) Benzidine	9.952	184	909574	26.677	ug/ml#	94
97) Pyrene	9.995	202	1520824	23.903	ug/ml	99
99) Butyl benzyl phthalate	10.710	149	633434	29.840	ug/ml#	82
107) Benzo(a)anthracene	11.189	228	1557344	24.199	ug/ml	98
108) 3,3'-Dichlorobenzidine	11.201	252	649490	27.522	ug/ml#	96
109) Chrysene	11.226	228	1498919	24.158	ug/ml	98
110) Bis(2-ethylhexyl)phtha...	11.338	149	1001664	29.324	ug/ml#	89
111) Di-n-octylphthalate	11.997	149	1719798	30.611	ug/ml#	72
112) Benzo(b)fluoranthene	12.261	252	1643646	24.907	ug/ml#	93
113) Benzo(k)fluoranthene	12.289	252	1666923	25.624	ug/ml#	93
114) Benzo(a)pyrene	12.563	252	1571883M2	26.120	ug/ml	
116) Indeno(1,2,3-cd)pyrene	13.557	276	1785537	26.214	ug/mL#	88
117) Dibenzo(a,h)anthracene	13.582	278	1693306	25.311	ug/ml#	89
118) Benzo(ghi)perylene	13.769	276	1629094	25.150	ug/ml#	86

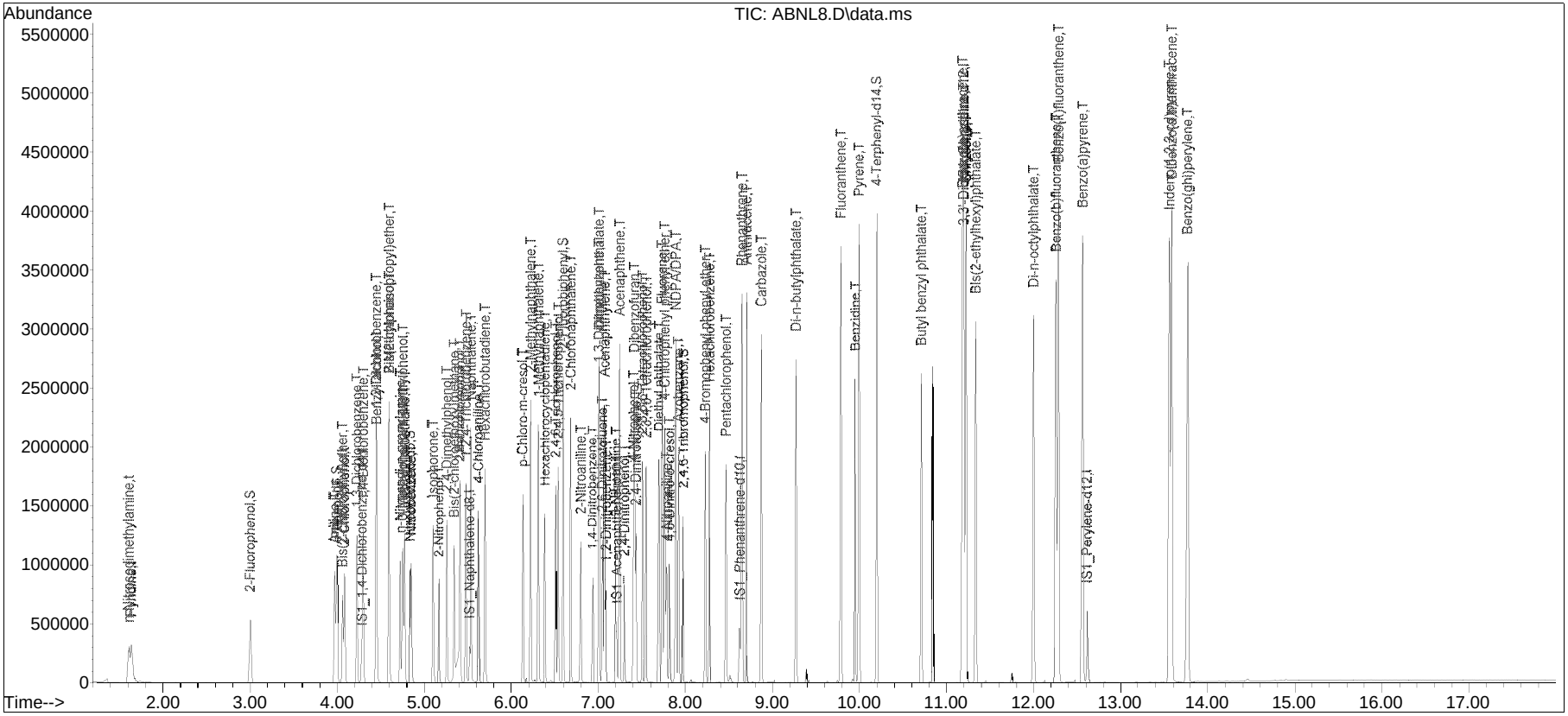
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL8.D
Acq On : 5 Nov 2024 5:23 pm
Operator : Dakota:HNY
Sample : IL3,32,,ABNL25 Lot# 11112
Misc : WG1994500
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 06 09:26:22 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

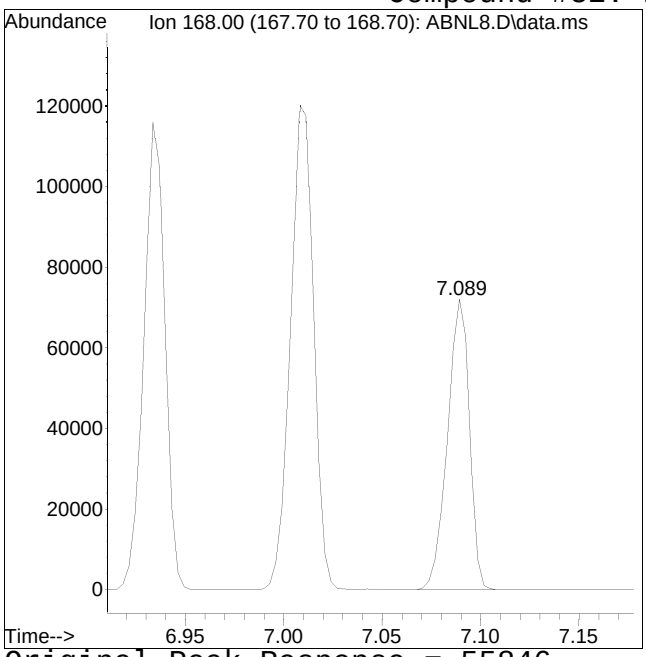
Sub List : ABNical - ABN ical sublistVTICAL\ABNL6.D•

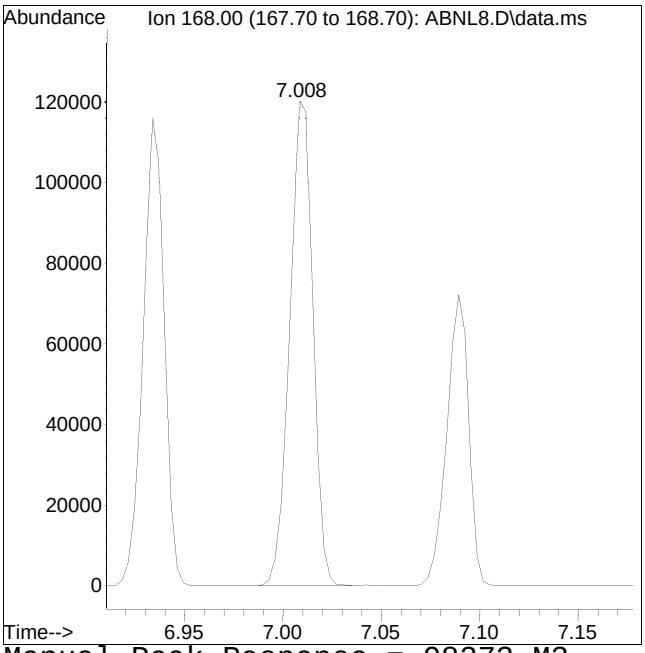


Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQMethod : FS241105RVT_Dakota.m
Data File : ABNL8.D Operator : Dakota:HNY
Date Inj'd : 11/5/2024 5:23 pm Instrument : Dakota
Sample : IL3,32,,ABNL25 Lot# 11112 Quant Date : 11/6/2024 8:36 am

Compound #52: 1,3-Dinitrobenzene





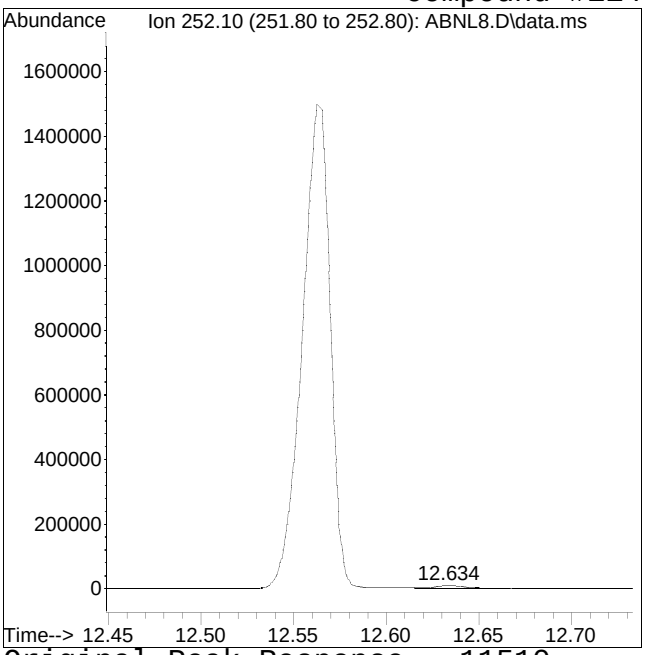
Original Peak Response = 55846 Manual Peak Response = 98273 M3

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

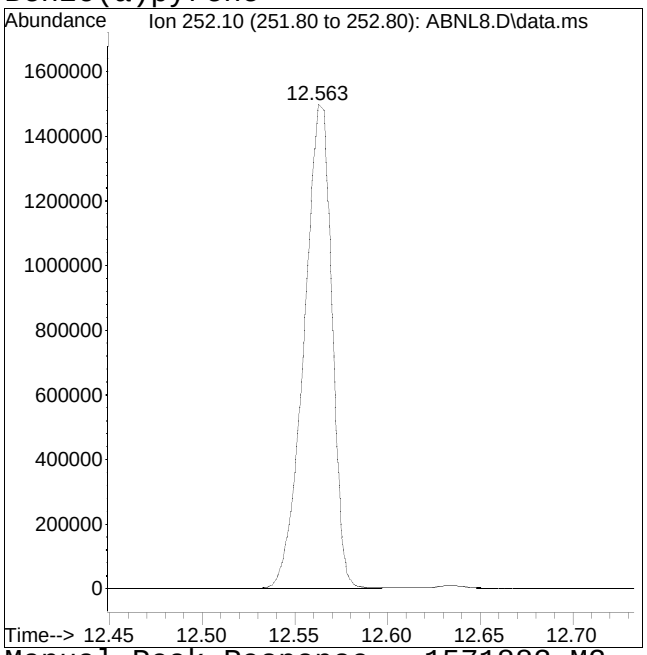
Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQMethod : FS241105RVT_Dakota.m
Data File : ABNL8.D Operator : Dakota:HNY
Date Inj'd : 11/5/2024 5:23 pm Instrument : Dakota
Sample : IL3,32,,ABNL25 Lot# 11112 Quant Date : 11/6/2024 8:36 am

Compound #114: Benzo(a)pyrene



Original Peak Response = 11510



Manual Peak Response = 1571883 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL7.D
Acq On : 5 Nov 2024 5:46 pm
Operator : Dakota:HNY
Sample : IL4,32,,ABNL10 Lot# 11113
Misc : WG1994500
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 06 09:24:22 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.283	152	30017	4.000	ug/ml	# 0.00
Standard Area 1 = 28960			Recovery = 103.65%			
37) IS1_Naphthalene-d8	5.520	136	110693	4.000	ug/ml	# 0.00
Standard Area 1 = 107558			Recovery = 102.91%			
65) IS1_Acenaphthene-d10	7.210	164	71339	4.000	ug/ml	0.00
Standard Area 1 = 69553			Recovery = 102.57%			
90) IS1_Phenanthrene-d10	8.625	188	152962	4.000	ug/ml	0.00
Standard Area 1 = 149813			Recovery = 102.10%			
106) IS1_Chrysene-d12	11.192	240	173819	4.000	ug/ml	0.00
Standard Area 1 = 173036			Recovery = 100.45%			
115) IS1_Perylene-d12	12.609	264	202944	4.000	ug/ml	0.00
Standard Area 1 = 203359			Recovery = 99.80%			
System Monitoring Compounds						
4) 2-Fluorophenol	2.999	112	75910	10.750	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 537.50%#			
7) Phenol-d6	3.987	99	95741	10.548	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 527.40%#			
19) Nitrobenzene-d5	4.833	82	89064	10.771	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 1077.10%#			
48) 2-Fluorobiphenyl	6.592	172	249603	8.828	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 882.80%#			
81) 2,4,6-Tribromophenol	7.969	330	49268	10.594	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 529.70%#			
98) 4-Terphenyl-d14	10.191	244	402353	9.752	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 975.20%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.597	74	46870	9.752	ug/ml#	80
3) Pyridine	1.628	79	77978	10.362	ug/ml#	59
5) Aniline	3.966	93	113575	9.660	ug/ml	96
6) 2-Chlorophenol	4.077	128	91502	10.713	ug/ml#	88
8) Phenol	4.000	94	103024	9.703	ug/ml	95
9) Bis(2-chloroethyl)ether	4.056	93	74057	9.848	ug/ml	96
10) 1,3-Dichlorobenzene	4.224	146	112322	8.936	ug/ml	94
11) 1,4-Dichlorobenzene	4.298	146	113494	9.259	ug/ml	94
12) 1,2-Dichlorobenzene	4.447	146	108571	9.223	ug/ml	93
13) Benzyl alcohol	4.450	79	69764	10.524	ug/ml	100
14) Bis(2-chloroisopropyl)...	4.593	45	128127	8.368	ug/ml#	60

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL7.D
Acq On : 5 Nov 2024 5:46 pm
Operator : Dakota:HNY
Sample : IL4,32,,ABNL10 Lot# 11113
Misc : WG1994500
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 06 09:24:22 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	4.590	108	78768	10.532	ug/ml	100
16) Hexachloroethane	4.771	117	41863	9.401	ug/ml#	51
17) n-Nitrosodi-n-propylamine	4.721	70	62227	9.956	ug/ml#	88
18) 3-Methylphenol/4-Methy...	4.749	108	83179	10.483	ug/ml	98
20) Nitrobenzene	4.848	77	90914	10.381	ug/ml	97
21) Isophorone	5.094	82	163635	10.130	ug/ml	94
22) 2-Nitrophenol	5.165	139	46777	12.632	ug/ml#	87
23) 2,4-Dimethylphenol	5.259	107	80631	10.752	ug/ml	99
24) Bis(2-chloroethoxy)met...	5.339	93	101509	9.895	ug/ml#	97
25) 2,4-Dichlorophenol	5.408	162	93402	10.006	ug/ml#	92
26) 1,2,4-Trichlorobenzene	5.479	180	110668	8.990	ug/ml	96
38) Naphthalene	5.538	128	279417	9.412	ug/ml	99
39) Benzoic Acid	5.367	105	62503	10.680	ug/ml	91
40) 4-Chloroaniline	5.619	65	31494	8.120	ug/ml#	65
41) Hexachlorobutadiene	5.697	225	68910	8.921	ug/ml	100
42) p-Chloro-m-cresol	6.126	107	76197	9.889	ug/ml	89
43) 2-Methylnaphthalene	6.216	142	195484	9.341	ug/ml	95
44) 1-Methylnaphthalene	6.309	115	62192	9.104	ug/ml	93
45) Hexachlorocyclopentadiene	6.390	237	75925	10.228	ug/ml	99
46) 2,4,6-Trichlorophenol	6.508	196	78117	9.541	ug/ml	99
47) 2,4,5-Trichlorophenol	6.539	196	86553	9.617	ug/ml	97
49) 2-Chloronaphthalene	6.679	162	214208	8.752	ug/ml	93
50) 2-Nitroaniline	6.797	138	61633	11.076	ug/ml#	78
51) 1,4-Dinitrobenzene	6.931	168	28021	10.093	ug/ml	80
52) 1,3-Dinitrobenzene	7.005	168	32467	9.834	ug/ml#	1
53) Dimethyl phthalate	7.005	163	252504	8.675	ug/ml#	98
54) Acenaphthylene	7.071	152	326834	9.182	ug/ml	99
55) 2,6-Dinitrotoluene	7.043	165	51689	10.546	ug/ml#	75
56) 1,2-Dinitrobenzene	7.083	168	19215	10.003	ug/ml#	1
66) 3-Nitroaniline	7.195	138	57722	12.122	ug/ml#	82
67) Acenaphthene	7.242	154	187097	9.447	ug/ml	88
68) 2,4-Dinitrophenol	7.294	184	32967	10.669	ug/ml#	82
69) Dibenzofuran	7.409	168	323476	9.437	ug/ml#	87
70) 2,4-Dinitrotoluene	7.425	165	73085	11.120	ug/ml#	76
71) 4-Nitrophenol	7.397	65	42265	11.193	ug/ml#	27
72) 2,3,5,6-Tetrachlorophenol	7.506	232	76542	11.030	ug/ml	98
73) 2,3,4,6-Tetrachlorophenol	7.546	232	75038	10.990	ug/ml	99
74) Diethyl phthalate	7.692	149	257720	9.566	ug/ml	98
75) Fluorene	7.736	166	249496	9.285	ug/ml	91
76) 4-Chlorophenyl phenyl ...	7.764	204	127708	9.205	ug/ml#	85

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL7.D
Acq On : 5 Nov 2024 5:46 pm
Operator : Dakota:HNY
Sample : IL4,32,,ABNL10 Lot# 11113
Misc : WG1994500
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 06 09:24:22 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77)	4-Nitroaniline	7.776	138	56545	10.700	ug/ml#	78
78)	4,6-Dinitro-o-cresol	7.810	198	44733	9.776	ug/ml#	57
79)	NDPA/DPA	7.882	169	214404	9.243	ug/ml	92
80)	Azobenzene	7.913	77	215745	9.989	ug/ml	98
82)	4-Bromophenyl phenyl e...	8.227	248	84538	9.576	ug/ml#	80
83)	Hexachlorobenzene	8.270	284	103252	9.246	ug/ml#	79
84)	Pentachlorophenol	8.466	266	67607	11.132	ug/ml	99
91)	Phenanthrene	8.646	178	409956	9.459	ug/ml	99
92)	Anthracene	8.693	178	407125	9.501	ug/ml	98
93)	Carbazole	8.867	167	382642	9.459	ug/ml	98
94)	Di-n-butylphthalate	9.271	149	460432	10.320	ug/ml#	98
95)	Fluoranthene	9.784	202	502795	9.373	ug/ml#	92
96)	Benzidine	9.946	184	312907	10.231	ug/ml#	94
97)	Pyrene	9.992	202	534393	9.364	ug/ml	99
99)	Butyl benzyl phthalate	10.707	149	207056	10.874	ug/ml#	82
107)	Benzo(a)anthracene	11.186	228	548250	9.559	ug/ml	99
108)	3,3'-Dichlorobenzidine	11.198	252	225540	10.724	ug/ml#	97
109)	Chrysene	11.220	228	521142	9.424	ug/ml	98
110)	Bis(2-ethylhexyl)phtha...	11.338	149	336797	11.063	ug/ml#	89
111)	Di-n-octylphthalate	11.994	149	571767	11.419	ug/ml#	72
112)	Benzo(b)fluoranthene	12.255	252	579285	9.850	ug/ml#	93
113)	Benzo(k)fluoranthene	12.283	252	591670	10.206	ug/ml#	93
114)	Benzo(a)pyrene	12.556	252	548576	10.228	ug/ml#	93
116)	Indeno(1,2,3-cd)pyrene	13.548	276	610183	9.829	ug/mL#	89
117)	Dibenzo(a,h)anthracene	13.573	278	601923	9.872	ug/ml#	89
118)	Benzo(ghi)perylene	13.759	276	576728	9.769	ug/ml#	86

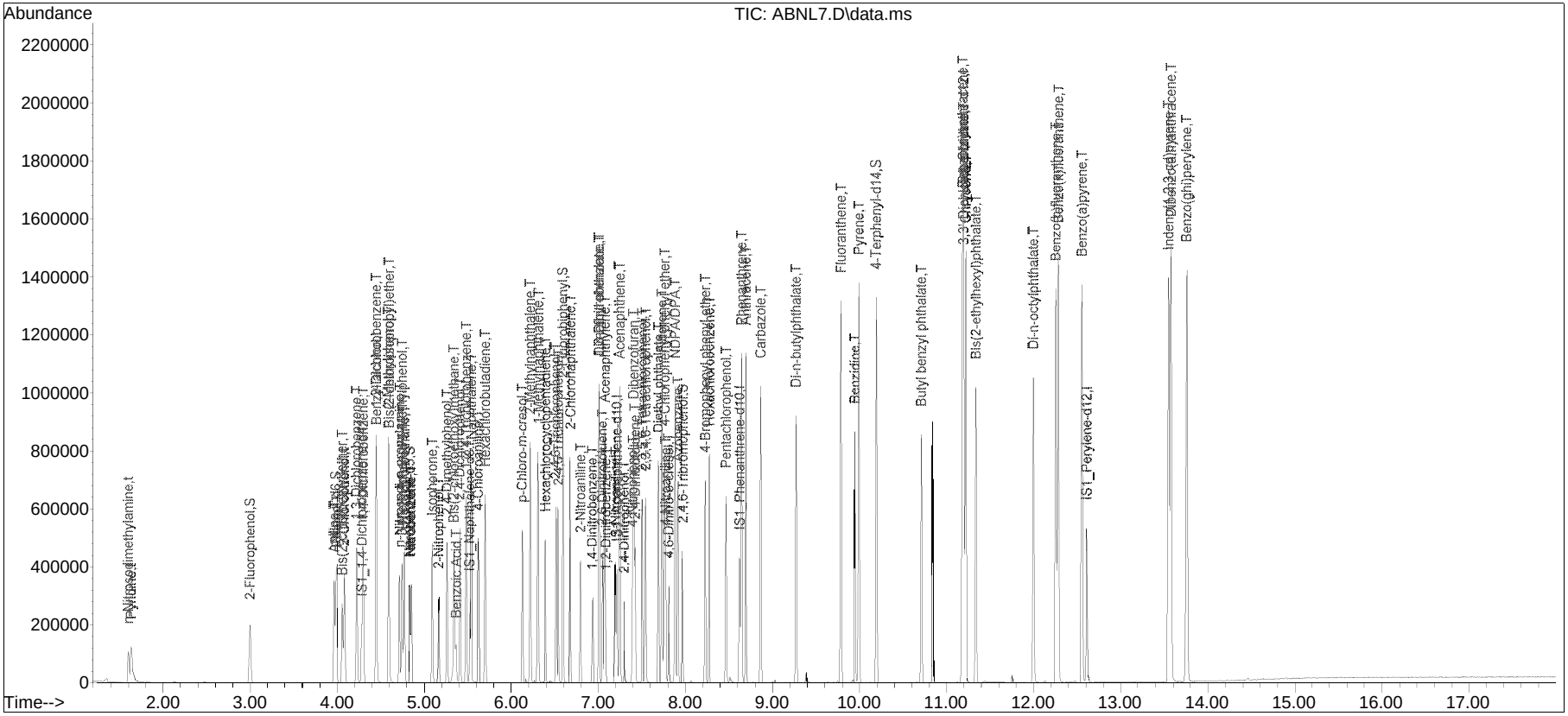
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL7.D
Acq On : 5 Nov 2024 5:46 pm
Operator : Dakota:HNY
Sample : IL4,32,,ABNL10 Lot# 11113
Misc : WG1994500
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 06 09:24:22 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistVTICAL\ABNL6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\241105RVTICQ	Method	: FS241105RVT_Dakota.m
Data File	: ABNL7.D	Operator	: Dakota:HNY
Date Inj'd	: 11/5/2024 5:46 pm	Instrument	: Dakota
Sample	: IL4,32,,ABNL10 Lot# 11113	Quant Date	: 11/6/2024 8:36 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL6.D
Acq On : 5 Nov 2024 6:09 pm
Operator : Dakota:HNY
Sample : IL5,32,,ABNL5 Lot# 11114
Misc : WG1994500
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 06 09:23:32 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	4.283	152	28960	4.000 ug/ml	0.00
Standard Area 1 = 28960			Recovery = 100.00%		
37) IS1_Naphthalene-d8	5.520	136	107558	4.000 ug/ml	# 0.00
Standard Area 1 = 107558			Recovery = 100.00%		
65) IS1_Acenaphthene-d10	7.210	164	69553	4.000 ug/ml	0.00
Standard Area 1 = 69553			Recovery = 100.00%		
90) IS1_Phenanthrene-d10	8.625	188	149813	4.000 ug/ml	0.00
Standard Area 1 = 149813			Recovery = 100.00%		
106) IS1_Chrysene-d12	11.192	240	173036	4.000 ug/ml	0.00
Standard Area 1 = 173036			Recovery = 100.00%		
115) IS1_Perylene-d12	12.609	264	203359	4.000 ug/ml	0.00
Standard Area 1 = 203359			Recovery = 100.00%		
System Monitoring Compounds					
4) 2-Fluorophenol	2.999	112	36379	5.340 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 267.00%#		
7) Phenol-d6	3.984	99	46206	5.277 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 263.85%#		
19) Nitrobenzene-d5	4.833	82	42587	5.338 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 533.80%#		
48) 2-Fluorobiphenyl	6.592	172	122549	4.460 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 446.00%#		
81) 2,4,6-Tribromophenol	7.969	330	23686	5.224 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 261.20%#		
98) 4-Terphenyl-d14	10.191	244	199652	4.941 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 494.10%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	1.600	74	22399	4.830 ug/ml	82
3) Pyridine	1.634	79	36774	5.065 ug/ml#	62
5) Aniline	3.969	93	55552	4.897 ug/ml	96
6) 2-Chlorophenol	4.077	128	43820	5.318 ug/ml#	88
8) Phenol	3.997	94	50251	4.906 ug/ml	96
9) Bis(2-chloroethyl)ether	4.059	93	35511	4.895 ug/ml	100
10) 1,3-Dichlorobenzene	4.223	146	54655	4.507 ug/ml	94
11) 1,4-Dichlorobenzene	4.301	146	55620	4.703 ug/ml	95
12) 1,2-Dichlorobenzene	4.447	146	53065	4.672 ug/ml	93
13) Benzyl alcohol	4.450	79	33022	5.163 ug/ml	98
14) Bis(2-chloroisopropyl)...	4.593	45	61759	4.181 ug/ml#	61

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL6.D
Acq On : 5 Nov 2024 6:09 pm
Operator : Dakota:HNY
Sample : IL5,32,,ABNL5 Lot# 11114
Misc : WG1994500
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 06 09:23:32 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	4.590	108	36689	5.085	ug/ml	99
16) Hexachloroethane	4.774	117	19654	4.575	ug/ml#	49
17) n-Nitrosodi-n-propylamine	4.721	70	29429	4.880	ug/ml#	88
18) 3-Methylphenol/4-Methy...	4.749	108	40096	5.238	ug/ml	98
20) Nitrobenzene	4.848	77	43553	5.155	ug/ml	95
21) Isophorone	5.094	82	78642	5.046	ug/ml	95
22) 2-Nitrophenol	5.165	139	21659	6.062	ug/ml#	85
23) 2,4-Dimethylphenol	5.255	107	38443	5.313	ug/ml	99
24) Bis(2-chloroethoxy)met...	5.339	93	48954	4.946	ug/ml	97
25) 2,4-Dichlorophenol	5.408	162	45088	5.007	ug/ml#	91
26) 1,2,4-Trichlorobenzene	5.479	180	53442	4.500	ug/ml	96
38) Naphthalene	5.538	128	137444	4.765	ug/ml	99
39) Benzoic Acid	5.346	105	27655	5.748	ug/ml	91
40) 4-Chloroaniline	5.622	65	15918	4.223	ug/ml#	74
41) Hexachlorobutadiene	5.697	225	33657	4.484	ug/ml	99
42) p-Chloro-m-cresol	6.126	107	37630	5.026	ug/ml	90
43) 2-Methylnaphthalene	6.216	142	94136	4.630	ug/ml	96
44) 1-Methylnaphthalene	6.309	115	31140	4.691	ug/ml	96
45) Hexachlorocyclopentadiene	6.390	237	36194	5.018	ug/ml	99
46) 2,4,6-Trichlorophenol	6.508	196	37386	4.699	ug/ml	96
47) 2,4,5-Trichlorophenol	6.539	196	40448	4.625	ug/ml	99
49) 2-Chloronaphthalene	6.679	162	107403	4.516	ug/ml#	91
50) 2-Nitroaniline	6.797	138	29098	5.381	ug/ml#	76
51) 1,4-Dinitrobenzene	6.931	168	12684	4.702	ug/ml	83
52) 1,3-Dinitrobenzene	7.002	168	15384	4.796	ug/ml#	1
53) Dimethyl phthalate	7.002	163	124096	4.387	ug/ml#	98
54) Acenaphthylene	7.067	152	159055	4.599	ug/ml	99
55) 2,6-Dinitrotoluene	7.043	165	25000	5.250	ug/ml#	75
56) 1,2-Dinitrobenzene	7.080	168	9417	5.045	ug/ml#	1
66) 3-Nitroaniline	7.192	138	26990	5.814	ug/ml#	85
67) Acenaphthene	7.241	154	92335	4.782	ug/ml	89
68) 2,4-Dinitrophenol	7.291	184	14980	4.972	ug/ml#	84
69) Dibenzofuran	7.409	168	158615	4.746	ug/ml#	87
70) 2,4-Dinitrotoluene	7.425	165	34950	5.454	ug/ml	86
71) 4-Nitrophenol	7.397	65	20265	5.504	ug/ml#	1
72) 2,3,5,6-Tetrachlorophenol	7.503	232	36982	5.466	ug/ml	97
73) 2,3,4,6-Tetrachlorophenol	7.546	232	35881	5.390	ug/ml	98
74) Diethyl phthalate	7.689	149	124775	4.750	ug/ml	98
75) Fluorene	7.736	166	123482	4.713	ug/ml	92
76) 4-Chlorophenyl phenyl ...	7.764	204	62734	4.638	ug/ml#	86

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL6.D
Acq On : 5 Nov 2024 6:09 pm
Operator : Dakota:HNY
Sample : IL5,32,,ABNL5 Lot# 11114
Misc : WG1994500
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 06 09:23:32 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77) 4-Nitroaniline	7.773	138	27164	5.272	ug/ml#	79
78) 4,6-Dinitro-o-cresol	7.807	198	21012	4.910	ug/ml#	57
79) NDPA/DPA	7.879	169	106063	4.690	ug/ml	93
80) Azobenzene	7.910	77	105738	5.022	ug/ml	98
82) 4-Bromophenyl phenyl e...	8.227	248	41201	4.787	ug/ml#	80
83) Hexachlorobenzene	8.267	284	50912	4.676	ug/ml#	80
84) Pentachlorophenol	8.463	266	31065	5.246	ug/ml	97
91) Phenanthrene	8.646	178	203180	4.787	ug/ml	100
92) Anthracene	8.693	178	202631	4.828	ug/ml	99
93) Carbazole	8.867	167	191087	4.823	ug/ml	99
94) Di-n-butylphthalate	9.271	149	221941	5.079	ug/ml#	98
95) Fluoranthene	9.784	202	247376	4.709	ug/ml#	92
96) Benzidine	9.945	184	150013	5.008	ug/ml#	94
97) Pyrene	9.989	202	267661	4.788	ug/ml	99
99) Butyl benzyl phthalate	10.707	149	97439	5.225	ug/ml#	82
107) Benzo(a)anthracene	11.183	228	270494	4.738	ug/ml	99
108) 3,3'-Dichlorobenzidine	11.195	252	108876	5.200	ug/ml#	96
109) Chrysene	11.217	228	264748	4.809	ug/ml	99
110) Bis(2-ethylhexyl)phtha...	11.335	149	158349	5.225	ug/ml#	89
111) Di-n-octylphthalate	11.994	149	263131	5.279	ug/ml#	71
112) Benzo(b)fluoranthene	12.252	252	283903	4.849	ug/ml#	94
113) Benzo(k)fluoranthene	12.280	252	293103	5.079	ug/ml#	92
114) Benzo(a)pyrene	12.553	252	266408	4.990	ug/ml#	93
116) Indeno(1,2,3-cd)pyrene	13.545	276	297219	4.778	ug/mL#	88
117) Dibenzo(a,h)anthracene	13.570	278	297184	4.864	ug/ml#	89
118) Benzo(ghi)perylene	13.753	276	284158	4.803	ug/ml#	86

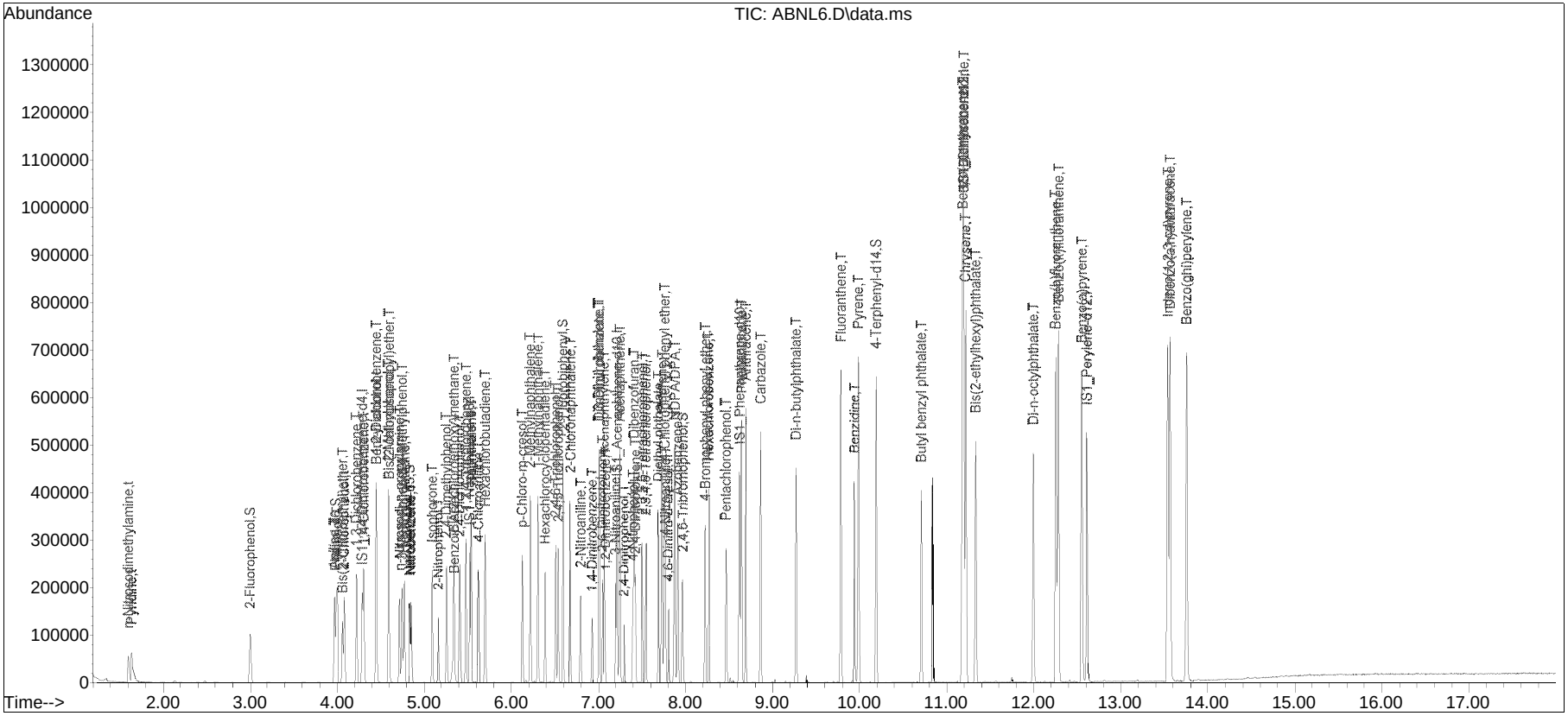
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL6.D
Acq On : 5 Nov 2024 6:09 pm
Operator : Dakota:HNY
Sample : IL5,32,,ABNL5 Lot# 11114
Misc : WG1994500
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 06 09:23:32 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistVTICAL\ABNL6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\241105RVTICQ	Method	: FS241105RVT_Dakota.m
Data File	: ABNL6.D	Operator	: Dakota:HNY
Date Inj'd	: 11/5/2024 6:09 pm	Instrument	: Dakota
Sample	: IL5,32,,ABNL5 Lot# 11114	Quant Date	: 11/6/2024 8:36 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL5.D
Acq On : 5 Nov 2024 6:33 pm
Operator : Dakota:HNY
Sample : IL6,32,,ABNL2.5 Lot# 11115
Misc : WG1994500
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 06 09:23:14 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	4.283	152	29578	4.000 ug/ml	0.00
Standard Area 1 = 28960			Recovery = 102.13%		
37) IS1_Naphthalene-d8	5.520	136	108514	4.000 ug/ml	# 0.00
Standard Area 1 = 107558			Recovery = 100.89%		
65) IS1_Acenaphthene-d10	7.210	164	69464	4.000 ug/ml	0.00
Standard Area 1 = 69553			Recovery = 99.87%		
90) IS1_Phenanthrene-d10	8.622	188	149902	4.000 ug/ml	0.00
Standard Area 1 = 149813			Recovery = 100.06%		
106) IS1_Chrysene-d12	11.192	240	171800	4.000 ug/ml	0.00
Standard Area 1 = 173036			Recovery = 99.29%		
115) IS1_Perylene-d12	12.609	264	200787	4.000 ug/ml	0.00
Standard Area 1 = 203359			Recovery = 98.74%		
System Monitoring Compounds					
4) 2-Fluorophenol	2.999	112	16767	2.410 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 120.50%#		
7) Phenol-d6	3.984	99	20488	2.291 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 114.55%#		
19) Nitrobenzene-d5	4.833	82	19806	2.431 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 243.10%#		
48) 2-Fluorobiphenyl	6.592	172	57800	2.085 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 208.50%#		
81) 2,4,6-Tribromophenol	7.969	330	10800	2.385 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 119.25%#		
98) 4-Terphenyl-d14	10.191	244	94387	2.334 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 233.40%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	1.607	74	10936	2.309 ug/ml#	79
3) Pyridine	1.647	79	17761	2.395 ug/ml#	57
5) Aniline	3.969	93	26004	2.245 ug/ml	97
6) 2-Chlorophenol	4.081	128	20780	2.469 ug/ml#	87
8) Phenol	3.997	94	23244	2.222 ug/ml	95
9) Bis(2-chloroethyl)ether	4.059	93	17155	2.315 ug/ml	95
10) 1,3-Dichlorobenzene	4.224	146	25363	2.048 ug/ml	93
11) 1,4-Dichlorobenzene	4.298	146	26480	2.192 ug/ml	94
12) 1,2-Dichlorobenzene	4.447	146	25558	2.203 ug/ml	93
13) Benzyl alcohol	4.450	79	15128	2.316 ug/ml	97
14) Bis(2-chloroisopropyl)...	4.593	45	29769	1.973 ug/ml#	63

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL5.D
Acq On : 5 Nov 2024 6:33 pm
Operator : Dakota:HNY
Sample : IL6,32,,ABNL2.5 Lot# 11115
Misc : WG1994500
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 06 09:23:14 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	4.590	108	17543	2.380	ug/ml	99
16) Hexachloroethane	4.771	117	9381	2.138	ug/ml#	49
17) n-Nitrosodi-n-propylamine	4.721	70	13382	2.173	ug/ml#	89
18) 3-Methylphenol/4-Methy...	4.749	108	18226	2.331	ug/ml	94
20) Nitrobenzene	4.851	77	19986	2.316	ug/ml	97
21) Isophorone	5.097	82	35708	2.243	ug/ml	94
22) 2-Nitrophenol	5.165	139	9948	2.726	ug/ml#	87
23) 2,4-Dimethylphenol	5.255	107	17802	2.409	ug/ml	98
24) Bis(2-chloroethoxy)met...	5.339	93	22852	2.261	ug/ml#	96
25) 2,4-Dichlorophenol	5.408	162	20663	2.247	ug/ml#	92
26) 1,2,4-Trichlorobenzene	5.479	180	24934	2.056	ug/ml	97
38) Naphthalene	5.538	128	65418	2.248	ug/ml	99
39) Benzoic Acid	5.330	105	11562	3.334	ug/ml	92
40) 4-Chloroaniline	5.622	65	7308	1.922	ug/ml#	69
41) Hexachlorobutadiene	5.697	225	15656	2.068	ug/ml	98
42) p-Chloro-m-cresol	6.126	107	16669	2.207	ug/ml	89
43) 2-Methylnaphthalene	6.216	142	44702	2.179	ug/ml	96
44) 1-Methylnaphthalene	6.309	115	14070	2.101	ug/ml	91
45) Hexachlorocyclopentadiene	6.390	237	16271	2.236	ug/ml	98
46) 2,4,6-Trichlorophenol	6.508	196	16943	2.111	ug/ml	97
47) 2,4,5-Trichlorophenol	6.536	196	18833	2.135	ug/ml	100
49) 2-Chloronaphthalene	6.676	162	49375	2.058	ug/ml#	93
50) 2-Nitroaniline	6.794	138	12454	2.283	ug/ml#	80
51) 1,4-Dinitrobenzene	6.931	168	5829M3	2.142	ug/ml	
52) 1,3-Dinitrobenzene	7.002	168	6632	2.049	ug/ml#	1
53) Dimethyl phthalate	7.002	163	58737	2.058	ug/ml#	98
54) Acenaphthylene	7.067	152	74072	2.123	ug/ml	99
55) 2,6-Dinitrotoluene	7.040	165	11316	2.355	ug/ml#	73
56) 1,2-Dinitrobenzene	7.080	168	4222	2.242	ug/ml#	1
66) 3-Nitroaniline	7.192	138	12311	2.655	ug/ml	87
67) Acenaphthene	7.238	154	43594	2.260	ug/ml	90
68) 2,4-Dinitrophenol	7.294	184	6486	2.156	ug/ml#	81
69) Dibenzofuran	7.409	168	75940	2.275	ug/ml	89
70) 2,4-Dinitrotoluene	7.422	165	15676	2.449	ug/ml	89
71) 4-Nitrophenol	7.394	65	9042	2.459	ug/ml#	30
72) 2,3,5,6-Tetrachlorophenol	7.503	232	16922	2.504	ug/ml	97
73) 2,3,4,6-Tetrachlorophenol	7.543	232	16643	2.503	ug/ml	97
74) Diethyl phthalate	7.689	149	59292	2.260	ug/ml	97
75) Fluorene	7.736	166	56914	2.175	ug/ml	91
76) 4-Chlorophenyl phenyl ...	7.764	204	29670	2.196	ug/ml#	85

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL5.D
Acq On : 5 Nov 2024 6:33 pm
Operator : Dakota:HNY
Sample : IL6,32,,ABNL2.5 Lot# 11115
Misc : WG1994500
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 06 09:23:14 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77)	4-Nitroaniline	7.770	138	11929	2.318	ug/ml#	80
78)	4,6-Dinitro-o-cresol	7.807	198	9125	2.353	ug/ml#	58
79)	NDPA/DPA	7.879	169	49243	2.180	ug/ml	93
80)	Azobenzene	7.910	77	48438	2.303	ug/ml	99
82)	4-Bromophenyl phenyl e...	8.224	248	19203	2.234	ug/ml#	78
83)	Hexachlorobenzene	8.267	284	24775	2.278	ug/ml#	79
84)	Pentachlorophenol	8.463	266	13677	2.313	ug/ml	99
91)	Phenanthrene	8.643	178	95445	2.247	ug/ml	100
92)	Anthracene	8.693	178	95270	2.269	ug/ml	99
93)	Carbazole	8.867	167	89548	2.259	ug/ml	98
94)	Di-n-butylphthalate	9.271	149	99712	2.281	ug/ml#	98
95)	Fluoranthene	9.781	202	117123	2.228	ug/ml#	91
96)	Benzidine	9.946	184	66293	2.212	ug/ml#	94
97)	Pyrene	9.989	202	126787	2.267	ug/ml	99
99)	Butyl benzyl phthalate	10.707	149	42406	2.272	ug/ml#	83
107)	Benzo(a)anthracene	11.183	228	124996	2.205	ug/ml	98
108)	3,3'-Dichlorobenzidine	11.192	252	48853	2.350	ug/ml#	97
109)	Chrysene	11.217	228	124749	2.283	ug/ml	98
110)	Bis(2-ethylhexyl)phtha...	11.335	149	67600	2.247	ug/ml#	89
111)	Di-n-octylphthalate	11.994	149	110289	2.229	ug/ml#	71
112)	Benzo(b)fluoranthene	12.252	252	137623	2.368	ug/ml#	93
113)	Benzo(k)fluoranthene	12.277	252	129836	2.266	ug/ml#	94
114)	Benzo(a)pyrene	12.553	252	121012	2.283	ug/ml#	92
116)	Indeno(1,2,3-cd)pyrene	13.542	276	132618	2.159	ug/mL#	88
117)	Dibenzo(a,h)anthracene	13.567	278	135000	2.238	ug/ml#	89
118)	Benzo(ghi)perylene	13.753	276	128448	2.199	ug/ml#	85

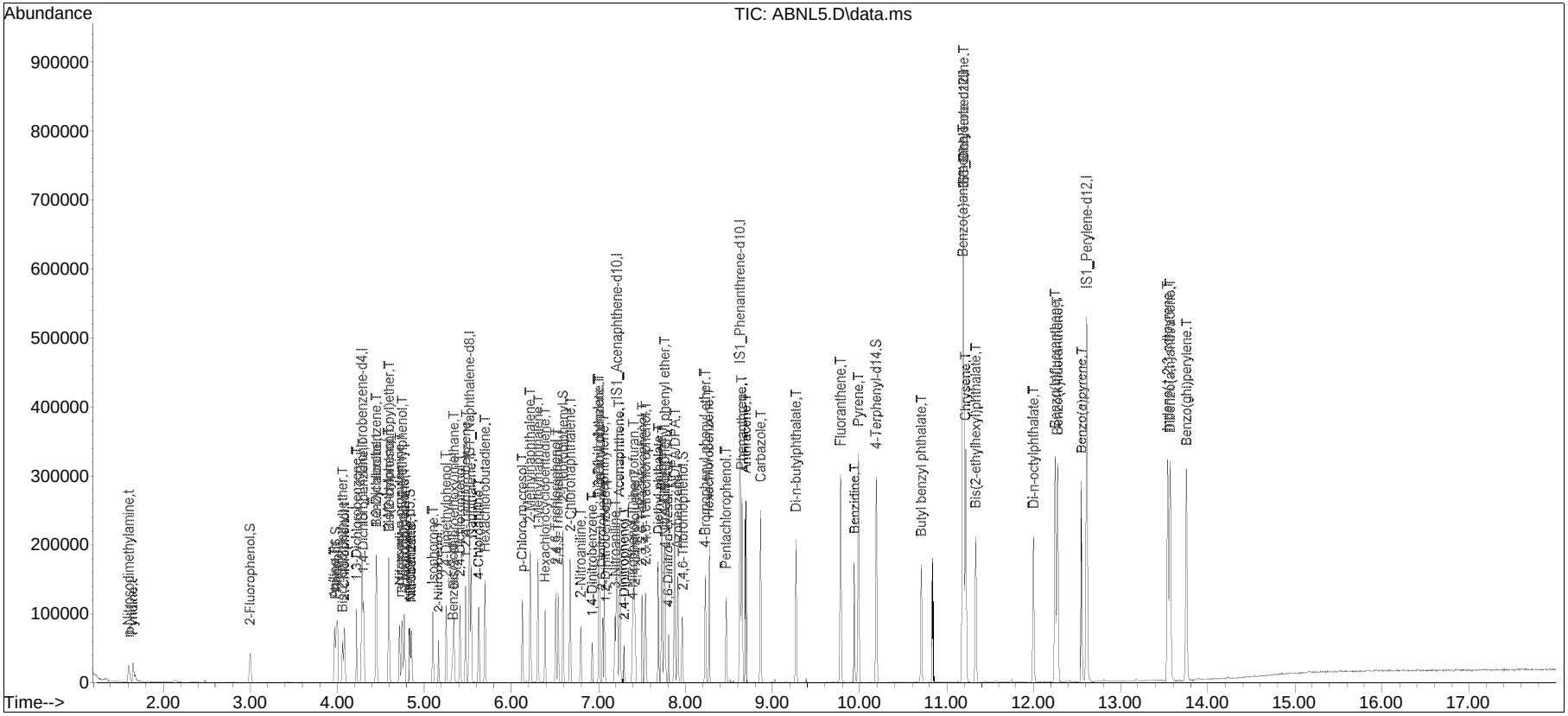
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL5.D
Acq On : 5 Nov 2024 6:33 pm
Operator : Dakota:HNY
Sample : IL6,32,,ABNL2.5 Lot# 11115
Misc : WG1994500
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 06 09:23:14 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

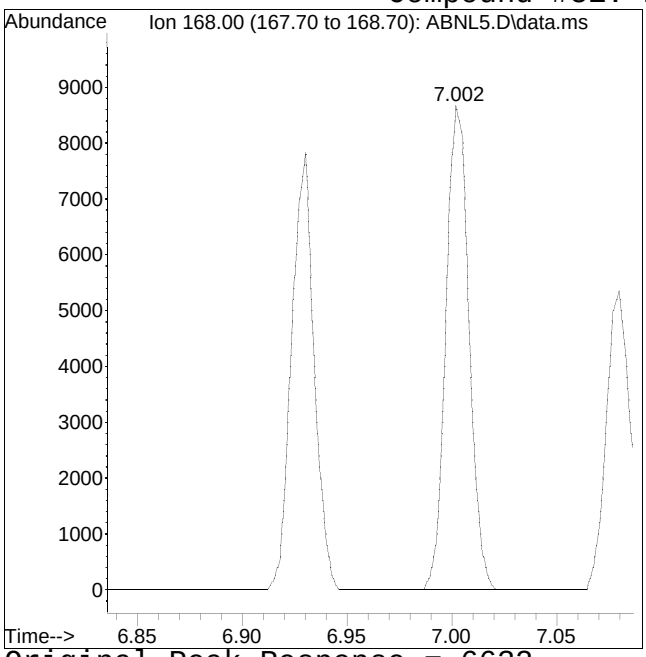
Sub List : ABNical - ABN ical sublistVTICAL\ABNL6.D•

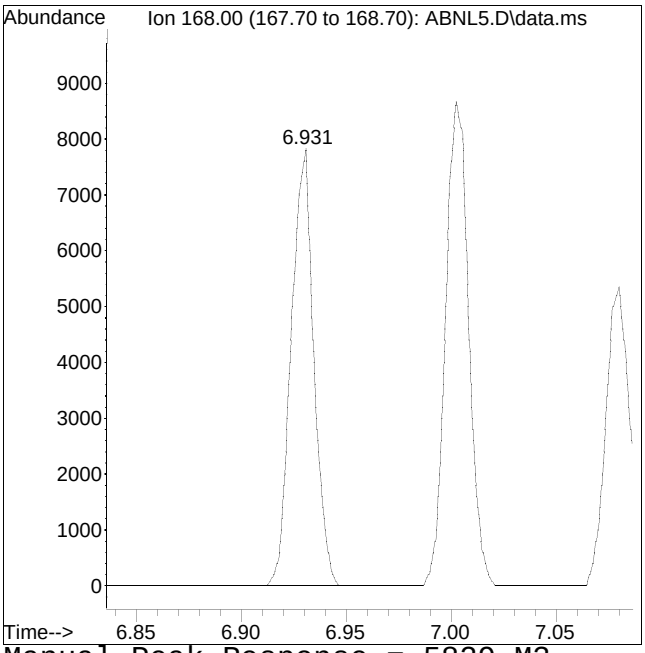


Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQMethod : FS241105RVT_Dakota.m
Data File : ABNL5.D Operator : Dakota:HNY
Date Inj'd : 11/5/2024 6:33 pm Instrument : Dakota
Sample : IL6,32,,ABNL2.5 Lot# 11115Quant Date : 11/6/2024 8:35 am

Compound #51: 1,4-Dinitrobenzene





Original Peak Response = 6632 Manual Peak Response = 5829 M3

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL4.D
Acq On : 5 Nov 2024 6:56 pm
Operator : Dakota:HNY
Sample : IL7,32,,ABNL1 Lot# 11116
Misc : WG1994500
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 06 09:21:32 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	4.286	152	29645	4.000 ug/ml	0.00
Standard Area 1 = 28960			Recovery = 102.37%		
37) IS1_Naphthalene-d8	5.520	136	107897	4.000 ug/ml	# 0.00
Standard Area 1 = 107558			Recovery = 100.32%		
65) IS1_Acenaphthene-d10	7.210	164	70461	4.000 ug/ml	0.00
Standard Area 1 = 69553			Recovery = 101.31%		
90) IS1_Phenanthrene-d10	8.621	188	156225	4.000 ug/ml	0.00
Standard Area 1 = 149813			Recovery = 104.28%		
106) IS1_Chrysene-d12	11.189	240	175608	4.000 ug/ml	0.00
Standard Area 1 = 173036			Recovery = 101.49%		
115) IS1_Perylene-d12	12.609	264	207118	4.000 ug/ml	0.00
Standard Area 1 = 203359			Recovery = 101.85%		
System Monitoring Compounds					
4) 2-Fluorophenol	2.999	112	7494	1.075 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 53.75%		
7) Phenol-d6	3.987	99	9495	1.059 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 52.95%		
19) Nitrobenzene-d5	4.833	82	8830	1.081 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 108.10%		
48) 2-Fluorobiphenyl	6.592	172	25387	0.921 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 92.10%		
81) 2,4,6-Tribromophenol	7.966	330	4669	1.016 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 50.80%		
98) 4-Terphenyl-d14	10.191	244	42632	1.012 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 101.20%		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	1.613	74	4871	1.026 ug/ml#	81
3) Pyridine	1.662	79	7733M1	1.040 ug/ml	
5) Aniline	3.969	93	11096	0.956 ug/ml	97
6) 2-Chlorophenol	4.081	128	8901	1.055 ug/ml#	89
8) Phenol	4.000	94	10249	0.977 ug/ml	92
9) Bis(2-chloroethyl)ether	4.062	93	7130	0.960 ug/ml	94
10) 1,3-Dichlorobenzene	4.227	146	11504	0.927 ug/ml	95
11) 1,4-Dichlorobenzene	4.301	146	11645	0.962 ug/ml	97
12) 1,2-Dichlorobenzene	4.447	146	11305	0.972 ug/ml	93
13) Benzyl alcohol	4.450	79	6639	1.014 ug/ml	98
14) Bis(2-chloroisopropyl)...	4.593	45	13142	0.869 ug/ml#	65

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL4.D
Acq On : 5 Nov 2024 6:56 pm
Operator : Dakota:HNY
Sample : IL7,32,,ABNL1 Lot# 11116
Misc : WG1994500
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 06 09:21:32 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	4.590	108	7654	1.036	ug/ml	98
16) Hexachloroethane	4.774	117	4414	1.004	ug/ml#	58
17) n-Nitrosodi-n-propylamine	4.721	70	6013	0.974	ug/ml#	84
18) 3-Methylphenol/4-Methy...	4.749	108	8547	1.091	ug/ml	99
20) Nitrobenzene	4.851	77	8609	0.995	ug/ml	97
21) Isophorone	5.097	82	15106	0.947	ug/ml	98
22) 2-Nitrophenol	5.168	139	4182	1.143	ug/ml#	84
23) 2,4-Dimethylphenol	5.255	107	7792	1.052	ug/ml	96
24) Bis(2-chloroethoxy)met...	5.339	93	9871	0.974	ug/ml#	94
25) 2,4-Dichlorophenol	5.408	162	8821	0.957	ug/ml#	92
26) 1,2,4-Trichlorobenzene	5.479	180	11026	0.907	ug/ml	97
38) Naphthalene	5.538	128	28272	0.977	ug/ml	99
39) Benzoic Acid	5.321	105	4647	2.316	ug/ml	95
40) 4-Chloroaniline	5.622	65	3160	0.836	ug/ml#	69
41) Hexachlorobutadiene	5.697	225	6855	0.910	ug/ml	99
42) p-Chloro-m-cresol	6.126	107	7198	0.958	ug/ml	89
43) 2-Methylnaphthalene	6.216	142	19005	0.932	ug/ml	94
44) 1-Methylnaphthalene	6.309	115	6294	0.945	ug/ml	92
45) Hexachlorocyclopentadiene	6.390	237	7064	0.976	ug/ml	95
46) 2,4,6-Trichlorophenol	6.508	196	7192	0.901	ug/ml	99
47) 2,4,5-Trichlorophenol	6.539	196	8343	0.951	ug/ml	94
49) 2-Chloronaphthalene	6.679	162	21923	0.919	ug/ml	93
50) 2-Nitroaniline	6.797	138	5587	1.030	ug/ml#	74
51) 1,4-Dinitrobenzene	6.928	168	2433	0.899	ug/ml	87
52) 1,3-Dinitrobenzene	7.005	168	2825	0.878	ug/ml#	1
53) Dimethyl phthalate	7.002	163	25243	0.890	ug/ml#	98
54) Acenaphthylene	7.067	152	32446	0.935	ug/ml	100
55) 2,6-Dinitrotoluene	7.039	165	4692	0.982	ug/ml#	77
56) 1,2-Dinitrobenzene	7.080	168	1810	0.967	ug/ml#	1
66) 3-Nitroaniline	7.192	138	5066	1.077	ug/ml#	88
67) Acenaphthene	7.238	154	19239	0.983	ug/ml	85
68) 2,4-Dinitrophenol	7.291	184	2292	0.751	ug/ml#	84
69) Dibenzofuran	7.409	168	34238	1.011	ug/ml	90
70) 2,4-Dinitrotoluene	7.422	165	6155	0.948	ug/ml#	88
71) 4-Nitrophenol	7.394	65	3892	1.044	ug/ml#	1
72) 2,3,5,6-Tetrachlorophenol	7.503	232	7152	1.043	ug/ml	99
73) 2,3,4,6-Tetrachlorophenol	7.546	232	7236	1.073	ug/ml	98
74) Diethyl phthalate	7.689	149	25683	0.965	ug/ml	97
75) Fluorene	7.736	166	26341	0.992	ug/ml	94
76) 4-Chlorophenyl phenyl ...	7.764	204	13510	0.986	ug/ml#	86

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL4.D
Acq On : 5 Nov 2024 6:56 pm
Operator : Dakota:HNY
Sample : IL7,32,,ABNL1 Lot# 11116
Misc : WG1994500
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 06 09:21:32 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77)	4-Nitroaniline	7.770	138	5206	0.997	ug/ml	81
78)	4,6-Dinitro-o-cresol	7.807	198	3785	1.190	ug/ml#	56
79)	NDPA/DPA	7.879	169	22405	0.978	ug/ml	95
80)	Azobenzene	7.910	77	21474	1.007	ug/ml	98
82)	4-Bromophenyl phenyl e...	8.227	248	8392	0.962	ug/ml#	80
83)	Hexachlorobenzene	8.267	284	10855	0.984	ug/ml#	81
84)	Pentachlorophenol	8.463	266	5643	0.941	ug/ml	96
91)	Phenanthrene	8.643	178	44283	1.000	ug/ml	99
92)	Anthracene	8.693	178	42879	0.980	ug/ml	99
93)	Carbazole	8.867	167	39554	0.957	ug/ml	98
94)	Di-n-butylphthalate	9.271	149	43140	0.947	ug/ml	98
95)	Fluoranthene	9.781	202	52758	0.963	ug/ml#	92
96)	Benzidine	9.946	184	27185	0.870	ug/ml#	94
97)	Pyrene	9.989	202	57764	0.991	ug/ml	99
99)	Butyl benzyl phthalate	10.707	149	17465	0.898	ug/ml#	80
107)	Benzo(a)anthracene	11.183	228	56317	0.972	ug/ml	99
108)	3,3'-Dichlorobenzidine	11.192	252	20507	0.965	ug/ml#	97
109)	Chrysene	11.217	228	56651	1.014	ug/ml	98
110)	Bis(2-ethylhexyl)phtha...	11.335	149	27758	0.903	ug/ml#	89
111)	Di-n-octylphthalate	11.994	149	44645	0.883	ug/ml#	71
112)	Benzo(b)fluoranthene	12.252	252	60227	1.014	ug/ml#	93
113)	Benzo(k)fluoranthene	12.277	252	57698	0.985	ug/ml#	93
114)	Benzo(a)pyrene	12.553	252	52945	0.977	ug/ml#	92
116)	Indeno(1,2,3-cd)pyrene	13.542	276	56228	0.887	ug/mL#	89
117)	Dibenzo(a,h)anthracene	13.566	278	59013	0.948	ug/ml#	90
118)	Benzo(ghi)perylene	13.750	276	56806	0.943	ug/ml#	87

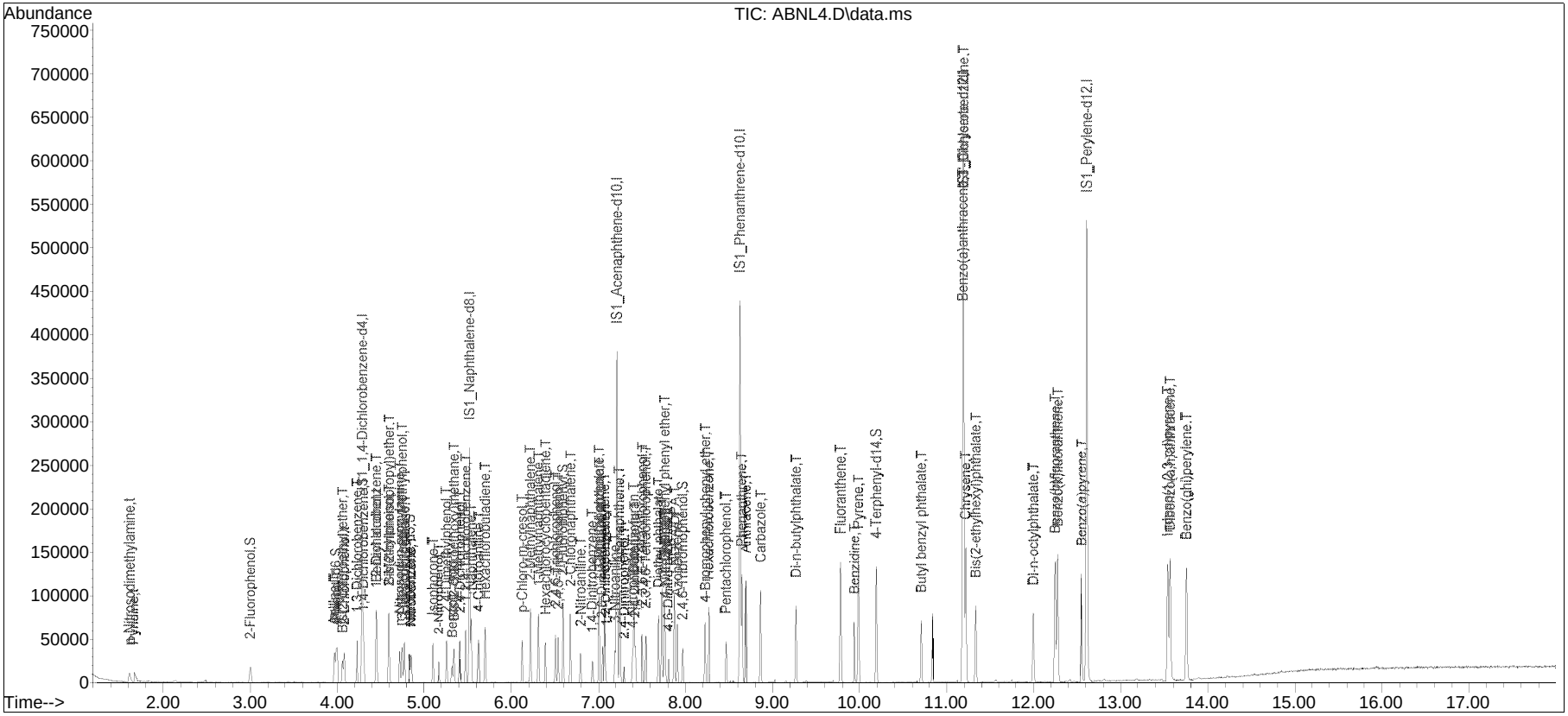
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL4.D
Acq On : 5 Nov 2024 6:56 pm
Operator : Dakota:HNY
Sample : IL7,32,,ABNL1 Lot# 11116
Misc : WG1994500
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 06 09:21:32 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

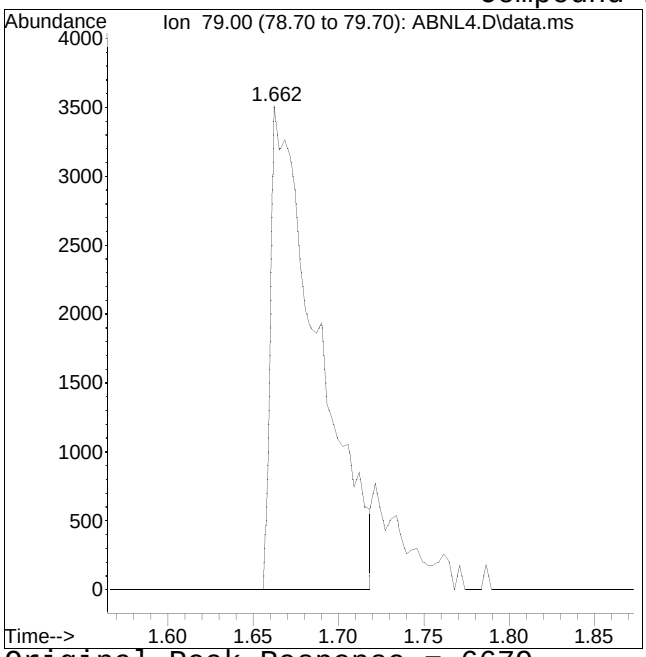
Sub List : ABNical - ABN ical sublistVTICAL\ABNL6.D•

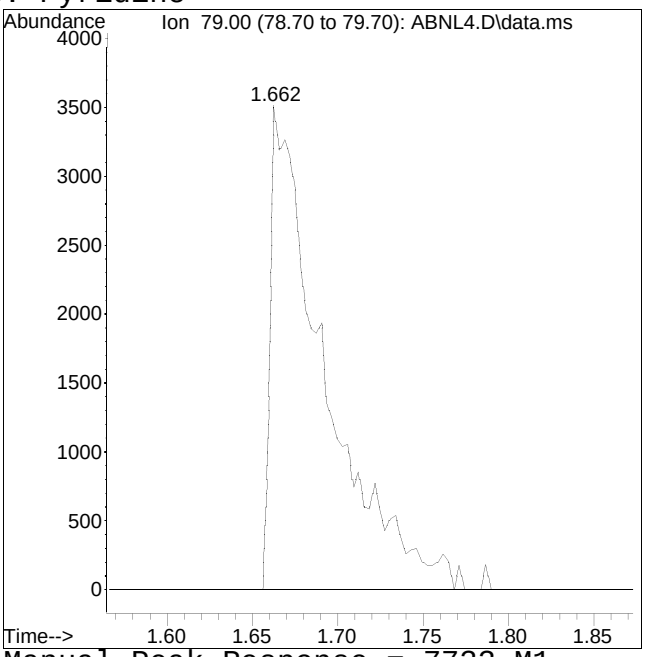


Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQ
Data File : ABNL4.D
Date Inj'd : 11/5/2024 6:56 pm
Sample : IL7,32,,ABNL1 Lot# 11116
Method : FS241105RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 11/6/2024 8:35 am

Compound #3: Pyridine





Original Peak Response = 6679 Manual Peak Response = 7733 M1

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL3.D
Acq On : 5 Nov 2024 7:19 pm
Operator : Dakota:HNY
Sample : IL8,32,,ABNL0.5 Lot# 11117
Misc : WG1994500
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 06 09:19:46 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	4.283	152	29418	4.000 ug/ml	0.00
Standard Area 1 = 28960			Recovery =	101.58%	
37) IS1_Naphthalene-d8	5.520	136	107040	4.000 ug/ml	# 0.00
Standard Area 1 = 107558			Recovery =	99.52%	
65) IS1_Acenaphthene-d10	7.210	164	69588	4.000 ug/ml	0.00
Standard Area 1 = 69553			Recovery =	100.05%	
90) IS1_Phenanthrene-d10	8.625	188	154469	4.000 ug/ml	0.00
Standard Area 1 = 149813			Recovery =	103.11%	
106) IS1_Chrysene-d12	11.189	240	171586	4.000 ug/ml	0.00
Standard Area 1 = 173036			Recovery =	99.16%	
115) IS1_Perylene-d12	12.609	264	198191	4.000 ug/ml	0.00
Standard Area 1 = 203359			Recovery =	97.46%	
System Monitoring Compounds					
4) 2-Fluorophenol	2.999	112	4114	0.594 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	29.70%	
7) Phenol-d6	3.984	99	5099	0.573 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	28.65%	
19) Nitrobenzene-d5	4.833	82	4322	0.533 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	53.30%	
48) 2-Fluorobiphenyl	6.592	172	14074	0.515 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	51.50%	
81) 2,4,6-Tribromophenol	7.969	330	2419	0.533 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	26.65%	
98) 4-Terphenyl-d14	10.191	244	23205	0.557 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	55.70%	
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	1.616	74	2320	0.493 ug/ml#	84
3) Pyridine	1.678	79	3401	0.461 ug/ml#	52
5) Aniline	3.969	93	6141	0.533 ug/ml#	95
6) 2-Chlorophenol	4.081	128	4589	0.548 ug/ml	91
8) Phenol	3.997	94	5365	0.516 ug/ml	98
9) Bis(2-chloroethyl)ether	4.062	93	3944	0.535 ug/ml#	73
10) 1,3-Dichlorobenzene	4.224	146	6253	0.508 ug/ml	94
11) 1,4-Dichlorobenzene	4.301	146	5896	0.491 ug/ml	96
12) 1,2-Dichlorobenzene	4.447	146	6085	0.527 ug/ml	93
13) Benzyl alcohol	4.450	79	3277	0.504 ug/ml	92
14) Bis(2-chloroisopropyl)...	4.596	45	6779	0.452 ug/ml#	57

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL3.D
Acq On : 5 Nov 2024 7:19 pm
Operator : Dakota:HNY
Sample : IL8,32,,ABNL0.5 Lot# 11117
Misc : WG1994500
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 06 09:19:46 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	4.590	108	4182	0.571	ug/ml	98
16) Hexachloroethane	4.774	117	2279	0.522	ug/ml#	55
17) n-Nitrosodi-n-propylamine	4.724	70	3148	0.514	ug/ml#	83
18) 3-Methylphenol/4-Methy...	4.749	108	4315	0.555	ug/ml#	96
20) Nitrobenzene	4.851	77	4733	0.551	ug/ml	92
21) Isophorone	5.097	82	8339	0.527	ug/ml#	94
22) 2-Nitrophenol	5.168	139	2238	0.617	ug/ml#	83
23) 2,4-Dimethylphenol	5.255	107	3990	0.543	ug/ml	97
24) Bis(2-chloroethoxy)met...	5.342	93	5699	0.567	ug/ml#	88
25) 2,4-Dichlorophenol	5.408	162	4928	0.539	ug/ml#	90
26) 1,2,4-Trichlorobenzene	5.479	180	5828	0.483	ug/ml#	93
38) Naphthalene	5.538	128	15620	0.544	ug/ml	99
39) Benzoic Acid	5.314	105	2055	1.933	ug/ml	93
40) 4-Chloroaniline	5.619	65	1649	0.440	ug/ml#	73
41) Hexachlorobutadiene	5.697	225	3809	0.510	ug/ml	97
42) p-Chloro-m-cresol	6.126	107	4123	0.553	ug/ml	94
43) 2-Methylnaphthalene	6.216	142	10794	0.533	ug/ml	96
44) 1-Methylnaphthalene	6.309	115	3402	0.515	ug/ml	90
45) Hexachlorocyclopentadiene	6.390	237	3753	0.523	ug/ml#	92
46) 2,4,6-Trichlorophenol	6.508	196	3730	0.471	ug/ml	96
47) 2,4,5-Trichlorophenol	6.536	196	4171	0.479	ug/ml	94
49) 2-Chloronaphthalene	6.676	162	11828	0.500	ug/ml#	92
50) 2-Nitroaniline	6.797	138	2840	0.528	ug/ml#	79
51) 1,4-Dinitrobenzene	6.928	168	1198	0.446	ug/ml	98
52) 1,3-Dinitrobenzene	7.002	168	1608	0.504	ug/ml#	1
53) Dimethyl phthalate	7.002	163	13663	0.485	ug/ml#	93
54) Acenaphthylene	7.067	152	17423	0.506	ug/ml	99
55) 2,6-Dinitrotoluene	7.043	165	2472	0.522	ug/ml#	72
56) 1,2-Dinitrobenzene	7.077	168	869	0.468	ug/ml#	1
66) 3-Nitroaniline	7.192	138	2555	0.550	ug/ml#	87
67) Acenaphthene	7.238	154	10391	0.538	ug/ml	86
68) 2,4-Dinitrophenol	7.294	184	1122	0.372	ug/ml#	60
69) Dibenzofuran	7.409	168	18140	0.543	ug/ml	90
70) 2,4-Dinitrotoluene	7.422	165	3188	0.497	ug/ml#	87
71) 4-Nitrophenol	7.397	65	1815	0.493	ug/ml#	1
72) 2,3,5,6-Tetrachlorophenol	7.503	232	3995	0.590	ug/ml	95
73) 2,3,4,6-Tetrachlorophenol	7.546	232	3636	0.546	ug/ml	95
74) Diethyl phthalate	7.686	149	14100	0.537	ug/ml	97
75) Fluorene	7.736	166	13902	0.530	ug/ml	92
76) 4-Chlorophenyl phenyl ...	7.764	204	7123	0.526	ug/ml#	84

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL3.D
Acq On : 5 Nov 2024 7:19 pm
Operator : Dakota:HNY
Sample : IL8,32,,ABNL0.5 Lot# 11117
Misc : WG1994500
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 06 09:19:46 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77)	4-Nitroaniline	7.770	138	2602	0.505	ug/ml	82
78)	4,6-Dinitro-o-cresol	7.807	198	1926	0.800	ug/ml#	53
79)	NDPA/DPA	7.879	169	12162	0.537	ug/ml	95
80)	Azobenzene	7.910	77	11871	0.563	ug/ml	97
82)	4-Bromophenyl phenyl e...	8.227	248	4868	0.565	ug/ml#	77
83)	Hexachlorobenzene	8.270	284	5936	0.545	ug/ml#	81
84)	Pentachlorophenol	8.463	266	2717	0.459	ug/ml	95
91)	Phenanthrene	8.643	178	23436	0.535	ug/ml	96
92)	Anthracene	8.693	178	22990	0.531	ug/ml	98
93)	Carbazole	8.867	167	21414	0.524	ug/ml	99
94)	Di-n-butylphthalate	9.271	149	23305	0.517	ug/ml#	98
95)	Fluoranthene	9.781	202	28196	0.521	ug/ml#	91
96)	Benzidine	9.946	184	13470	0.436	ug/ml#	94
97)	Pyrene	9.989	202	30155	0.523	ug/ml	98
99)	Butyl benzyl phthalate	10.707	149	9250	0.481	ug/ml#	83
107)	Benzo(a)anthracene	11.183	228	30189	0.533	ug/ml	99
108)	3,3'-Dichlorobenzidine	11.192	252	10487	0.505	ug/ml#	97
109)	Chrysene	11.217	228	31185	0.571	ug/ml	99
110)	Bis(2-ethylhexyl)phtha...	11.335	149	14256	0.474	ug/ml#	89
111)	Di-n-octylphthalate	11.991	149	22394	0.453	ug/ml#	74
112)	Benzo(b)fluoranthene	12.252	252	31504	0.543	ug/ml#	93
113)	Benzo(k)fluoranthene	12.277	252	30567	0.534	ug/ml#	93
114)	Benzo(a)pyrene	12.553	252	26723	0.505	ug/ml#	92
116)	Indeno(1,2,3-cd)pyrene	13.542	276	29560	0.488	ug/mL#	88
117)	Dibenzo(a,h)anthracene	13.567	278	30045	0.505	ug/ml#	89
118)	Benzo(ghi)perylene	13.750	276	30478	0.529	ug/ml#	84

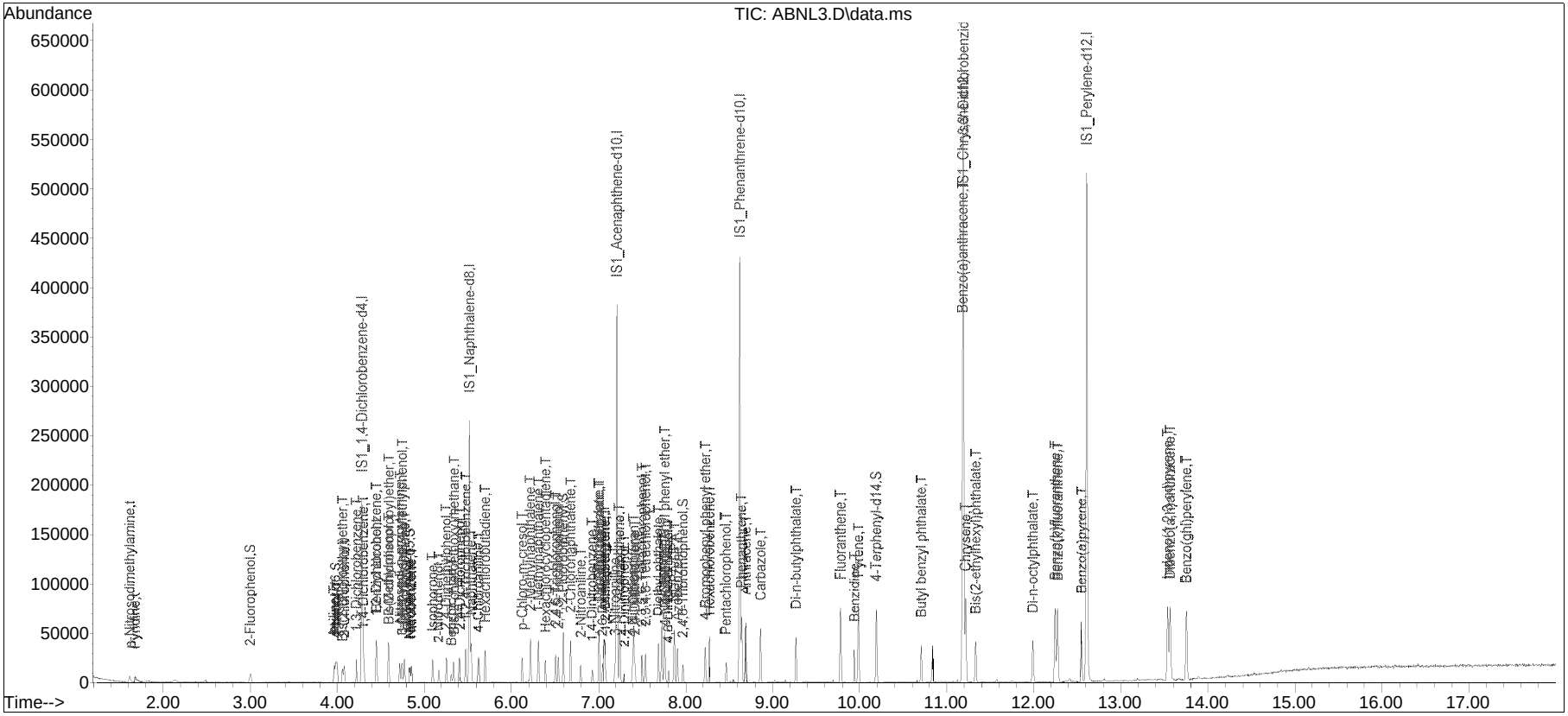
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL3.D
Acq On : 5 Nov 2024 7:19 pm
Operator : Dakota:HNY
Sample : IL8,32,,ABNL0.5 Lot# 11117
Misc : WG1994500
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 06 09:19:46 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistVTICAL\ABNL6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\241105RVTICQ	Method	: FS241105RVT_Dakota.m
Data File	: ABNL3.D	Operator	: Dakota:HNY
Date Inj'd	: 11/5/2024 7:19 pm	Instrument	: Dakota
Sample	: IL8,32,,ABNL0.5 Lot# 11117	Quant Date	: 11/6/2024 8:35 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL2.D
Acq On : 5 Nov 2024 7:42 pm
Operator : Dakota:HNY
Sample : IL9,32,,ABNL0.2 Lot# 11149
Misc : WG1994500
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 06 09:19:20 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.283	152	26744	4.000	ug/ml	0.00
Standard Area 1 = 28960			Recovery = 92.35%			
37) IS1_Naphthalene-d8	5.520	136	97597	4.000	ug/ml	0.00
Standard Area 1 = 107558			Recovery = 90.74%			
65) IS1_Acenaphthene-d10	7.210	164	61798	4.000	ug/ml	0.00
Standard Area 1 = 69553			Recovery = 88.85%			
90) IS1_Phenanthrene-d10	8.621	188	140419	4.000	ug/ml	0.00
Standard Area 1 = 149813			Recovery = 93.73%			
106) IS1_Chrysene-d12	11.189	240	157363	4.000	ug/ml	0.00
Standard Area 1 = 173036			Recovery = 90.94%			
115) IS1_Perylene-d12	12.609	264	178706	4.000	ug/ml	0.00
Standard Area 1 = 203359			Recovery = 87.88%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.002	112	1343	0.213	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 10.65%#			
7) Phenol-d6	3.984	99	1724	0.213	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 10.65%#			
19) Nitrobenzene-d5	4.836	82	1535	0.208	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 20.80%#			
48) 2-Fluorobiphenyl	6.592	172	4771	0.191	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 19.10%#			
81) 2,4,6-Tribromophenol	7.969	330	885	0.220	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 11.00%#			
98) 4-Terphenyl-d14	10.188	244	7997	0.211	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 21.10%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.619	74	731	0.171	ug/ml#	88
3) Pyridine	1.703	79	992	0.148	ug/ml#	1
5) Aniline	3.972	93	1909	0.182	ug/ml#	77
6) 2-Chlorophenol	4.077	128	1411	0.185	ug/ml#	71
8) Phenol	4.000	94	1770	0.187	ug/ml#	73
9) Bis(2-chloroethyl)ether	4.062	93	1212	0.181	ug/ml#	73
10) 1,3-Dichlorobenzene	4.227	146	1946M3	0.174	ug/ml	
11) 1,4-Dichlorobenzene	4.301	146	2074	0.190	ug/ml	93
12) 1,2-Dichlorobenzene	4.450	146	2094	0.200	ug/ml	92
13) Benzyl alcohol	4.453	79	1147	0.194	ug/ml	97
14) Bis(2-chloroisopropyl)...	4.593	45	2334	0.171	ug/ml#	51

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL2.D
Acq On : 5 Nov 2024 7:42 pm
Operator : Dakota:HNY
Sample : IL9,32,,ABNL0.2 Lot# 11149
Misc : WG1994500
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 06 09:19:20 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	4.590	108	1387	0.208	ug/ml#	89
16) Hexachloroethane	4.774	117	675	0.170	ug/ml#	46
17) n-Nitrosodi-n-propylamine	4.724	70	1115	0.200	ug/ml#	59
18) 3-Methylphenol/4-Methy...	4.749	108	1604	0.227	ug/ml#	96
20) Nitrobenzene	4.854	77	1500	0.192	ug/ml#	85
21) Isophorone	5.100	82	2890	0.201	ug/ml#	65
22) 2-Nitrophenol	5.165	139	785	0.238	ug/ml#	31
23) 2,4-Dimethylphenol	5.255	107	1345	0.201	ug/ml	93
24) Bis(2-chloroethoxy)met...	5.339	93	1764	0.193	ug/ml#	89
25) 2,4-Dichlorophenol	5.408	162	1570	0.189	ug/ml#	75
26) 1,2,4-Trichlorobenzene	5.479	180	2035	0.186	ug/ml	88
38) Naphthalene	5.538	128	5444	0.208	ug/ml	99
39) Benzoic Acid	5.311	105	305M2	1.675	ug/ml	
40) 4-Chloroaniline	5.622	65	556	0.163	ug/ml#	56
41) Hexachlorobutadiene	5.697	225	1142	0.168	ug/ml	96
42) p-Chloro-m-cresol	6.126	107	1357	0.200	ug/ml#	82
43) 2-Methylnaphthalene	6.219	142	3600	0.195	ug/ml	95
44) 1-Methylnaphthalene	6.306	115	1113M3	0.185	ug/ml	
45) Hexachlorocyclopentadiene	6.390	237	1098	0.168	ug/ml#	87
46) 2,4,6-Trichlorophenol	6.508	196	1360	0.188	ug/ml#	83
47) 2,4,5-Trichlorophenol	6.539	196	1464	0.185	ug/ml#	83
49) 2-Chloronaphthalene	6.679	162	4378	0.203	ug/ml#	91
50) 2-Nitroaniline	6.794	138	967	0.197	ug/ml#	44
51) 1,4-Dinitrobenzene	6.928	168	309M2	0.126	ug/ml	
52) 1,3-Dinitrobenzene	7.005	168	453M2	0.156	ug/ml	
53) Dimethyl phthalate	7.002	163	4834	0.188	ug/ml#	77
54) Acenaphthylene	7.067	152	5876	0.187	ug/ml	100
55) 2,6-Dinitrotoluene	7.043	165	768	0.178	ug/ml#	50
56) 1,2-Dinitrobenzene	7.083	168	212M2	0.125	ug/ml	
66) 3-Nitroaniline	7.192	138	892	0.216	ug/ml#	67
67) Acenaphthene	7.238	154	3717	0.217	ug/ml	91
68) 2,4-Dinitrophenol	7.291	184	291M2	0.109	ug/ml	
69) Dibenzofuran	7.409	168	6564	0.221	ug/ml	96
70) 2,4-Dinitrotoluene	7.422	165	1006	0.177	ug/ml#	60
71) 4-Nitrophenol	7.394	65	638	0.195	ug/ml#	1
72) 2,3,5,6-Tetrachlorophenol	7.506	232	1294	0.215	ug/ml	87
73) 2,3,4,6-Tetrachlorophenol	7.546	232	1161	0.196	ug/ml	92
74) Diethyl phthalate	7.686	149	4946	0.212	ug/ml	96
75) Fluorene	7.736	166	4961	0.213	ug/ml	87
76) 4-Chlorophenyl phenyl ...	7.761	204	2543	0.212	ug/ml#	79

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL2.D
Acq On : 5 Nov 2024 7:42 pm
Operator : Dakota:HNY
Sample : IL9,32,,ABNL0.2 Lot# 11149
Misc : WG1994500
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 06 09:19:20 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77)	4-Nitroaniline	7.770	138	798	0.174	ug/ml#	80
78)	4,6-Dinitro-o-cresol	7.810	198	460M2	0.497	ug/ml	
79)	NDPA/DPA	7.879	169	4188	0.208	ug/ml	88
80)	Azobenzene	7.910	77	4014	0.215	ug/ml#	95
82)	4-Bromophenyl phenyl e...	8.227	248	1681	0.220	ug/ml#	82
83)	Hexachlorobenzene	8.267	284	2219	0.229	ug/ml#	76
84)	Pentachlorophenol	8.466	266	864	0.164	ug/ml	98
91)	Phenanthrene	8.643	178	8748	0.220	ug/ml	98
92)	Anthracene	8.690	178	8056	0.205	ug/ml	99
93)	Carbazole	8.864	167	7288	0.196	ug/ml	99
94)	Di-n-butylphthalate	9.271	149	7684	0.188	ug/ml#	93
95)	Fluoranthene	9.781	202	10128	0.206	ug/ml#	92
96)	Benzidine	9.945	184	4612	0.164	ug/ml#	86
97)	Pyrene	9.989	202	10851	0.207	ug/ml	99
99)	Butyl benzyl phthalate	10.707	149	2914	0.167	ug/ml#	82
107)	Benzo(a)anthracene	11.179	228	10880	0.210	ug/ml	98
108)	3,3'-Dichlorobenzidine	11.192	252	3454	0.181	ug/ml	98
109)	Chrysene	11.217	228	10803	0.216	ug/ml	96
110)	Bis(2-ethylhexyl)phtha...	11.335	149	4698	0.170	ug/ml#	85
111)	Di-n-octylphthalate	11.994	149	8032	0.177	ug/ml#	73
112)	Benzo(b)fluoranthene	12.252	252	11034	0.207	ug/ml#	93
113)	Benzo(k)fluoranthene	12.277	252	9946	0.189	ug/ml#	94
114)	Benzo(a)pyrene	12.553	252	9411	0.194	ug/ml#	91
116)	Indeno(1,2,3-cd)pyrene	13.538	276	10109	0.185	ug/mL#	89
117)	Dibenzo(a,h)anthracene	13.566	278	10097	0.188	ug/ml#	90
118)	Benzo(ghi)perylene	13.747	276	10475	0.201	ug/ml#	84

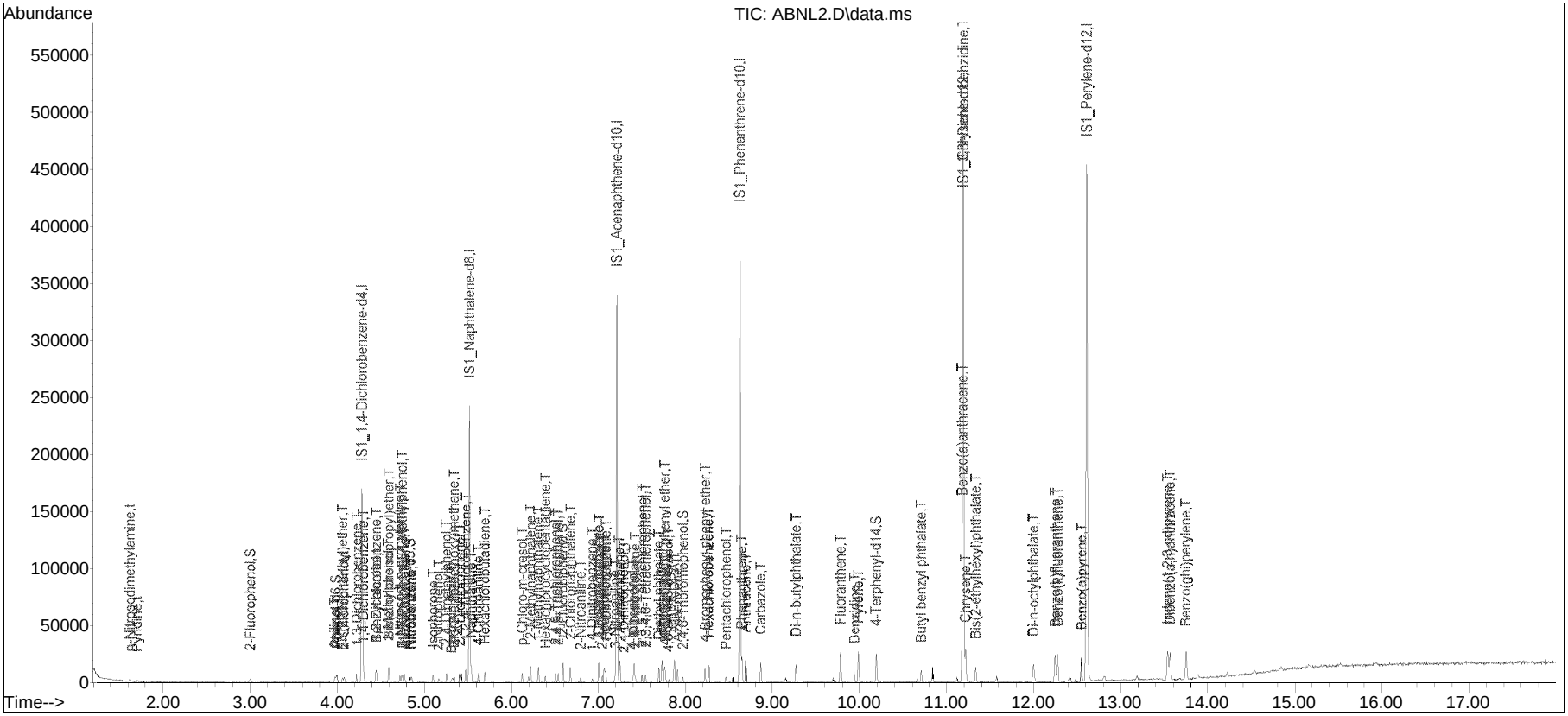
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL2.D
Acq On : 5 Nov 2024 7:42 pm
Operator : Dakota:HNY
Sample : IL9,32,,ABNL0.2 Lot# 11149
Misc : WG1994500
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 06 09:19:20 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

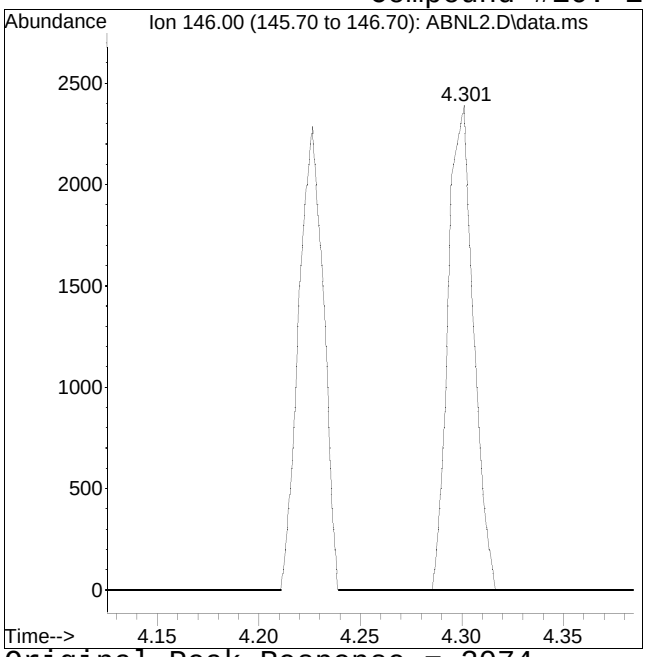
Sub List : ABNical - ABN ical sublistVTICAL\ABNL6.D•

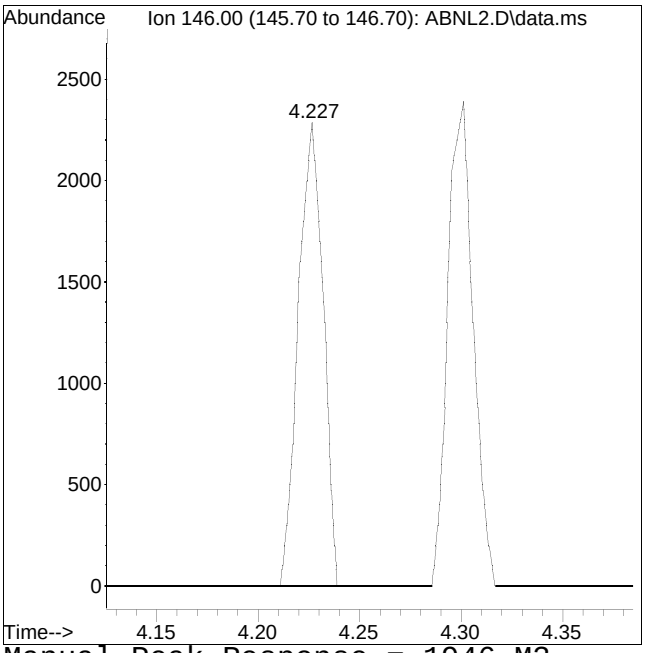


Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQ
Data File : ABNL2.D
Date Inj'd : 11/5/2024 7:42 pm
Sample : IL9,32,,ABNL0.2 Lot# 11149
Method : FS241105RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 11/6/2024 8:35 am

Compound #10: 1,3-Dichlorobenzene





Original Peak Response = 2074 Manual Peak Response = 1946 M3

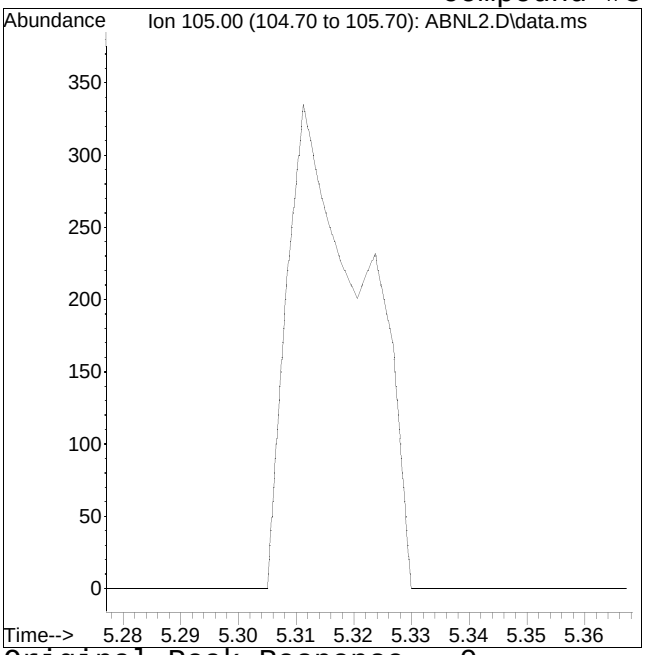
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

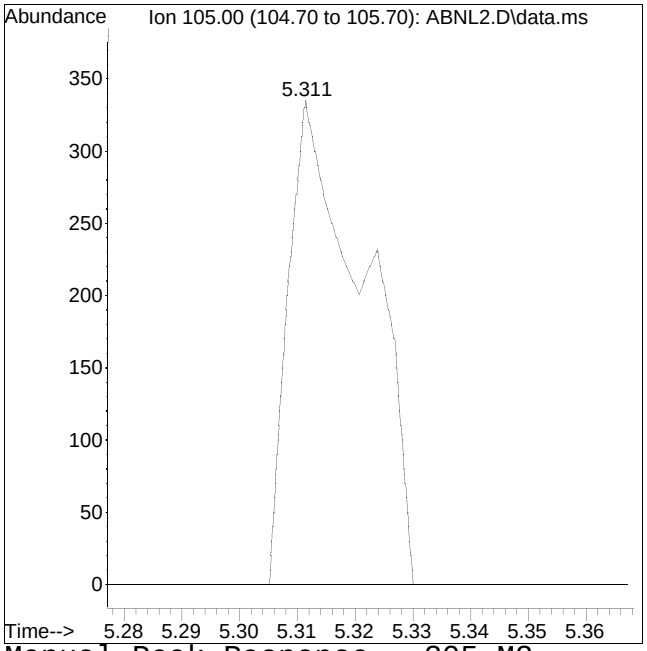
Data Path : I:\8270\Dakota\241105RVTICQ
Data File : ABNL2.D
Date Inj'd : 11/5/2024 7:42 pm
Sample : IL9,32,,ABNL0.2 Lot# 11149

Method : FS241105RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 11/6/2024 8:35 am

Compound #39: Benzoic Acid



Original Peak Response = 0



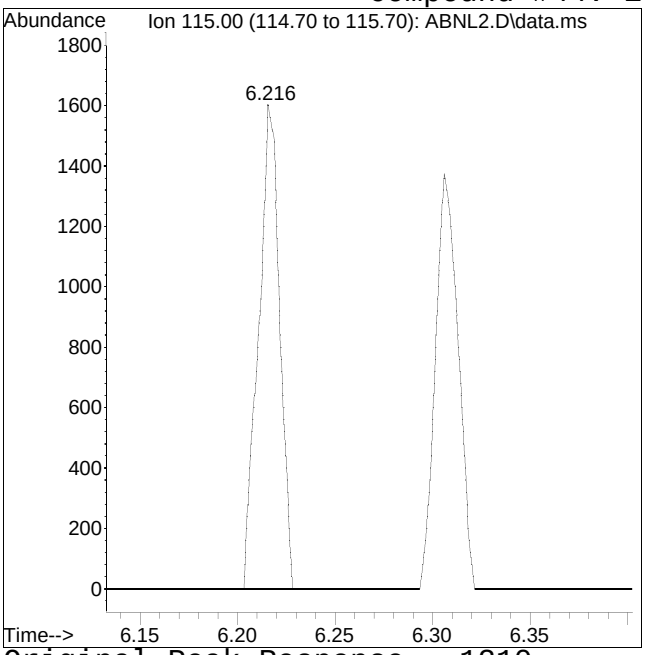
Manual Peak Response = 305 M2

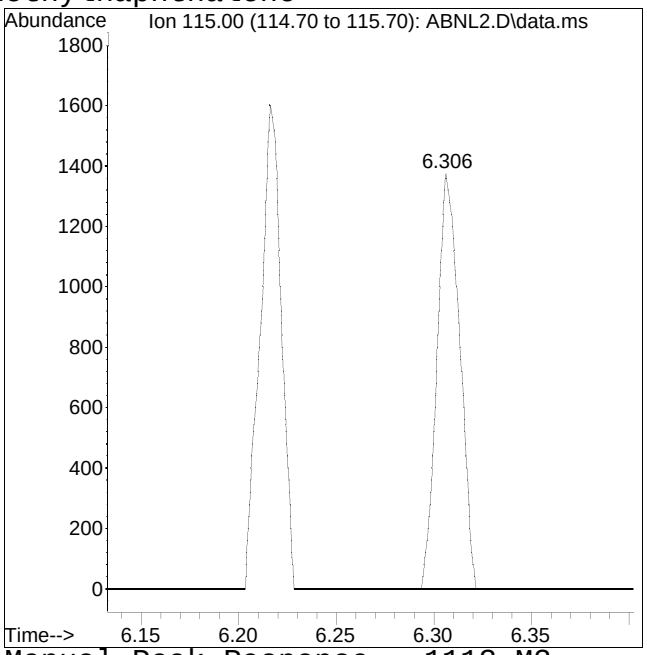
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQ
Data File : ABNL2.D
Date Inj'd : 11/5/2024 7:42 pm
Sample : IL9,32,,ABNL0.2 Lot# 11149
Method : FS241105RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 11/6/2024 8:35 am

Compound #44: 1-Methylnaphthalene





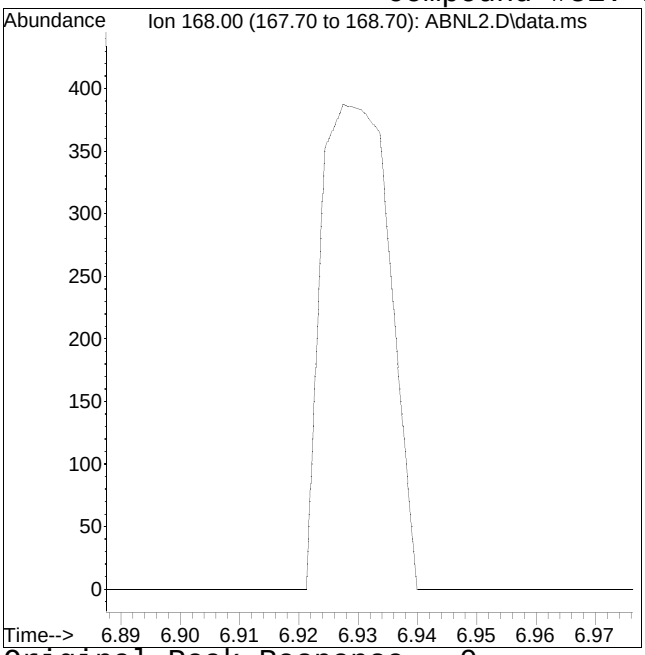
Original Peak Response = 1210 Manual Peak Response = 1113 M3

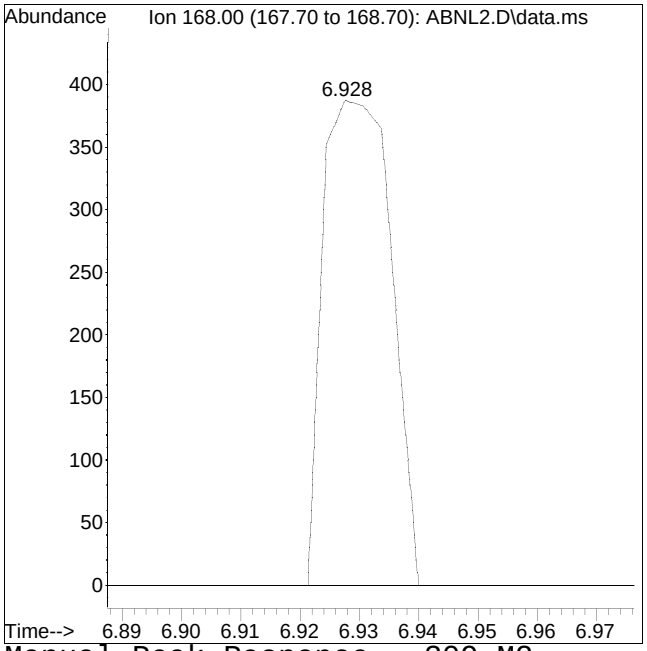
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQMethod : FS241105RVT_Dakota.m
Data File : ABNL2.D Operator : Dakota:HNY
Date Inj'd : 11/5/2024 7:42 pm Instrument : Dakota
Sample : IL9,32,,ABNL0.2 Lot# 11149Quant Date : 11/6/2024 8:35 am

Compound #51: 1,4-Dinitrobenzene



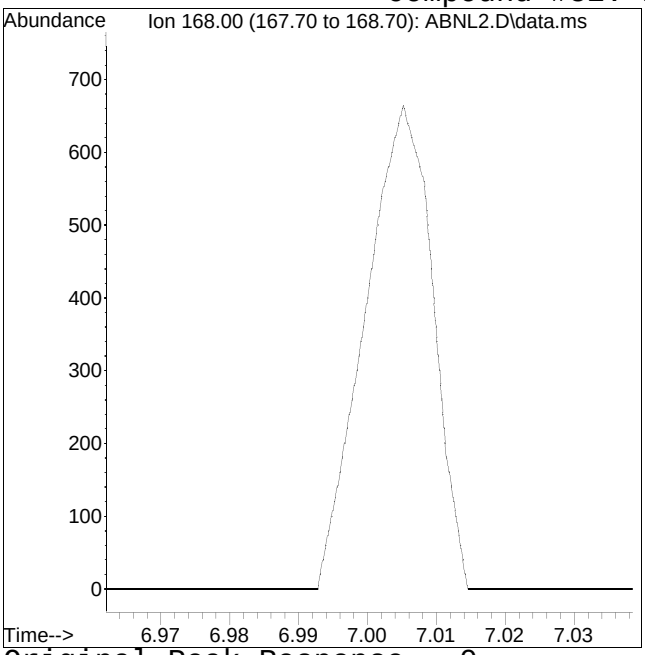


Original Peak Response = 0 Manual Peak Response = 309 M2
M2 = Peak not found by automatic integration algorithm.

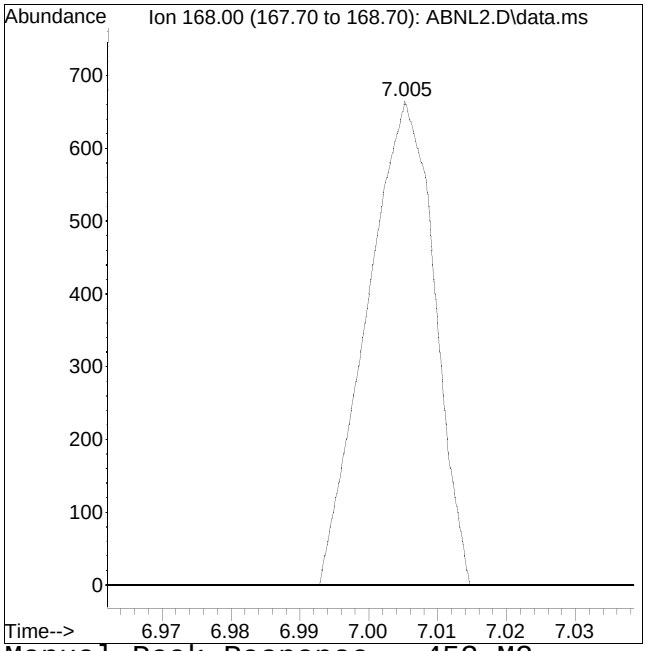
Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQMethod : FS241105RVT_Dakota.m
Data File : ABNL2.D Operator : Dakota:HNY
Date Inj'd : 11/5/2024 7:42 pm Instrument : Dakota
Sample : IL9,32,,ABNL0.2 Lot# 11149Quant Date : 11/6/2024 8:35 am

Compound #52: 1,3-Dinitrobenzene



Original Peak Response = 0



Manual Peak Response = 453 M2

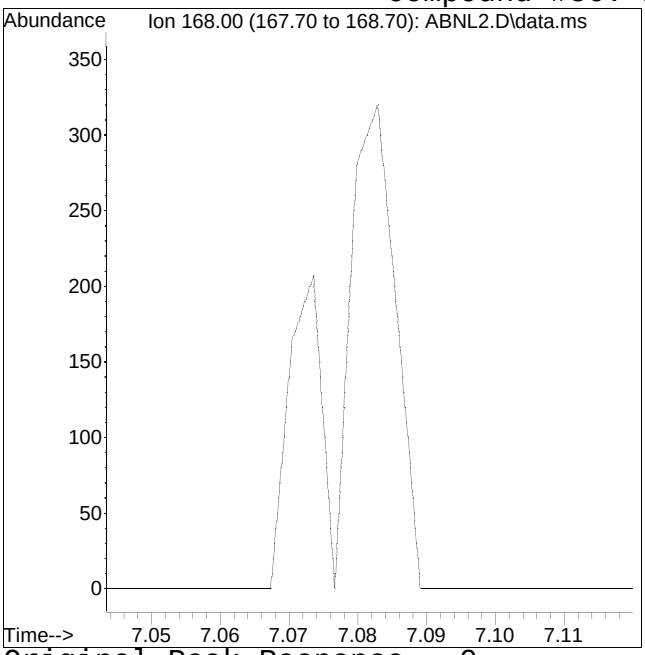
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

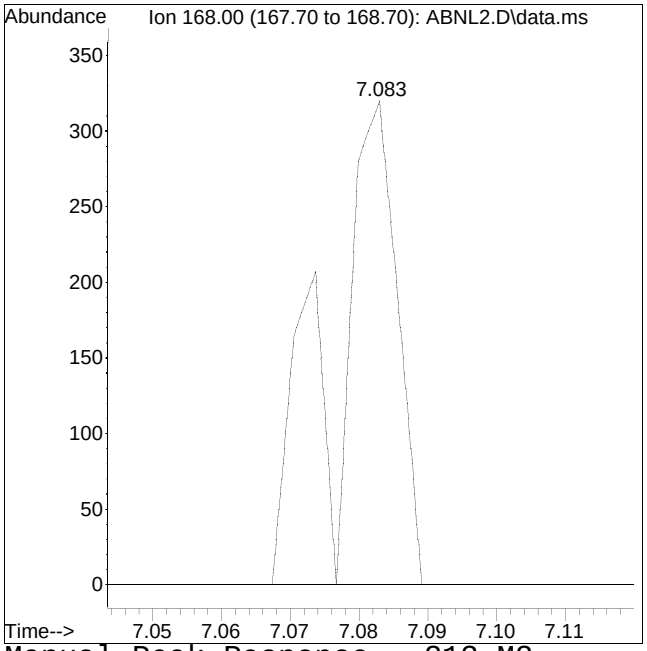
Data Path : I:\8270\Dakota\241105RVTICQ
Data File : ABNL2.D
Date Inj'd : 11/5/2024 7:42 pm
Sample : IL9,32,,ABNL0.2 Lot# 11149

Method : FS241105RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 11/6/2024 8:35 am

Compound #56: 1,2-Dinitrobenzene



Original Peak Response = 0



Manual Peak Response = 212 M2

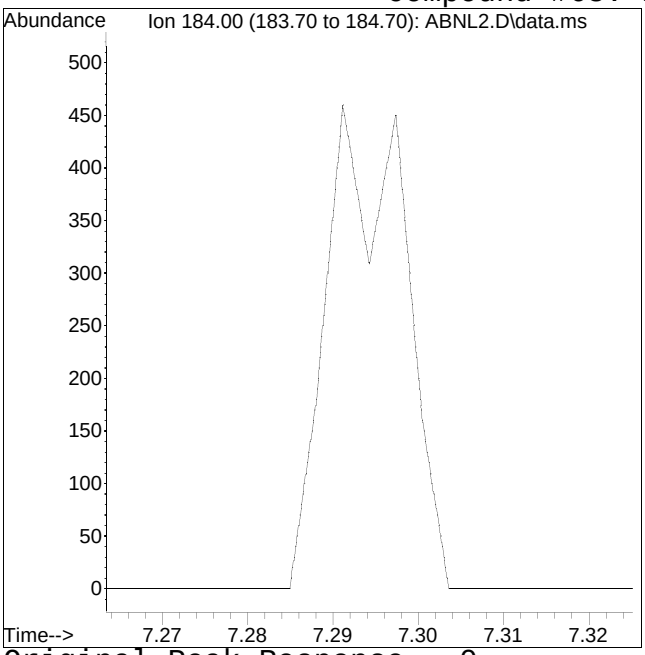
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

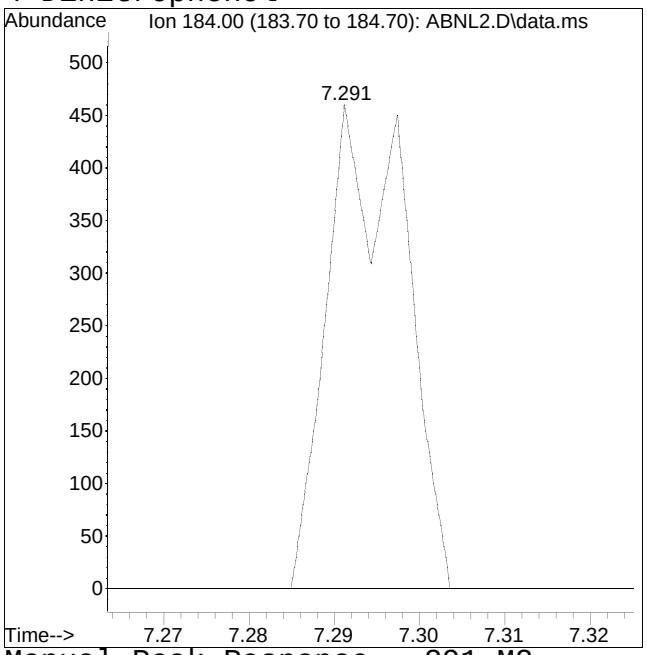
Data Path : I:\8270\Dakota\241105RVTICQ
Data File : ABNL2.D
Date Inj'd : 11/5/2024 7:42 pm
Sample : IL9,32,,ABNL0.2 Lot# 11149

Method : FS241105RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 11/6/2024 8:35 am

Compound #68: 2,4-Dinitrophenol



Original Peak Response = 0



Manual Peak Response = 291 M2

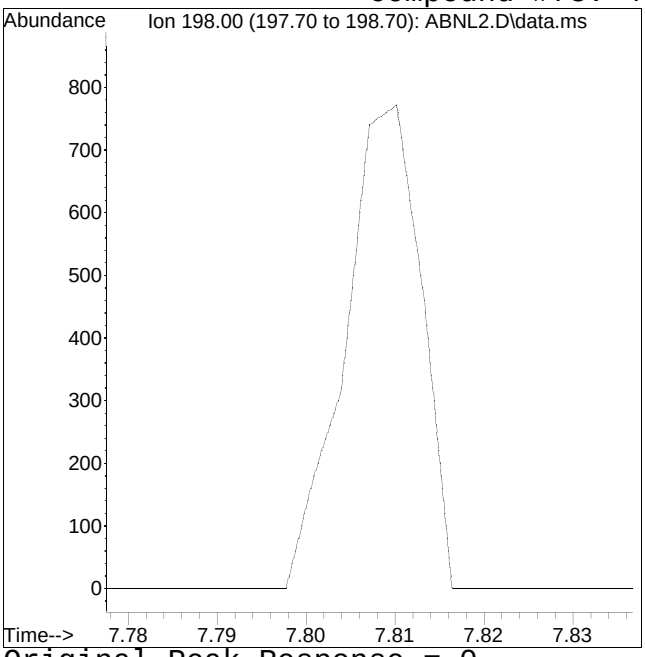
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

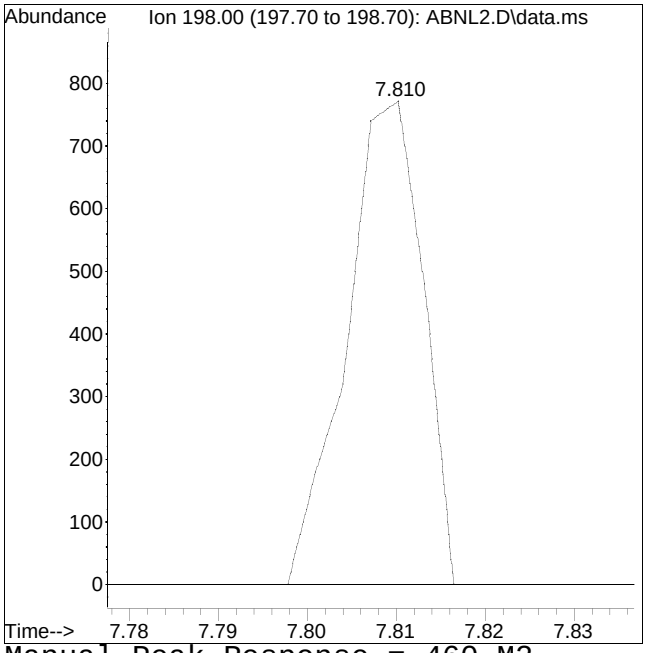
Data Path : I:\8270\Dakota\241105RVTICQ
Data File : ABNL2.D
Date Inj'd : 11/5/2024 7:42 pm
Sample : IL9,32,,ABNL0.2 Lot# 11149

Method : FS241105RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 11/6/2024 8:35 am

Compound #78: 4,6-Dinitro-o-cresol



Original Peak Response = 0



Manual Peak Response = 460 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL1.D
Acq On : 5 Nov 2024 8:06 pm
Operator : Dakota:HNY
Sample : IL10,32,,ABNL0.1 Lot# 11150
Misc : WG1994500
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 06 09:17:45 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.283	152	27369	4.000	ug/ml	0.00
Standard Area 1 = 28960			Recovery = 94.51%			
37) IS1_Naphthalene-d8	5.520	136	99976	4.000	ug/ml	0.00
Standard Area 1 = 107558			Recovery = 92.95%			
65) IS1_Acenaphthene-d10	7.210	164	64152	4.000	ug/ml	0.00
Standard Area 1 = 69553			Recovery = 92.23%			
90) IS1_Phenanthrene-d10	8.621	188	144467	4.000	ug/ml	0.00
Standard Area 1 = 149813			Recovery = 96.43%			
106) IS1_Chrysene-d12	11.189	240	161244	4.000	ug/ml	0.00
Standard Area 1 = 173036			Recovery = 93.19%			
115) IS1_Perylene-d12	12.609	264	182414	4.000	ug/ml	0.00
Standard Area 1 = 203359			Recovery = 89.70%			
System Monitoring Compounds						
4) 2-Fluorophenol	2.999	112	718	0.112	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 5.60%#			
7) Phenol-d6	3.987	99	1069	0.129	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 6.45%#			
19) Nitrobenzene-d5	4.836	82	848	0.112	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 11.20%#			
48) 2-Fluorobiphenyl	6.592	172	3465	0.136	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 13.60%#			
81) 2,4,6-Tribromophenol	7.966	330	505	0.121	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 6.05%#			
98) 4-Terphenyl-d14	10.191	244	5994	0.154	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 15.40%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.619	74	471M2	0.107	ug/ml	
3) Pyridine	1.721	79	491M2	0.072	ug/ml	
5) Aniline	3.972	93	1245	0.116	ug/ml#	83
6) 2-Chlorophenol	4.081	128	966	0.124	ug/ml#	30
8) Phenol	4.000	94	1175	0.121	ug/ml#	74
9) Bis(2-chloroethyl)ether	4.065	93	882	0.129	ug/ml#	65
10) 1,3-Dichlorobenzene	4.227	146	1361M3	0.119	ug/ml	
11) 1,4-Dichlorobenzene	4.301	146	1449	0.130	ug/ml	94
12) 1,2-Dichlorobenzene	4.447	146	1160M3	0.108	ug/ml	
13) Benzyl alcohol	4.457	79	695	0.115	ug/ml#	87
14) Bis(2-chloroisopropyl)...	4.596	45	1532	0.110	ug/ml#	48

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL1.D
Acq On : 5 Nov 2024 8:06 pm
Operator : Dakota:HNY
Sample : IL10,32,,ABNL0.1 Lot# 11150
Misc : WG1994500
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 06 09:17:45 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	4.593	108	890	0.131	ug/ml#	87
16) Hexachloroethane	4.774	117	541	0.133	ug/ml#	53
17) n-Nitrosodi-n-propylamine	4.727	70	767	0.135	ug/ml#	59
18) 3-Methylphenol/4-Methy...	4.752	108	1033	0.143	ug/ml#	87
20) Nitrobenzene	4.851	77	926	0.116	ug/ml#	39
21) Isophorone	5.100	82	1864	0.127	ug/ml#	65
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	5.255	107	936	0.137	ug/ml#	64
24) Bis(2-chloroethoxy)met...	5.342	93	1098	0.117	ug/ml#	50
25) 2,4-Dichlorophenol	5.408	162	1059	0.124	ug/ml#	73
26) 1,2,4-Trichlorobenzene	5.479	180	1353	0.121	ug/ml#	82
38) Naphthalene	5.538	128	3631	0.135	ug/ml#	52
39) Benzoic Acid	5.314	105	144M2	1.648	ug/ml	
40) 4-Chloroaniline	5.625	65	375M2	0.107	ug/ml	
41) Hexachlorobutadiene	5.697	225	744	0.107	ug/ml#	53
42) p-Chloro-m-cresol	6.129	107	854	0.123	ug/ml#	77
43) 2-Methylnaphthalene	6.216	142	2612	0.138	ug/ml	98
44) 1-Methylnaphthalene	6.309	115	803	0.130	ug/ml	84
45) Hexachlorocyclopentadiene	6.390	237	743	0.111	ug/ml#	27
46) 2,4,6-Trichlorophenol	6.511	196	814	0.110	ug/ml#	79
47) 2,4,5-Trichlorophenol	6.536	196	998	0.123	ug/ml#	81
49) 2-Chloronaphthalene	6.679	162	2781	0.126	ug/ml#	89
50) 2-Nitroaniline	6.797	138	550	0.109	ug/ml#	60
51) 1,4-Dinitrobenzene	6.928	168	232M2	0.093	ug/ml	
52) 1,3-Dinitrobenzene	6.999	168	271M2	0.091	ug/ml	
53) Dimethyl phthalate	7.002	163	3294	0.125	ug/ml#	77
54) Acenaphthylene	7.067	152	3963	0.123	ug/ml#	84
55) 2,6-Dinitrotoluene	7.039	165	480M3	0.108	ug/ml	
56) 1,2-Dinitrobenzene	7.083	168	66M2	0.038	ug/ml	
66) 3-Nitroaniline	7.192	138	500	0.117	ug/ml#	34
67) Acenaphthene	7.238	154	2671	0.150	ug/ml	94
68) 2,4-Dinitrophenol	7.294	184	194M2	0.070	ug/ml	
69) Dibenzofuran	7.409	168	4484	0.145	ug/ml	95
70) 2,4-Dinitrotoluene	7.422	165	598	0.101	ug/ml#	62
71) 4-Nitrophenol	7.397	65	368M3	0.108	ug/ml	
72) 2,3,5,6-Tetrachlorophenol	7.506	232	745	0.119	ug/ml#	73
73) 2,3,4,6-Tetrachlorophenol	7.543	232	860	0.140	ug/ml#	68
74) Diethyl phthalate	7.689	149	3507	0.145	ug/ml#	85
75) Fluorene	7.736	166	3304	0.137	ug/ml#	85
76) 4-Chlorophenyl phenyl ...	7.764	204	1762	0.141	ug/ml#	84

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL1.D
Acq On : 5 Nov 2024 8:06 pm
Operator : Dakota:HNY
Sample : IL10,32,,ABNL0.1 Lot# 11150
Misc : WG1994500
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 06 09:17:45 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77)	4-Nitroaniline	7.773	138	378M2	0.080	ug/ml	
78)	4,6-Dinitro-o-cresol	7.810	198	385M2	0.476	ug/ml	
79)	NDPA/DPA	7.879	169	3050	0.146	ug/ml	97
80)	Azobenzene	7.910	77	2486	0.128	ug/ml#	80
82)	4-Bromophenyl phenyl e...	8.227	248	1158	0.146	ug/ml#	76
83)	Hexachlorobenzene	8.267	284	1435	0.143	ug/ml#	33
84)	Pentachlorophenol	8.466	266	597	0.109	ug/ml#	19
91)	Phenanthrene	8.646	178	5979	0.146	ug/ml	99
92)	Anthracene	8.693	178	5679	0.140	ug/ml	97
93)	Carbazole	8.864	167	4793	0.125	ug/ml	96
94)	Di-n-butylphthalate	9.271	149	5118	0.121	ug/ml#	79
95)	Fluoranthene	9.781	202	7016	0.138	ug/ml#	92
96)	Benzidine	9.946	184	2944	0.102	ug/ml#	68
97)	Pyrene	9.989	202	7325	0.136	ug/ml	96
99)	Butyl benzyl phthalate	10.704	149	2048	0.114	ug/ml#	83
107)	Benzo(a)anthracene	11.179	228	7534	0.142	ug/ml	98
108)	3,3'-Dichlorobenzidine	11.195	252	2367	0.121	ug/ml#	86
109)	Chrysene	11.217	228	7896	0.154	ug/ml	98
110)	Bis(2-ethylhexyl)phtha...	11.332	149	3348	0.119	ug/ml#	88
111)	Di-n-octylphthalate	11.994	149	5561	0.120	ug/ml#	55
112)	Benzo(b)fluoranthene	12.252	252	7346	0.135	ug/ml#	95
113)	Benzo(k)fluoranthene	12.277	252	7028	0.131	ug/ml#	92
114)	Benzo(a)pyrene	12.553	252	6027	0.121	ug/ml#	94
116)	Indeno(1,2,3-cd)pyrene	13.542	276	7287	0.131	ug/mL#	90
117)	Dibenzo(a,h)anthracene	13.566	278	6856	0.125	ug/ml#	92
118)	Benzo(ghi)perylene	13.747	276	7053	0.133	ug/ml#	88

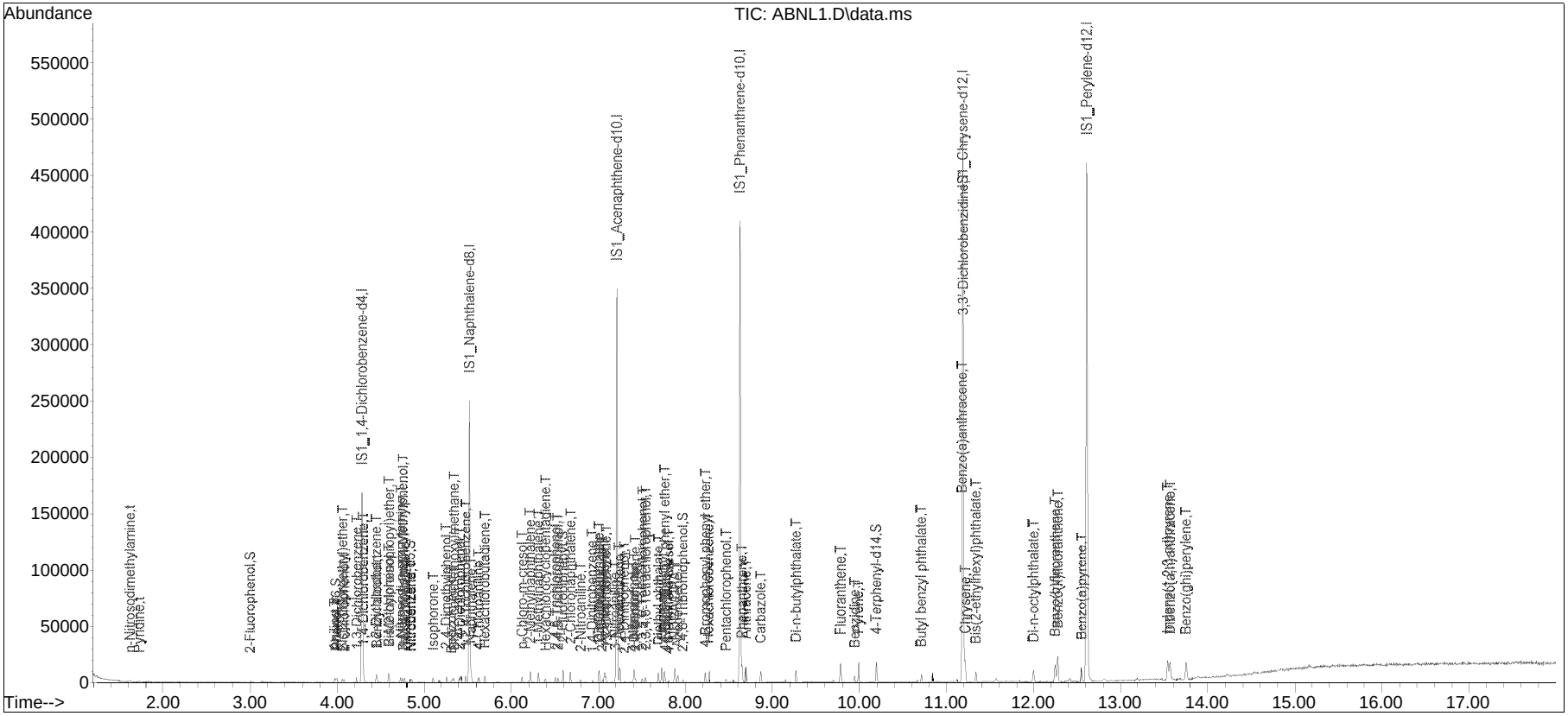
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNL1.D
Acq On : 5 Nov 2024 8:06 pm
Operator : Dakota:HNY
Sample : IL10,32,,ABNL0.1 Lot# 11150
Misc : WG1994500
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 06 09:17:45 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

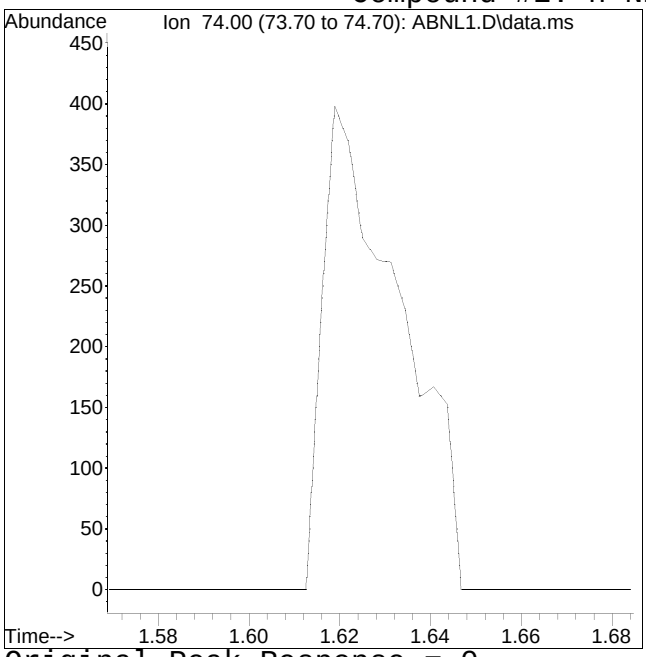
Sub List : ABNical - ABN ical sublistVTICAL\ABNL6.D•



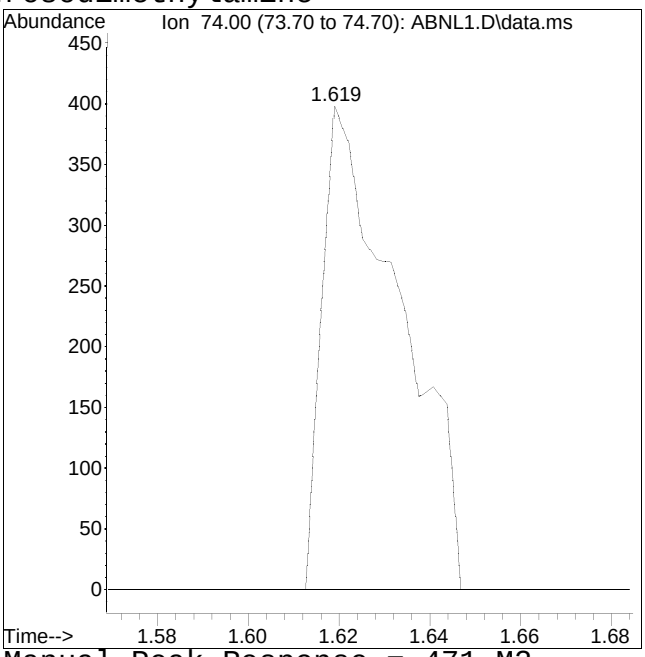
Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQ
Data File : ABNL1.D
Date Inj'd : 11/5/2024 8:06 pm
Sample : IL10,32,,ABNL0.1 Lot# 1115
Method : FS241105RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 11/6/2024 8:35 am

Compound #2: n-Nitrosodimethylamine



Original Peak Response = 0



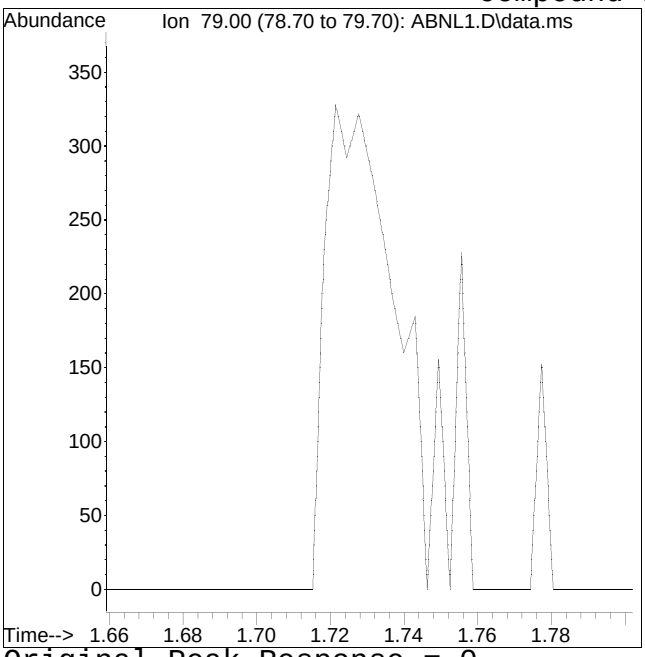
Manual Peak Response = 471 M2

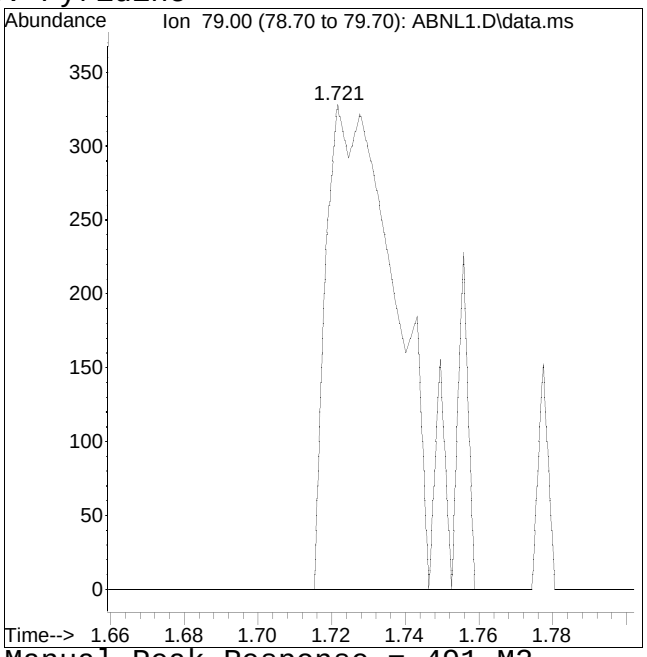
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQ
Data File : ABNL1.D
Date Inj'd : 11/5/2024 8:06 pm
Sample : IL10,32,,ABNL0.1 Lot# 1115
Method : FS241105RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 11/6/2024 8:35 am

Compound #3: Pyridine



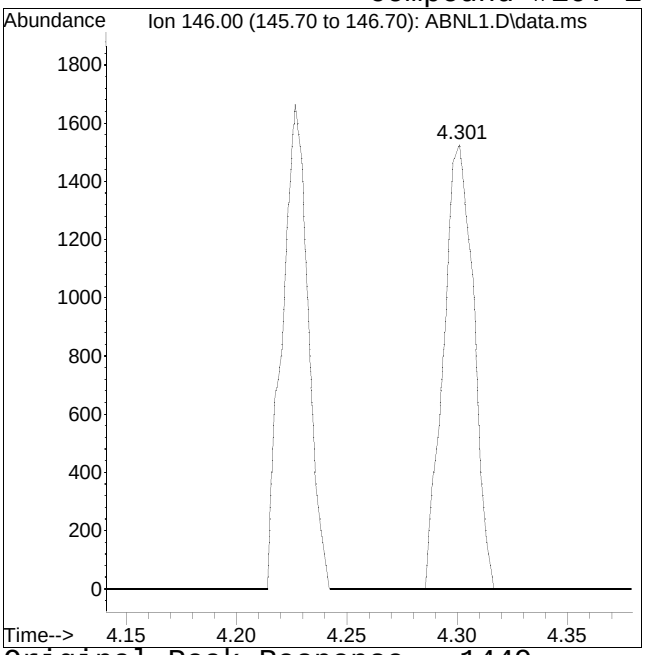


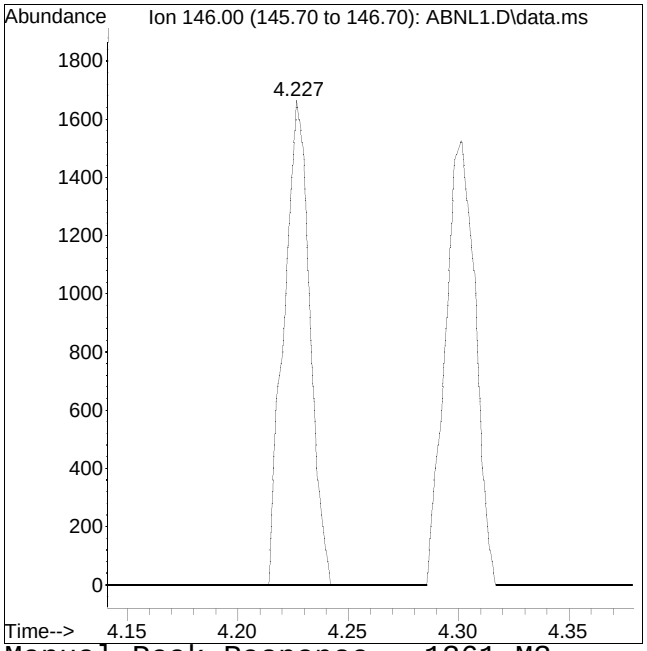
Original Peak Response = 0
Manual Peak Response = 491 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQ
Data File : ABNL1.D
Date Inj'd : 11/5/2024 8:06 pm
Sample : IL10,32,,ABNL0.1 Lot# 1115
Method : FS241105RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 11/6/2024 8:35 am

Compound #10: 1,3-Dichlorobenzene





Original Peak Response = 1449 Manual Peak Response = 1361 M3

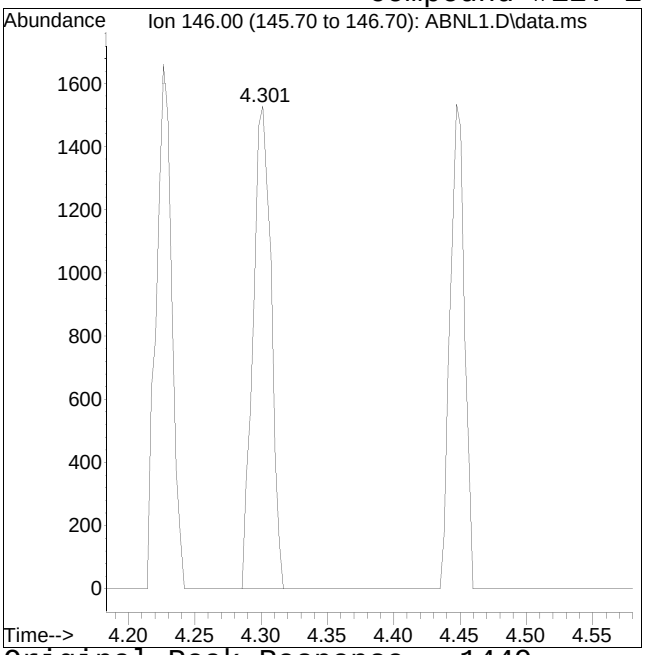
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

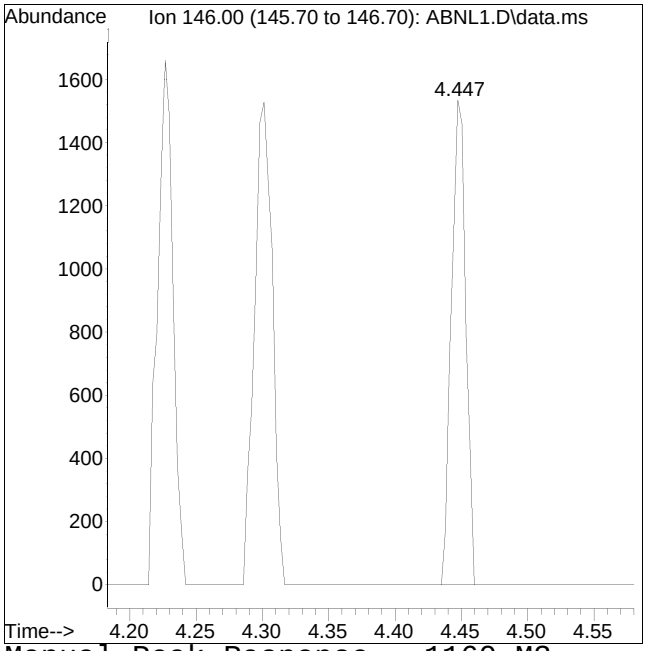
Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQ
Data File : ABNL1.D
Date Inj'd : 11/5/2024 8:06 pm
Sample : IL10,32,,ABNL0.1 Lot# 1115

Method : FS241105RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 11/6/2024 8:35 am

Compound #12: 1,2-Dichlorobenzene





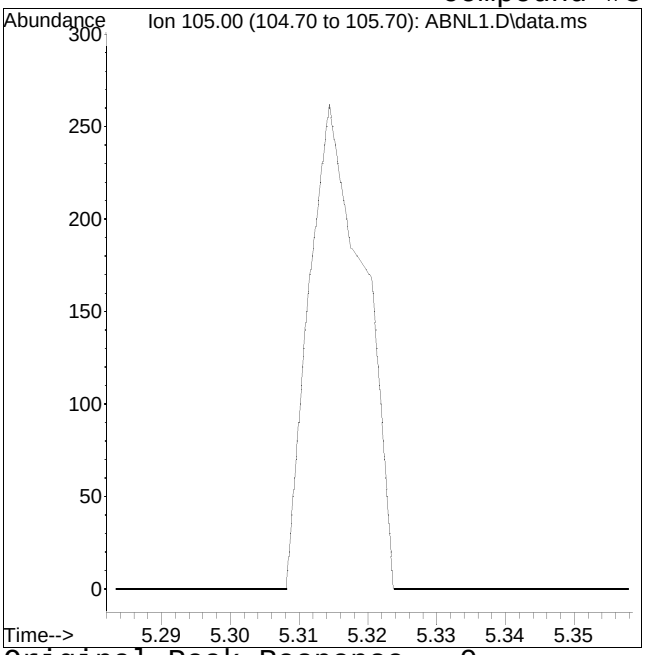
Original Peak Response = 1449 Manual Peak Response = 1160 M3

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

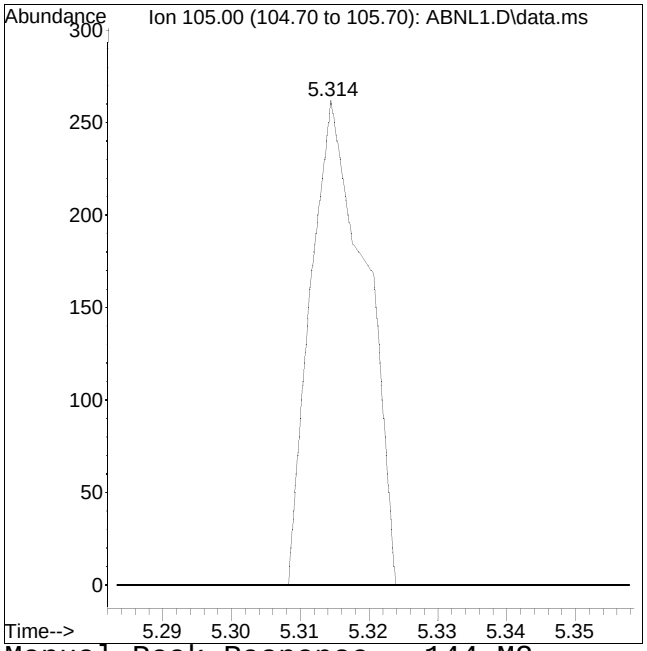
Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQ
Data File : ABNL1.D
Date Inj'd : 11/5/2024 8:06 pm
Sample : IL10,32,,ABNL0.1 Lot# 1115
Method : FS241105RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 11/6/2024 8:35 am

Compound #39: Benzoic Acid



Original Peak Response = 0



Manual Peak Response = 144 M2

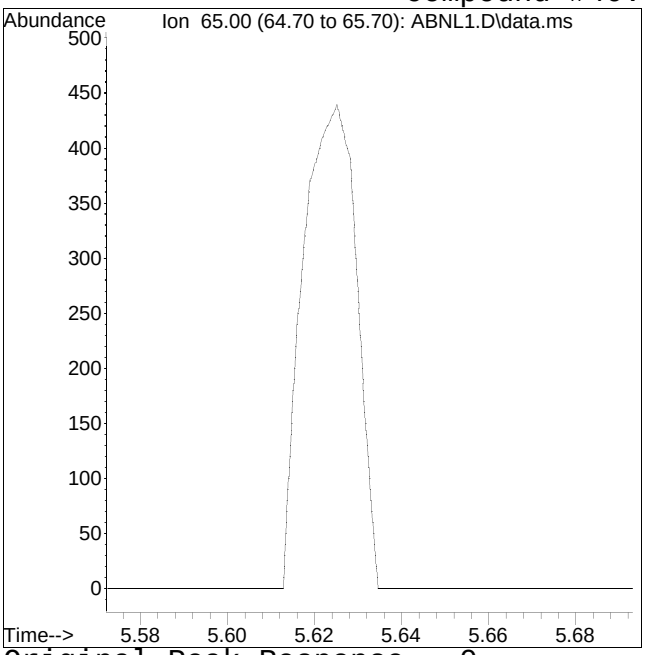
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

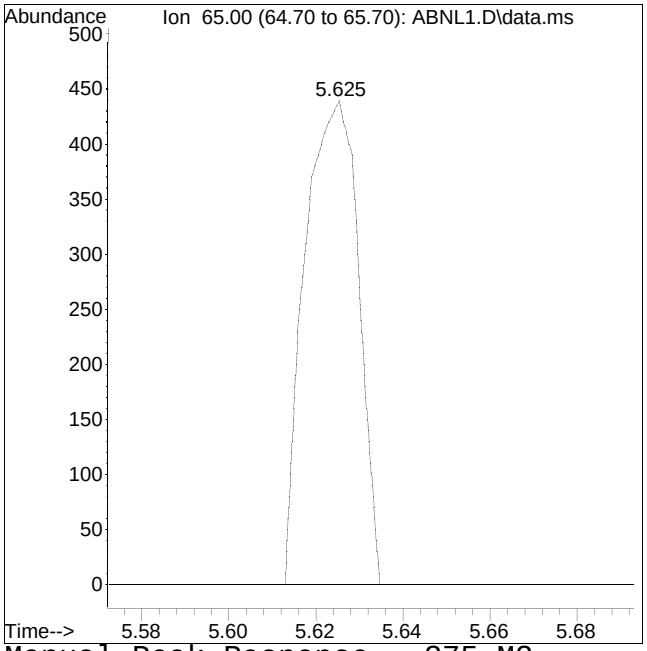
Data Path : I:\8270\Dakota\241105RVTICQ
Data File : ABNL1.D
Date Inj'd : 11/5/2024 8:06 pm
Sample : IL10,32,,ABNL0.1 Lot# 1115

Method : FS241105RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 11/6/2024 8:35 am

Compound #40: 4-Chloroaniline



Original Peak Response = 0



Manual Peak Response = 375 M2

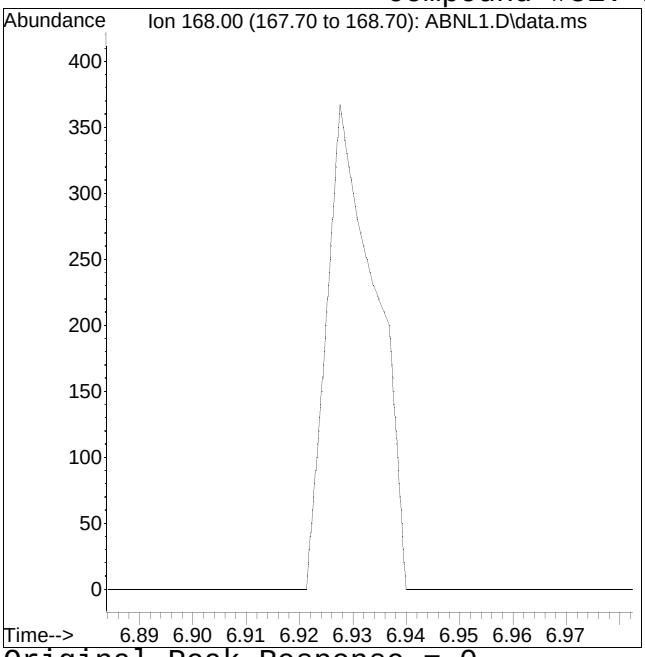
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

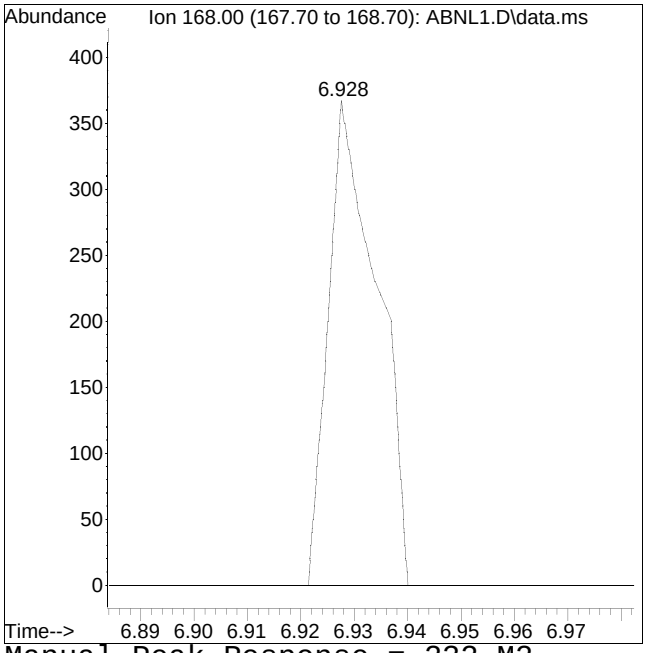
Data Path : I:\8270\Dakota\241105RVTICQ
Data File : ABNL1.D
Date Inj'd : 11/5/2024 8:06 pm
Sample : IL10,32,,ABNL0.1 Lot# 1115

Method : FS241105RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 11/6/2024 8:35 am

Compound #51: 1,4-Dinitrobenzene



Original Peak Response = 0



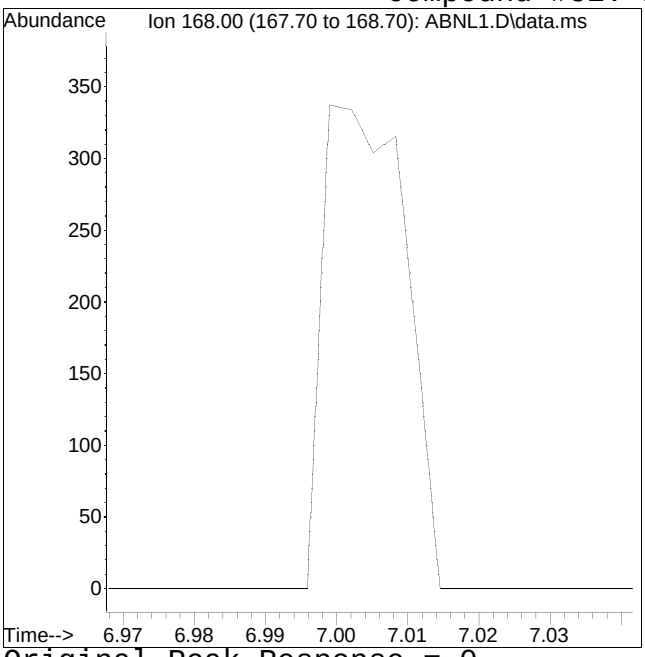
Manual Peak Response = 232 M2

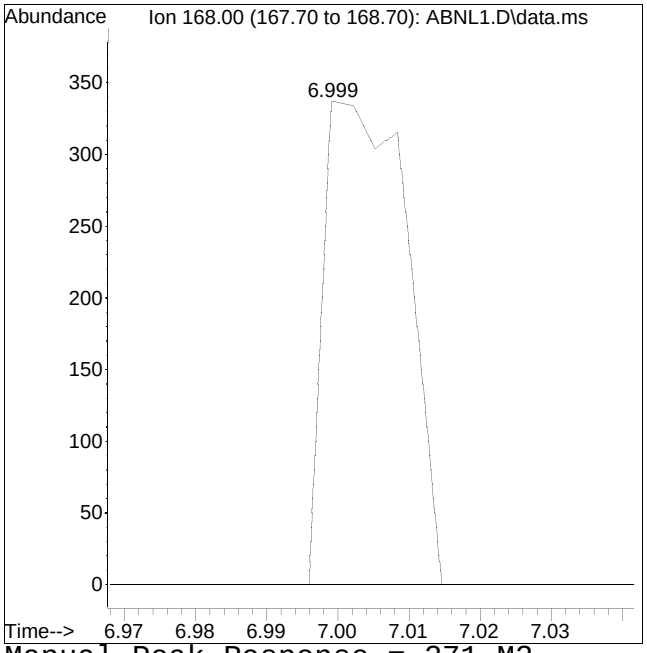
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQ
Data File : ABNL1.D
Date Inj'd : 11/5/2024 8:06 pm
Sample : IL10,32,,ABNL0.1 Lot# 1115
Method : FS241105RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 11/6/2024 8:35 am

Compound #52: 1,3-Dinitrobenzene



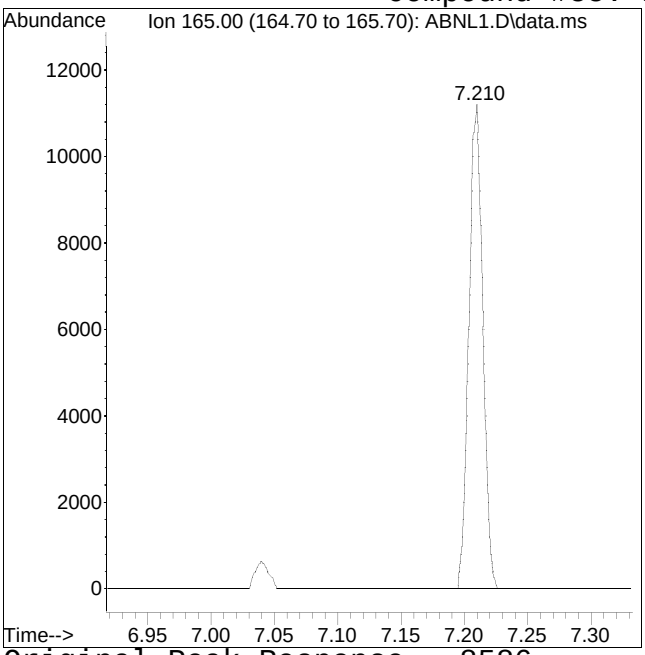


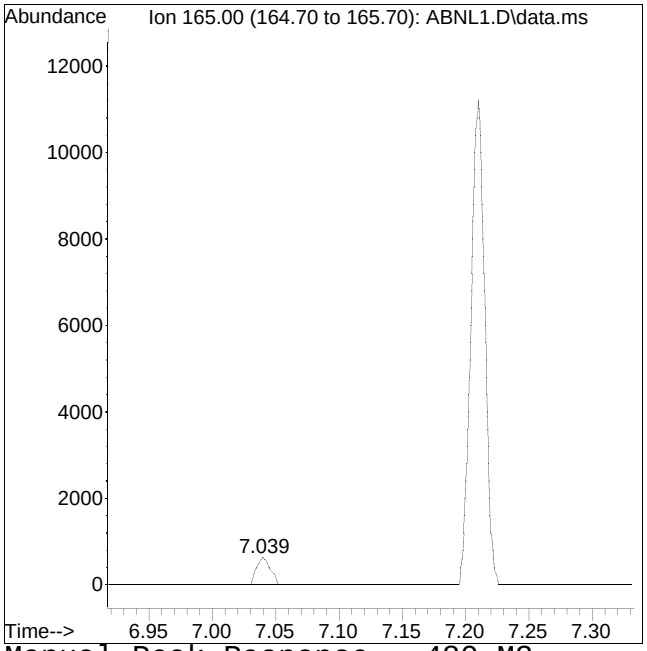
Original Peak Response = 0
Manual Peak Response = 271 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQMethod : FS241105RVT_Dakota.m
Data File : ABNL1.D Operator : Dakota:HNY
Date Inj'd : 11/5/2024 8:06 pm Instrument : Dakota
Sample : IL10,32,,ABNL0.1 Lot# 1115Quant Date : 11/6/2024 8:35 am

Compound #55: 2,6-Dinitrotoluene



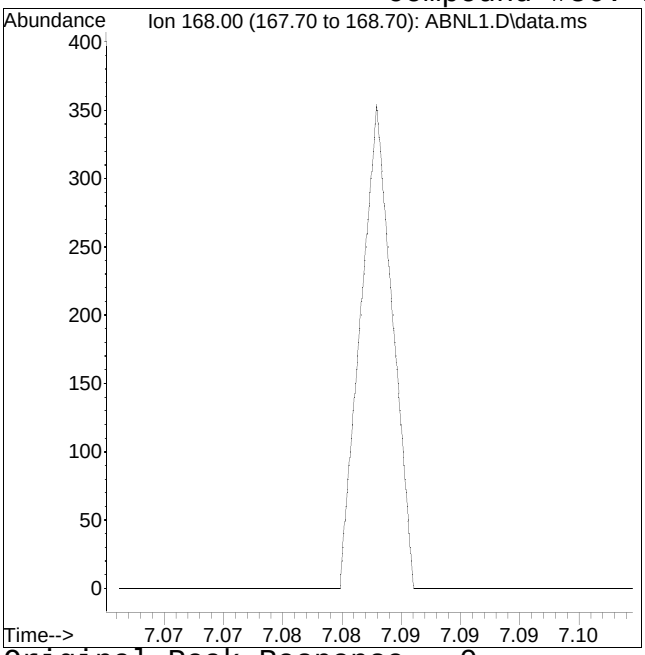


Original Peak Response = 8586 Manual Peak Response = 480 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

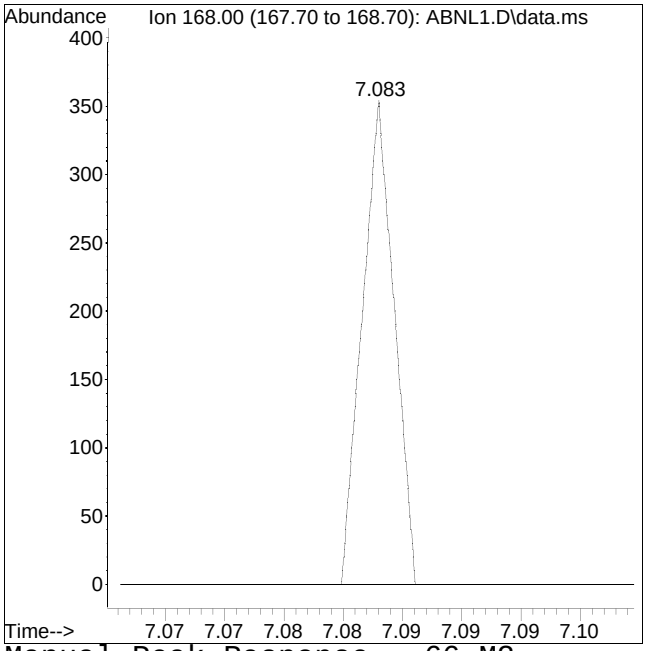
Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQ
Data File : ABNL1.D
Date Inj'd : 11/5/2024 8:06 pm
Sample : IL10,32,,ABNL0.1 Lot# 1115
Method : FS241105RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 11/6/2024 8:35 am

Compound #56: 1,2-Dinitrobenzene



Original Peak Response = 0



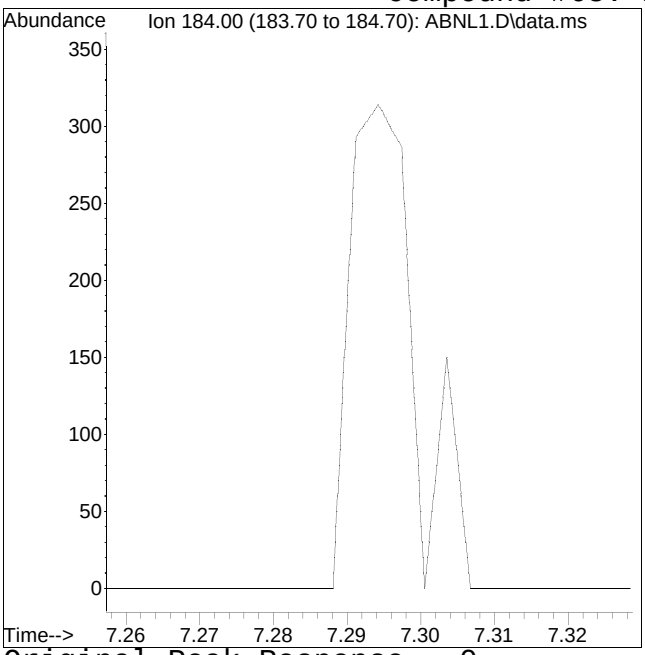
Manual Peak Response = 66 M2

M2 = Peak not found by automatic integration algorithm.

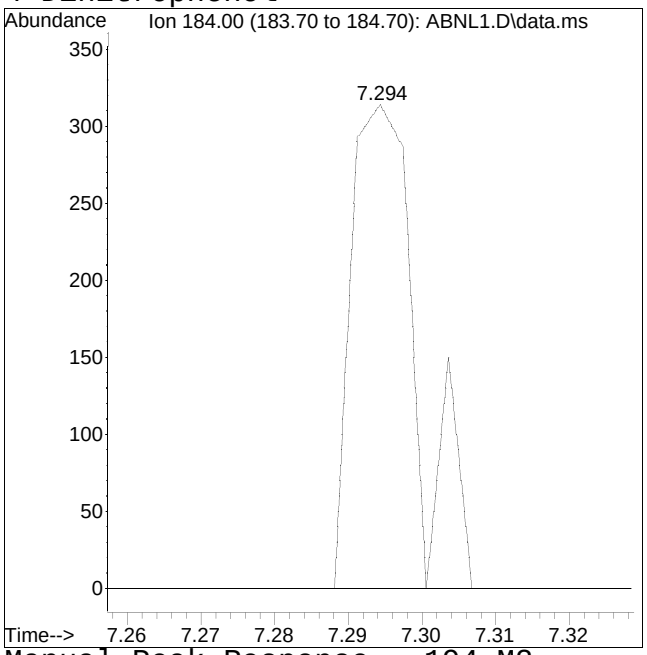
Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQ
Data File : ABNL1.D
Date Inj'd : 11/5/2024 8:06 pm
Sample : IL10,32,,ABNL0.1 Lot# 1115
Method : FS241105RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 11/6/2024 8:35 am

Compound #68: 2,4-Dinitrophenol



Original Peak Response = 0



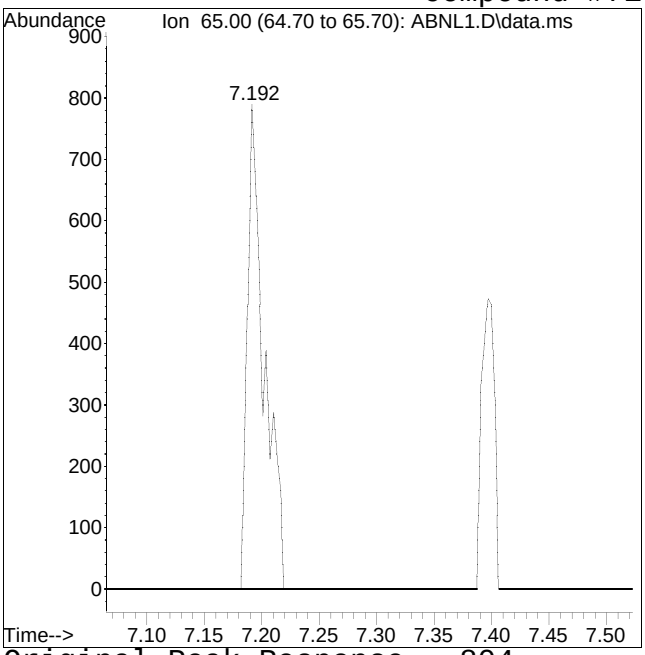
Manual Peak Response = 194 M2

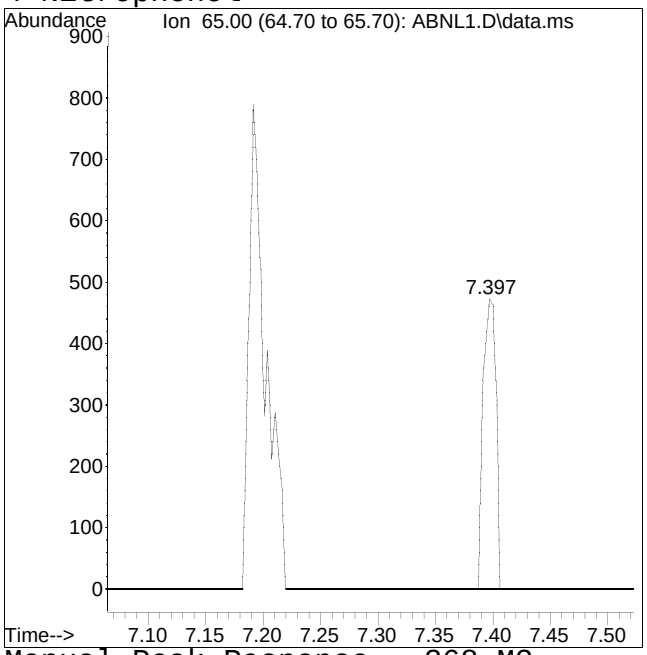
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQMethod : FS241105RVT_Dakota.m
Data File : ABNL1.D Operator : Dakota:HNY
Date Inj'd : 11/5/2024 8:06 pm Instrument : Dakota
Sample : IL10,32,,ABNL0.1 Lot# 1115Quant Date : 11/6/2024 8:35 am

Compound #71: 4-Nitrophenol





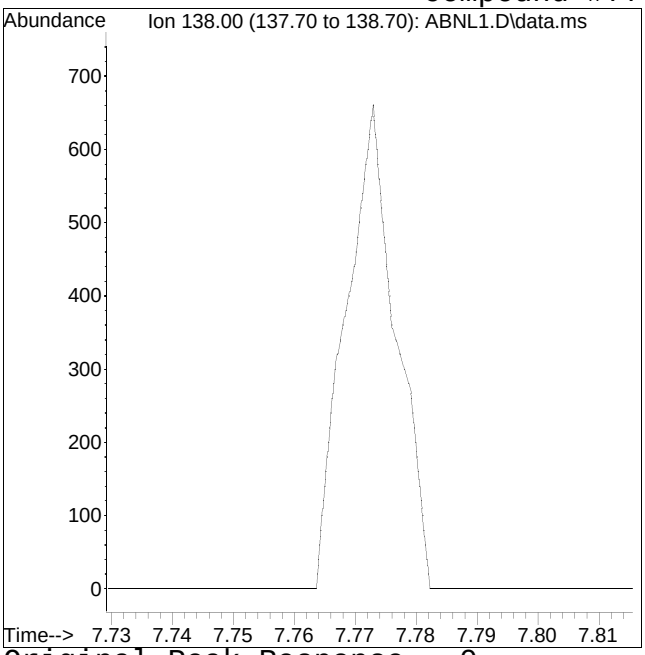
Original Peak Response = 804 Manual Peak Response = 368 M3

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

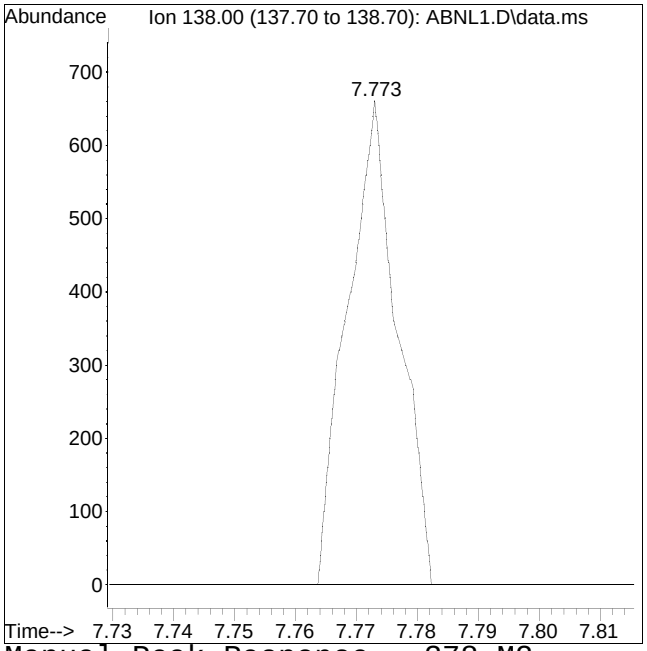
Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQ
Data File : ABNL1.D
Date Inj'd : 11/5/2024 8:06 pm
Sample : IL10,32,,ABNL0.1 Lot# 1115
Method : FS241105RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 11/6/2024 8:35 am

Compound #77: 4-Nitroaniline



Original Peak Response = 0



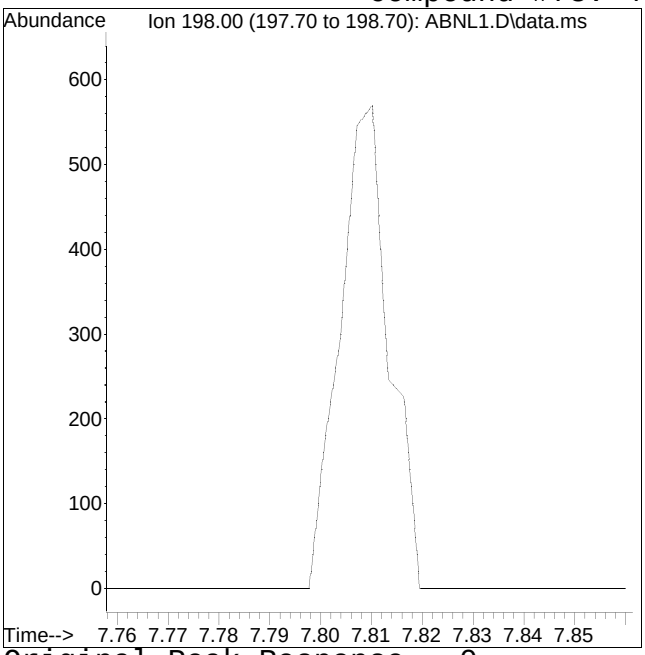
Manual Peak Response = 378 M2

M2 = Peak not found by automatic integration algorithm.

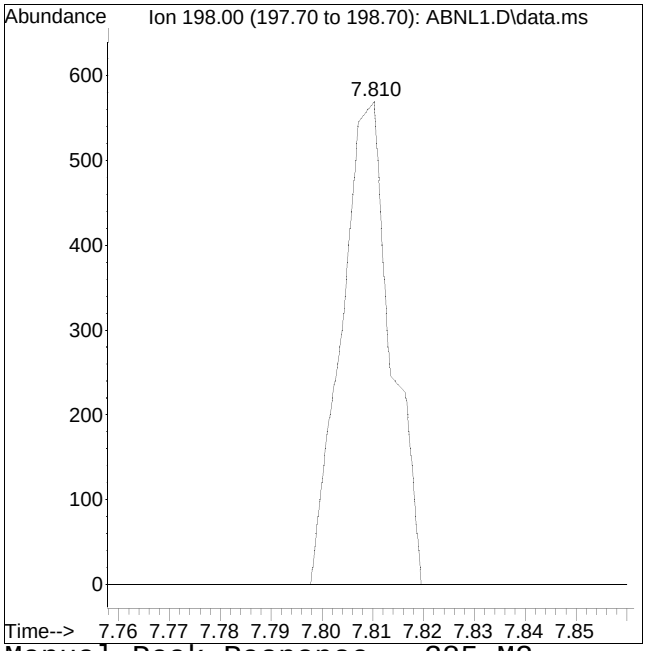
Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQMethod : FS241105RVT_Dakota.m
Data File : ABNL1.D Operator : Dakota:HNY
Date Inj'd : 11/5/2024 8:06 pm Instrument : Dakota
Sample : IL10,32,,ABNL0.1 Lot# 1115Quant Date : 11/6/2024 8:35 am

Compound #78: 4,6-Dinitro-o-cresol



Original Peak Response = 0



Manual Peak Response = 385 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : AP9L9.D
Acq On : 5 Nov 2024 8:29 pm
Operator : Dakota:HNY
Sample : IL2,32,,AP9L50 Lot# 11120
Misc : WG1994500
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 06 09:39:08 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
	Internal Standards							
27)	IS2_1,4-Dichlorobenzen...	4.286	152	30987	4.000	ug/ml		0.00
	Standard Area 1 = 28342			Recovery =	109.33%			
57)	IS2_Naphthalene-d8	5.520	136	111920	4.000	ug/ml	#	0.00
	Standard Area 1 = 98544			Recovery =	113.57%			
85)	IS2_Acenaphthene-d10	7.210	164	71063	4.000	ug/ml		0.00
	Standard Area 1 = 64361			Recovery =	110.41%			
100)	IS2_Phenanthrene-d10	8.625	188	160716	4.000	ug/ml		0.00
	Standard Area 1 = 142493			Recovery =	112.79%			
	System Monitoring Compounds							
	Target Compounds							Qvalue
28)	Benzaldehyde	3.844	105	304408	47.565	ug/ml		97
29)	Acetophenone	4.696	105	601234	50.020	ug/ml	#	80
30)	m-Toluidine	4.780	106	545570	50.658	ug/ml		95
31)	2-Chloroaniline	5.137	127	584754	51.772	ug/ml	#	91
58)	a-Terpineol	5.594	59	350560	49.690	ug/ml	#	80
59)	3-Chloroaniline	5.607	65	174464	46.089	ug/ml		90
60)	2,6-Dichlorophenol	5.632	162	460446	49.506	ug/ml	#	82
61)	1-chloro-2-nitrobenzene	5.880	111	185947	55.337	ug/ml	#	1
62)	Caprolactam	5.945	55	199011	47.711	ug/ml	#	75
63)	1,2,4,5-Tetrachloroben...	6.390	216	599935	44.098	ug/ml		97
64)	Biphenyl	6.682	154	1225314	44.550	ug/ml		96
86)	Dichloran	8.339	206	192620	58.409	ug/ml	#	59
87)	Pentachloronitrobenzene	8.482	237	196056	47.568	ug/ml	#	76
101)	Diphenamid	9.545	167	952562	48.801	ug/ml	#	75

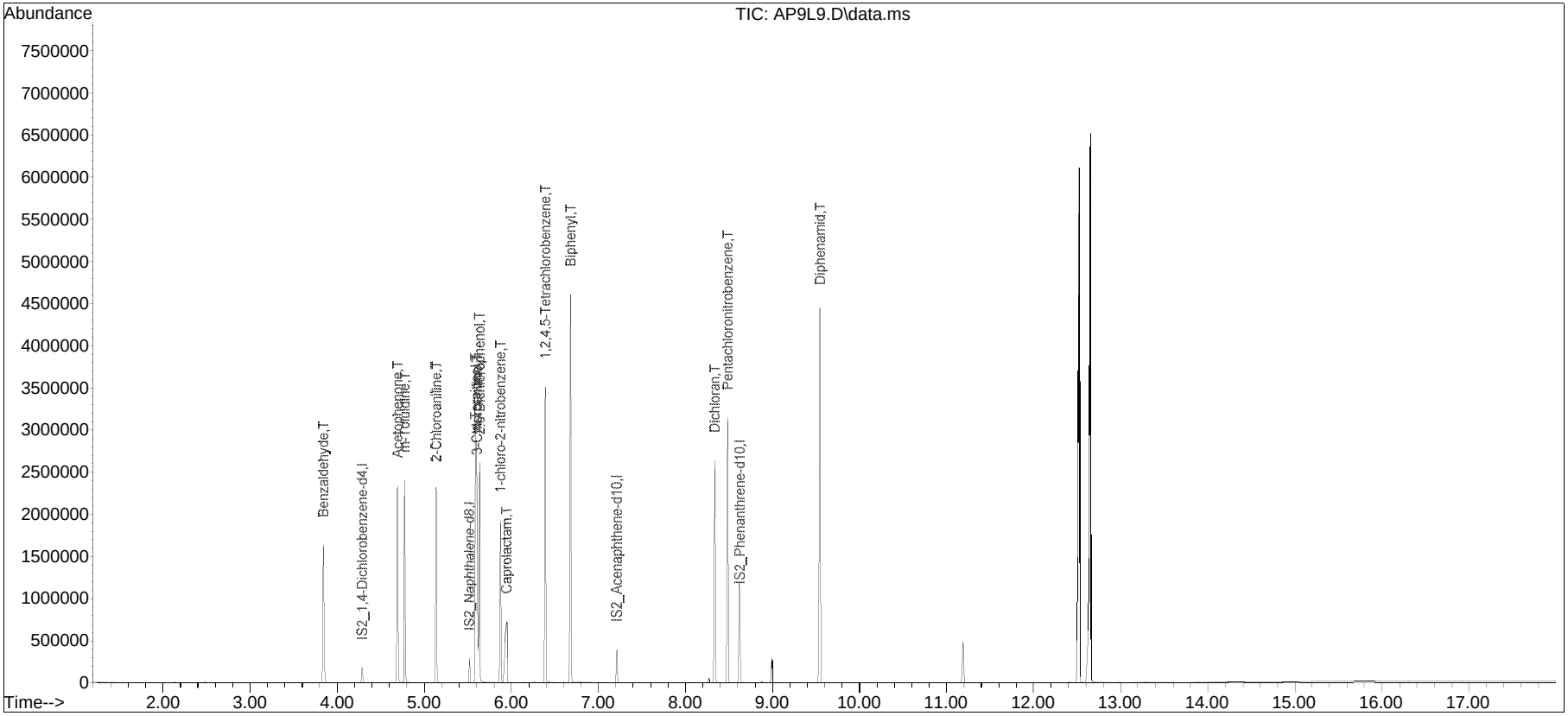
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : AP9L9.D
Acq On : 5 Nov 2024 8:29 pm
Operator : Dakota:HNY
Sample : IL2,32,,AP9L50 Lot# 11120
Misc : WG1994500
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 06 09:39:08 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistVTICAL\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\241105RVTICQ	Method	: FS241105RVT_Dakota.m
Data File	: AP9L9.D	Operator	: Dakota:HNY
Date Inj'd	: 11/5/2024 8:29 pm	Instrument	: Dakota
Sample	: IL2,32,,AP9L50 Lot# 11120	Quant Date	: 11/6/2024 8:39 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : AP9L8.D
Acq On : 5 Nov 2024 8:53 pm
Operator : Dakota:HNY
Sample : IL3,32,,AP9L25 Lot# 11121
Misc : WG1994500
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 06 09:38:22 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.282	152	29753	4.000	ug/ml	0.00
Standard Area 1 = 28342			Recovery =	104.98%		
57) IS2_Naphthalene-d8	5.519	136	106459	4.000	ug/ml	# 0.00
Standard Area 1 = 98544			Recovery =	108.03%		
85) IS2_Acenaphthene-d10	7.210	164	68191	4.000	ug/ml	0.00
Standard Area 1 = 64361			Recovery =	105.95%		
100) IS2_Phenanthrene-d10	8.624	188	151604	4.000	ug/ml	0.00
Standard Area 1 = 142493			Recovery =	106.39%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	3.844	105	151455	24.647	ug/ml	97
29) Acetophenone	4.693	105	299052	25.912	ug/ml#	79
30) m-Toluidine	4.777	106	270898	26.197	ug/ml	95
31) 2-Chloroaniline	5.134	127	289933	26.734	ug/ml#	91
58) a-Terpineol	5.591	59	173589	25.867	ug/ml#	81
59) 3-Chloroaniline	5.603	65	86165	23.930	ug/ml	94
60) 2,6-Dichlorophenol	5.628	162	225556	25.495	ug/ml#	82
61) 1-chloro-2-nitrobenzene	5.877	111	91193	28.531	ug/ml#	1
62) Caprolactam	5.933	55	97330	24.531	ug/ml#	73
63) 1,2,4,5-Tetrachloroben...	6.387	216	299740	23.163	ug/ml#	96
64) Biphenyl	6.679	154	610900	23.350	ug/ml	97
86) Dichloran	8.335	206	91383	28.878	ug/ml#	58
87) Pentachloronitrobenzene	8.482	237	93939	24.101	ug/ml#	75
101) Diphenamid	9.538	167	468543	25.447	ug/ml#	75

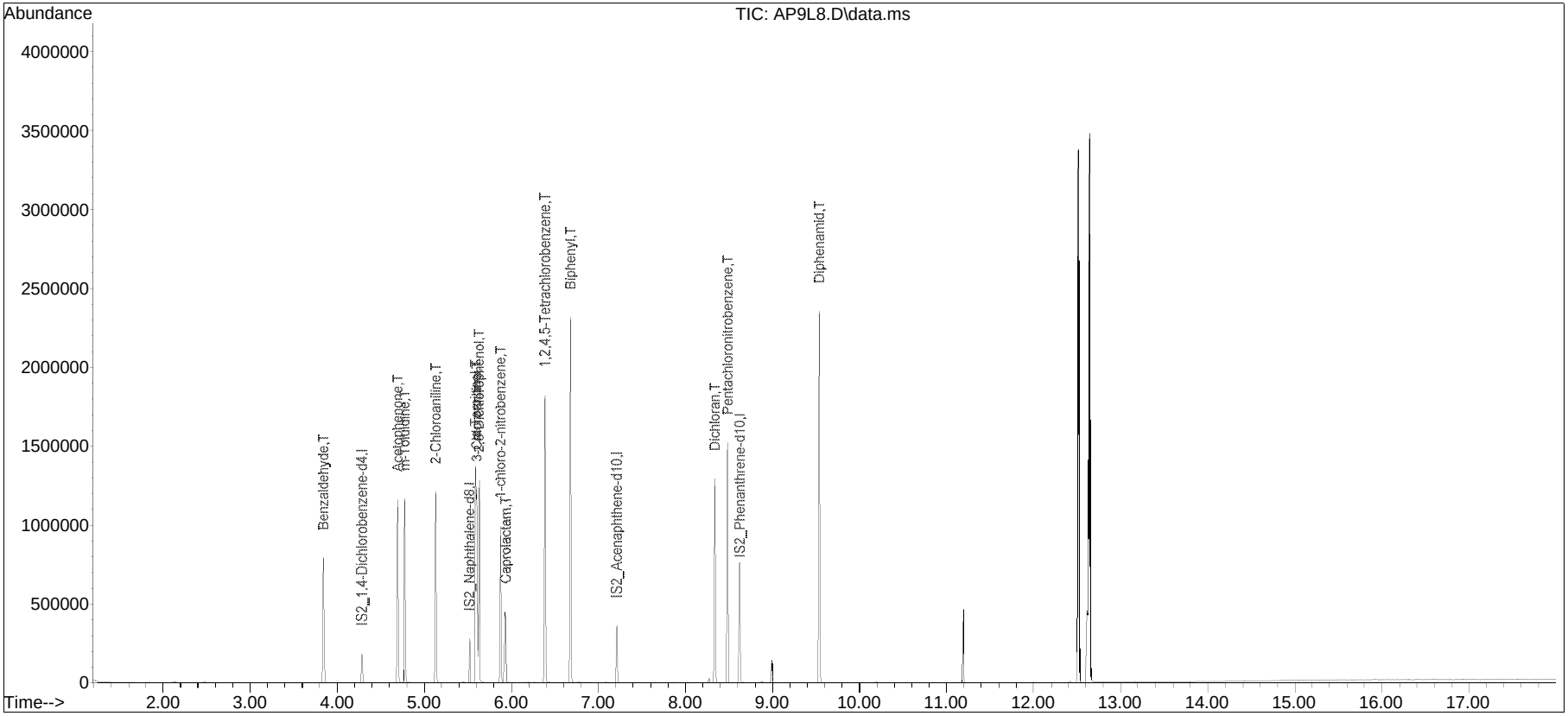
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : AP9L8.D
Acq On : 5 Nov 2024 8:53 pm
Operator : Dakota:HNY
Sample : IL3,32,,AP9L25 Lot# 11121
Misc : WG1994500
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 06 09:38:22 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistVTICAL\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\241105RVTICQ	Method	: FS241105RVT_Dakota.m
Data File	: AP9L8.D	Operator	: Dakota:HNY
Date Inj'd	: 11/5/2024 8:53 pm	Instrument	: Dakota
Sample	: IL3,32,,AP9L25 Lot# 11121	Quant Date	: 11/6/2024 8:39 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : AP9L7.D
Acq On : 5 Nov 2024 9:16 pm
Operator : Dakota:HNY
Sample : IL4,32,,AP9L10 Lot# 11122
Misc : WG1994500
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 06 09:37:55 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
	Internal Standards							
27)	IS2_1,4-Dichlorobenzen...	4.283	152	28253	4.000	ug/ml		0.00
	Standard Area 1 = 28342			Recovery =	99.69%			
57)	IS2_Naphthalene-d8	5.520	136	102348	4.000	ug/ml	#	0.00
	Standard Area 1 = 98544			Recovery =	103.86%			
85)	IS2_Acenaphthene-d10	7.210	164	64900	4.000	ug/ml		0.00
	Standard Area 1 = 64361			Recovery =	100.84%			
100)	IS2_Phenanthrene-d10	8.622	188	142251	4.000	ug/ml		0.00
	Standard Area 1 = 142493			Recovery =	99.83%			
	System Monitoring Compounds							
	Target Compounds							Qvalue
28)	Benzaldehyde	3.844	105	54373	9.318	ug/ml		97
29)	Acetophenone	4.693	105	107439	9.803	ug/ml	#	80
30)	m-Toluidine	4.777	106	98213	10.002	ug/ml		95
31)	2-Chloroaniline	5.134	127	103932	10.092	ug/ml	#	90
58)	a-Terpineol	5.588	59	61054	9.463	ug/ml	#	79
59)	3-Chloroaniline	5.600	65	30940	8.938	ug/ml		89
60)	2,6-Dichlorophenol	5.625	162	81177	9.544	ug/ml	#	81
61)	1-chloro-2-nitrobenzene	5.877	111	31835	10.360	ug/ml	#	1
62)	Caprolactam	5.921	55	33902	8.888	ug/ml	#	74
63)	1,2,4,5-Tetrachloroben...	6.387	216	106694	8.576	ug/ml	#	97
64)	Biphenyl	6.679	154	222491	8.846	ug/ml		97
86)	Dichloran	8.332	206	29962	9.948	ug/ml	#	58
87)	Pentachloronitrobenzene	8.479	237	30894	8.784	ug/ml	#	75
101)	Diphenamid	9.535	167	162112	9.383	ug/ml	#	75

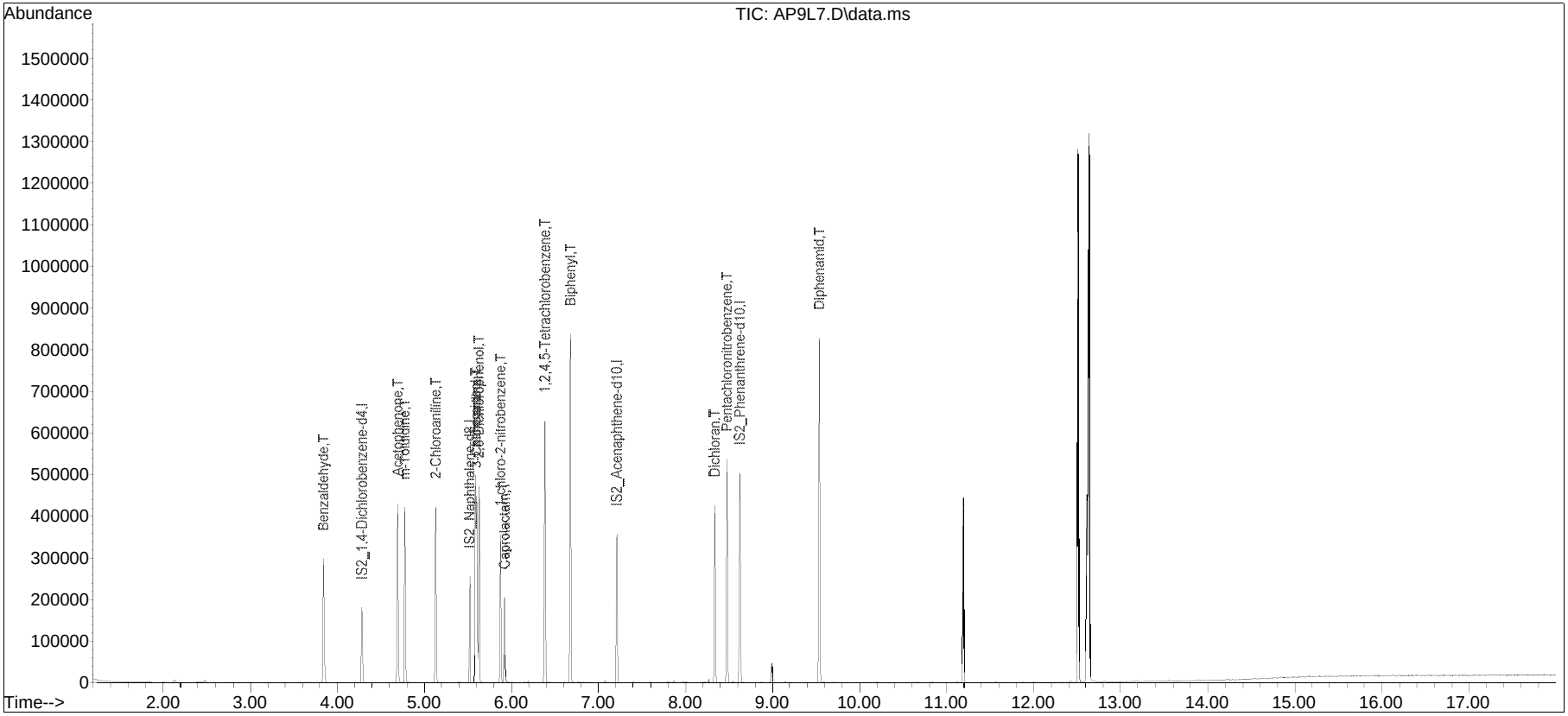
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : AP9L7.D
Acq On : 5 Nov 2024 9:16 pm
Operator : Dakota:HNY
Sample : IL4,32,,AP9L10 Lot# 11122
Misc : WG1994500
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 06 09:37:55 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistVTICAL\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\241105RVTICQ	Method	: FS241105RVT_Dakota.m
Data File	: AP9L7.D	Operator	: Dakota:HNY
Date Inj'd	: 11/5/2024 9:16 pm	Instrument	: Dakota
Sample	: IL4,32,,AP9L10 Lot# 11122	Quant Date	: 11/6/2024 8:38 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : AP9L6.D
Acq On : 5 Nov 2024 9:39 pm
Operator : Dakota:HNY
Sample : IL5,32,,AP9L5 Lot# 11123
Misc : WG1994500
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 06 09:37:30 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
	Internal Standards							
27)	IS2_1,4-Dichlorobenzen...	4.282	152	28342	4.000	ug/ml		0.00
	Standard Area 1 = 28342			Recovery =	100.00%			
57)	IS2_Naphthalene-d8	5.519	136	98544	4.000	ug/ml	#	0.00
	Standard Area 1 = 98544			Recovery =	100.00%			
85)	IS2_Acenaphthene-d10	7.210	164	64361	4.000	ug/ml		0.00
	Standard Area 1 = 64361			Recovery =	100.00%			
100)	IS2_Phenanthrene-d10	8.621	188	142493	4.000	ug/ml		0.00
	Standard Area 1 = 142493			Recovery =	100.00%			
	System Monitoring Compounds							
	Target Compounds							Qvalue
28)	Benzaldehyde	3.847	105	26993	4.611	ug/ml		97
29)	Acetophenone	4.696	105	51821	4.714	ug/ml	#	79
30)	m-Toluidine	4.776	106	46870	4.758	ug/ml		94
31)	2-Chloroaniline	5.134	127	50567	4.895	ug/ml	#	90
58)	a-Terpineol	5.588	59	28933	4.658	ug/ml	#	77
59)	3-Chloroaniline	5.600	65	15441	4.633	ug/ml		94
60)	2,6-Dichlorophenol	5.625	162	39296	4.798	ug/ml	#	82
61)	1-chloro-2-nitrobenzene	5.877	111	15544	5.254	ug/ml	#	1
62)	Caprolactam	5.914	55	15648	4.261	ug/ml	#	75
63)	1,2,4,5-Tetrachloroben...	6.386	216	53831	4.494	ug/ml	#	95
64)	Biphenyl	6.679	154	110500	4.563	ug/ml		98
86)	Dichloran	8.332	206	13287	4.449	ug/ml	#	60
87)	Pentachloronitrobenzene	8.478	237	14522	4.530	ug/ml	#	79
101)	Diphenamid	9.535	167	77258	4.464	ug/ml	#	75

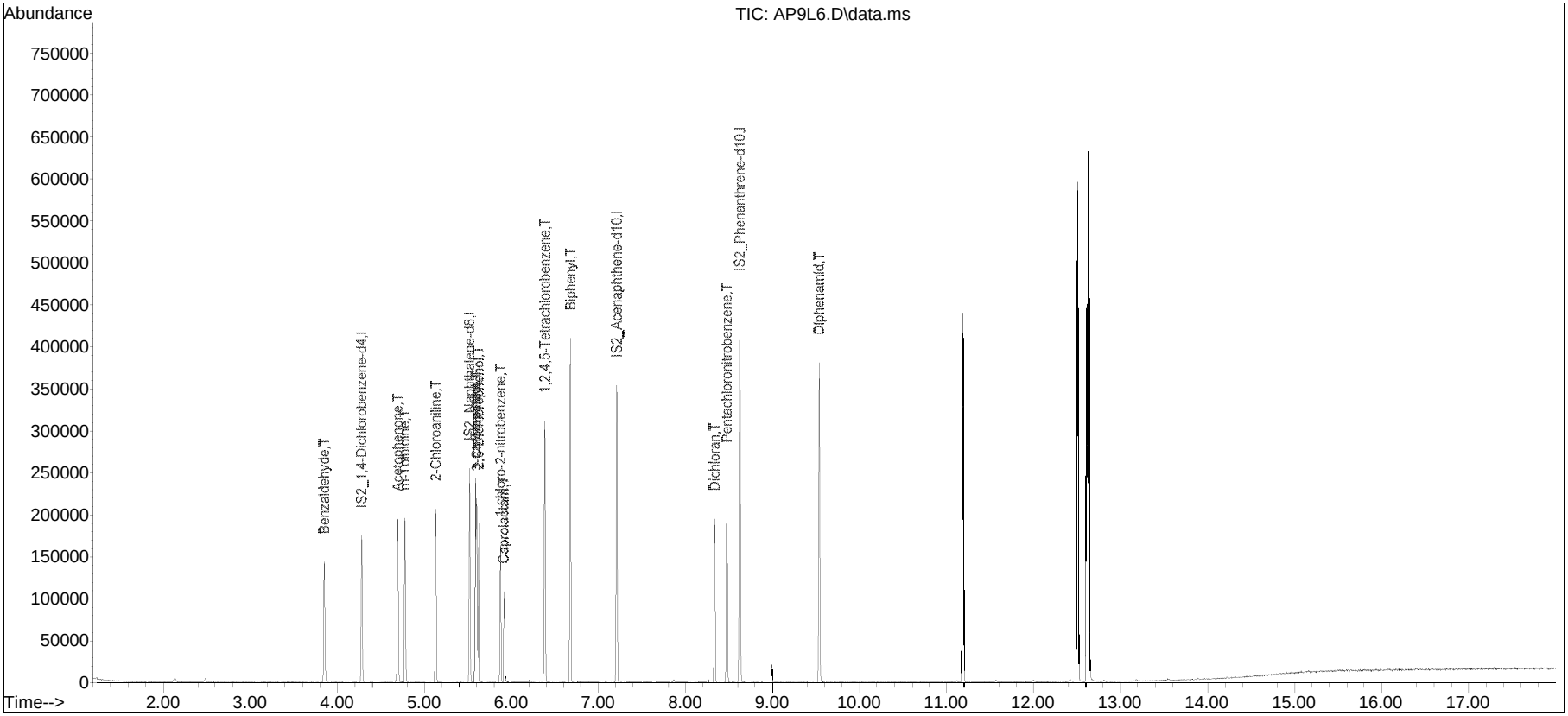
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : AP9L6.D
Acq On : 5 Nov 2024 9:39 pm
Operator : Dakota:HNY
Sample : IL5,32,,AP9L5 Lot# 11123
Misc : WG1994500
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 06 09:37:30 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistVTICAL\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\241105RVTICQ	Method	: FS241105RVT_Dakota.m
Data File	: AP9L6.D	Operator	: Dakota:HNY
Date Inj'd	: 11/5/2024 9:39 pm	Instrument	: Dakota
Sample	: IL5,32,,AP9L5 Lot# 11123	Quant Date	: 11/6/2024 8:38 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : AP9L5.D
Acq On : 5 Nov 2024 10:03 pm
Operator : Dakota:HNY
Sample : IL6,32,,AP9L2.5 Lot# 11124
Misc : WG1994500
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 06 09:36:56 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
	Internal Standards						
27)	IS2_1,4-Dichlorobenzen...	4.283	152	28127	4.000	ug/ml	0.00
	Standard Area 1 = 28342			Recovery = 99.24%			
57)	IS2_Naphthalene-d8	5.520	136	101422	4.000	ug/ml	0.00
	Standard Area 1 = 98544			Recovery = 102.92%			
85)	IS2_Acenaphthene-d10	7.210	164	65158	4.000	ug/ml	0.00
	Standard Area 1 = 64361			Recovery = 101.24%			
100)	IS2_Phenanthrene-d10	8.622	188	143298	4.000	ug/ml	0.00
	Standard Area 1 = 142493			Recovery = 100.56%			
	System Monitoring Compounds						
	Target Compounds						Qvalue
28)	Benzaldehyde	3.848	105	12268	2.112	ug/ml	99
29)	Acetophenone	4.696	105	23923	2.193	ug/ml#	81
30)	m-Toluidine	4.780	106	22093	2.260	ug/ml	93
31)	2-Chloroaniline	5.134	127	23952	2.336	ug/ml#	90
58)	a-Terpineol	5.588	59	13333	2.085	ug/ml#	75
59)	3-Chloroaniline	5.600	65	6723	1.960	ug/ml	84
60)	2,6-Dichlorophenol	5.625	162	18101	2.148	ug/ml#	79
61)	1-chloro-2-nitrobenzene	5.877	111	7212	2.368	ug/ml#	1
62)	Caprolactam	5.914	55	7181	1.900	ug/ml#	72
63)	1,2,4,5-Tetrachloroben...	6.387	216	25415	2.062	ug/ml#	96
64)	Biphenyl	6.679	154	52147	2.092	ug/ml	97
86)	Dichloran	8.332	206	5931	1.961	ug/ml#	62
87)	Pentachloronitrobenzene	8.479	237	6694	2.442	ug/ml#	77
101)	Diphenamid	9.535	167	34942	2.008	ug/ml#	74

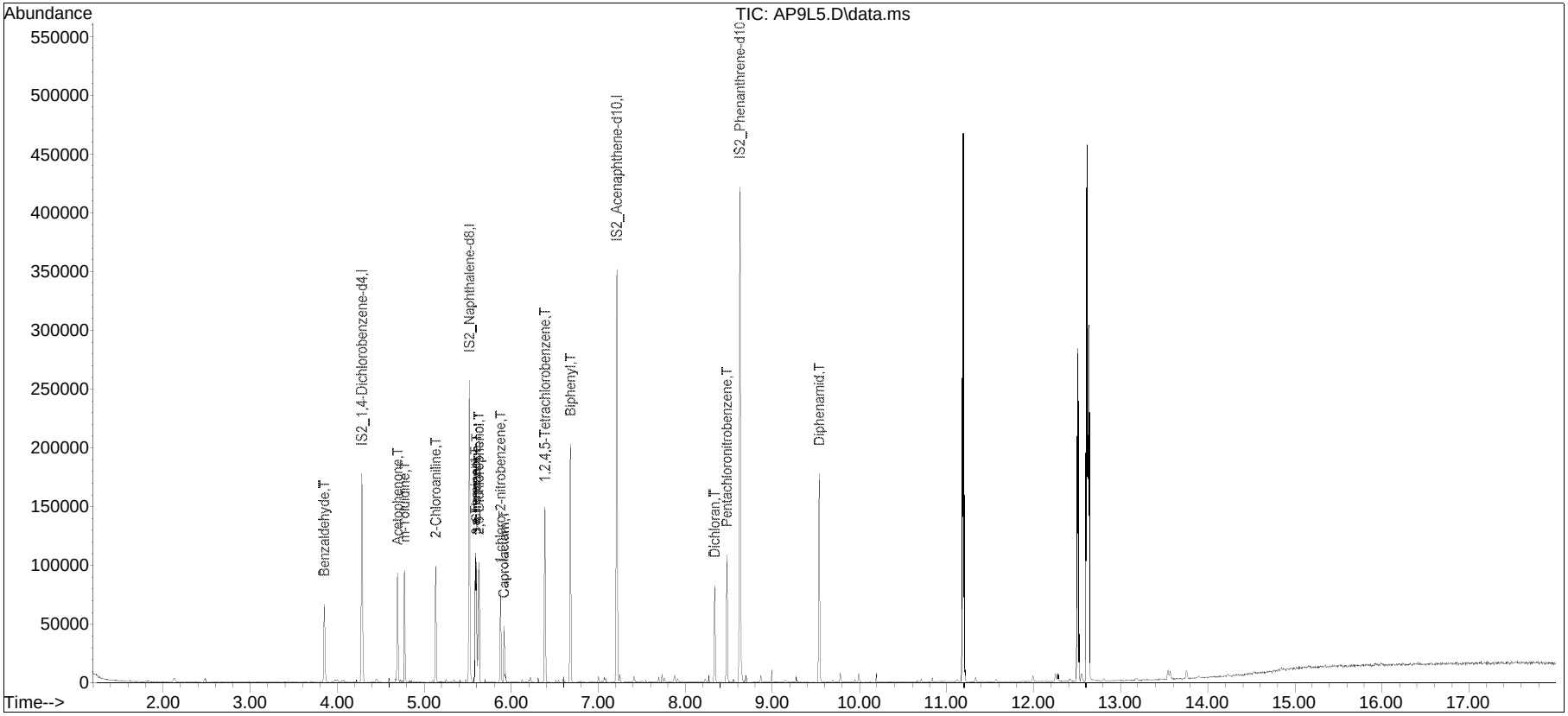
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : AP9L5.D
Acq On : 5 Nov 2024 10:03 pm
Operator : Dakota:HNY
Sample : IL6,32,,AP9L2.5 Lot# 11124
Misc : WG1994500
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 06 09:36:56 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistVTICAL\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\241105RVTICQ	Method	: FS241105RVT_Dakota.m
Data File	: AP9L5.D	Operator	: Dakota:HNY
Date Inj'd	: 11/5/2024 10:03 pm	Instrument	: Dakota
Sample	: IL6,32,,AP9L2.5 Lot# 11124	Quant Date	: 11/6/2024 8:38 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : AP9L4.D
Acq On : 5 Nov 2024 10:26 pm
Operator : Dakota:HNY
Sample : IL7,32,,AP9L1 Lot# 11125
Misc : WG1994500
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 06 09:36:17 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.282	152	28739	4.000	ug/ml	0.00
Standard Area 1 = 28342			Recovery =	101.40%		
57) IS2_Naphthalene-d8	5.520	136	102925	4.000	ug/ml	# 0.00
Standard Area 1 = 98544			Recovery =	104.45%		
85) IS2_Acenaphthene-d10	7.210	164	64341	4.000	ug/ml	0.00
Standard Area 1 = 64361			Recovery =	99.97%		
100) IS2_Phenanthrene-d10	8.621	188	144463	4.000	ug/ml	0.00
Standard Area 1 = 142493			Recovery =	101.38%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	3.850	105	5052	0.851	ug/ml	94
29) Acetophenone	4.699	105	9554	0.857	ug/ml#	80
30) m-Toluidine	4.780	106	7848	0.786	ug/ml	96
31) 2-Chloroaniline	5.134	127	9085	0.867	ug/ml#	91
58) a-Terpineol	5.588	59	5487	0.846	ug/ml#	84
59) 3-Chloroaniline	5.603	65	2869	0.824	ug/ml	93
60) 2,6-Dichlorophenol	5.625	162	7133	0.834	ug/ml#	81
61) 1-chloro-2-nitrobenzene	5.880	111	2926	0.947	ug/ml#	1
62) Caprolactam	5.914	55	2946	0.768	ug/ml#	87
63) 1,2,4,5-Tetrachloroben...	6.387	216	10121	0.809	ug/ml	98
64) Biphenyl	6.679	154	20682	0.818	ug/ml	95
86) Dichloran	8.332	206	2292	0.768	ug/ml#	57
87) Pentachloronitrobenzene	8.475	237	2782	1.432	ug/ml#	70
101) Diphenamid	9.535	167	13612	0.776	ug/ml#	72

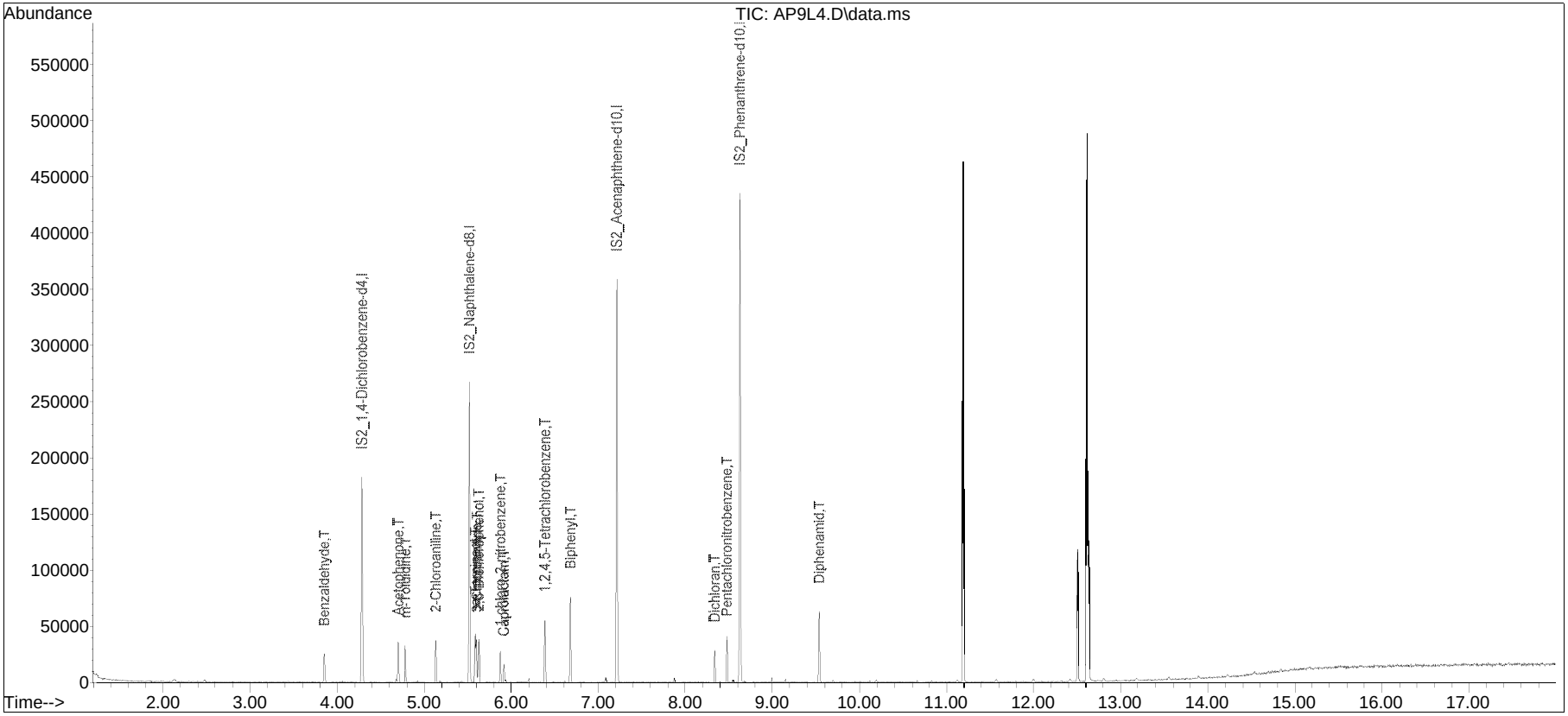
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : AP9L4.D
Acq On : 5 Nov 2024 10:26 pm
Operator : Dakota:HNY
Sample : IL7,32,,AP9L1 Lot# 11125
Misc : WG1994500
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 06 09:36:17 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistVTICAL\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\241105RVTICQ	Method	: FS241105RVT_Dakota.m
Data File	: AP9L4.D	Operator	: Dakota:HNY
Date Inj'd	: 11/5/2024 10:26 pm	Instrument	: Dakota
Sample	: IL7,32,,AP9L1 Lot# 11125	Quant Date	: 11/6/2024 8:38 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : AP9L3.D
Acq On : 5 Nov 2024 10:49 pm
Operator : Dakota:HNY
Sample : IL8,32,,AP9L0.5 Lot# 11126
Misc : WG1994500
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 06 09:35:55 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
	Internal Standards						
27)	IS2_1,4-Dichlorobenzen...	4.282	152	27039	4.000	ug/ml	0.00
	Standard Area 1 = 28342			Recovery = 95.40%			
57)	IS2_Naphthalene-d8	5.519	136	97334	4.000	ug/ml	0.00
	Standard Area 1 = 98544			Recovery = 98.77%			
85)	IS2_Acenaphthene-d10	7.210	164	61265	4.000	ug/ml	0.00
	Standard Area 1 = 64361			Recovery = 95.19%			
100)	IS2_Phenanthrene-d10	8.621	188	138508	4.000	ug/ml	0.00
	Standard Area 1 = 142493			Recovery = 97.20%			
	System Monitoring Compounds						
	Target Compounds						Qvalue
28)	Benzaldehyde	3.850	105	2360	0.423	ug/ml	98
29)	Acetophenone	4.696	105	4756	0.453	ug/ml#	77
30)	m-Toluidine	4.780	106	3649	0.388	ug/ml#	86
31)	2-Chloroaniline	5.134	127	4626	0.469	ug/ml#	88
58)	a-Terpineol	5.588	59	2579	0.420	ug/ml#	74
59)	3-Chloroaniline	5.600	65	1366	0.415	ug/ml	93
60)	2,6-Dichlorophenol	5.625	162	3612	0.447	ug/ml#	77
61)	1-chloro-2-nitrobenzene	5.877	111	1392	0.476	ug/ml#	1
62)	Caprolactam	5.917	55	1361	0.375	ug/ml#	82
63)	1,2,4,5-Tetrachloroben...	6.387	216	5052	0.427	ug/ml#	94
64)	Biphenyl	6.679	154	10707	0.448	ug/ml	96
86)	Dichloran	8.332	206	1010	0.355	ug/ml#	61
87)	Pentachloronitrobenzene	8.478	237	1199	1.030	ug/ml#	76
101)	Diphenamid	9.535	167	6787	0.403	ug/ml#	75

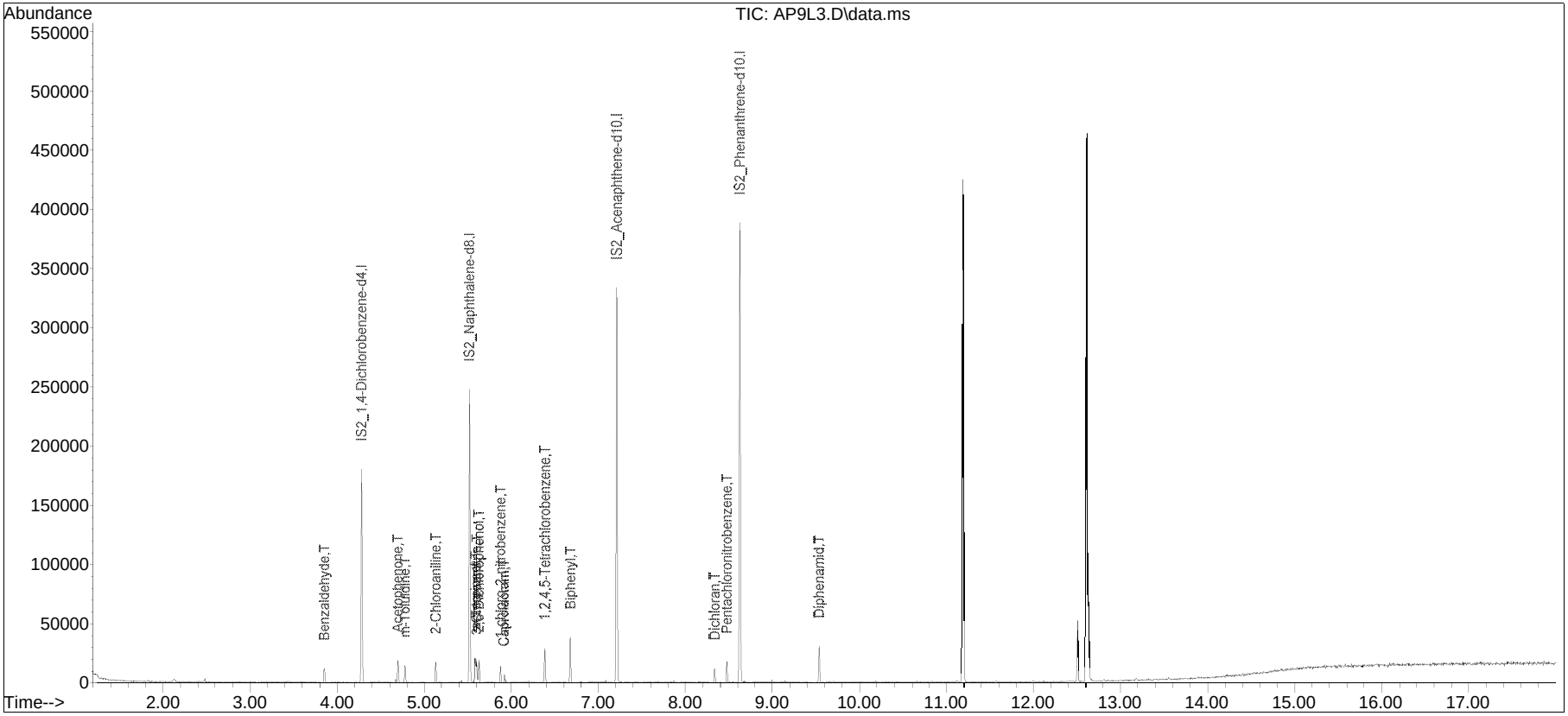
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : AP9L3.D
Acq On : 5 Nov 2024 10:49 pm
Operator : Dakota:HNY
Sample : IL8,32,,AP9L0.5 Lot# 11126
Misc : WG1994500
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 06 09:35:55 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistVTICAL\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\241105RVTICQ	Method	: FS241105RVT_Dakota.m
Data File	: AP9L3.D	Operator	: Dakota:HNY
Date Inj'd	: 11/5/2024 10:49 pm	Instrument	: Dakota
Sample	: IL8,32,,AP9L0.5 Lot# 11126	Quant Date	: 11/6/2024 8:37 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : AP9L2.D
Acq On : 5 Nov 2024 11:13 pm
Operator : Dakota:HNY
Sample : IL9,32,,AP9L0.2 Lot# 11127
Misc : WG1994500
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 06 09:35:06 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
	Internal Standards							
27)	IS2_1,4-Dichlorobenzen...	4.282	152	27477	4.000	ug/ml		0.00
	Standard Area 1 = 28342			Recovery =	96.95%			
57)	IS2_Naphthalene-d8	5.519	136	98352	4.000	ug/ml	#	0.00
	Standard Area 1 = 98544			Recovery =	99.81%			
85)	IS2_Acenaphthene-d10	7.210	164	62816	4.000	ug/ml		0.00
	Standard Area 1 = 64361			Recovery =	97.60%			
100)	IS2_Phenanthrene-d10	8.621	188	141690	4.000	ug/ml		0.00
	Standard Area 1 = 142493			Recovery =	99.44%			
	System Monitoring Compounds							
	Target Compounds							Qvalue
28)	Benzaldehyde	3.854	105	776	0.137	ug/ml		90
29)	Acetophenone	4.699	105	1761	0.165	ug/ml	#	39
30)	m-Toluidine	4.783	106	852	0.089	ug/ml	#	88
31)	2-Chloroaniline	5.134	127	1745	0.174	ug/ml	#	42
58)	a-Terpineol	5.591	59	1032	0.166	ug/ml	#	83
59)	3-Chloroaniline	5.600	65	425M2	0.128	ug/ml		
60)	2,6-Dichlorophenol	5.628	162	1208	0.148	ug/ml	#	82
61)	1-chloro-2-nitrobenzene	5.877	111	446M2	0.151	ug/ml		
62)	Caprolactam	5.930	55	508M2	0.139	ug/ml		
63)	1,2,4,5-Tetrachloroben...	6.383	216	2062	0.172	ug/ml	#	81
64)	Biphenyl	6.679	154	3880	0.161	ug/ml		93
86)	Dichloran	8.332	206	473M2	0.162	ug/ml		
87)	Pentachloronitrobenzene	8.478	237	438M2	0.816	ug/ml		
101)	Diphenamid	9.535	167	2689	0.156	ug/ml	#	71

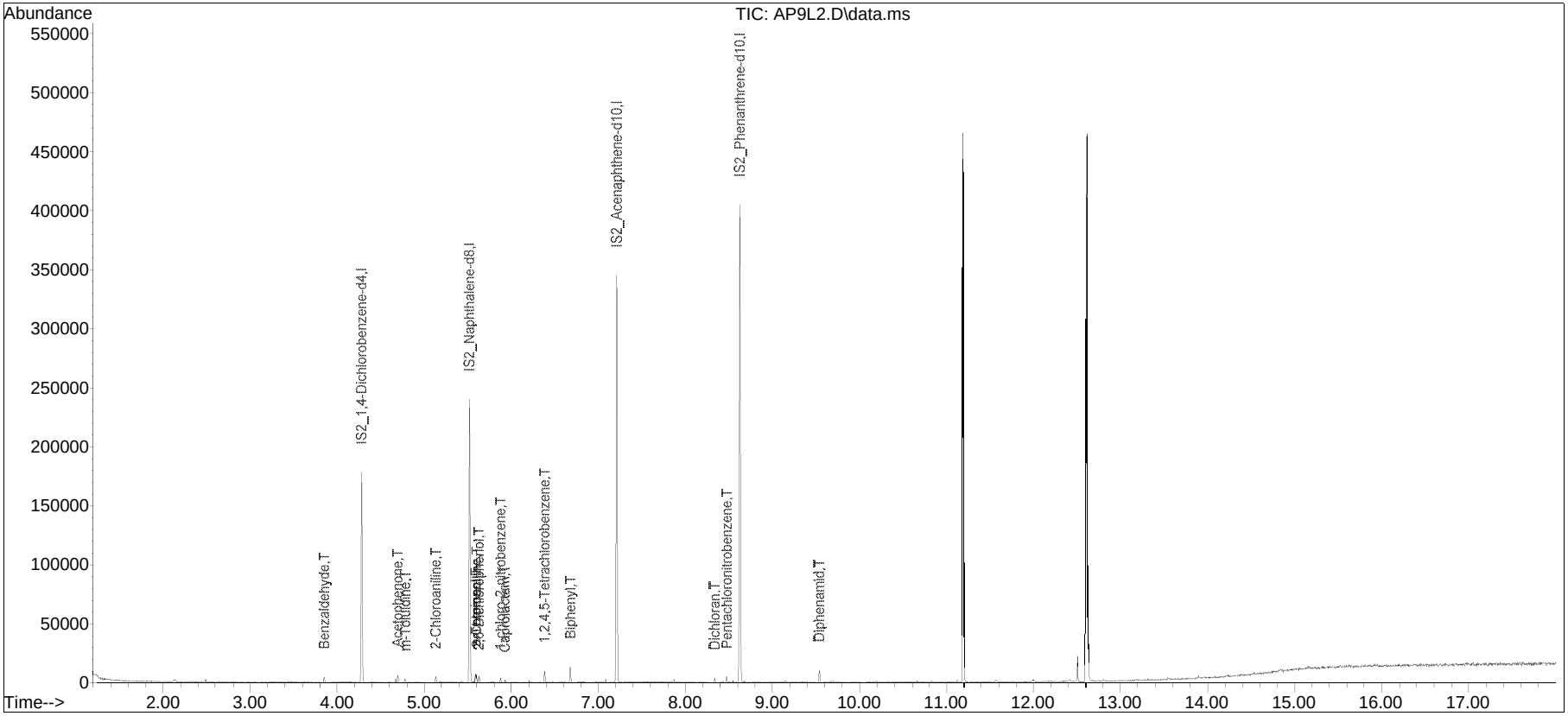
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : AP9L2.D
Acq On : 5 Nov 2024 11:13 pm
Operator : Dakota:HNY
Sample : IL9,32,,AP9L0.2 Lot# 11127
Misc : WG1994500
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 06 09:35:06 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

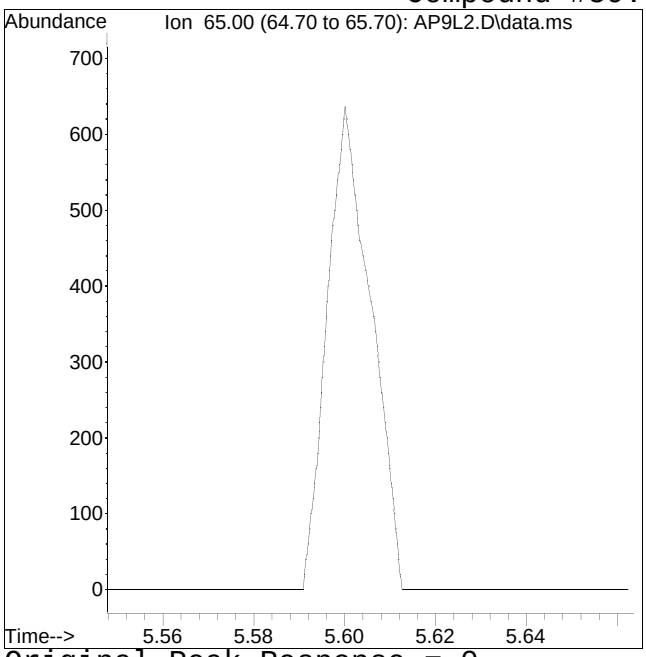
Sub List : AP9ical - AP9 ical sublistVTICAL\AP9L6.D•



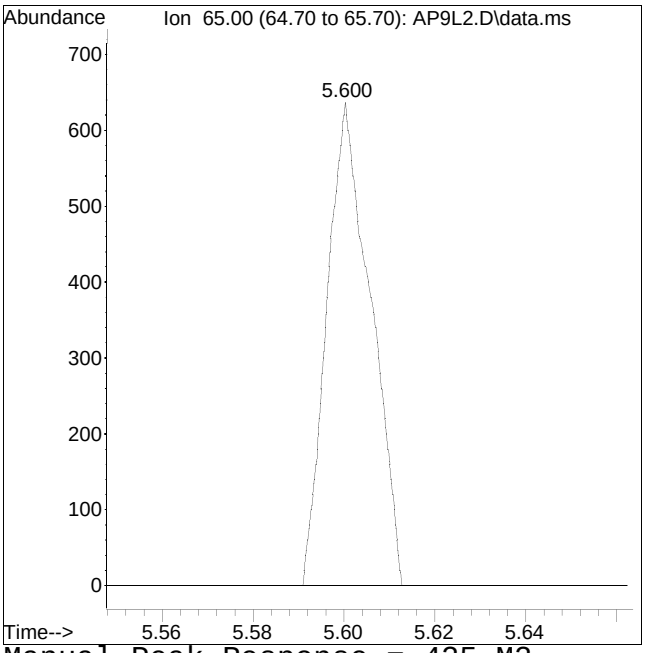
Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQ
Data File : AP9L2.D
Date Inj'd : 11/5/2024 11:13 pm
Sample : IL9,32,,AP9L0.2 Lot# 11127
Method : FS241105RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 11/6/2024 8:37 am

Compound #59: 3-Chloroaniline



Original Peak Response = 0



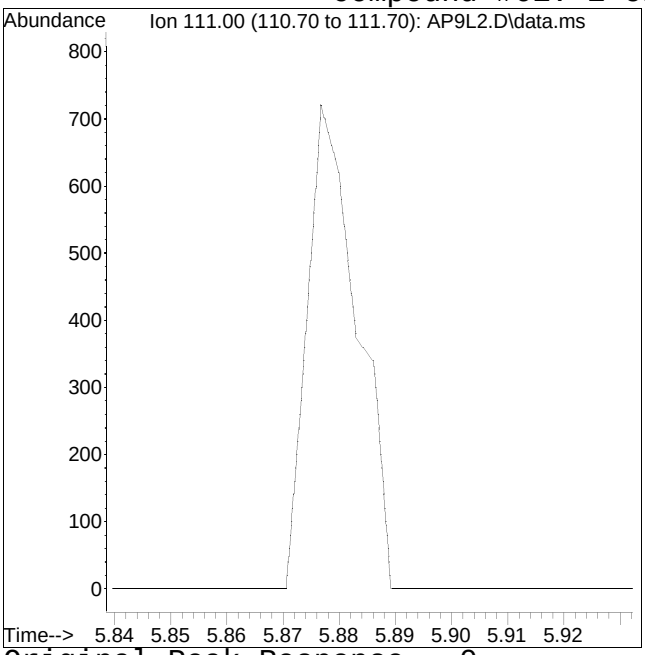
Manual Peak Response = 425 M2

M2 = Peak not found by automatic integration algorithm.

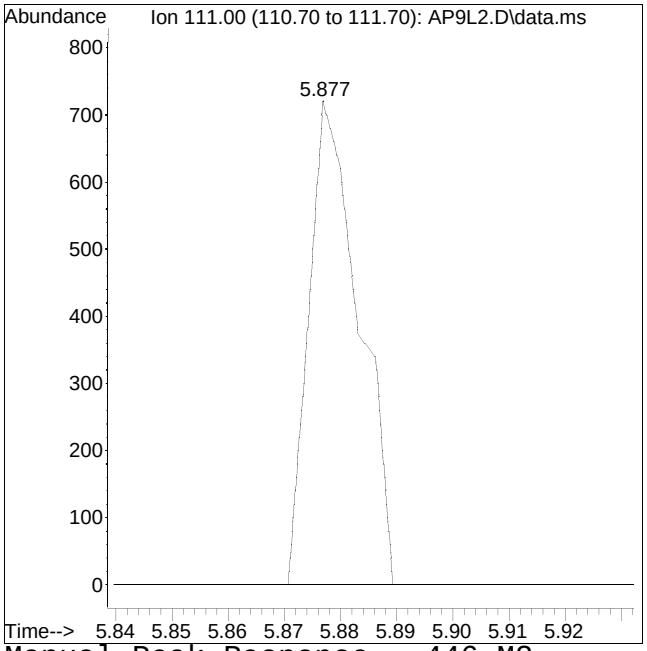
Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQ
Data File : AP9L2.D
Date Inj'd : 11/5/2024 11:13 pm
Sample : IL9,32,,AP9L0.2 Lot# 11127
Method : FS241105RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 11/6/2024 8:37 am

Compound #61: 1-chloro-2-nitrobenzene



Original Peak Response = 0



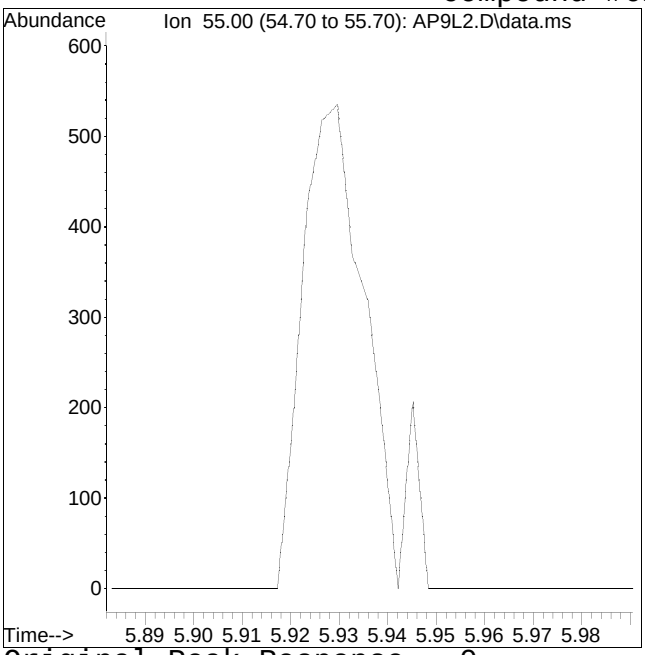
Manual Peak Response = 446 M2

M2 = Peak not found by automatic integration algorithm.

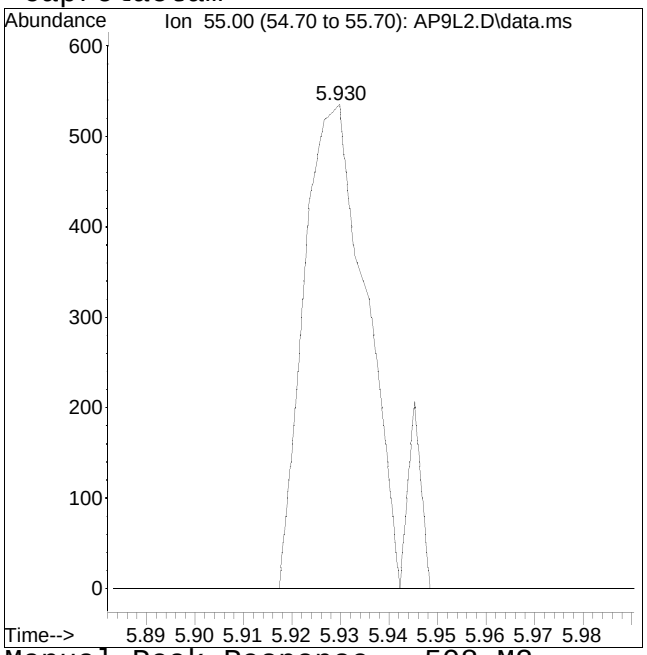
Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQ
Data File : AP9L2.D
Date Inj'd : 11/5/2024 11:13 pm
Sample : IL9,32,,AP9L0.2 Lot# 11127
Method : FS241105RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 11/6/2024 8:37 am

Compound #62: Caprolactam



Original Peak Response = 0



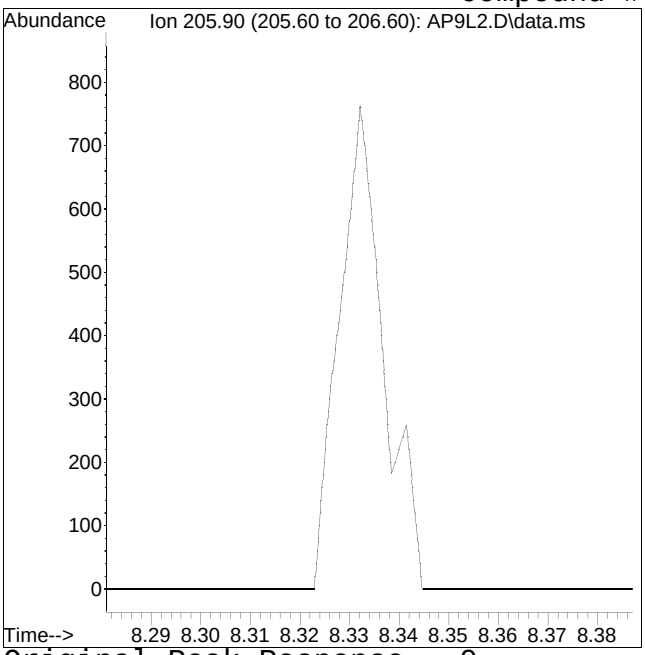
Manual Peak Response = 508 M2

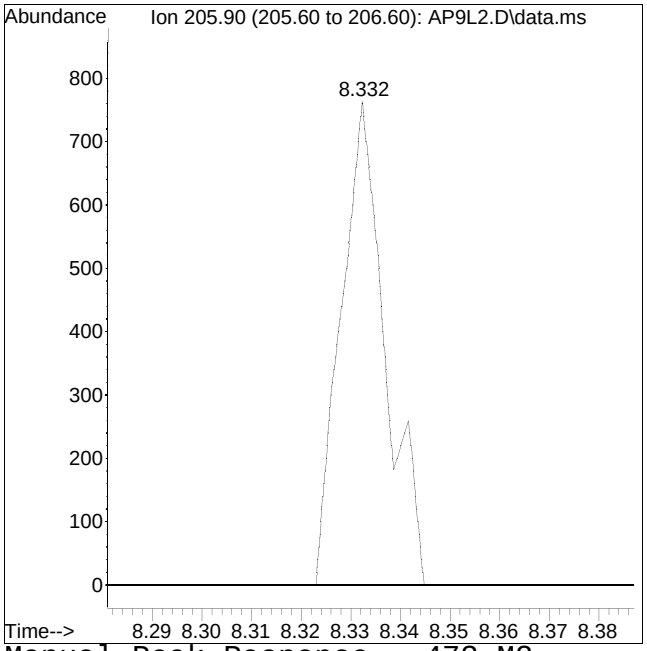
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQ
Data File : AP9L2.D
Date Inj'd : 11/5/2024 11:13 pm
Sample : IL9,32,,AP9L0.2 Lot# 11127
Method : FS241105RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 11/6/2024 8:37 am

Compound #86: Dichloran



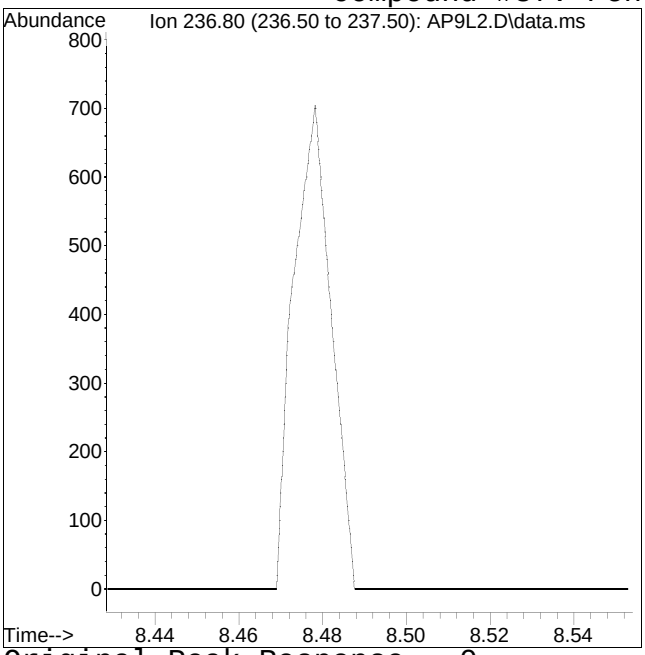


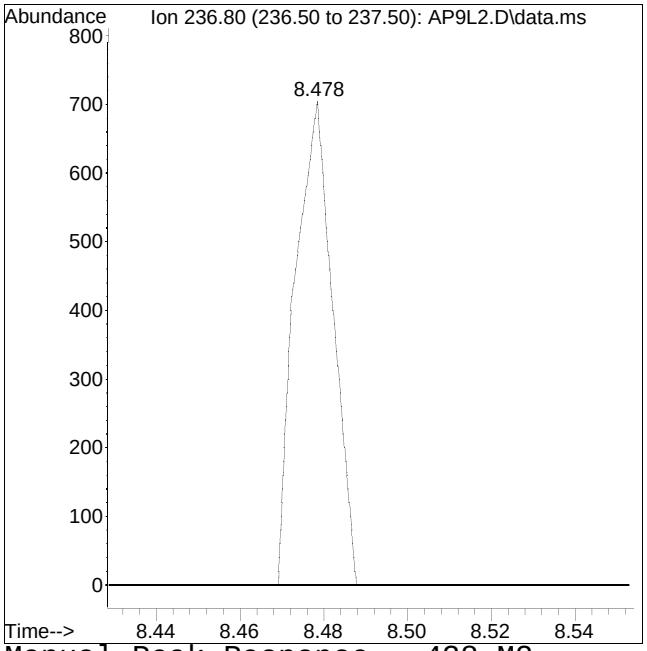
Original Peak Response = 0
Manual Peak Response = 473 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQMethod : FS241105RVT_Dakota.m
Data File : AP9L2.D Operator : Dakota:HNY
Date Inj'd : 11/5/2024 11:13 pm Instrument : Dakota
Sample : IL9,32,,AP9L0.2 Lot# 11127Quant Date : 11/6/2024 8:37 am

Compound #87: Pentachloronitrobenzene





Original Peak Response = 0 Manual Peak Response = 438 M2
M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : AP9L1.D
Acq On : 5 Nov 2024 11:36 pm
Operator : Dakota:HNY
Sample : IL10,32,,AP9L0.1 Lot# 11128
Misc : WG1994500
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 06 09:34:15 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
	Internal Standards							
27)	IS2_1,4-Dichlorobenzen...	4.286	152	28042	4.000	ug/ml		0.00
	Standard Area 1 = 28342			Recovery =	98.94%			
57)	IS2_Naphthalene-d8	5.519	136	99051	4.000	ug/ml	#	0.00
	Standard Area 1 = 98544			Recovery =	100.51%			
85)	IS2_Acenaphthene-d10	7.210	164	62731	4.000	ug/ml		0.00
	Standard Area 1 = 64361			Recovery =	97.47%			
100)	IS2_Phenanthrene-d10	8.621	188	139376	4.000	ug/ml		0.00
	Standard Area 1 = 142493			Recovery =	97.81%			
	System Monitoring Compounds							
	Target Compounds							Qvalue
28)	Benzaldehyde	3.850	105	375M2	0.065	ug/ml		
29)	Acetophenone	4.702	105	776M6	0.071	ug/ml		
30)	m-Toluidine	0.000		0	N.D.			
31)	2-Chloroaniline	5.134	127	756	0.074	ug/ml	#	42
58)	a-Terpineol	5.588	59	402M2	0.064	ug/ml		
59)	3-Chloroaniline	5.603	65	70M2	0.021	ug/ml		
60)	2,6-Dichlorophenol	5.628	162	620	0.075	ug/ml	#	15
61)	1-chloro-2-nitrobenzene	5.880	111	168M2	0.056	ug/ml		
62)	Caprolactam	5.936	55	285M2	0.077	ug/ml		
63)	1,2,4,5-Tetrachloroben...	6.387	216	878	0.073	ug/ml	#	87
64)	Biphenyl	6.679	154	1780	0.073	ug/ml	#	92
86)	Dichloran	8.332	206	178M2	0.061	ug/ml		
87)	Pentachloronitrobenzene	8.478	237	72M2	0.717	ug/ml		
101)	Diphenamid	9.538	167	1208	0.071	ug/ml	#	76

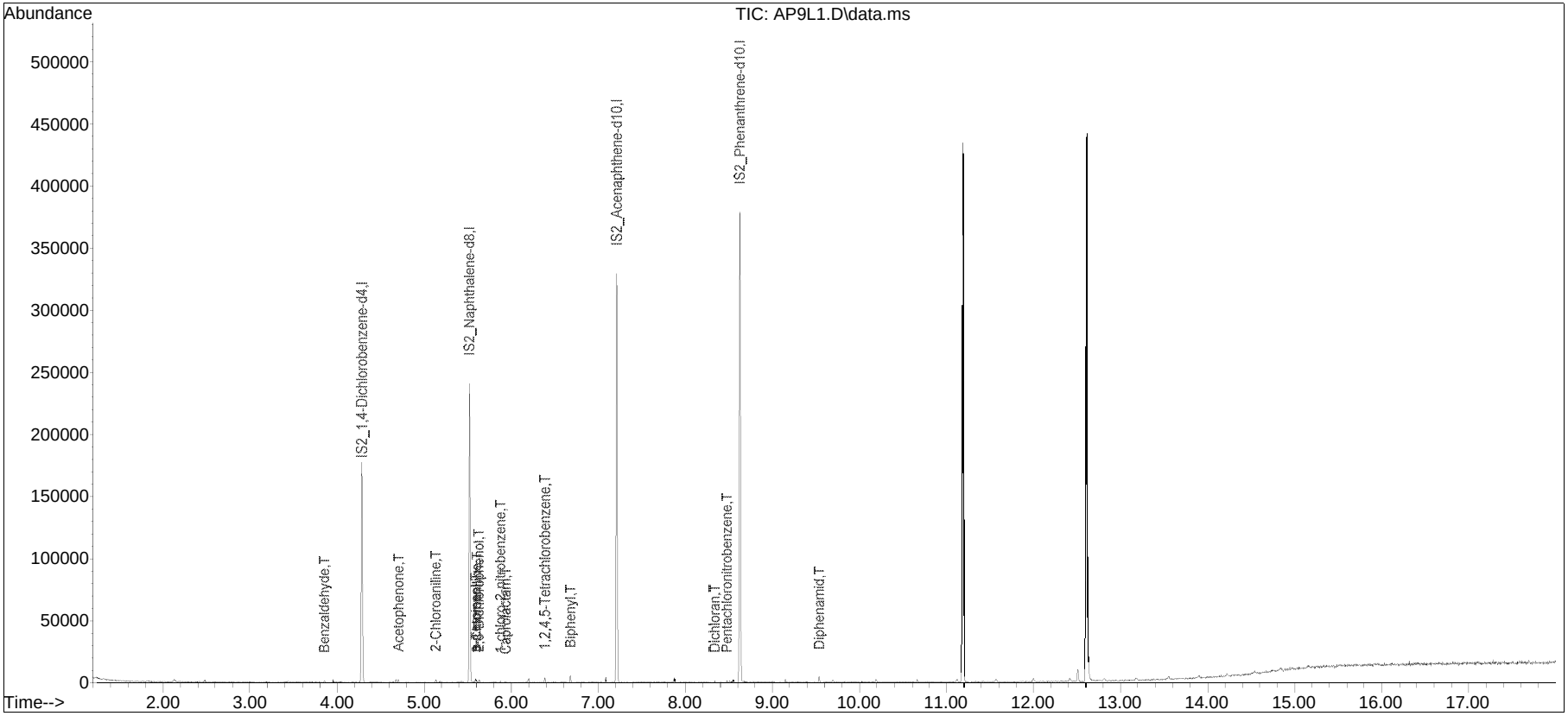
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : AP9L1.D
Acq On : 5 Nov 2024 11:36 pm
Operator : Dakota:HNY
Sample : IL10,32,,AP9L0.1 Lot# 11128
Misc : WG1994500
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 06 09:34:15 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

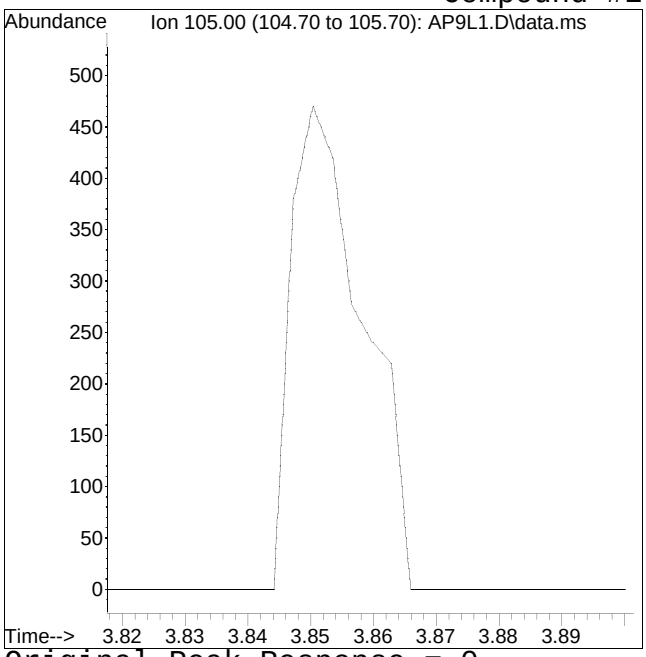
Sub List : AP9ical - AP9 ical sublistVTICAL\AP9L6.D•



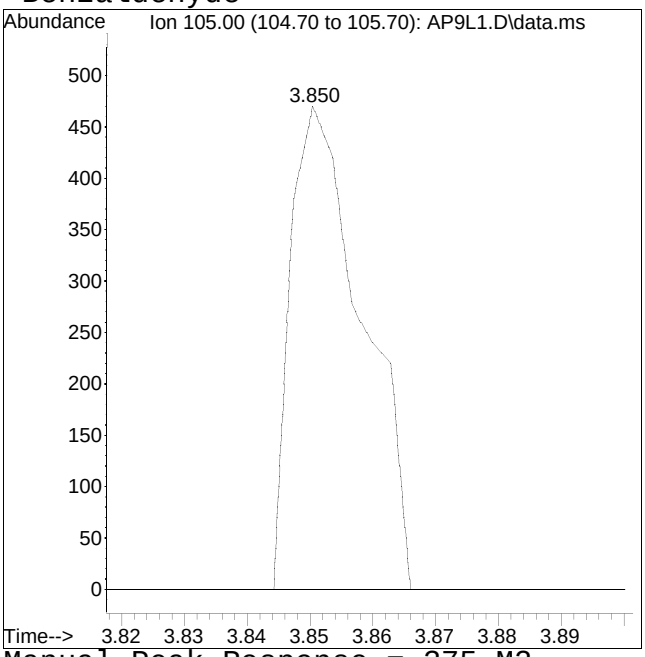
Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQ
Data File : AP9L1.D
Date Inj'd : 11/5/2024 11:36 pm
Sample : IL10,32,,AP9L0.1 Lot# 1112
Method : FS241105RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 11/6/2024 8:37 am

Compound #28: Benzaldehyde



Original Peak Response = 0



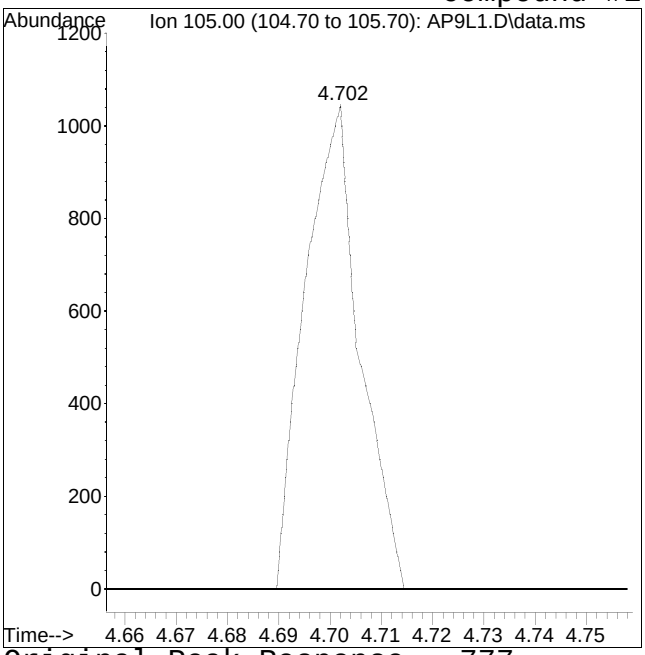
Manual Peak Response = 375 M2

M2 = Peak not found by automatic integration algorithm.

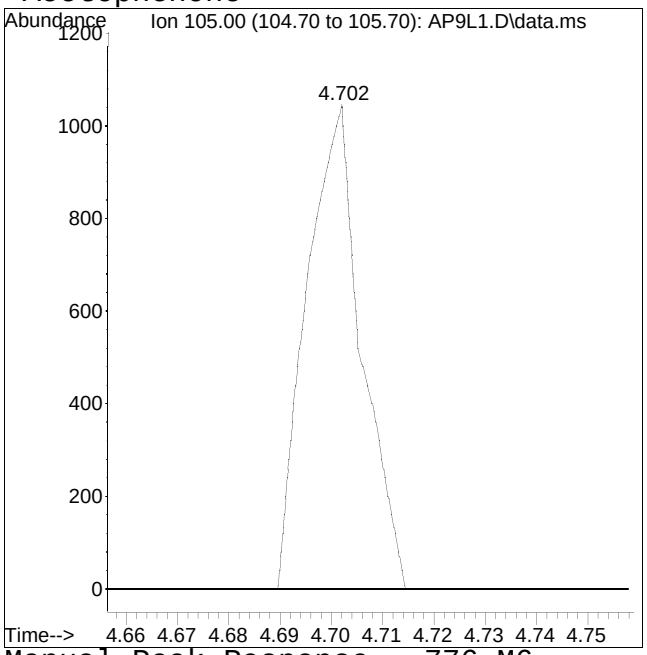
Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQMethod : FS241105RVT_Dakota.m
Data File : AP9L1.D Operator : Dakota:HNY
Date Inj'd : 11/5/2024 11:36 pm Instrument : Dakota
Sample : IL10,32,,AP9L0.1 Lot# 1112Quant Date : 11/6/2024 8:37 am

Compound #29: Acetophenone



Original Peak Response = 777



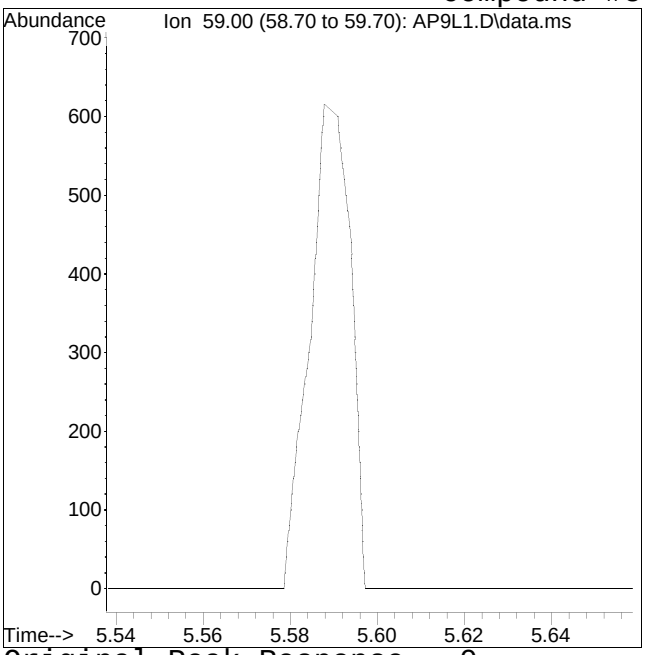
Manual Peak Response = 776 M6

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

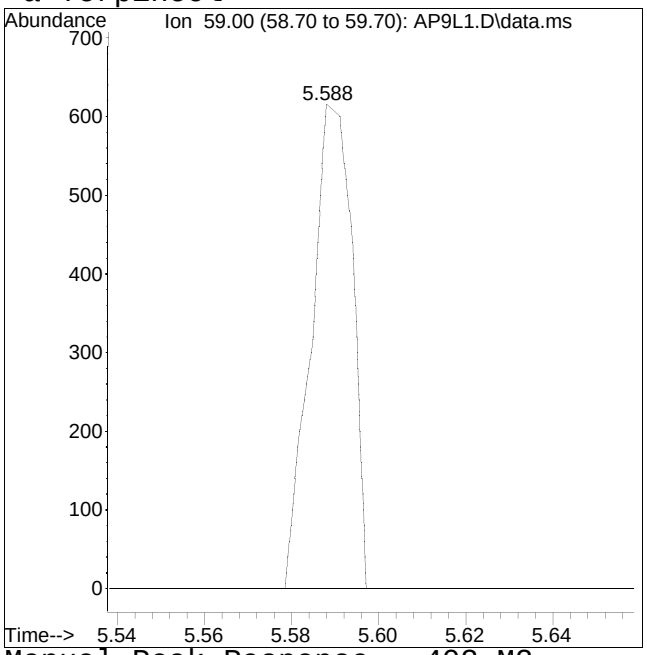
Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQ
Data File : AP9L1.D
Date Inj'd : 11/5/2024 11:36 pm
Sample : IL10,32,,AP9L0.1 Lot# 1112
Method : FS241105RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 11/6/2024 8:37 am

Compound #58: a-Terpineol



Original Peak Response = 0



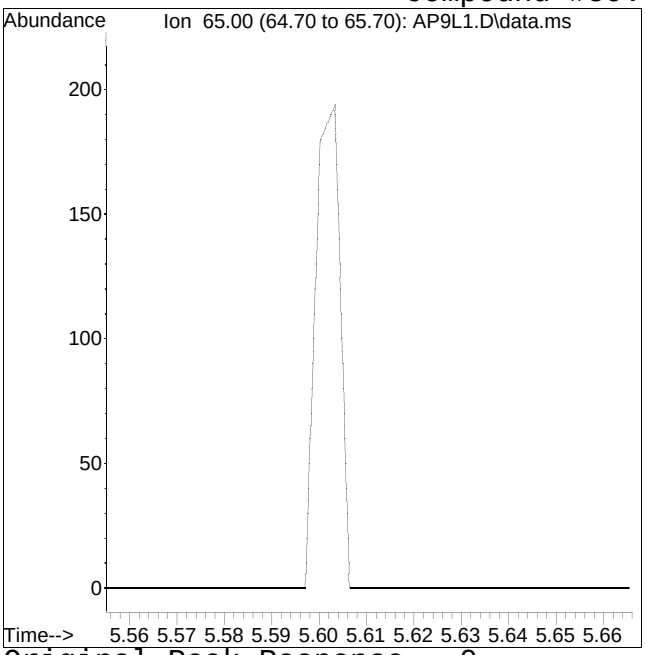
Manual Peak Response = 402 M2

M2 = Peak not found by automatic integration algorithm.

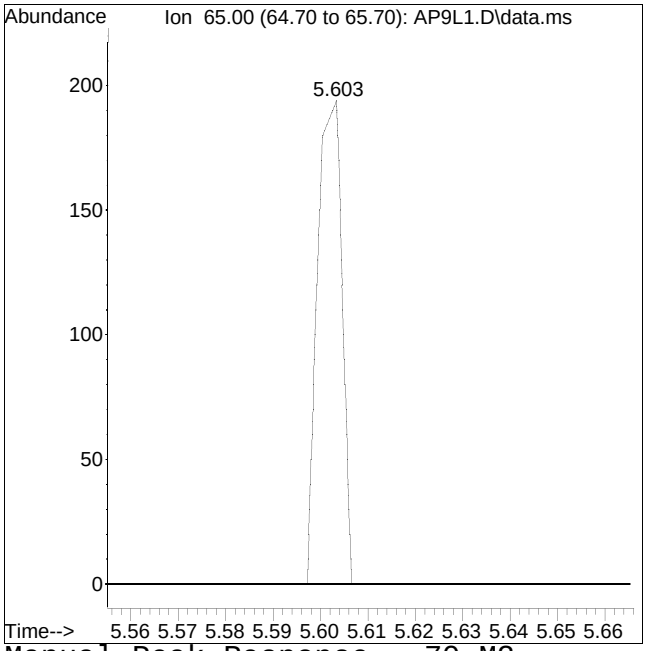
Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQ
Data File : AP9L1.D
Date Inj'd : 11/5/2024 11:36 pm
Sample : IL10,32,,AP9L0.1 Lot# 1112
Method : FS241105RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 11/6/2024 8:37 am

Compound #59: 3-Chloroaniline



Original Peak Response = 0



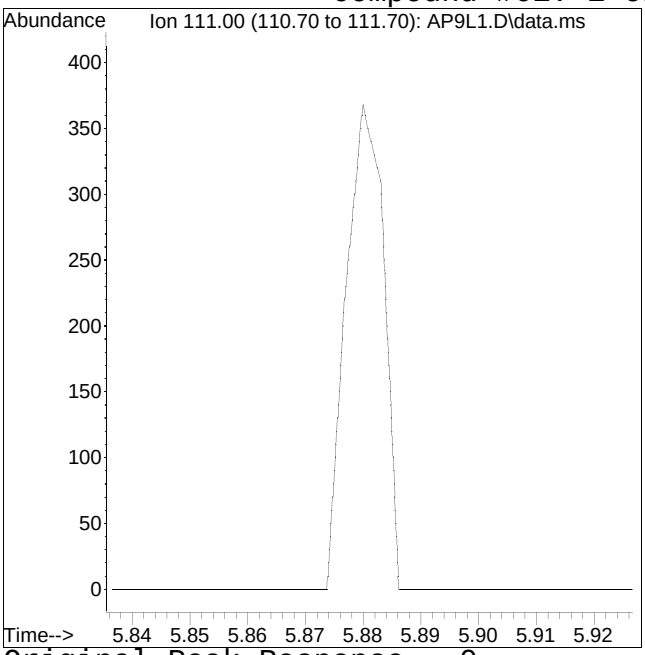
Manual Peak Response = 70 M2

M2 = Peak not found by automatic integration algorithm.

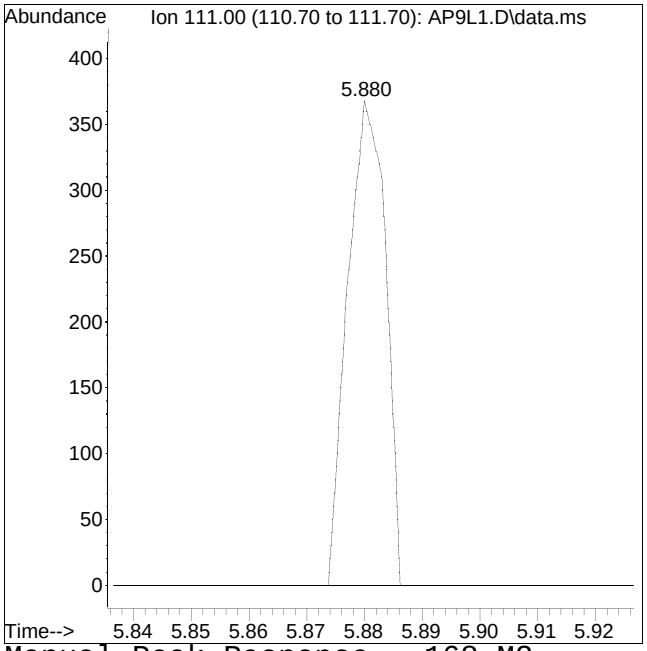
Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQ
Data File : AP9L1.D
Date Inj'd : 11/5/2024 11:36 pm
Sample : IL10,32,,AP9L0.1 Lot# 1112
Method : FS241105RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 11/6/2024 8:37 am

Compound #61: 1-chloro-2-nitrobenzene



Original Peak Response = 0



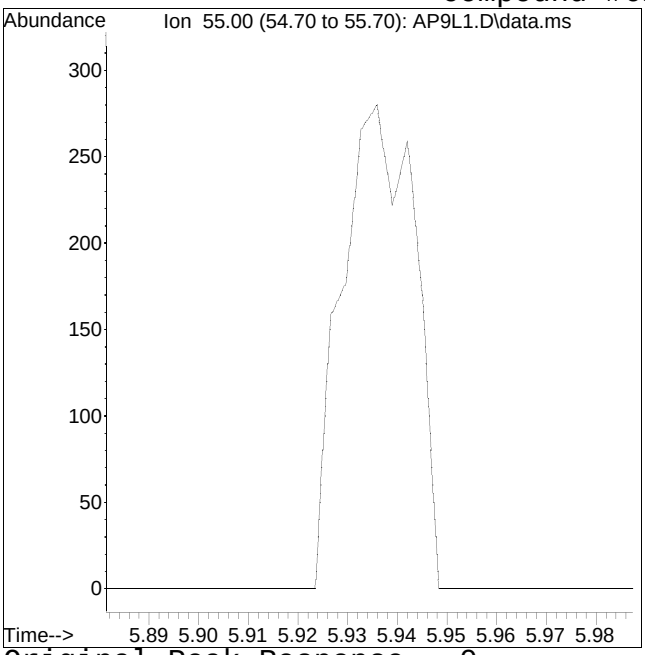
Manual Peak Response = 168 M2

M2 = Peak not found by automatic integration algorithm.

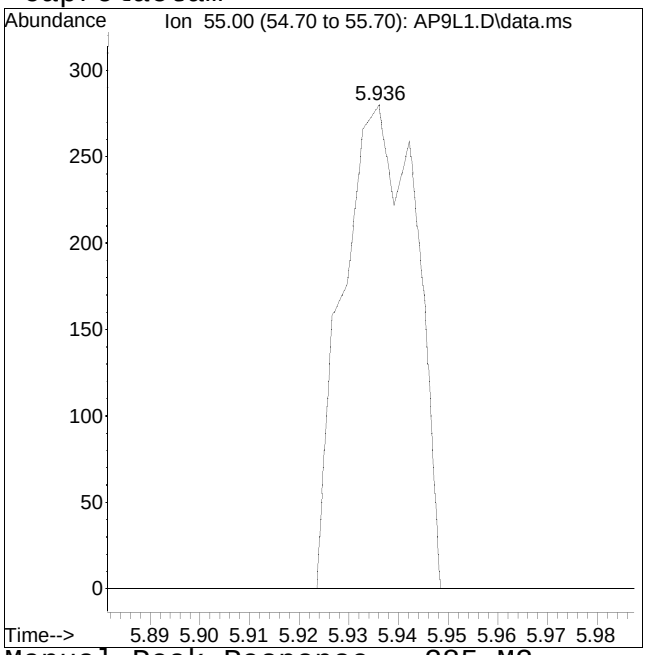
Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQ
Data File : AP9L1.D
Date Inj'd : 11/5/2024 11:36 pm
Sample : IL10,32,,AP9L0.1 Lot# 1112
Method : FS241105RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 11/6/2024 8:37 am

Compound #62: Caprolactam



Original Peak Response = 0



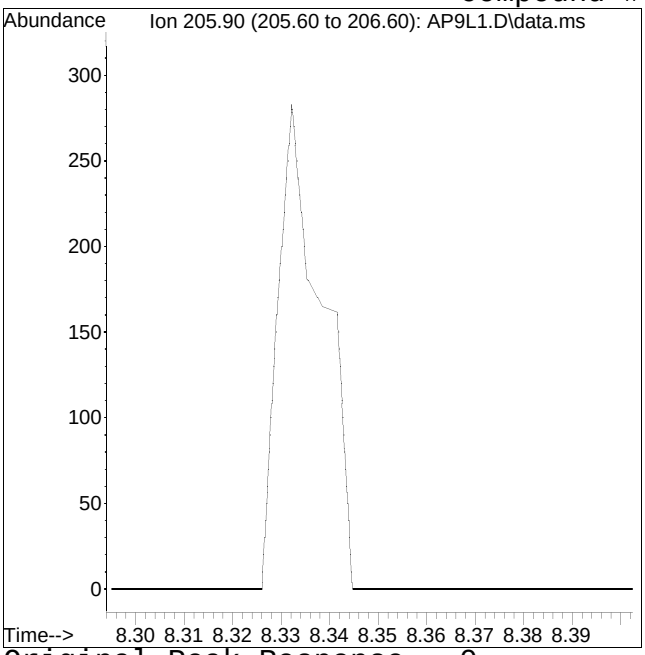
Manual Peak Response = 285 M2

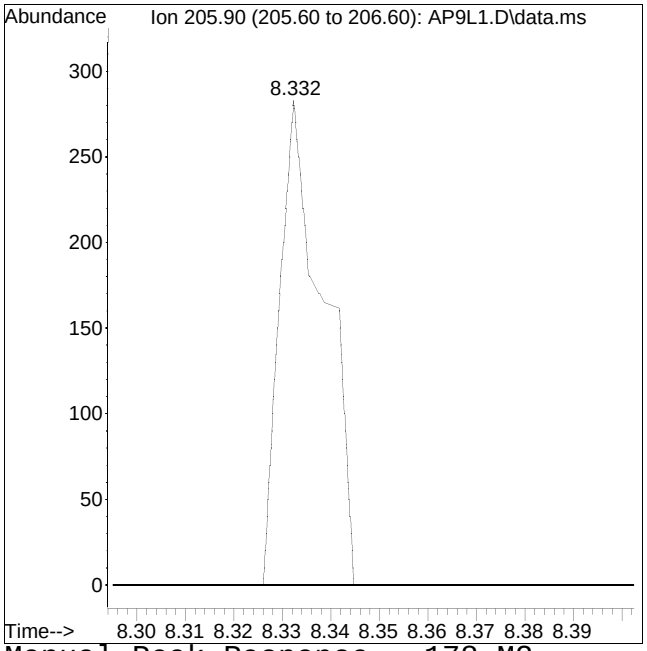
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQ
Data File : AP9L1.D
Date Inj'd : 11/5/2024 11:36 pm
Sample : IL10,32,,AP9L0.1 Lot# 1112
Method : FS241105RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 11/6/2024 8:37 am

Compound #86: Dichloran



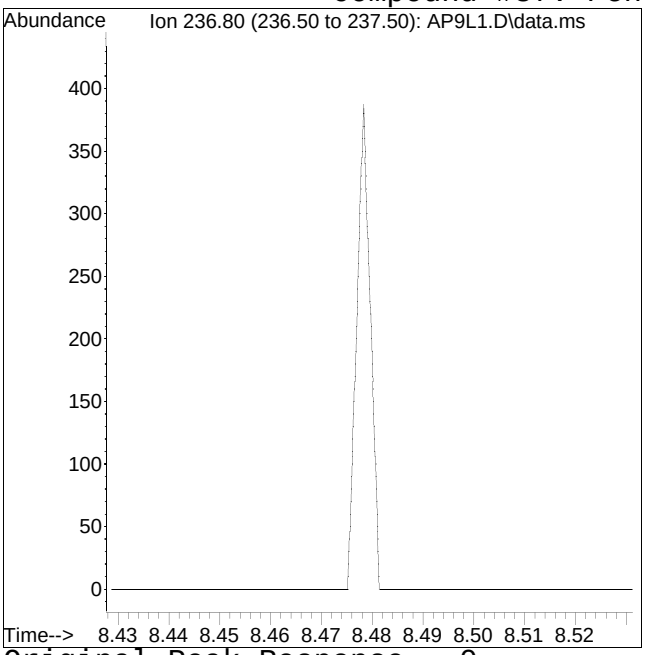


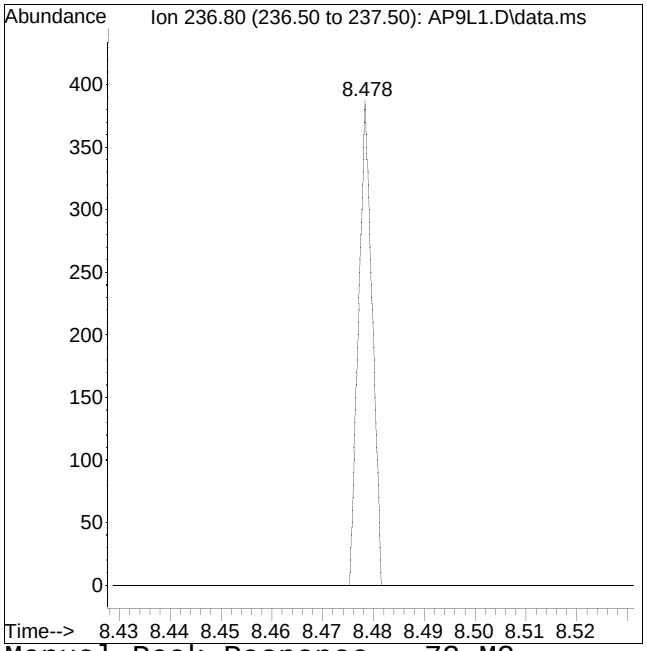
Original Peak Response = 0
Manual Peak Response = 178 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQMethod : FS241105RVT_Dakota.m
Data File : AP9L1.D Operator : Dakota:HNY
Date Inj'd : 11/5/2024 11:36 pm Instrument : Dakota
Sample : IL10,32,,AP9L0.1 Lot# 1112Quant Date : 11/6/2024 8:37 am

Compound #87: Pentachloronitrobenzene





Original Peak Response = 0 Manual Peak Response = 72 M2
M2 = Peak not found by automatic integration algorithm.

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNICV.D
Acq On : 5 Nov 2024 11:59 pm
Operator : Dakota:HNY
Sample : CQICV1,32,,ABNICV Lot# 11138
Misc : WG1994500
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 12 11:52:06 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Nov 12 11:53:08 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00
2	t	n-Nitrosodimethylamine	0.630	0.605	4.0	101	0.00
3	t	Pyridine	0.954	0.757	20.6#	77	0.00
4	S	2-Fluorophenol	1.028	0.968	5.8	100	0.00
5	T	Aniline	1.567	1.337	14.7	90	0.00
6	t	2-Chlorophenol	1.225	1.160	5.3	99	0.00
7	S	Phenol-d6	1.317	1.189	9.7	96	0.00
8	T	Phenol	1.421	1.295	8.9	96	0.00
9	T	Bis(2-chloroethyl)ether	1.017	0.962	5.4	101	0.00
10	T	1,3-Dichlorobenzene	1.577	1.429	9.4	98	0.00
11	T	1,4-Dichlorobenzene	1.610	1.474	8.4	99	0.00
12	T	1,2-Dichlorobenzene	1.534	1.411	8.0	100	0.00
13	t	Benzyl alcohol	0.930	0.869	6.6	99	0.00
14	T	Bis(2-chloroisopropyl)ether	1.794	1.670	6.9	101	0.00
15	T	2-Methylphenol	1.079	0.990	8.2	101	0.00
16	T	Hexachloroethane	0.589	0.529	10.2	101	0.00
17	T	n-Nitrosodi-n-propylamine	0.863	0.773	10.4	98	0.00
18	T	3-Methylphenol/4-Methylphen	1.182	1.061	10.2	99	0.00
19	S	Nitrobenzene-d5	1.195	1.112	6.9	98	0.00
20	T	Nitrobenzene	1.222	1.123	8.1	97	0.00
21	T	Isophorone	2.247	2.012	10.5	96	0.00
22	T	2-Nitrophenol	0.619	0.547	11.6	94	0.00
23	T	2,4-Dimethylphenol	1.101	0.834	24.3#	81	0.00
24	T	Bis(2-chloroethoxy)methane	1.400	1.314	6.1	100	0.00
25	T	2,4-Dichlorophenol	1.285	1.170	8.9	97	0.00
26	T	1,2,4-Trichlorobenzene	1.555	1.418	8.8	99	0.00
37	I	IS1_Naphthalene-d8	1.000	1.000	0.0	104	0.00
38	T	Naphthalene	1.100	0.979	11.0	100	0.00
39	T	Benzoic Acid	0.228	0.175	23.2#	88	0.00
40	T	4-Chloroaniline	0.121	0.104	14.0	92	0.00
41	T	Hexachlorobutadiene	0.258	0.240	7.0	100	0.00
42	T	p-Chloro-m-cresol	0.290	0.261	10.0	97	0.00
43	T	2-Methylnaphthalene	0.761	0.690	9.3	102	0.00
44	T	1-Methylnaphthalene	0.242	0.219	9.5	98	0.00
45	T	Hexachlorocyclopentadiene	0.272	0.211	22.4#	81	0.00
46	T	2,4,6-Trichlorophenol	0.287	0.262	8.7	98	0.00
47	T	2,4,5-Trichlorophenol	0.320	0.284	11.3	98	0.00
48	S	2-Fluorobiphenyl	0.990	0.872	11.9	99	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNICV.D
Acq On : 5 Nov 2024 11:59 pm
Operator : Dakota:HNY
Sample : CQICV1,32,,ABNICV Lot# 11138
Misc : WG1994500
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 12 11:52:06 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Nov 12 11:53:08 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	2-Chloronaphthalene		0.852	0.739	13.3	96	0.00
50	T	2-Nitroaniline		0.218	0.194	11.0	93	0.00
51	T	1,4-Dinitrobenzene		0.095	0.085	10.5	94	0.00
52	T	1,3-Dinitrobenzene		0.113	0.101	10.6	91	0.00
53	T	Dimethyl phthalate		0.991	0.879	11.3	99	0.00
54	T	Acenaphthylene		1.252	1.111	11.3	98	0.00
55	T	2,6-Dinitrotoluene		0.185	0.166	10.3	93	0.00
56	T	1,2-Dinitrobenzene		0.066	0.068	-3.0	101	0.00
65	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	103	0.00
66	T	3-Nitroaniline		0.309	0.291	5.8	97	0.00
67	T	Acenaphthene		1.163	0.993	14.6	97	0.00
68	T	2,4-Dinitrophenol	*	5.000	4.126	17.5	92	0.00
69	T	Dibenzofuran		2.006	1.787	10.9	101	0.00
70	T	2,4-Dinitrotoluene		0.387	0.375	3.1	96	0.00
71	T	4-Nitrophenol		0.230	0.215	6.5	95	0.00
72	T	2,3,5,6-Tetrachlorophenol		0.436	0.395	9.4	96	0.00
73	T	2,3,4,6-Tetrachlorophenol		0.428	0.396	7.5	99	0.00
74	T	Diethyl phthalate		1.575	1.380	12.4	99	0.00
75	T	Fluorene		1.536	1.359	11.5	99	0.00
76	T	4-Chlorophenyl phenyl ether		0.792	0.702	11.4	100	0.00
77	T	4-Nitroaniline		0.299	0.300	-0.3	99	0.00
78	T	4,6-Dinitro-o-cresol		0.234	0.216	7.7	92	0.00
79	T	NDPA/DPA		1.337	1.176	12.0	100	0.00
80	T	Azobenzene		1.281	1.179	8.0	100	0.00
81	S	2,4,6-Tribromophenol		0.286	0.269	5.9	102	0.00
82	T	4-Bromophenyl phenyl ether		0.522	0.455	12.8	99	0.00
83	T	Hexachlorobenzene		0.656	0.553	15.7	98	0.00
84	T	Pentachlorophenol		0.356	0.324	9.0	94	0.00
90	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	102	0.00
91	T	Phenanthrene		1.183	1.044	11.7	98	0.00
92	T	Anthracene		1.160	1.061	8.5	100	0.00
93	T	Carbazole		1.064	0.982	7.7	98	0.00
94	T	Di-n-butylphthalate		1.207	1.119	7.3	97	0.00
95	T	Fluoranthene		1.422	1.289	9.4	100	0.00
96	T	Benzidine		0.772	0.715	7.4	91	0.00
97	T	Pyrene		1.520	1.421	6.5	102	0.00
98	S	4-Terphenyl-d14		1.157	1.045	9.7	100	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNICV.D
Acq On : 5 Nov 2024 11:59 pm
Operator : Dakota:HNY
Sample : CQICV1,32,,ABNICV Lot# 11138
Misc : WG1994500
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 12 11:52:06 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Nov 12 11:53:08 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
99	T	Butyl benzyl phthalate	0.517	0.492	4.8	97	0.00
106	I	IS1_Chrysene-d12	1.000	1.000	0.0	102	0.00
107	T	Benzo(a)anthracene	1.355	1.205	11.1	99	0.00
108	T	3,3'-Dichlorobenzidine	0.505	0.480	5.0	98	0.00
109	T	Chrysene	1.349	1.187	12.0	99	0.00
110	T	Bis(2-ethylhexyl)phthalate	0.726	0.689	5.1	96	0.00
111	T	Di-n-octylphthalate	1.212	1.150	5.1	97	0.00
112	T	Benzo(b)fluoranthene	1.420	1.274	10.3	99	0.00
113	T	Benzo(k)fluoranthene	1.383	1.303	5.8	99	0.00
114	T	Benzo(a)pyrene	1.267	1.183	6.6	98	0.00
115	I	IS1_Perylene-d12	1.000	1.000	0.0	102	0.00
116	T	Indeno(1,2,3-cd)pyrene	1.234	1.129	8.5	98	0.00
117	T	Dibenzo(a,h)anthracene	1.213	1.133	6.6	99	0.00
118	T	Benzo(ghi)perylene	1.192	1.061	11.0	97	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNICV.D
Acq On : 5 Nov 2024 11:59 pm
Operator : Dakota:HNY
Sample : CQICV1,32,,ABNICV Lot# 11138
Misc : WG1994500
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 11 15:34:43 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Nov 11 15:34:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL7.D
: 2 - I:\8270\Dakota\241105RVTICAL\ADPL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.283	152	29942	4.000	ug/ml	0.00
Standard Area 1 = 30017			Recovery = 99.75%			
37) IS1_Naphthalene-d8	5.520	136	111727	4.000	ug/ml	0.00
Standard Area 1 = 110693			Recovery = 100.93%			
65) IS1_Acenaphthene-d10	7.210	164	71834	4.000	ug/ml	0.00
Standard Area 1 = 71339			Recovery = 100.69%			
90) IS1_Phenanthrene-d10	8.625	188	153221	4.000	ug/ml	0.00
Standard Area 1 = 152962			Recovery = 100.17%			
106) IS1_Chrysene-d12	11.192	240	177321	4.000	ug/ml	0.00
Standard Area 1 = 173819			Recovery = 102.01%			
115) IS1_Perylene-d12	12.609	264	206959	4.000	ug/ml	0.00
Standard Area 1 = 202944			Recovery = 101.98%			
System Monitoring Compounds						
4) 2-Fluorophenol	2.996	112	36238	4.708	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 235.40%#			
7) Phenol-d6	3.984	99	44501	4.514	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 225.70%#			
19) Nitrobenzene-d5	4.833	82	41614	4.652	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 465.20%#			
48) 2-Fluorobiphenyl	6.592	172	121772	4.404	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 440.40%#			
81) 2,4,6-Tribromophenol	7.969	330	24120	4.697	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 234.85%#			
98) 4-Terphenyl-d14	10.191	244	200195	4.515	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 451.50%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.600	74	22641	4.799	ug/ml#	79
3) Pyridine	1.641	79	28316M1	3.965	ug/ml	
5) Aniline	3.969	93	50034	4.266	ug/ml	95
6) 2-Chlorophenol	4.077	128	43409	4.734	ug/ml#	87
8) Phenol	3.997	94	48485	4.559	ug/ml	96
9) Bis(2-chloroethyl)ether	4.056	93	36003	4.728	ug/ml	99
10) 1,3-Dichlorobenzene	4.224	146	53479	4.532	ug/ml	94
11) 1,4-Dichlorobenzene	4.298	146	55162	4.578	ug/ml	94
12) 1,2-Dichlorobenzene	4.447	146	52815	4.599	ug/ml	94
13) Benzyl alcohol	4.450	79	32533	4.673	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNICV.D
Acq On : 5 Nov 2024 11:59 pm
Operator : Dakota:HNY
Sample : CQICV1,32,,ABNICV Lot# 11138
Misc : WG1994500
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 11 15:34:43 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Nov 11 15:34:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL7.D
: 2 - I:\8270\Dakota\241105RVTICAL\ADPL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
14) Bis(2-chloroisopropyl)...	4.593	45	62522	4.656	ug/ml#	63
15) 2-Methylphenol	4.590	108	37053	4.586	ug/ml	100
16) Hexachloroethane	4.771	117	19810	4.490	ug/ml#	48
17) n-Nitrosodi-n-propylamine	4.721	70	28948	4.483	ug/ml#	87
18) 3-Methylphenol/4-Methy...	4.749	108	39726	4.488	ug/ml	100
20) Nitrobenzene	4.848	77	42031	4.594	ug/ml	97
21) Isophorone	5.094	82	75307	4.477	ug/ml	95
22) 2-Nitrophenol	5.165	139	20467	4.419	ug/ml#	86
23) 2,4-Dimethylphenol	5.255	107	31220	3.789	ug/ml	99
24) Bis(2-chloroethoxy)met...	5.339	93	49166	4.692	ug/ml#	97
25) 2,4-Dichlorophenol	5.405	162	43788	4.552	ug/ml#	92
26) 1,2,4-Trichlorobenzene	5.479	180	53081	4.560	ug/ml	96
38) Naphthalene	5.538	128	136778	4.451	ug/ml	99
39) Benzoic Acid	5.346	105	24373	3.831	ug/ml	92
40) 4-Chloroaniline	5.622	65	14569	4.314	ug/ml#	63
41) Hexachlorobutadiene	5.697	225	33536	4.646	ug/ml	99
42) p-Chloro-m-cresol	6.126	107	36518	4.511	ug/ml	91
43) 2-Methylnaphthalene	6.216	142	96343	4.531	ug/ml	95
44) 1-Methylnaphthalene	6.309	115	30554	4.519	ug/ml	93
45) Hexachlorocyclopentadiene	6.390	237	29425	3.870	ug/ml	99
46) 2,4,6-Trichlorophenol	6.508	196	36634	4.577	ug/ml	98
47) 2,4,5-Trichlorophenol	6.536	196	39640	4.429	ug/ml	99
49) 2-Chloronaphthalene	6.676	162	103138	4.332	ug/ml	93
50) 2-Nitroaniline	6.794	138	27096	4.447	ug/ml#	78
51) 1,4-Dinitrobenzene	6.928	168	11911	4.501	ug/ml	83
52) 1,3-Dinitrobenzene	7.002	168	14057	4.435	ug/ml#	1
53) Dimethyl phthalate	7.005	163	122829	4.438	ug/ml#	98
54) Acenaphthylene	7.067	152	155180	4.438	ug/ml	99
55) 2,6-Dinitrotoluene	7.043	165	23242	4.499	ug/ml#	79
56) 1,2-Dinitrobenzene	7.080	168	9499	5.134	ug/ml#	1
66) 3-Nitroaniline	7.192	138	26098	4.705	ug/ml#	86
67) Acenaphthene	7.238	154	89205	4.270	ug/ml	87
68) 2,4-Dinitrophenol	7.291	184	13757	4.126	ug/ml#	80
69) Dibenzofuran	7.409	168	160445	4.454	ug/ml	90
70) 2,4-Dinitrotoluene	7.425	165	33658	4.841	ug/ml#	80
71) 4-Nitrophenol	7.394	65	19325	4.673	ug/ml#	28
72) 2,3,5,6-Tetrachlorophenol	7.506	232	35437	4.522	ug/ml	98
73) 2,3,4,6-Tetrachlorophenol	7.543	232	35578	4.631	ug/ml	98
74) Diethyl phthalate	7.689	149	123901	4.382	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNICV.D
Acq On : 5 Nov 2024 11:59 pm
Operator : Dakota:HNY
Sample : CQICV1,32,,ABNICV Lot# 11138
Misc : WG1994500
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 11 15:34:43 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Nov 11 15:34:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ABNL7.D
: 2 - I:\8270\Dakota\241105RVTICAL\ADPL7.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	Fluorene	7.736	166	122050	4.424	ug/ml	92
76)	4-Chlorophenyl phenyl ...	7.764	204	63042	4.434	ug/ml#	86
77)	4-Nitroaniline	7.773	138	26907	5.018	ug/ml#	77
78)	4,6-Dinitro-o-cresol	7.810	198	19382	4.612	ug/ml#	59
79)	NDPA/DPA	7.879	169	105614	4.400	ug/ml	93
80)	Azobenzene	7.910	77	105841	4.602	ug/ml	98
82)	4-Bromophenyl phenyl e...	8.227	248	40811	4.357	ug/ml#	79
83)	Hexachlorobenzene	8.267	284	49668	4.213	ug/ml#	80
84)	Pentachlorophenol	8.463	266	29051	4.546	ug/ml	99
91)	Phenanthrene	8.646	178	199979	4.414	ug/ml	99
92)	Anthracene	8.693	178	203231	4.574	ug/ml	99
93)	Carbazole	8.867	167	188138	4.614	ug/ml	98
94)	Di-n-butylphthalate	9.271	149	214371	4.637	ug/ml#	98
95)	Fluoranthene	9.781	202	246949	4.533	ug/ml#	91
96)	Benzidine	9.946	184	136878	4.630	ug/ml#	95
97)	Pyrene	9.989	202	272087	4.674	ug/ml	99
99)	Butyl benzyl phthalate	10.707	149	94148	4.755	ug/ml#	83
107)	Benzo(a)anthracene	11.183	228	267033	4.445	ug/ml	99
108)	3,3'-Dichlorobenzidine	11.195	252	106445	4.756	ug/ml#	95
109)	Chrysene	11.217	228	263085	4.399	ug/ml	98
110)	Bis(2-ethylhexyl)phtha...	11.335	149	152756	4.744	ug/ml#	89
111)	Di-n-octylphthalate	11.994	149	254994	4.747	ug/ml#	72
112)	Benzo(b)fluoranthene	12.252	252	282392	4.487	ug/ml#	94
113)	Benzo(k)fluoranthene	12.280	252	288769	4.709	ug/ml#	93
114)	Benzo(a)pyrene	12.553	252	262323	4.671	ug/ml#	93
116)	Indeno(1,2,3-cd)pyrene	13.545	276	292191	4.576	ug/mL#	89
117)	Dibenzo(a,h)anthracene	13.570	278	293099	4.671	ug/ml#	89
118)	Benzo(ghi)perylene	13.753	276	274527	4.451	ug/ml#	86

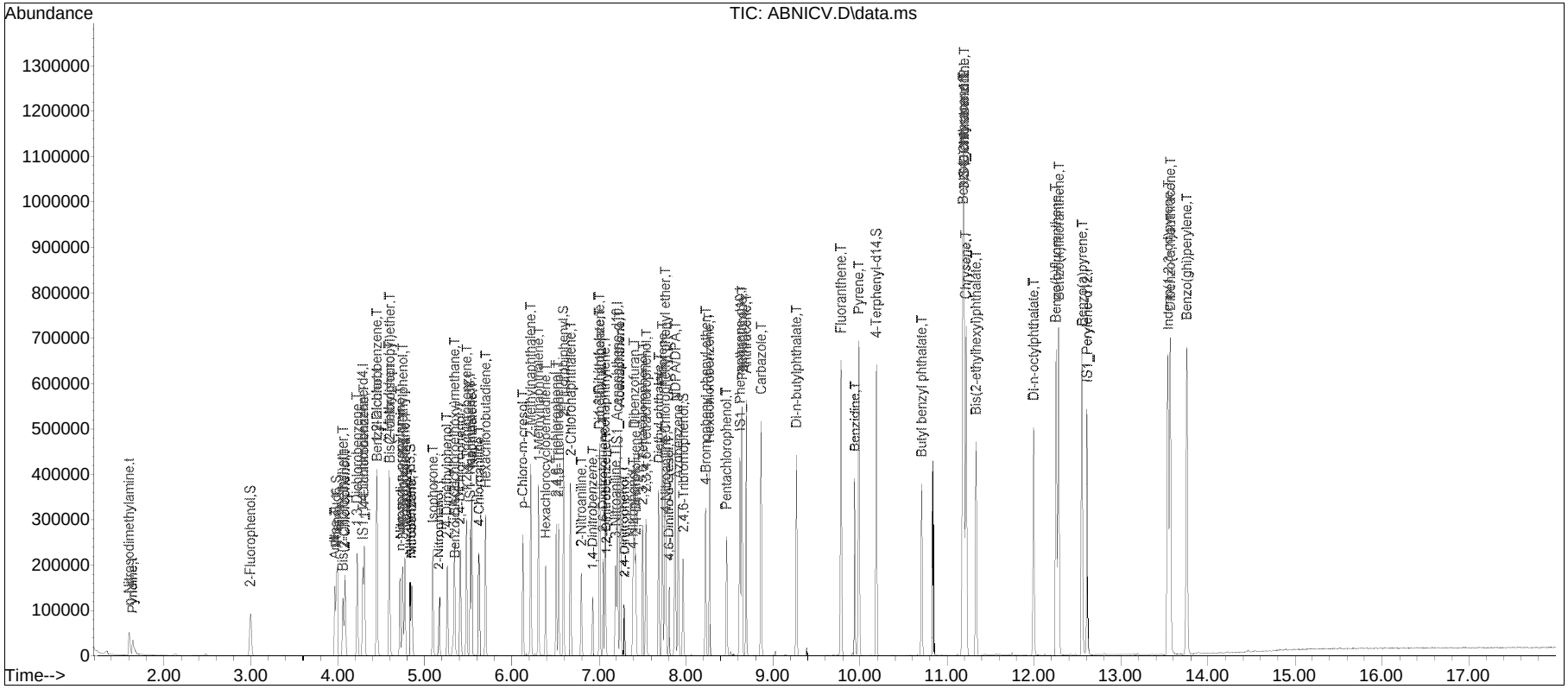
(#) = qualifier out of range (m) = manual integration (+) = signals summed

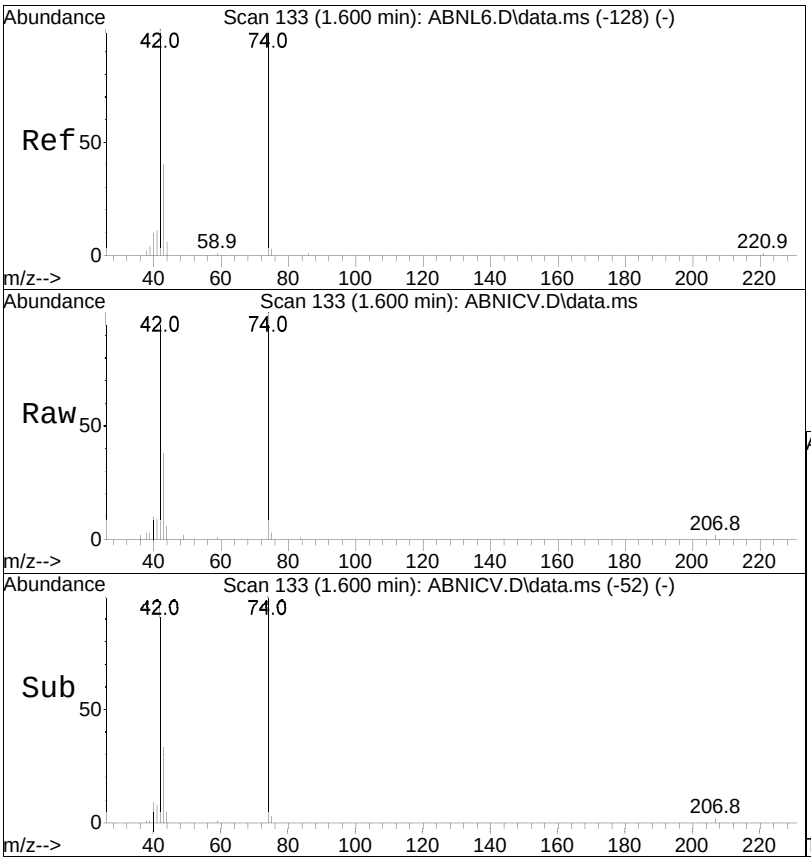
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ABNICV.D
Acq On : 5 Nov 2024 11:59 pm
Operator : Dakota:HNY
Sample : CQICV1,32,,ABNICV Lot# 11138
Misc : WG1994500
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 11 15:34:43 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Nov 11 15:34:18 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistVTICAL\ADPL7.D•

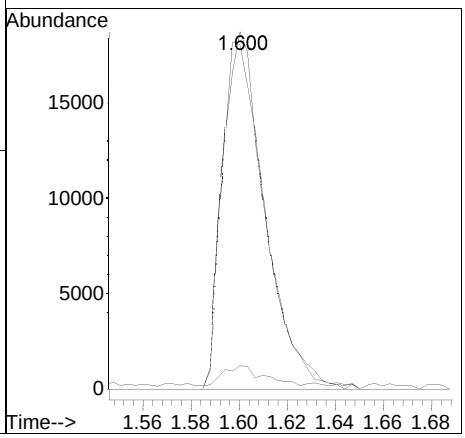


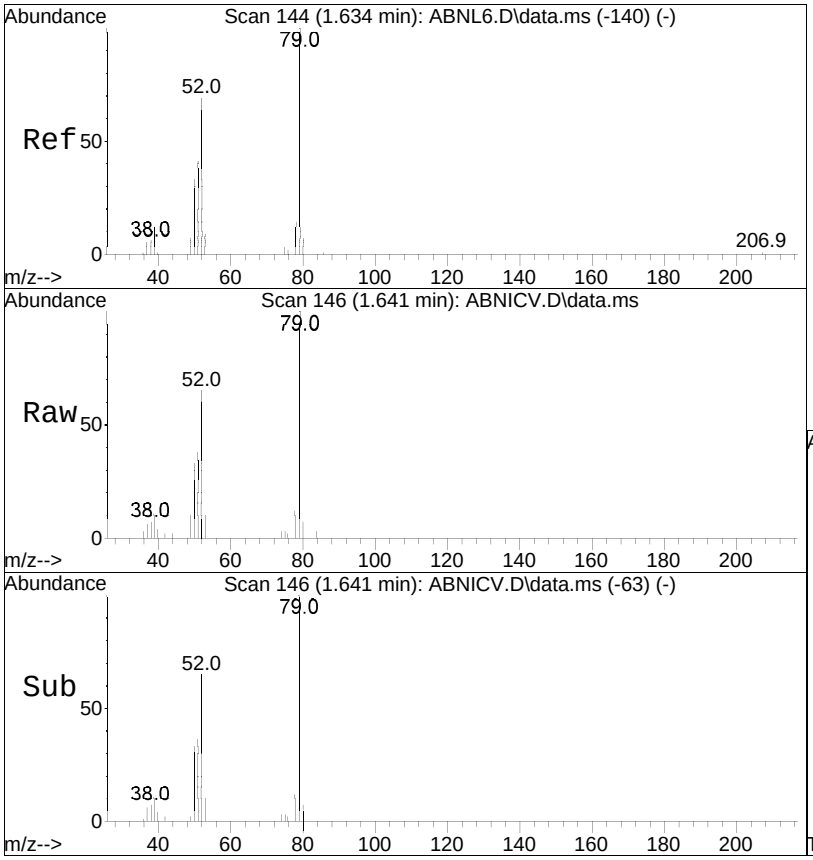


#2
n-Nitrosodimethylamine
Concen: 4.80 ug/ml
RT: 1.600 min Scan# 133
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion: 74 Resp: 22641

Ion	Ratio	Lower	Upper
74	100		
42	99.8	100.0	150.0#
44	5.3	6.7	10.1#

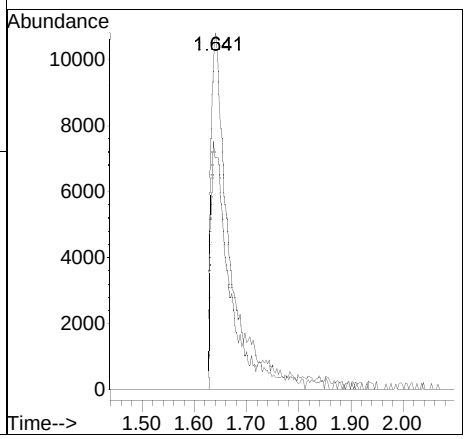


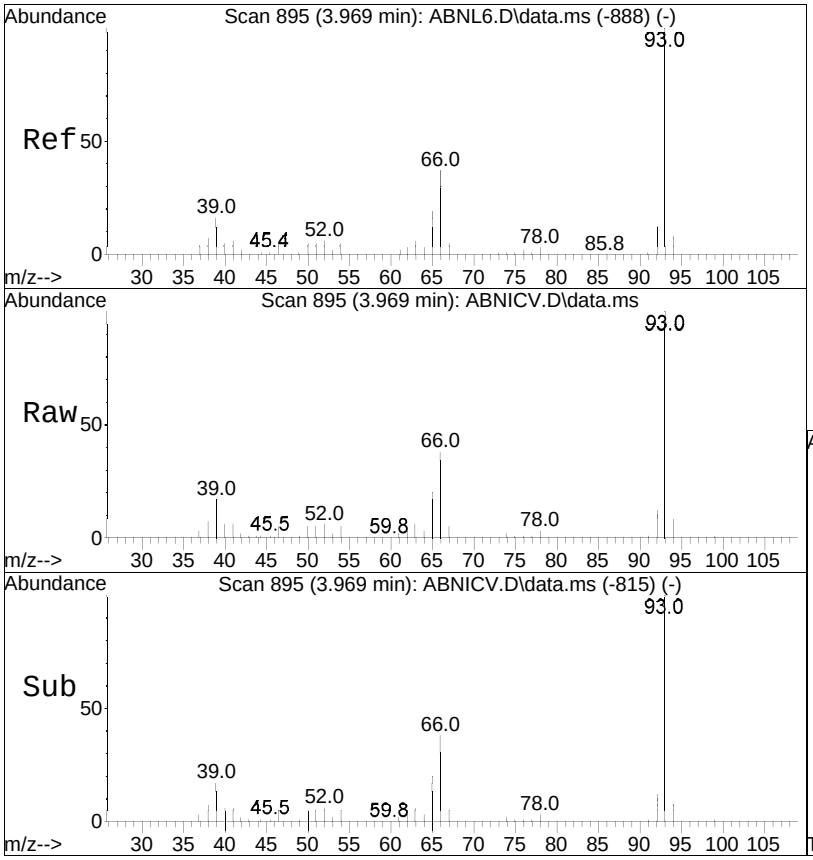


#3
Pyridine
Concen: 3.97 ug/ml M1
RT: 1.641 min Scan# 146
Delta R.T. 0.007 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion: 79 Resp: 28316

Ion	Ratio	Lower	Upper
79	100		
52	57.6	93.1	139.7#

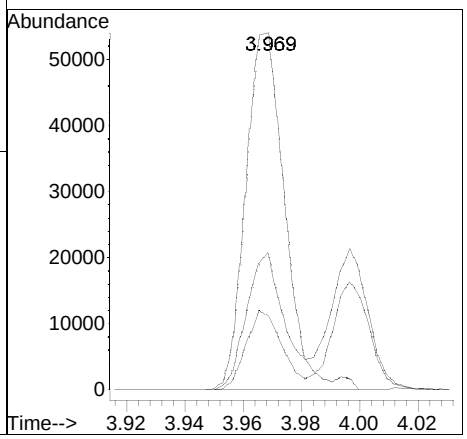


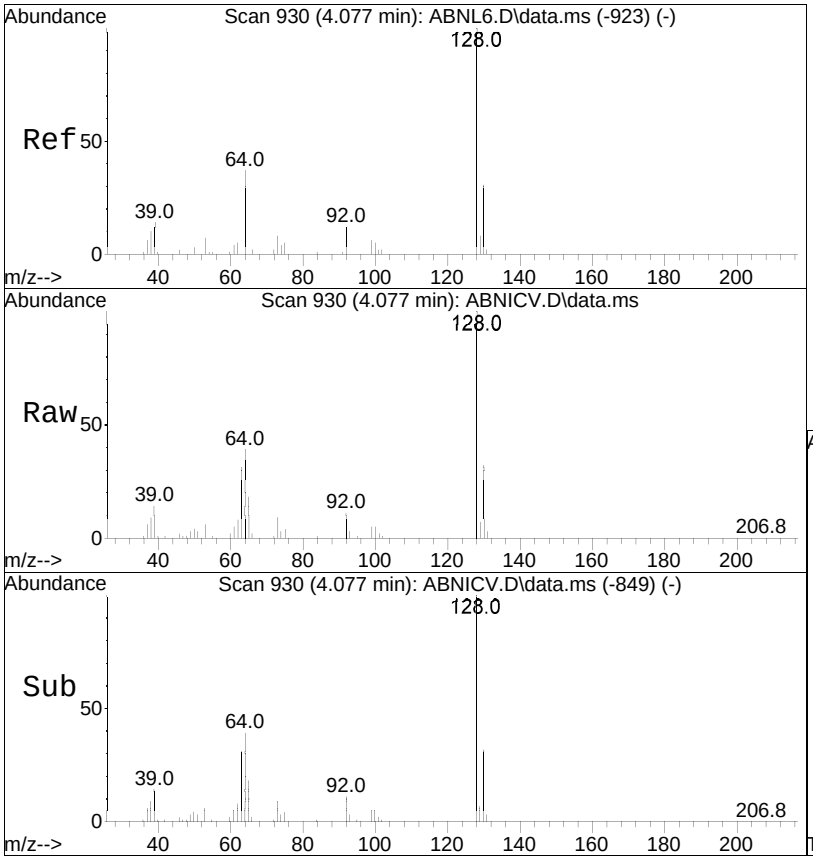


#5
Aniline
Concen: 4.27 ug/ml
RT: 3.969 min Scan# 895
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion: 93 Resp: 50034

Ion	Ratio	Lower	Upper
93	100		
66	37.2	32.6	49.0
65	20.8	17.6	26.4

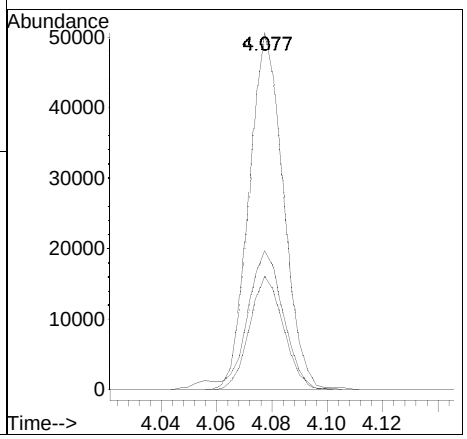


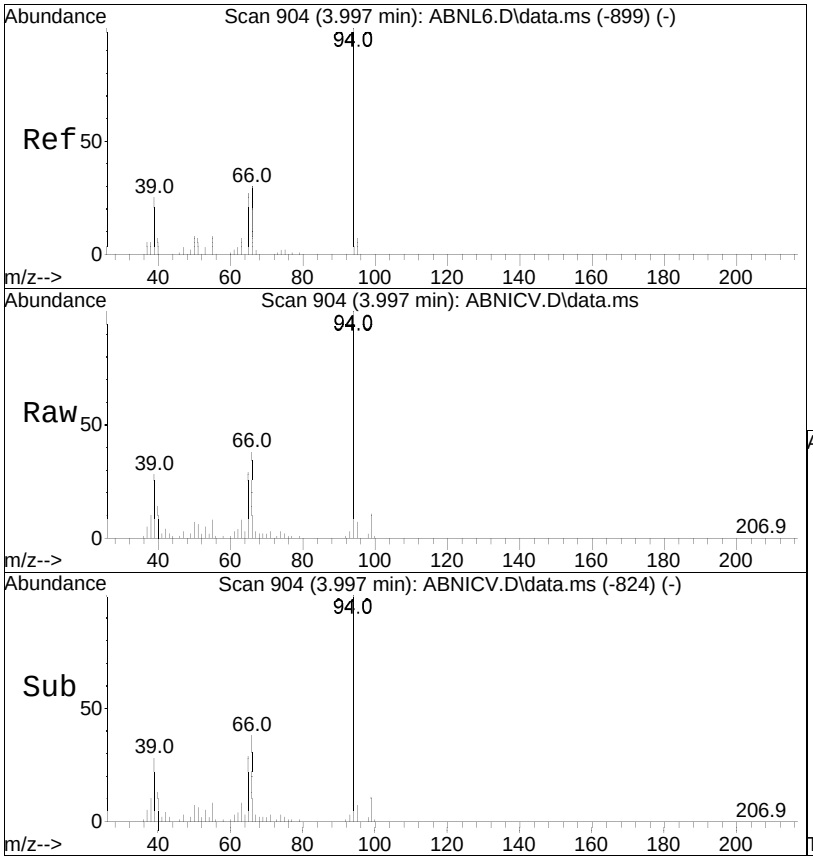


#6
2-Chlorophenol
Concen: 4.73 ug/ml
RT: 4.077 min Scan# 930
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:128 Resp: 43409

Ion	Ratio	Lower	Upper
128	100		
64	42.2	45.1	67.7#
130	31.8	26.2	39.4

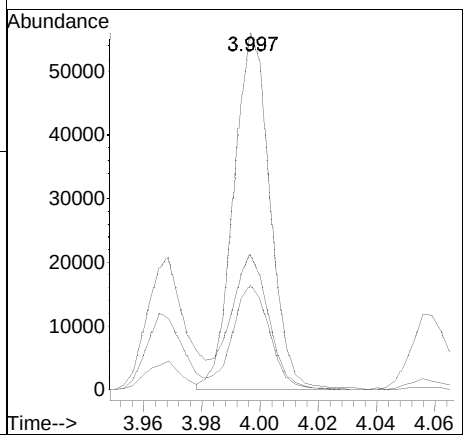


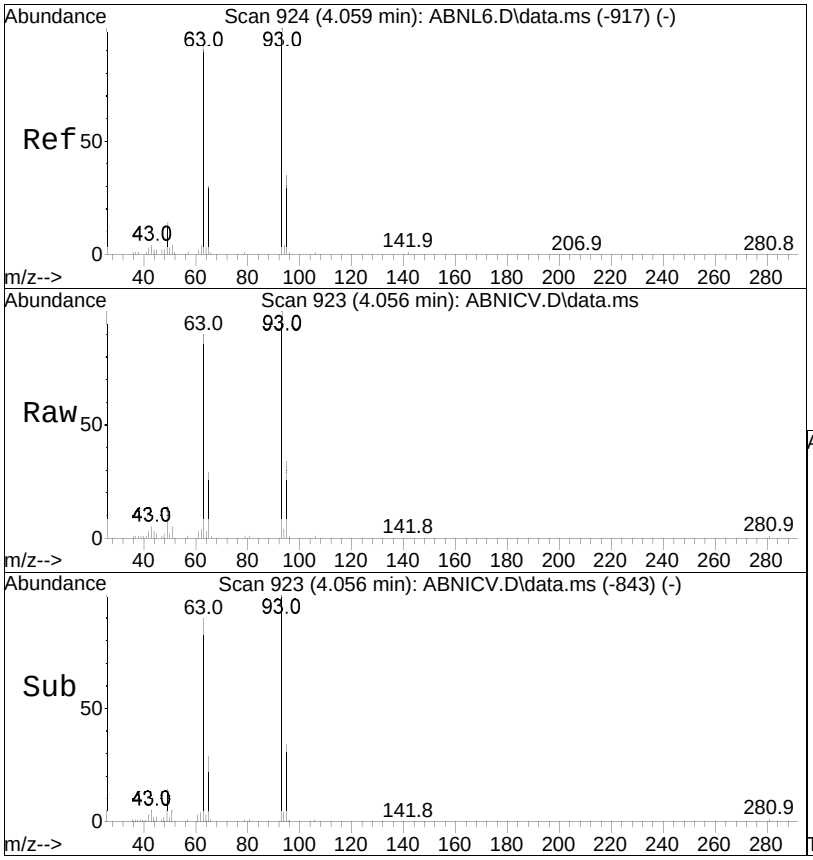


#8
Phenol
Concen: 4.56 ug/ml
RT: 3.997 min Scan# 904
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion: 94 Resp: 48485

Ion	Ratio	Lower	Upper
94	100		
65	30.1	26.0	39.0
66	40.2	33.8	50.8

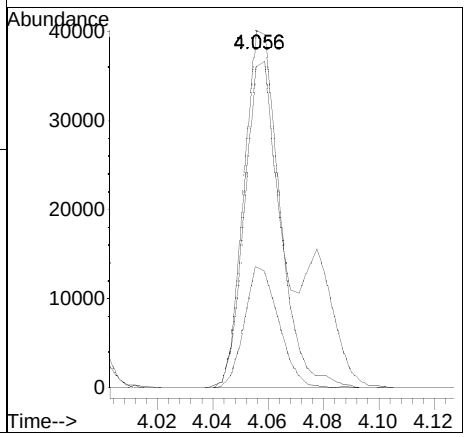


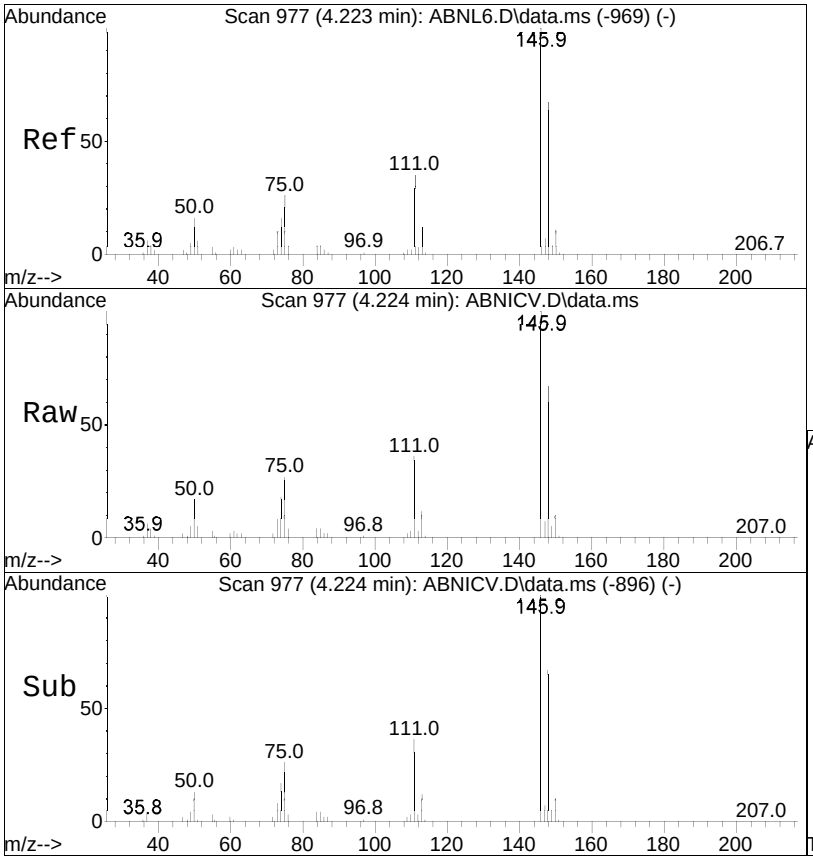


#9
Bis(2-chloroethyl)ether
Concen: 4.73 ug/ml
RT: 4.056 min Scan# 923
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion: 93 Resp: 36003

Ion	Ratio	Lower	Upper
93	100		
63	91.9	74.6	111.8
95	32.5	25.9	38.9

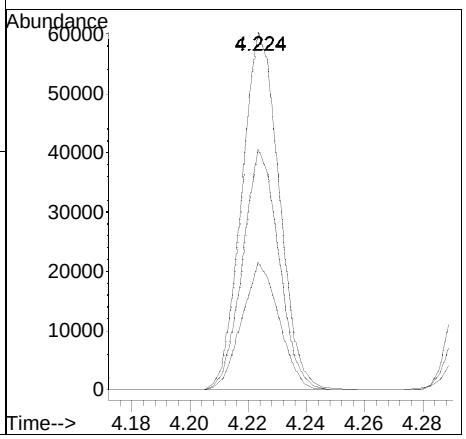


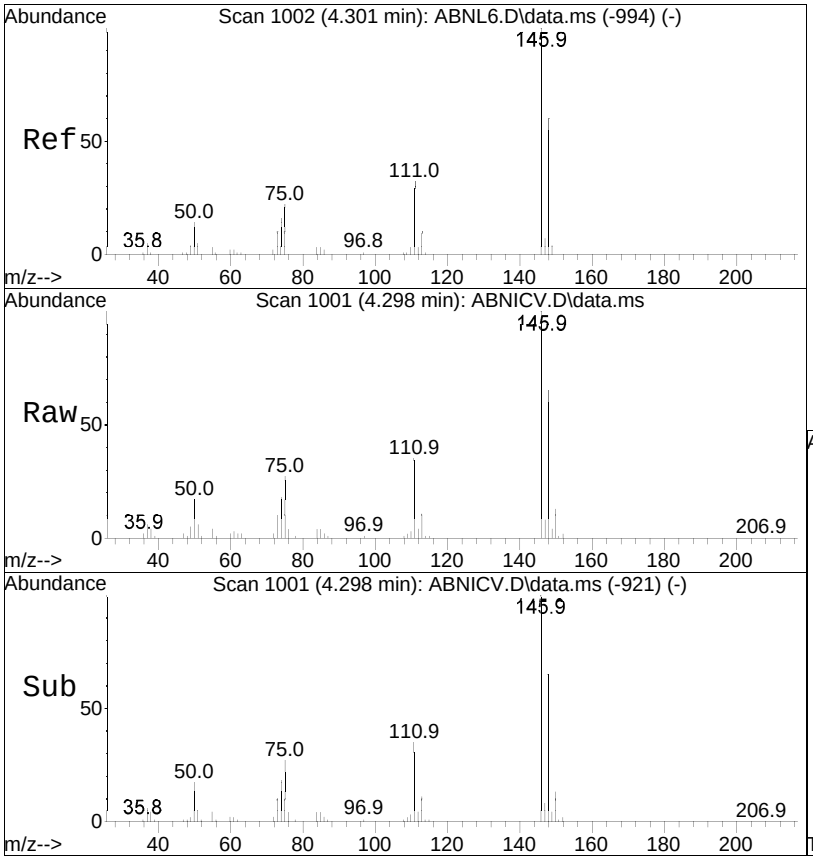


#10
1,3-Dichlorobenzene
Concen: 4.53 ug/ml
RT: 4.224 min Scan# 977
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:146 Resp: 53479

Ion	Ratio	Lower	Upper
146	100		
111	35.5	34.3	51.5
148	65.0	50.8	76.2

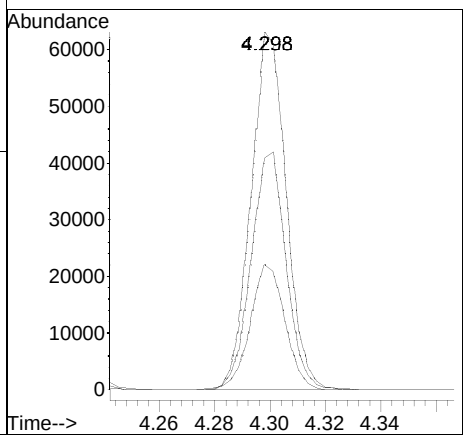


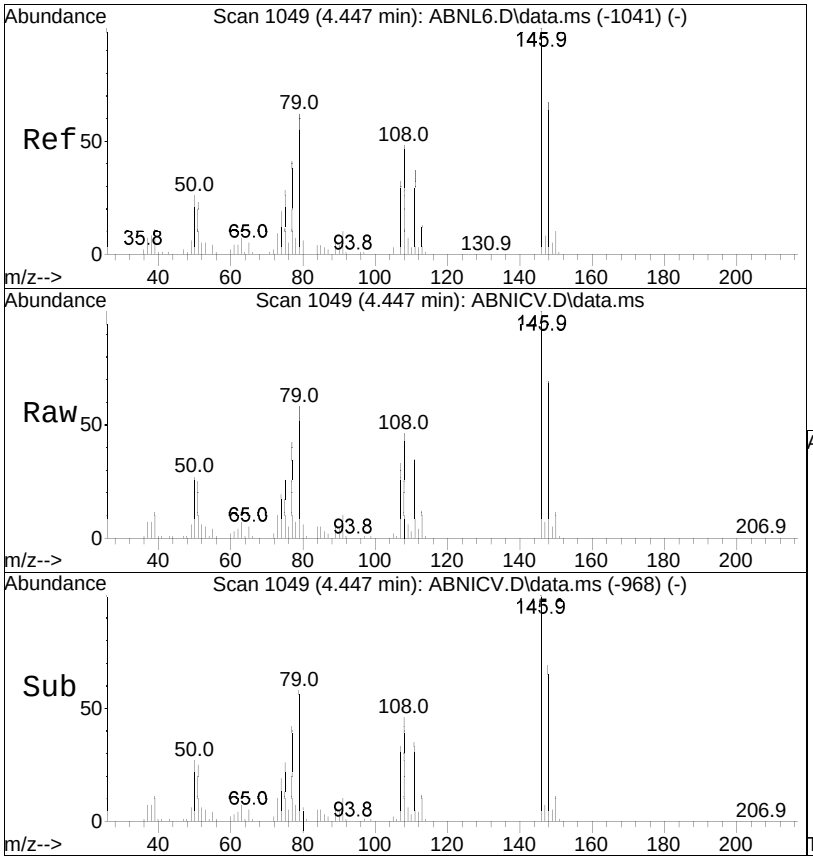


#11
1,4-Dichlorobenzene
Concen: 4.58 ug/ml
RT: 4.298 min Scan# 1001
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:146 Resp: 55162

Ion	Ratio	Lower	Upper
146	100		
148	66.0	50.7	76.1
111	34.8	33.4	50.0

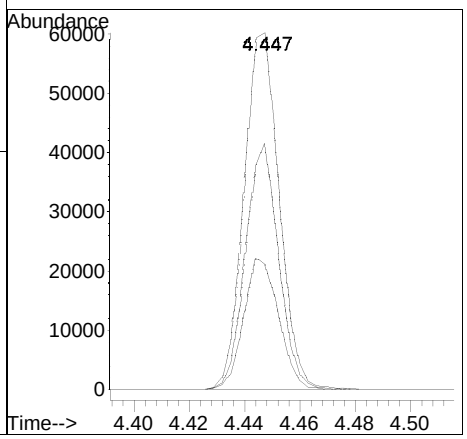


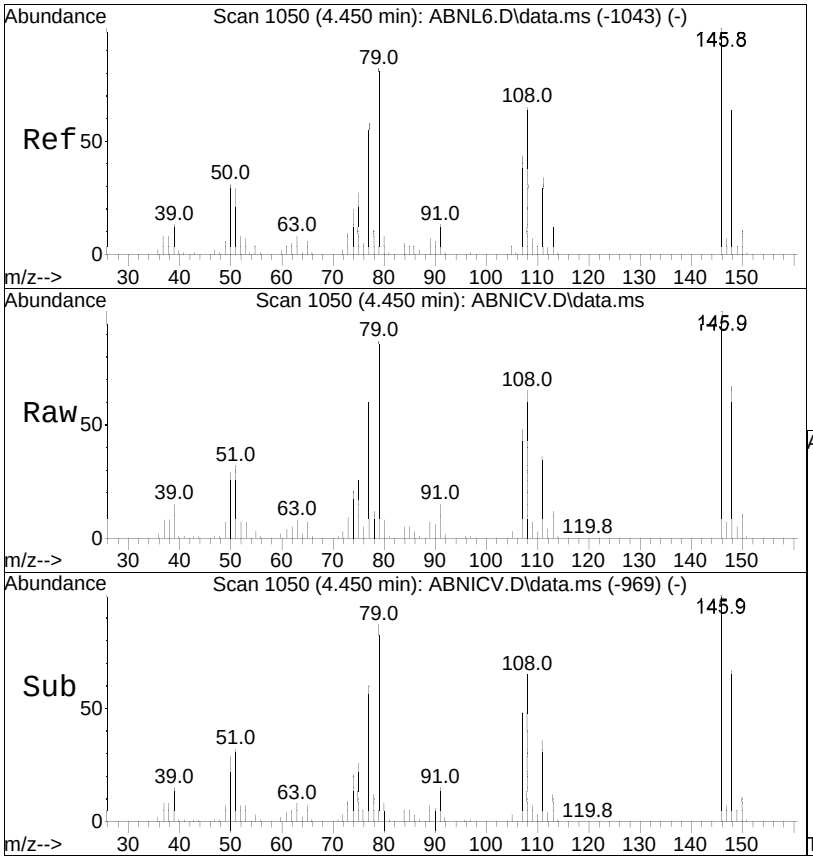


#12
1,2-Dichlorobenzene
Concen: 4.60 ug/ml
RT: 4.447 min Scan# 1049
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:146 Resp: 52815

Ion	Ratio	Lower	Upper
146	100		
111	36.7	34.6	52.0
148	65.0	50.2	75.4

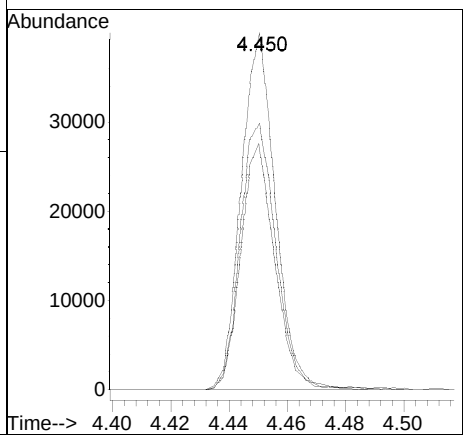


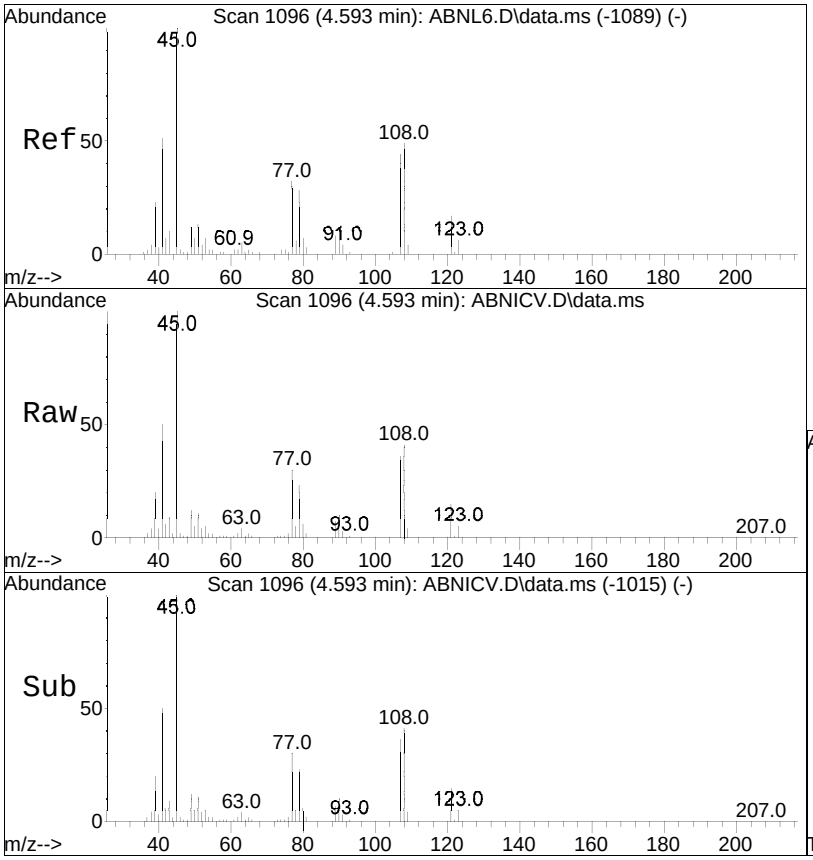


#13
Benzyl alcohol
Concen: 4.67 ug/ml
RT: 4.450 min Scan# 1050
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion: 79 Resp: 32533

Ion	Ratio	Lower	Upper
79	100		
77	69.3	54.9	82.3
108	77.6	63.1	94.7

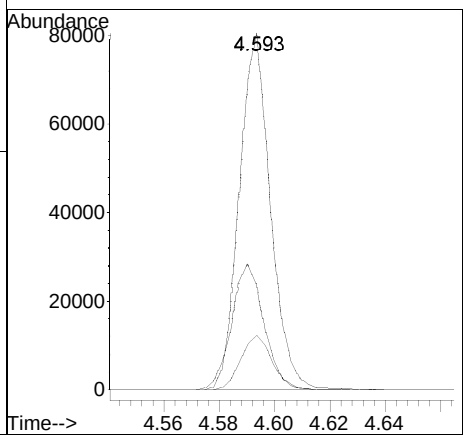


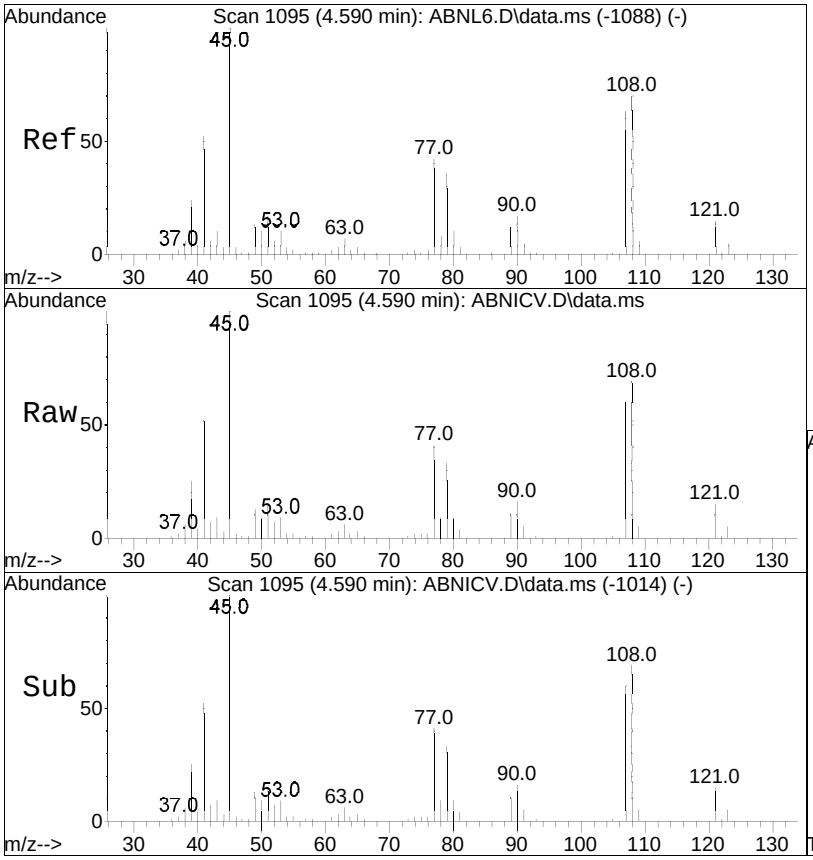


#14
Bis(2-chloroisopropyl)ether
Concen: 4.66 ug/ml
RT: 4.593 min Scan# 1096
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion: 45 Resp: 62522

Ion	Ratio	Lower	Upper
45	100		
121	15.5	9.8	14.6#
77	36.9	6.1	9.1#

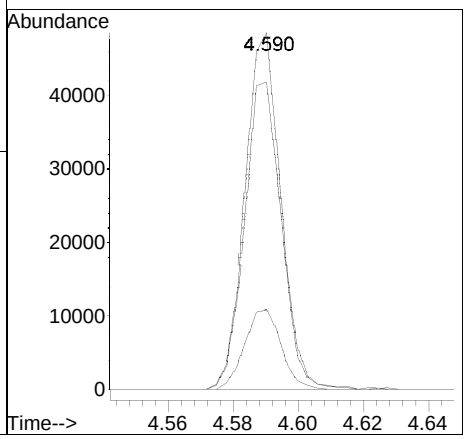


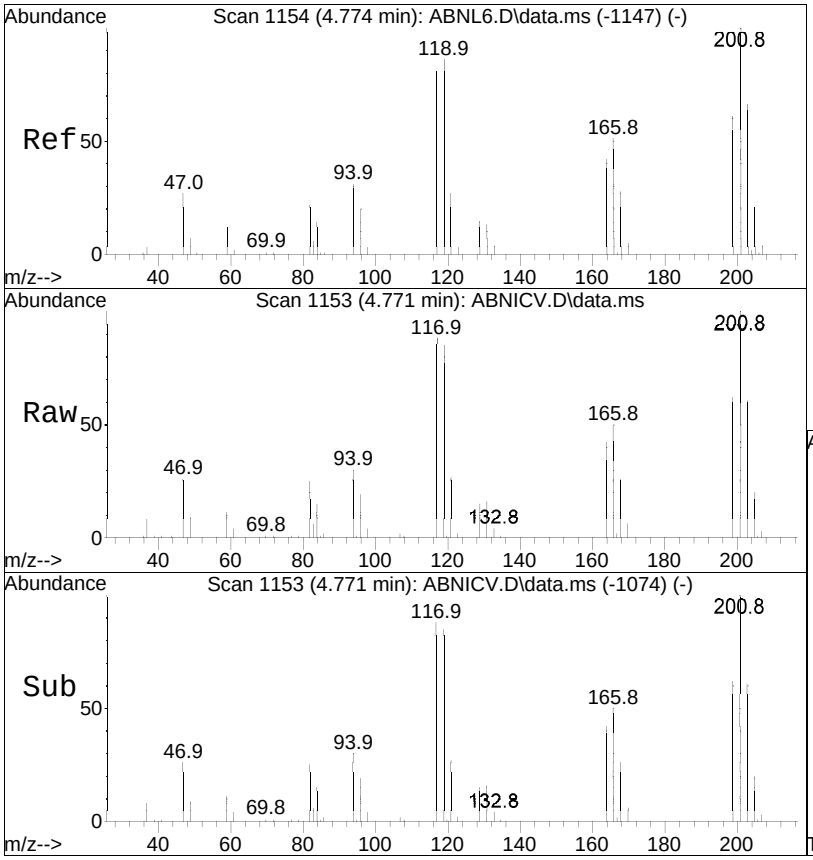


#15
2-Methylphenol
Concen: 4.59 ug/ml
RT: 4.590 min Scan# 1095
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:108 Resp: 37053

Ion	Ratio	Lower	Upper
108	100		
107	88.3	70.7	106.1
90	22.9	18.7	28.1

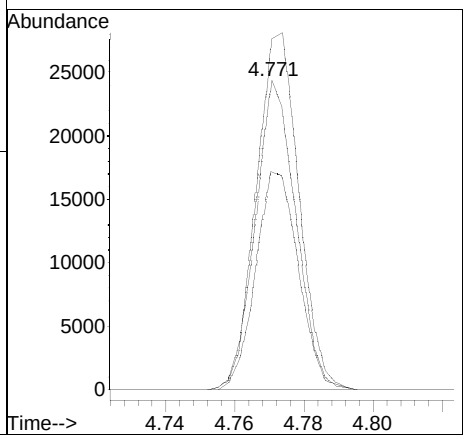


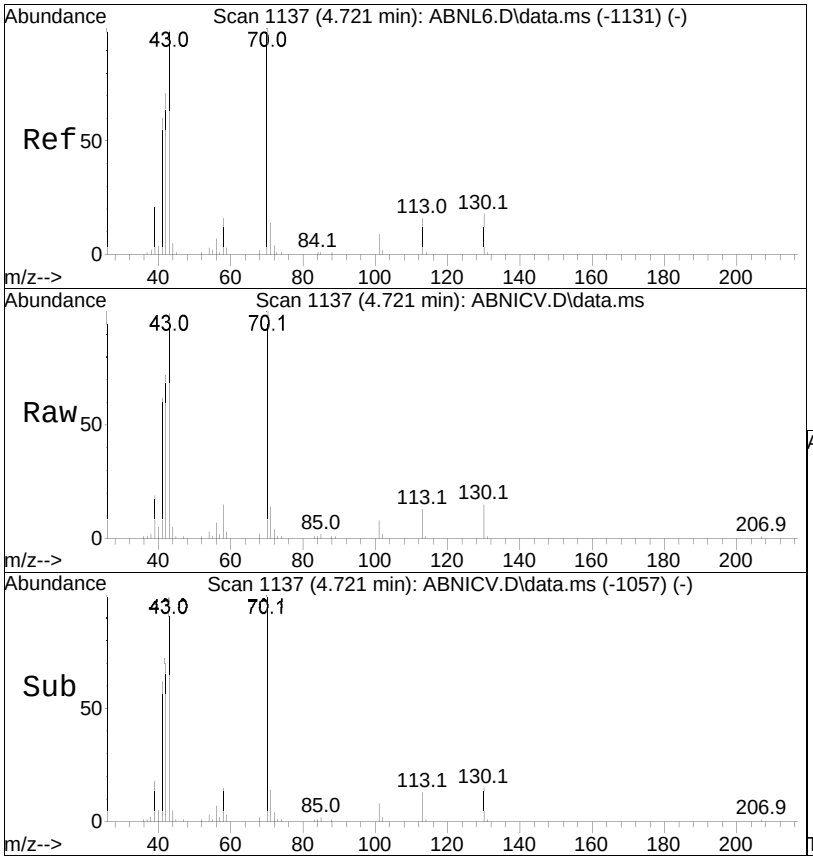


#16
Hexachloroethane
Concen: 4.49 ug/ml
RT: 4.771 min Scan# 1153
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:117 Resp: 19810

Ion	Ratio	Lower	Upper
117	100		
201	121.1	58.6	87.8#
199	74.6	36.9	55.3#

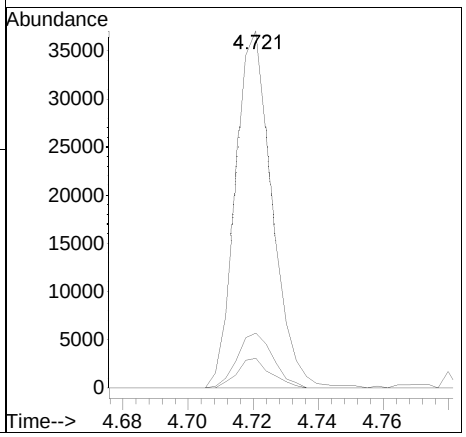


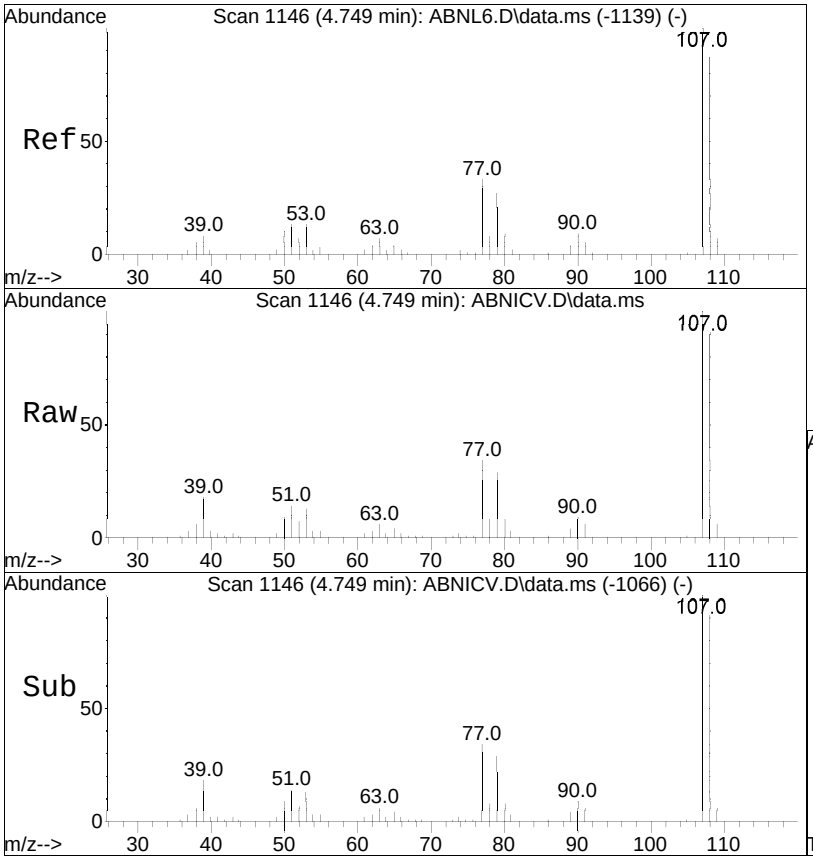


#17
n-Nitrosodi-n-propylamine
Concen: 4.48 ug/ml
RT: 4.721 min Scan# 1137
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion: 70 Resp: 28948

Ion	Ratio	Lower	Upper
70	100		
130	15.1	18.2	27.4#
101	7.5	7.8	11.8#

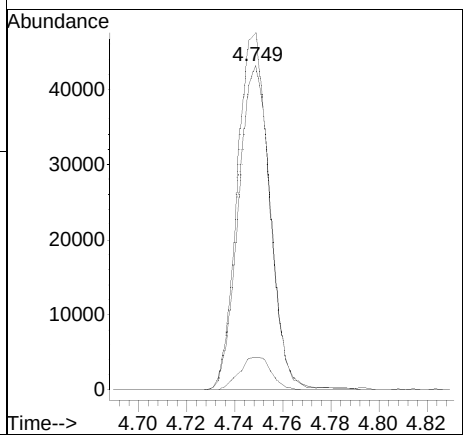


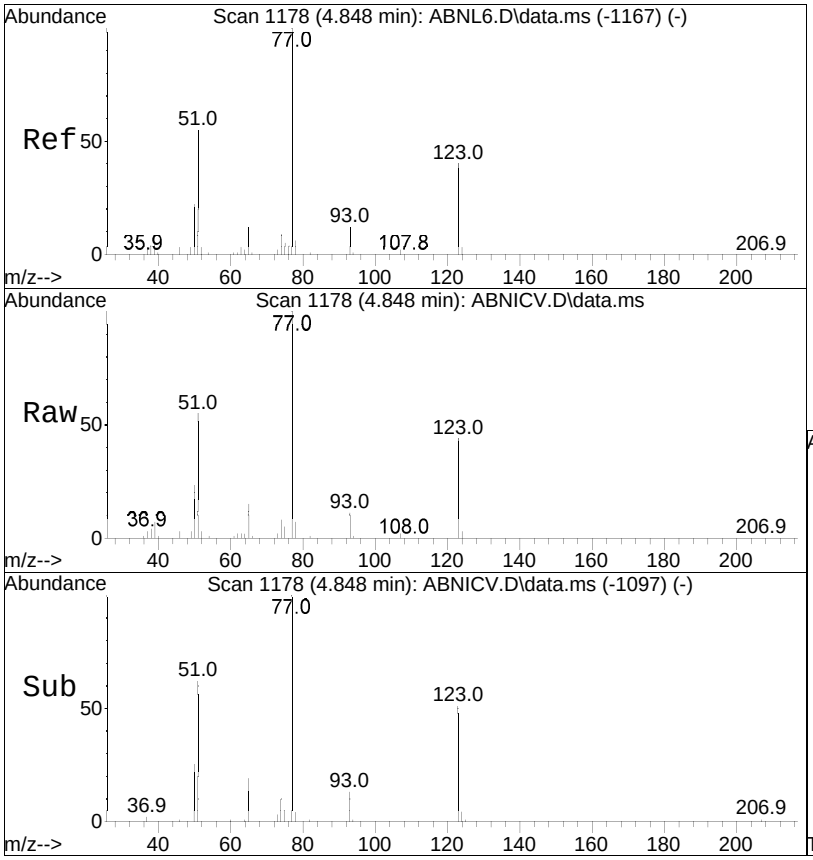


#18
3-Methylphenol/4-Methylphenol
Concen: 4.49 ug/ml
RT: 4.749 min Scan# 1146
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:108 Resp: 39726

Ion	Ratio	Lower	Upper
108	100		
107	110.8	88.6	132.8
90	10.1	8.8	13.2

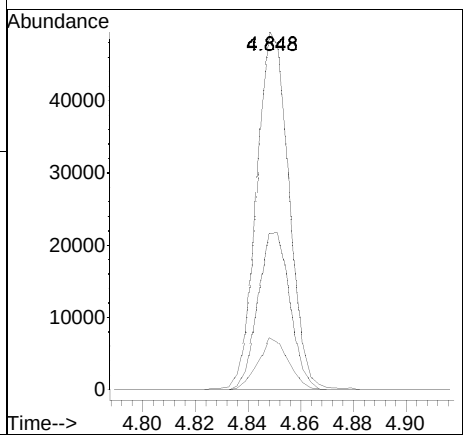


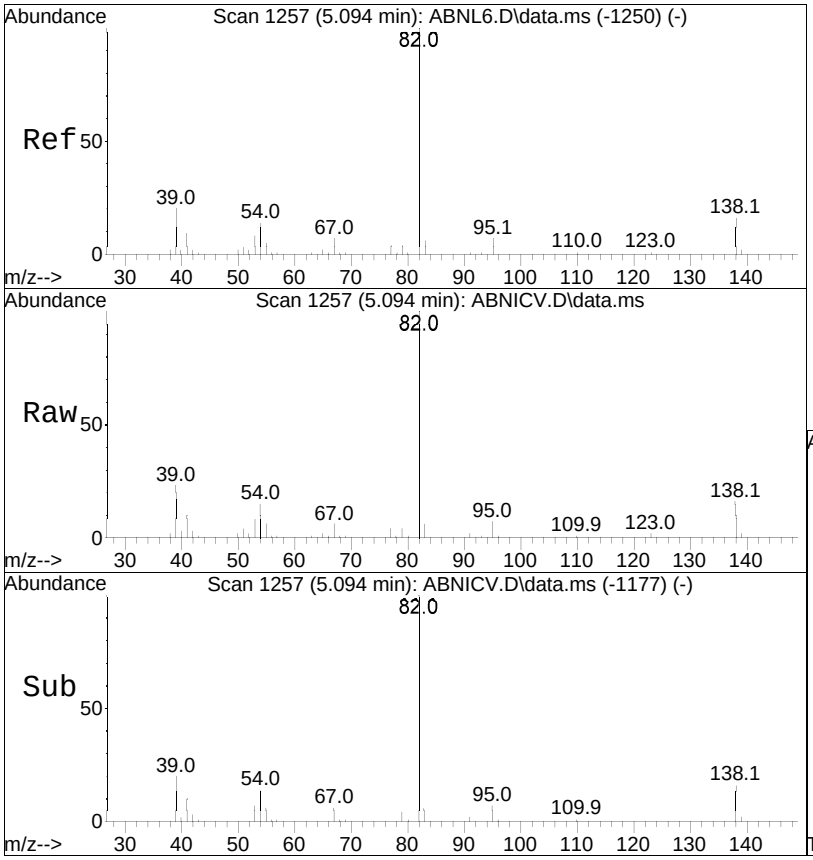


#20
Nitrobenzene
Concen: 4.59 ug/ml
RT: 4.848 min Scan# 1178
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion: 77 Resp: 42031

Ion	Ratio	Lower	Upper
77	100		
123	43.6	36.3	54.5
65	13.7	11.6	17.4

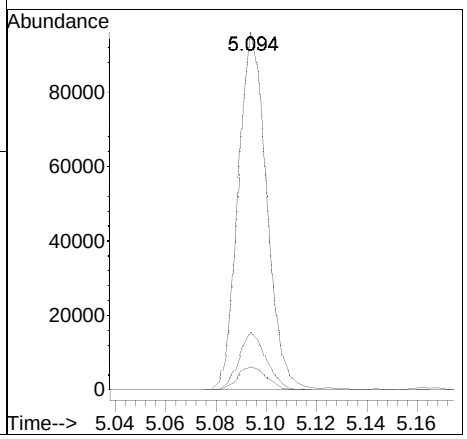


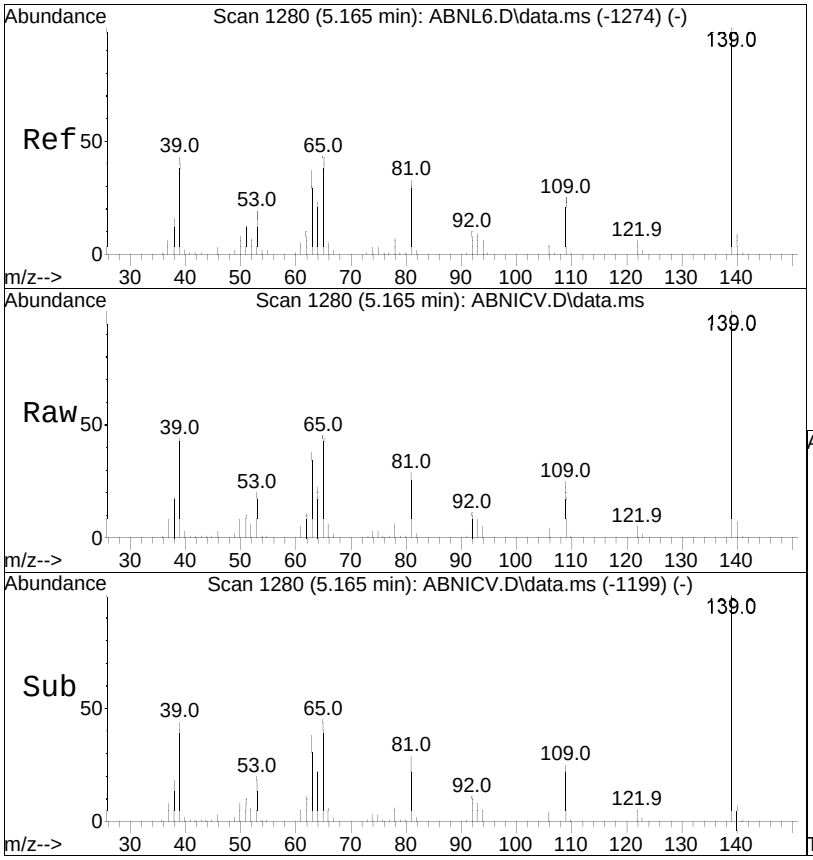


#21
Isophorone
Concen: 4.48 ug/ml
RT: 5.094 min Scan# 1257
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion: 82 Resp: 75307

Ion	Ratio	Lower	Upper
82	100		
138	15.4	14.7	22.1
95	6.7	5.2	7.8

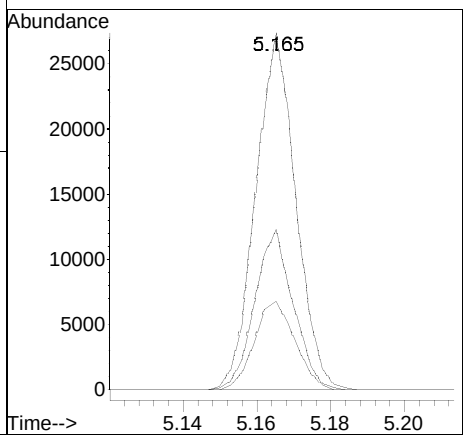


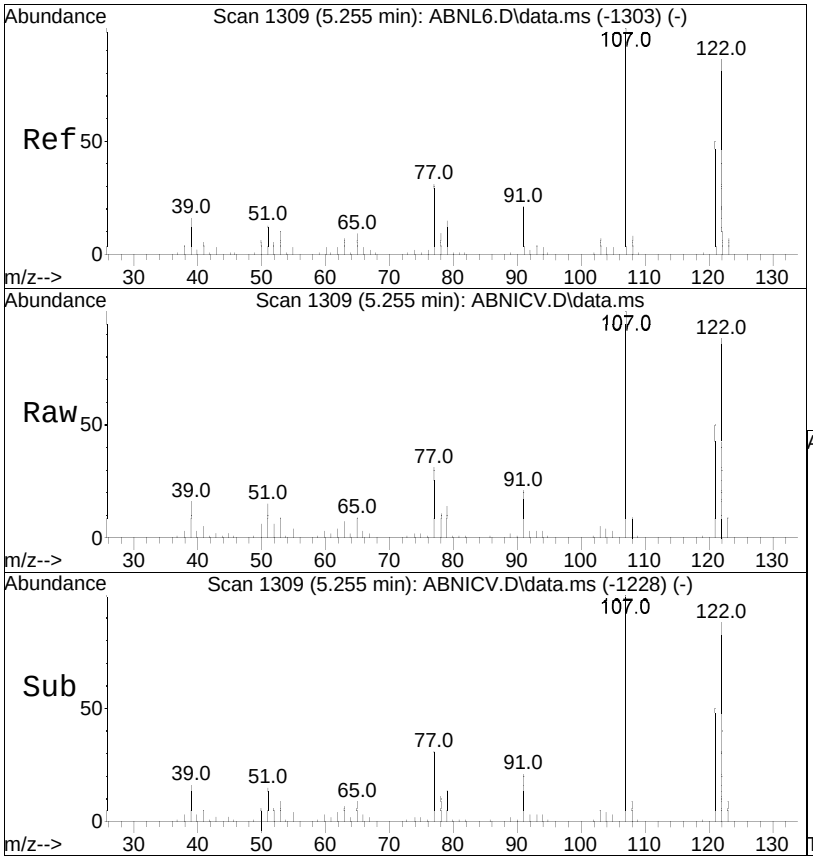


#22
2-Nitrophenol
Concen: 4.42 ug/ml
RT: 5.165 min Scan# 1280
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:139 Resp: 20467

Ion	Ratio	Lower	Upper
139	100		
109	25.3	19.4	29.0
65	43.3	46.1	69.1#

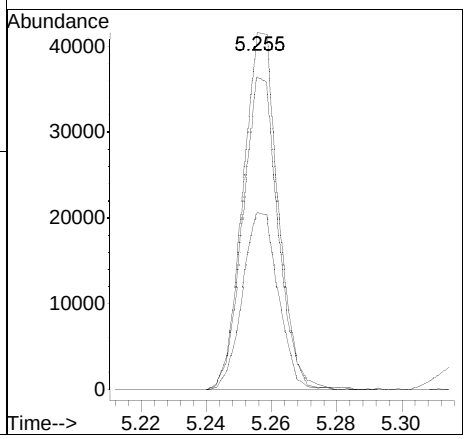


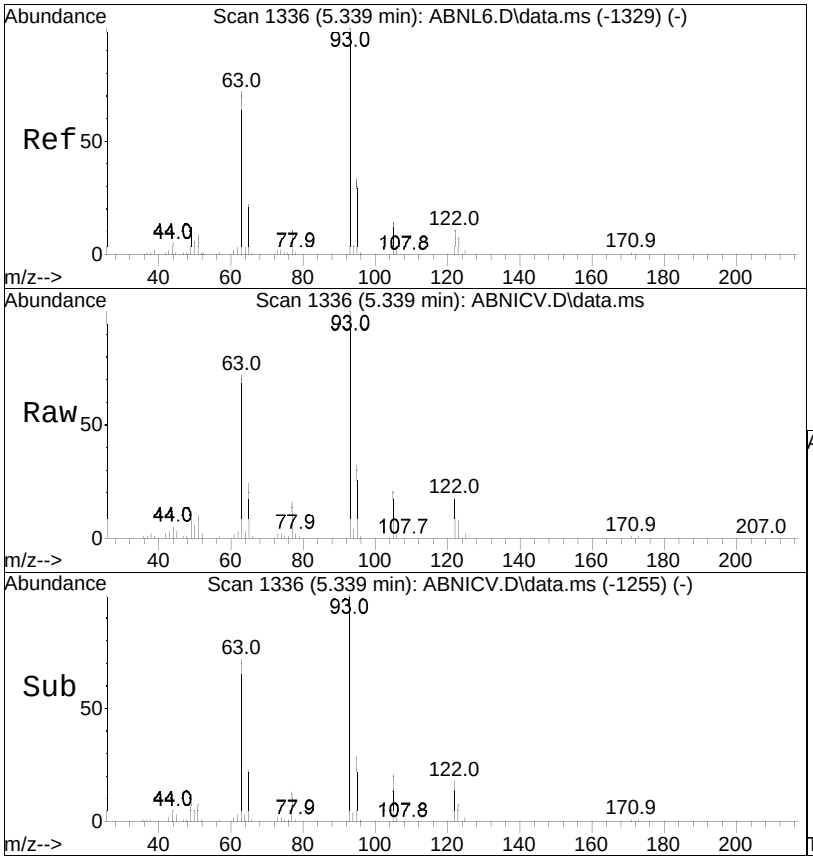


#23
2,4-Dimethylphenol
Concen: 3.79 ug/ml
RT: 5.255 min Scan# 1309
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:107 Resp: 31220

Ion	Ratio	Lower	Upper
107	100		
121	50.5	40.0	60.0
122	87.0	70.2	105.4

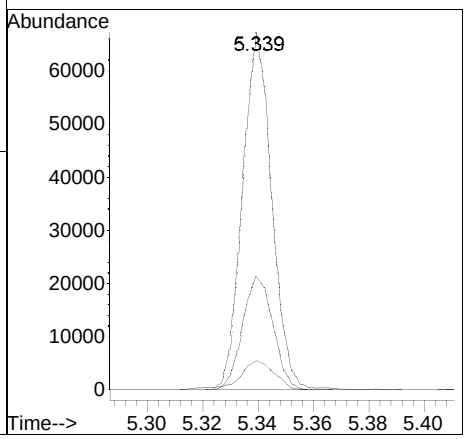


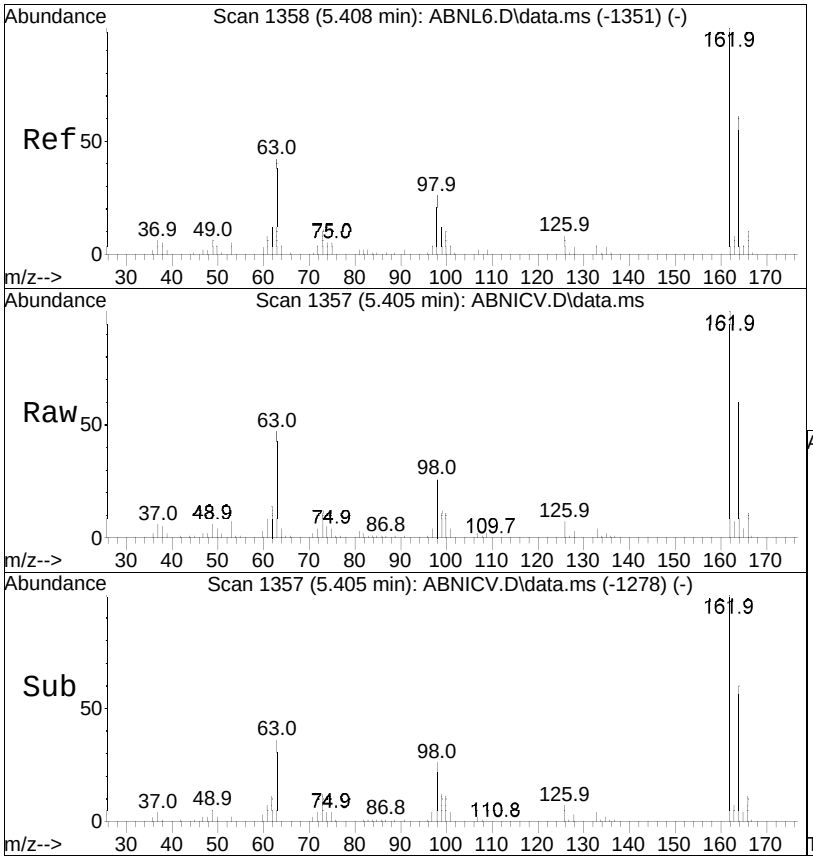


#24
Bis(2-chloroethoxy)methane
Concen: 4.69 ug/ml
RT: 5.339 min Scan# 1336
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion: 93 Resp: 49166

Ion	Ratio	Lower	Upper
93	100		
95	33.3	25.8	38.8
123	9.9	10.1	15.1#

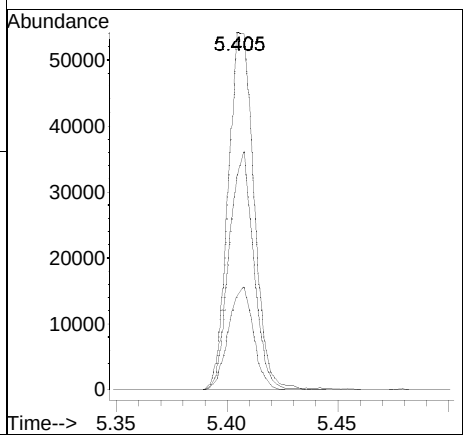


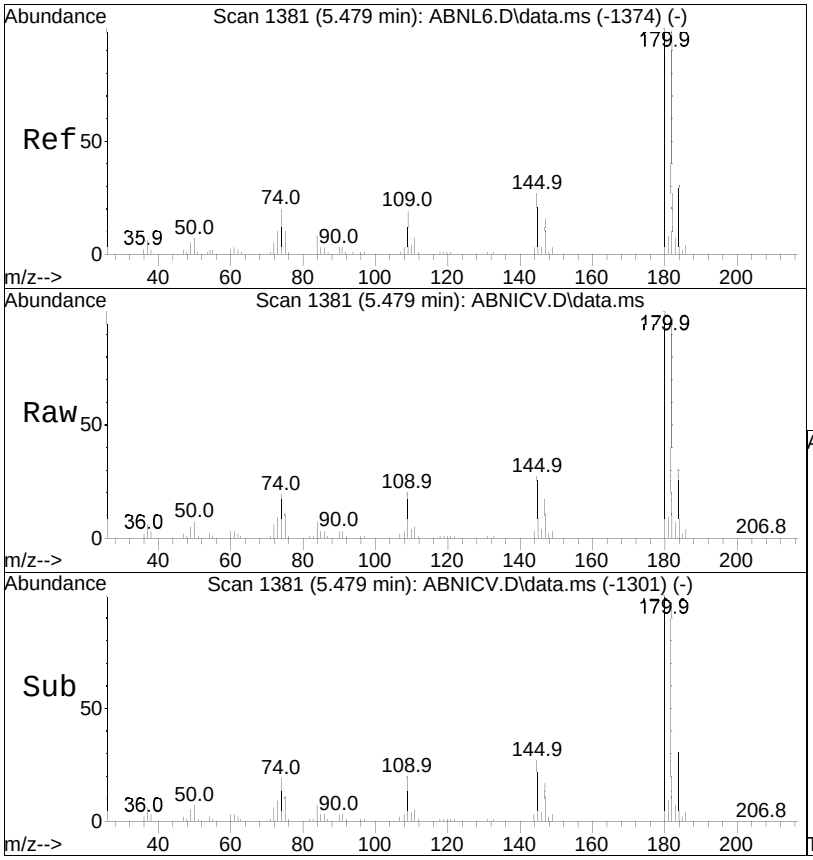


#25
2,4-Dichlorophenol
Concen: 4.55 ug/ml
RT: 5.405 min Scan# 1357
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:162 Resp: 43788

Ion	Ratio	Lower	Upper
162	100		
164	63.2	51.0	76.4
98	27.9	32.2	48.2#

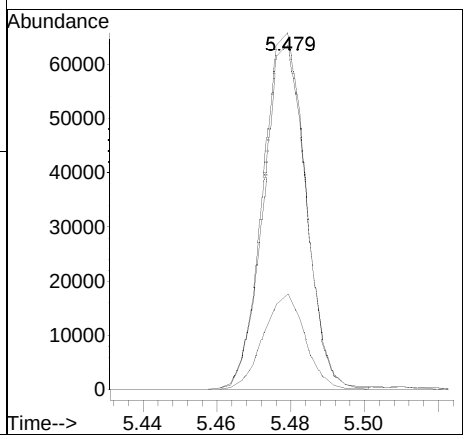


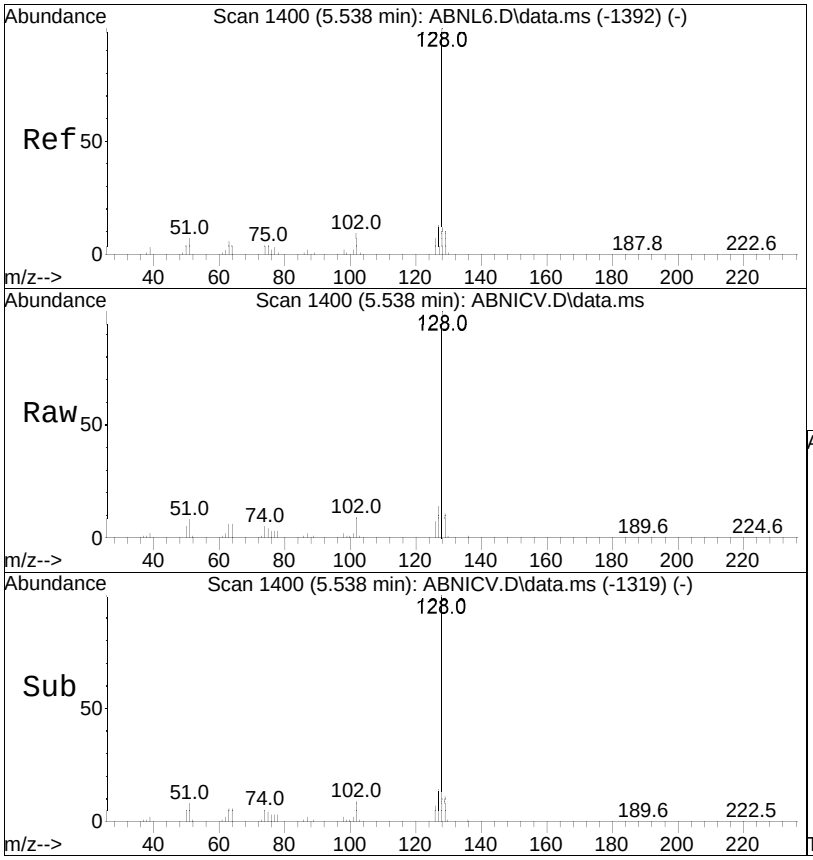


#26
1,2,4-Trichlorobenzene
Concen: 4.56 ug/ml
RT: 5.479 min Scan# 1381
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:180 Resp: 53081

Ion	Ratio	Lower	Upper
180	100		
182	96.2	76.0	114.0
145	26.1	25.7	38.5

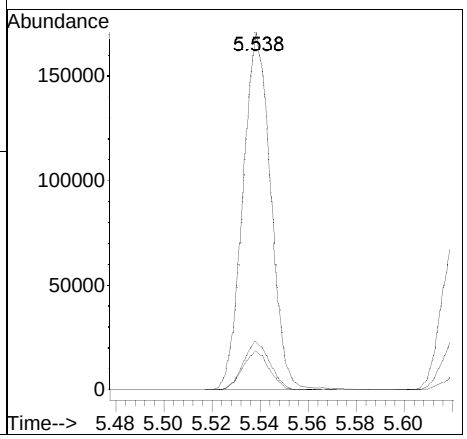


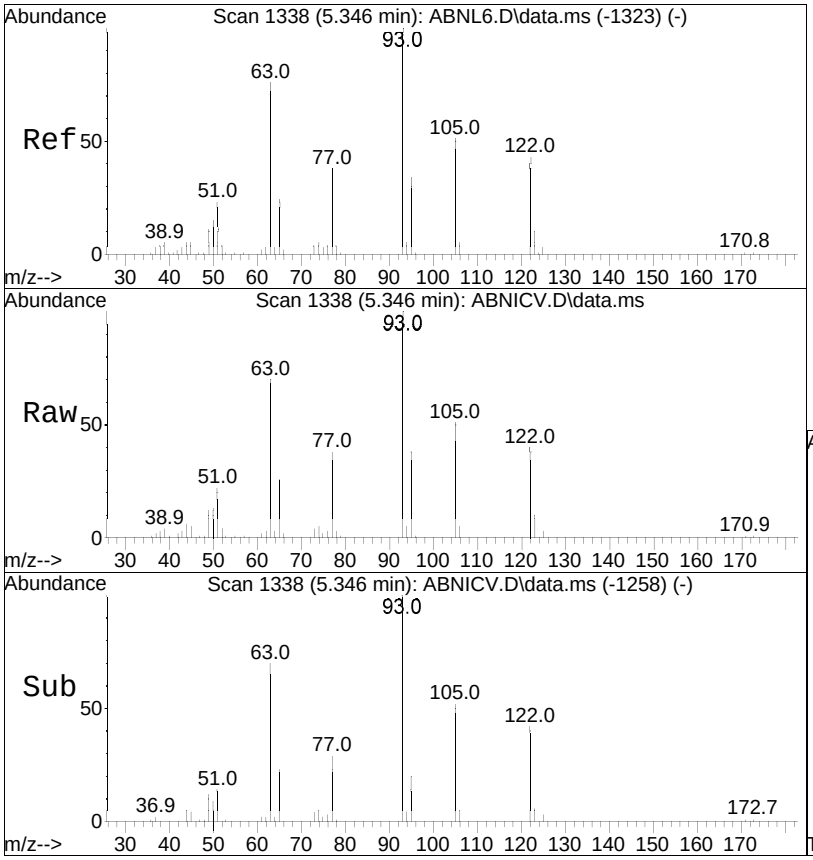


#38
Naphthalene
Concen: 4.45 ug/ml
RT: 5.538 min Scan# 1400
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:128 Resp: 136778

Ion	Ratio	Lower	Upper
128	100		
129	10.6	8.7	13.1
127	13.2	10.3	15.5

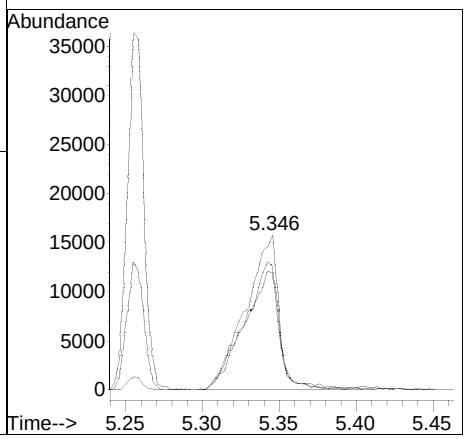


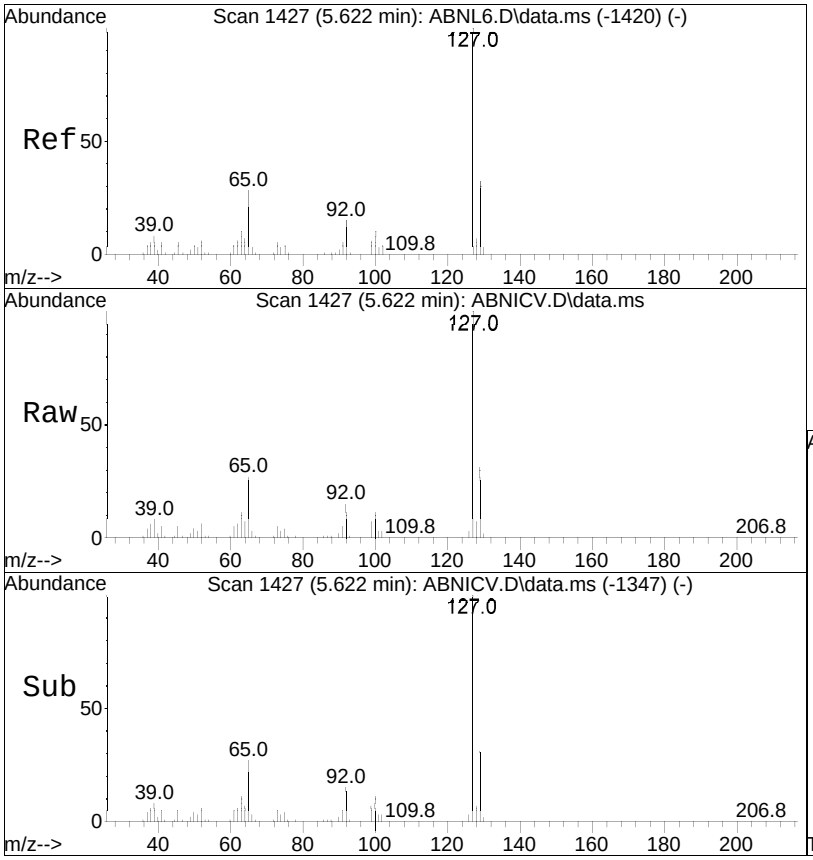


#39
Benzoic Acid
Concen: 3.83 ug/ml
RT: 5.346 min Scan# 1338
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:105 Resp: 24373

Ion	Ratio	Lower	Upper
105	100		
122	85.1	59.9	89.9
77	78.7	60.1	90.1

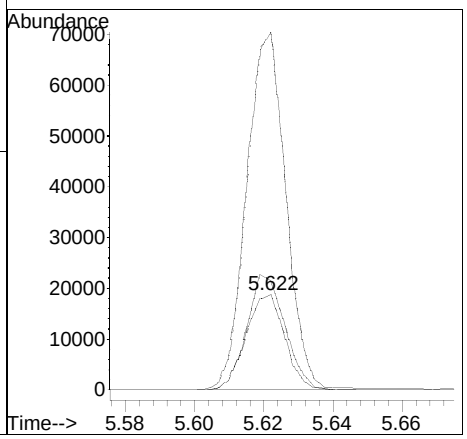


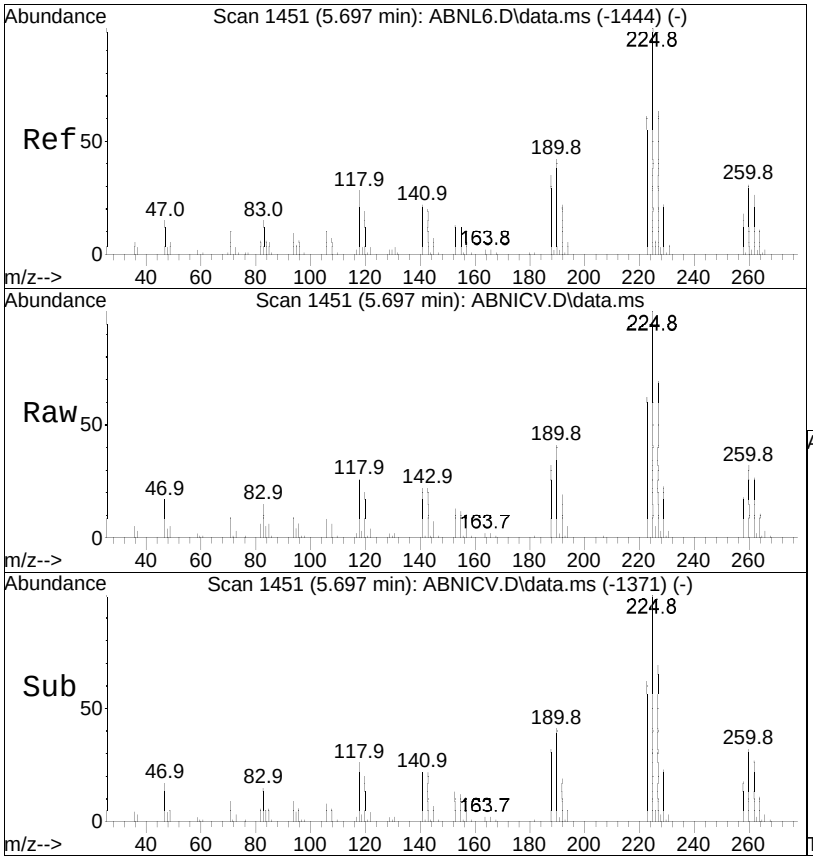


#40
4-Chloroaniline
Concen: 4.31 ug/ml
RT: 5.622 min Scan# 1427
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion: 65 Resp: 14569

Ion	Ratio	Lower	Upper
65	100		
127	377.7	237.6	356.4#
129	118.8	76.3	114.5#

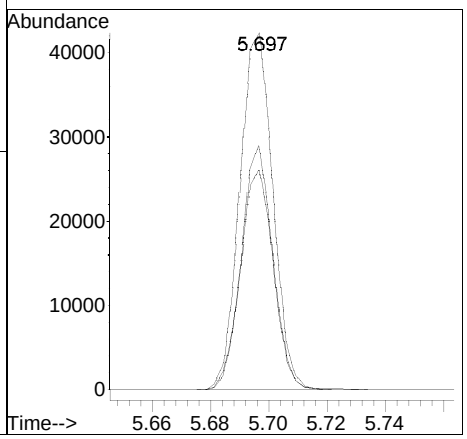


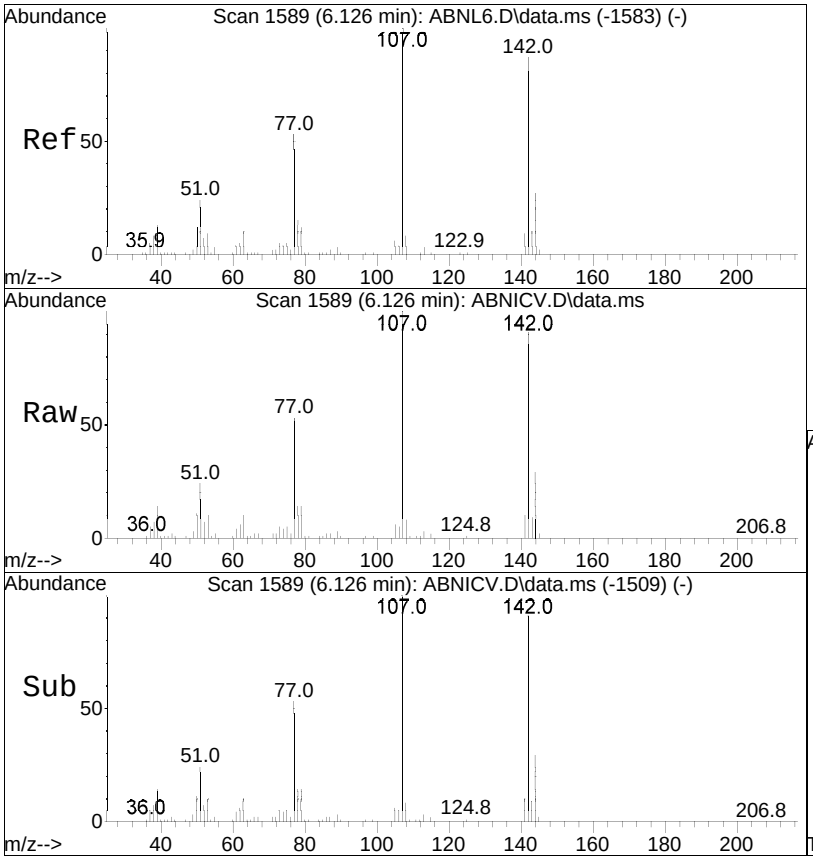


#41
Hexachlorobutadiene
Concen: 4.65 ug/ml
RT: 5.697 min Scan# 1451
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:225 Resp: 33536

Ion	Ratio	Lower	Upper
225	100		
223	60.9	50.3	75.5
227	65.3	52.2	78.2

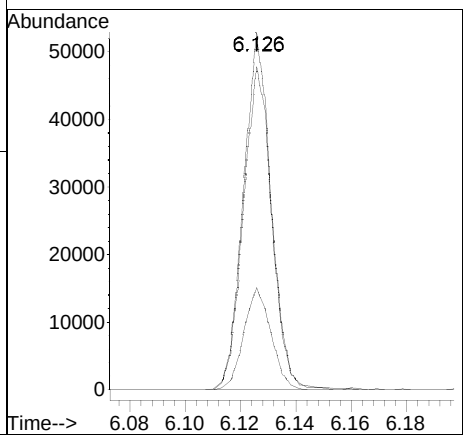


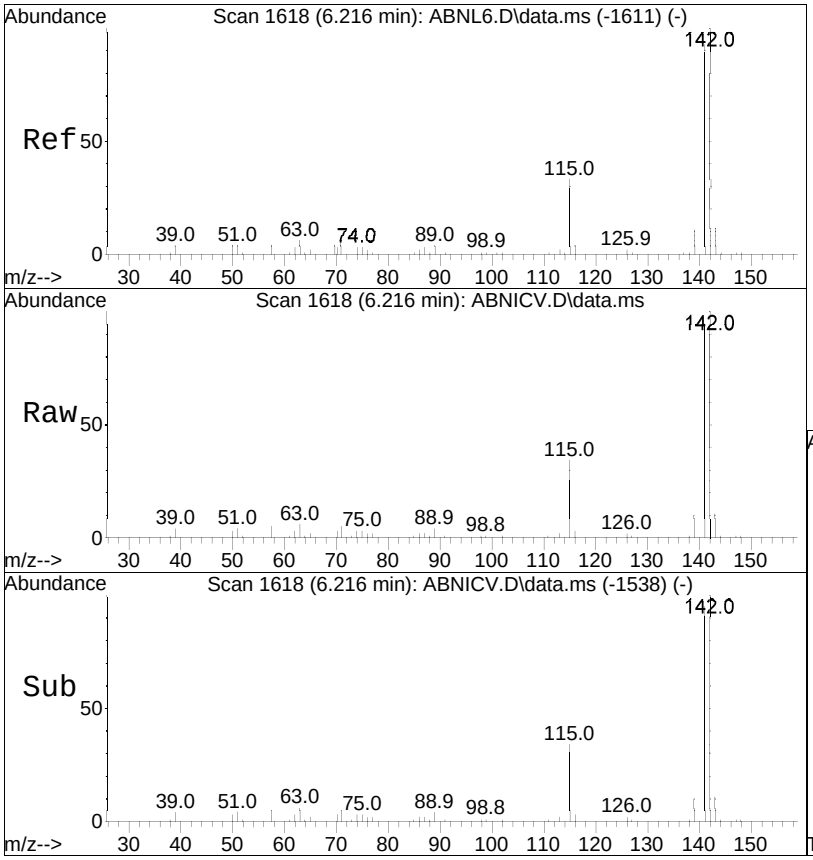


#42
p-Chloro-m-cresol
Concen: 4.51 ug/ml
RT: 6.126 min Scan# 1589
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:107 Resp: 36518

Ion	Ratio	Lower	Upper
107	100		
144	28.1	20.9	31.3
142	92.2	66.1	99.1

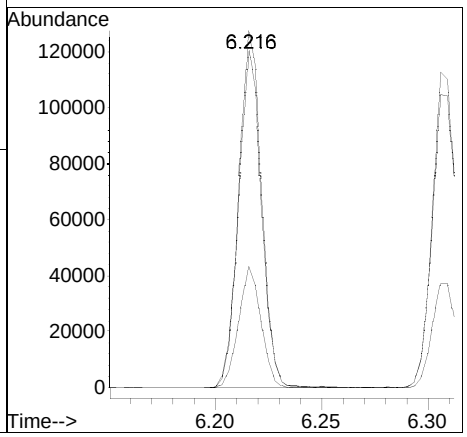


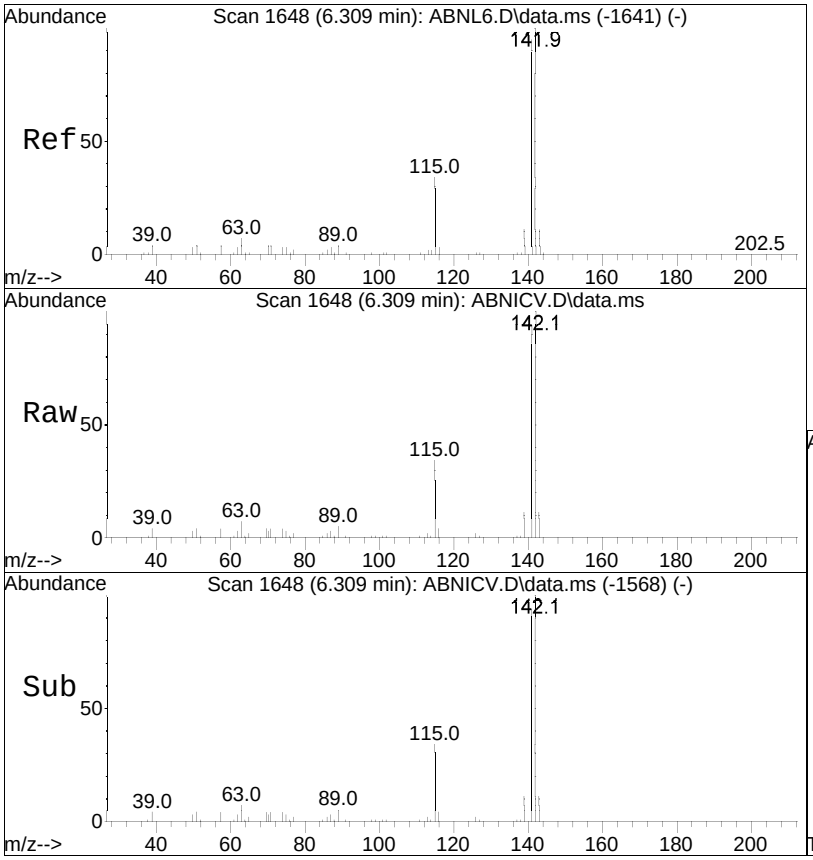


#43
2-Methylnaphthalene
Concen: 4.53 ug/ml
RT: 6.216 min Scan# 1618
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:142 Resp: 96343

Ion	Ratio	Lower	Upper
142	100		
141	93.0	69.6	104.4
115	33.1	26.6	40.0

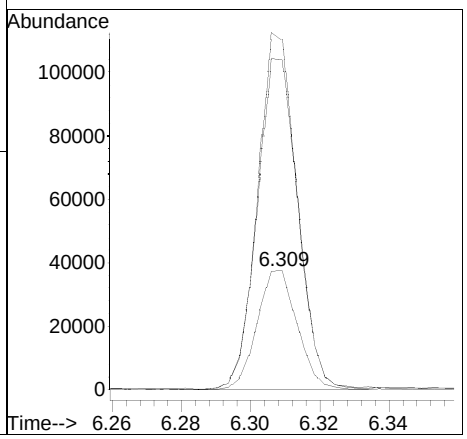


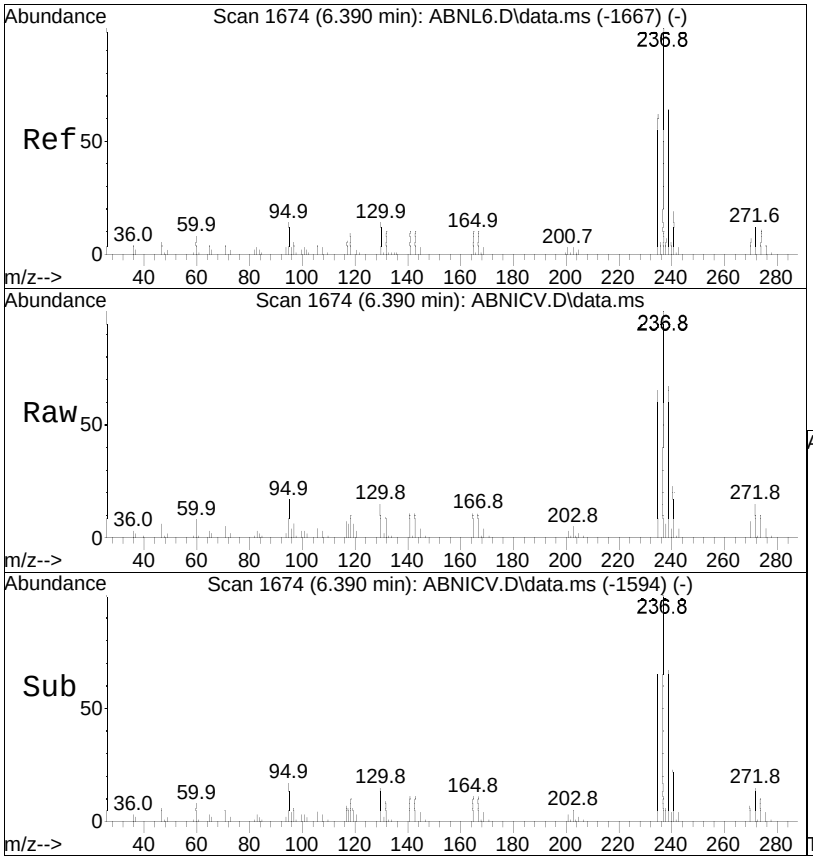


#44
1-Methylnaphthalene
Concen: 4.52 ug/ml
RT: 6.309 min Scan# 1648
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:115 Resp: 30554

Ion	Ratio	Lower	Upper
115	100		
141	278.0	207.8	311.6
142	291.9	226.8	340.2

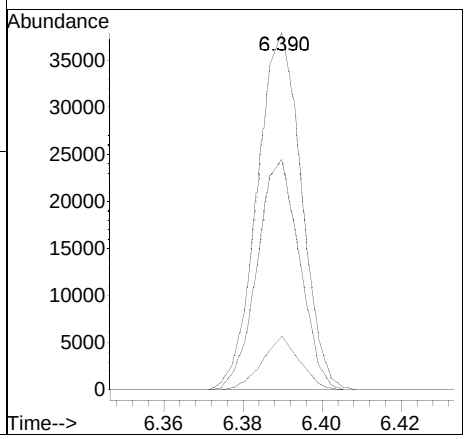


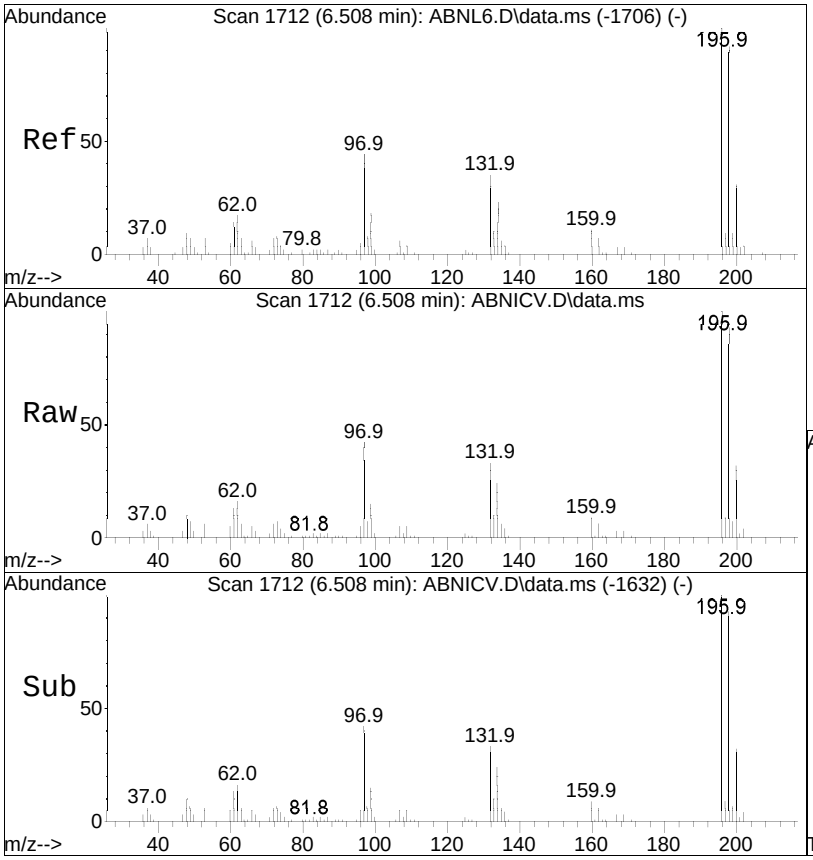


#45
Hexachlorocyclopentadiene
Concen: 3.87 ug/ml
RT: 6.390 min Scan# 1674
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:237 Resp: 29425

Ion	Ratio	Lower	Upper
237	100		
235	61.8	49.7	74.5
272	12.8	9.8	14.6

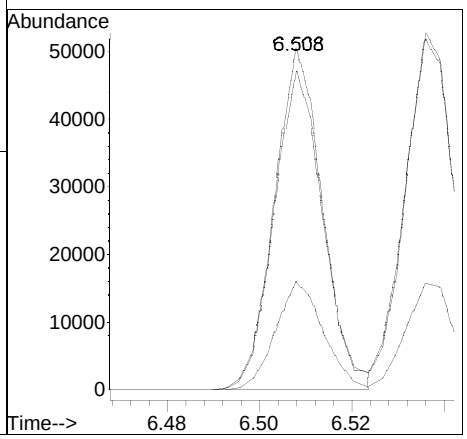


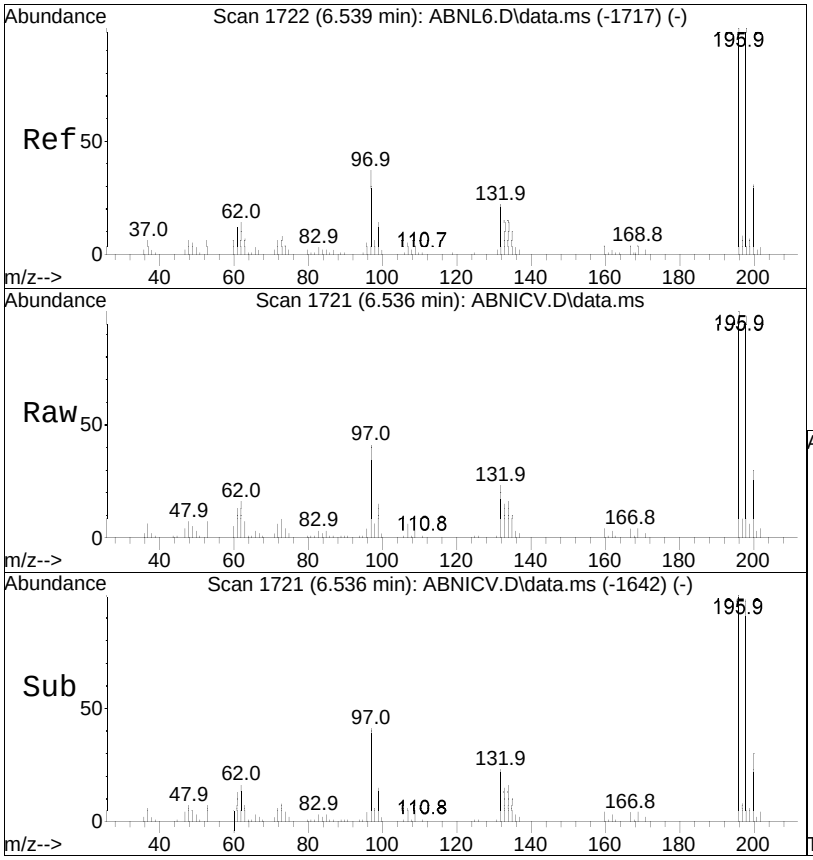


#46
2,4,6-Trichlorophenol
Concen: 4.58 ug/ml
RT: 6.508 min Scan# 1712
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:196 Resp: 36634

Ion	Ratio	Lower	Upper
196	100		
198	94.9	77.5	116.3
200	31.6	23.8	35.6

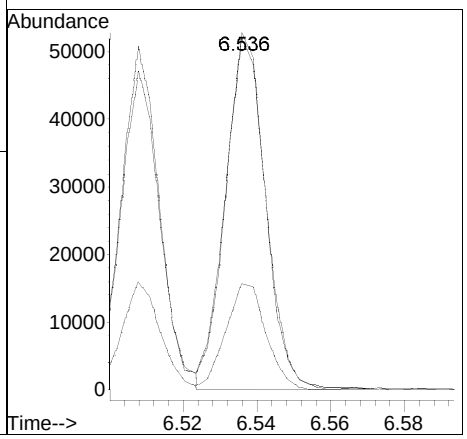


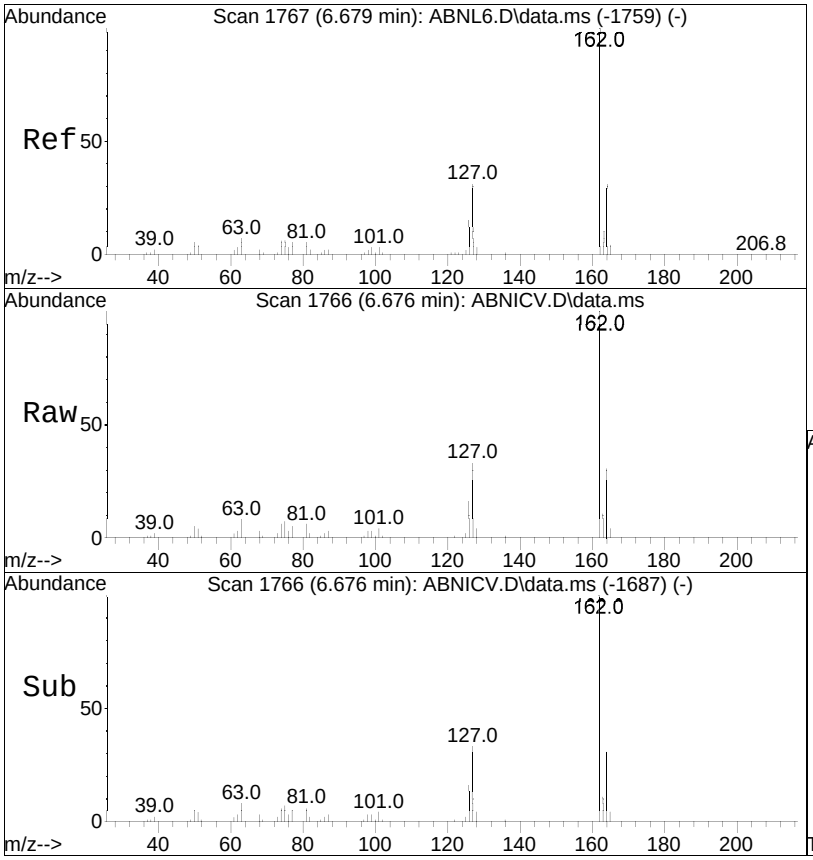


#47
2,4,5-Trichlorophenol
Concen: 4.43 ug/ml
RT: 6.536 min Scan# 1721
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:196 Resp: 39640

Ion	Ratio	Lower	Upper
196	100		
200	30.1	25.4	38.0
198	98.2	78.0	117.0

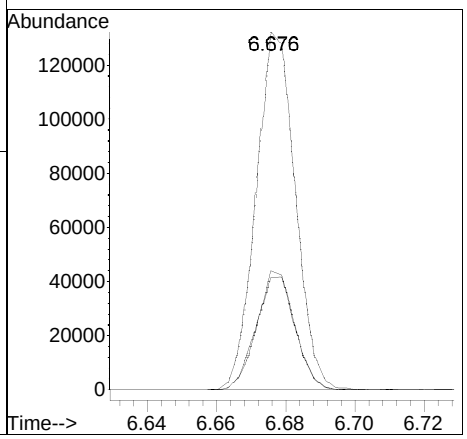


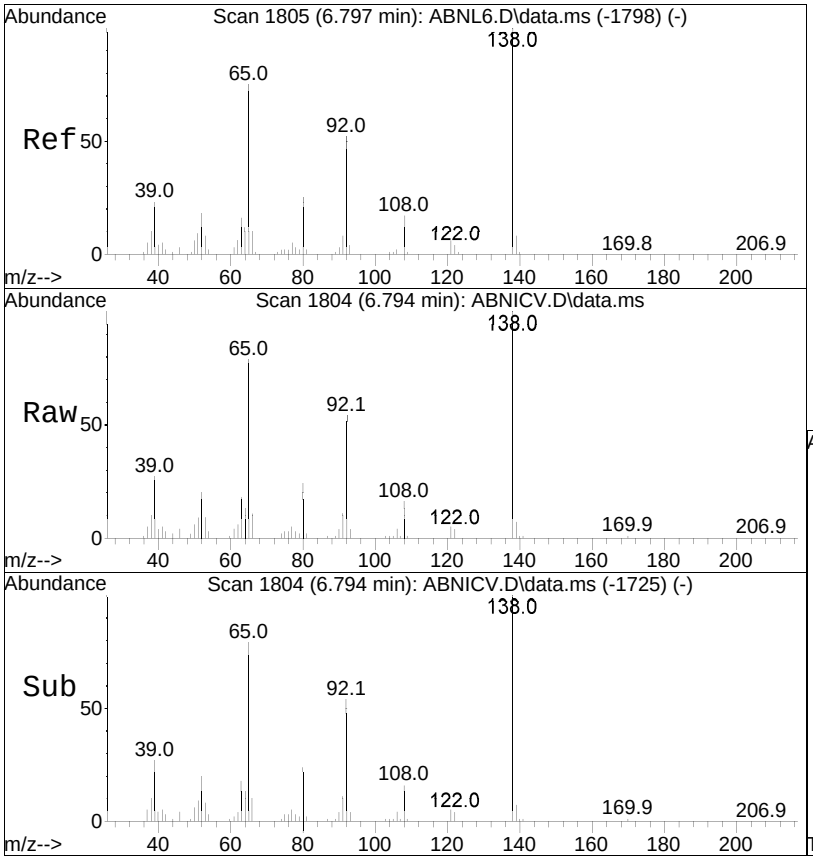


#49
2-Chloronaphthalene
Concen: 4.33 ug/ml
RT: 6.676 min Scan# 1766
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:162 Resp: 103138

Ion	Ratio	Lower	Upper
162	100		
127	32.6	32.2	48.4
164	31.6	25.7	38.5

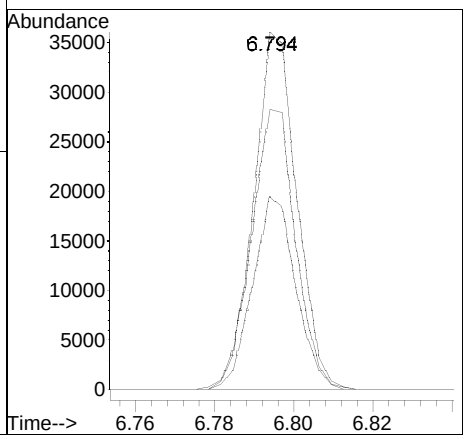


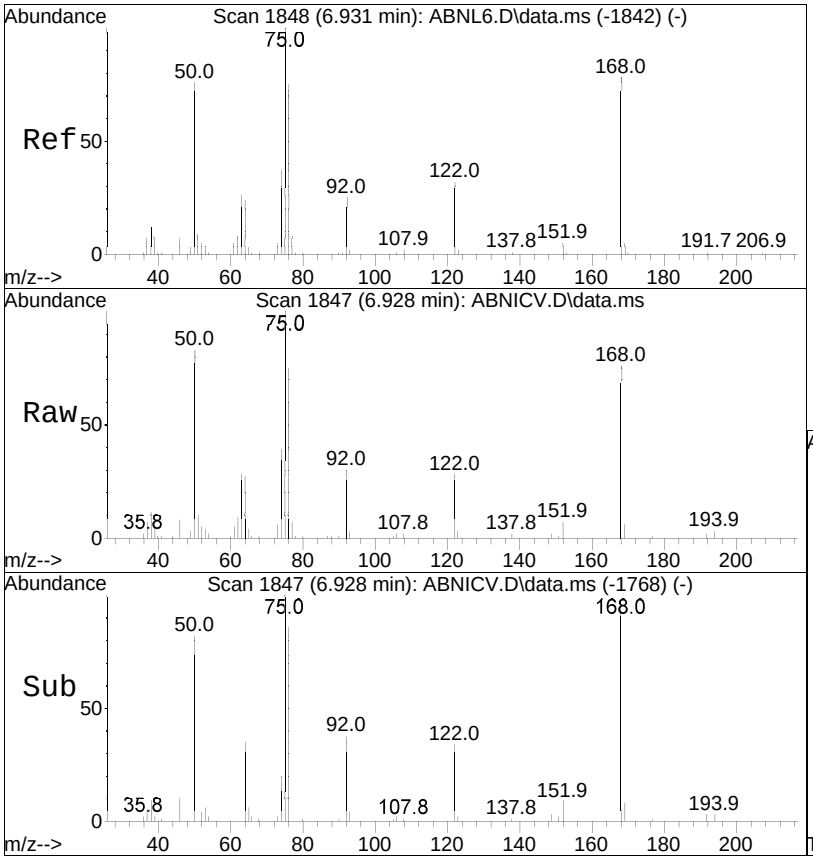


#50
2-Nitroaniline
Concen: 4.45 ug/ml
RT: 6.794 min Scan# 1804
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:138 Resp: 27096

Ion	Ratio	Lower	Upper
138	100		
92	54.3	53.5	80.3
65	80.7	86.3	129.5#

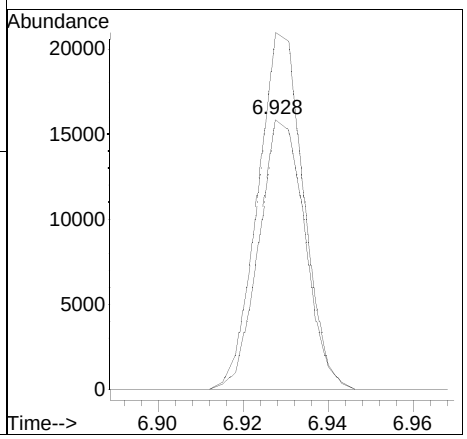


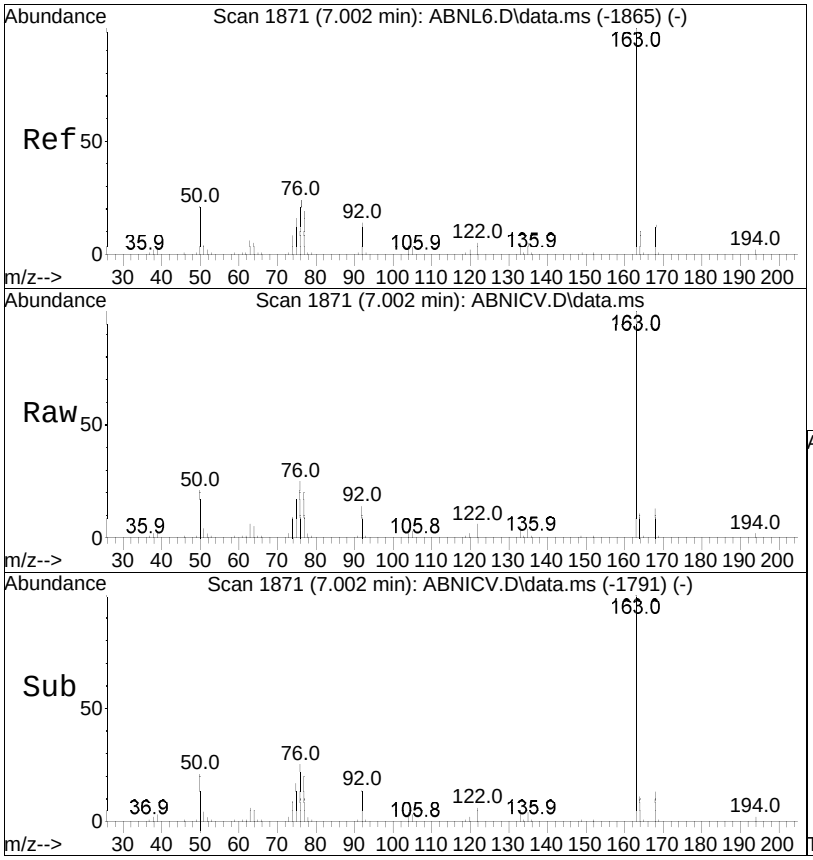


#51
1,4-Dinitrobenzene
Concen: 4.50 ug/ml
RT: 6.928 min Scan# 1847
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:168 Resp: 11911

Ion	Ratio	Lower	Upper
168	100		
75	131.0	121.8	182.8

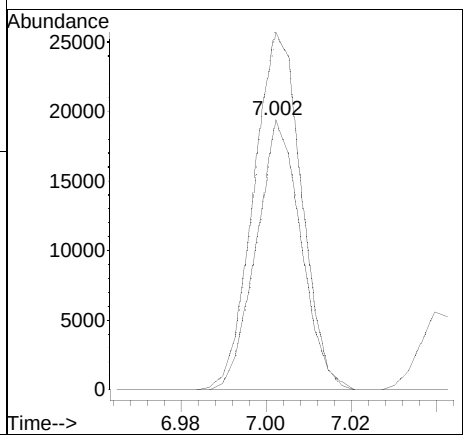


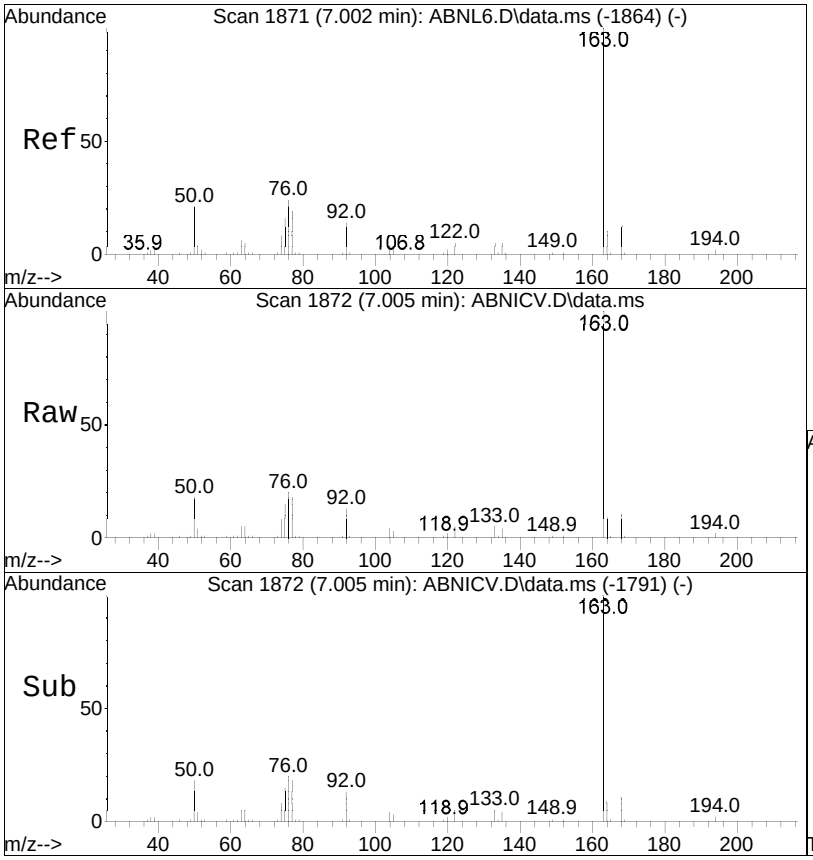


#52
1,3-Dinitrobenzene
Concen: 4.43 ug/ml
RT: 7.002 min Scan# 1871
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:168 Resp: 14057

Ion	Ratio	Lower	Upper
168	100		
75	141.5	22.7	34.1#

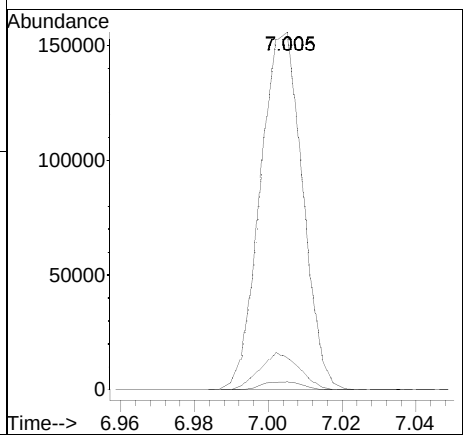


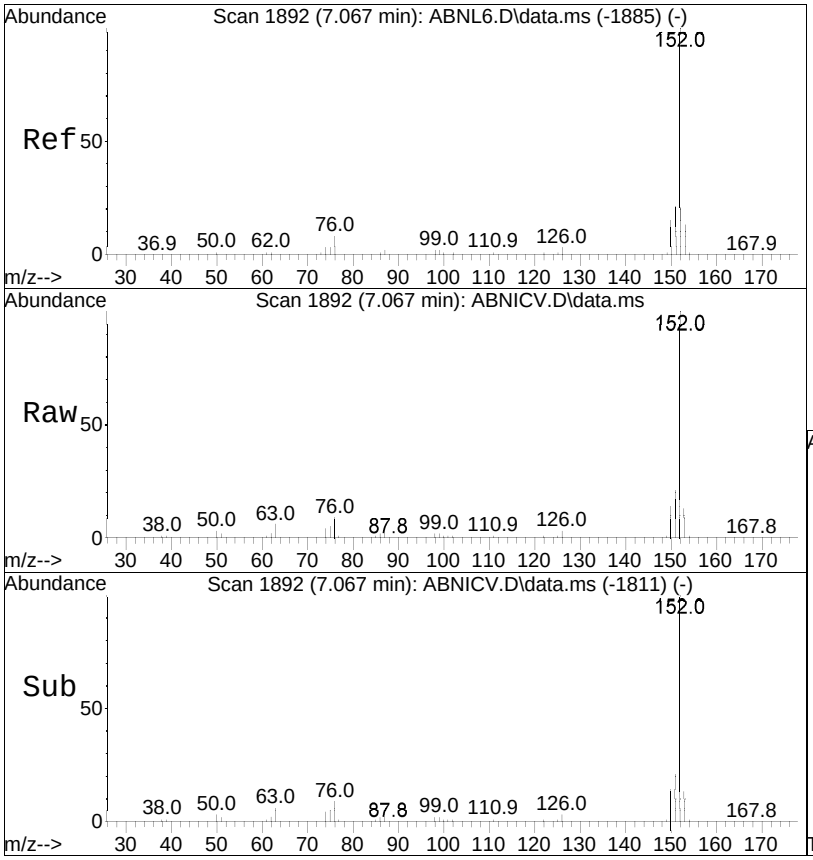


#53
Dimethyl phthalate
Concen: 4.44 ug/ml
RT: 7.005 min Scan# 1872
Delta R.T. 0.003 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:163 Resp: 122829

Ion	Ratio	Lower	Upper
163	100		
194	2.3	3.5	5.3#
164	9.9	7.9	11.9

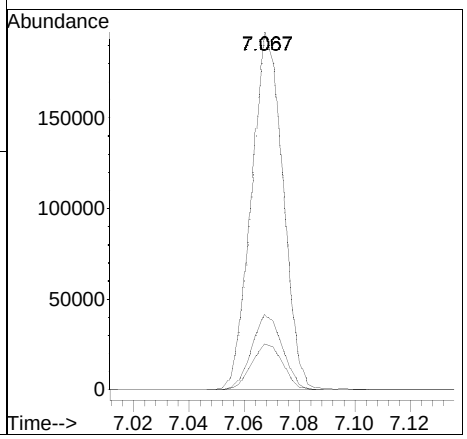


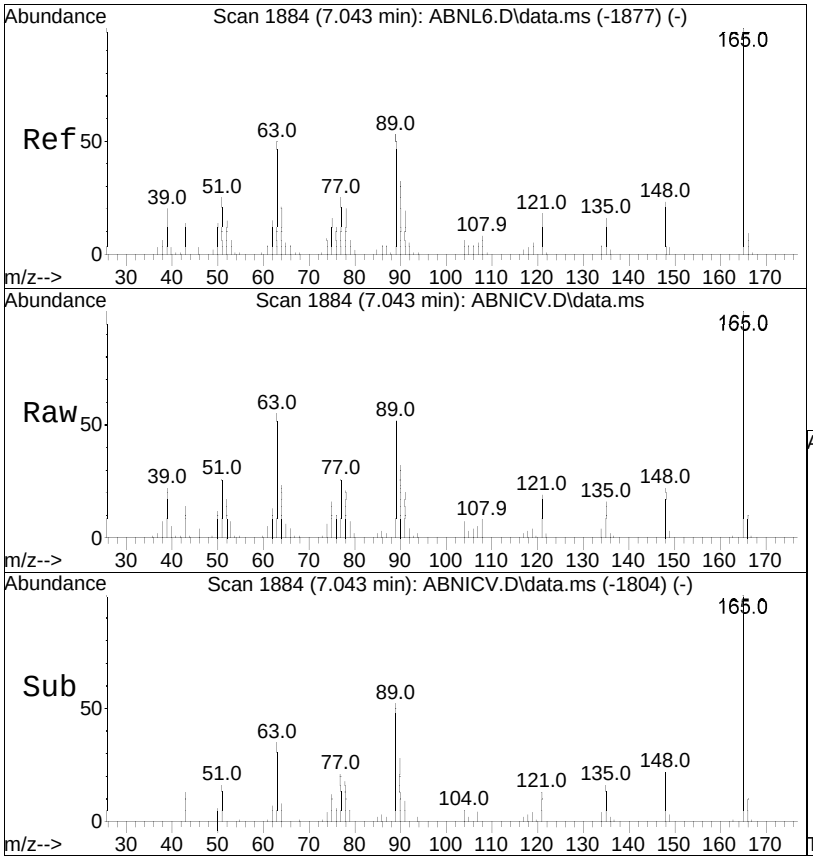


#54
Acenaphthylene
Concen: 4.44 ug/ml
RT: 7.067 min Scan# 1892
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:152 Resp: 155180

Ion	Ratio	Lower	Upper
152	100		
151	20.6	15.8	23.6
153	12.8	10.5	15.7

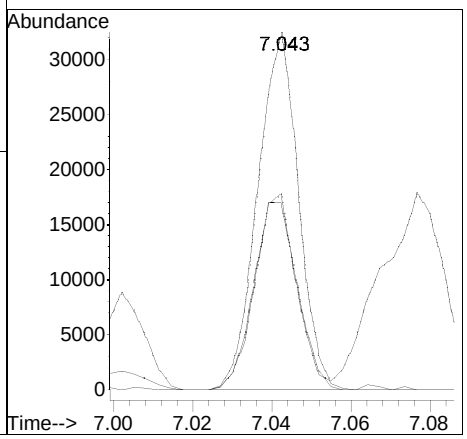


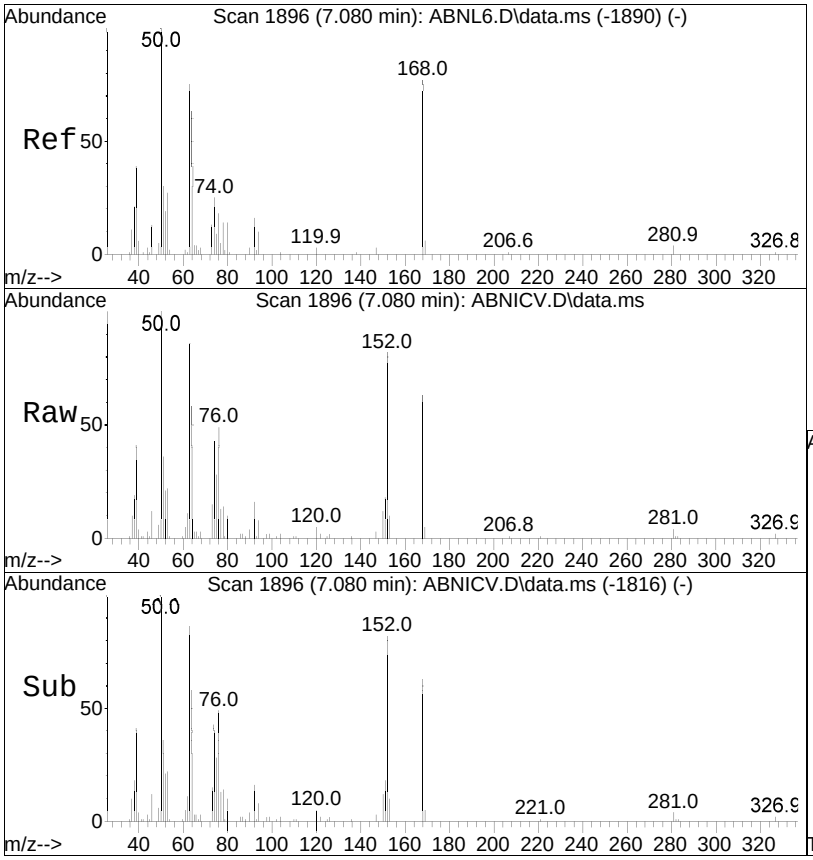


#55
2,6-Dinitrotoluene
Concen: 4.50 ug/ml
RT: 7.043 min Scan# 1884
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:165 Resp: 23242

Ion	Ratio	Lower	Upper
165	100		
89	55.9	54.2	81.2
63	56.7	64.2	96.2#

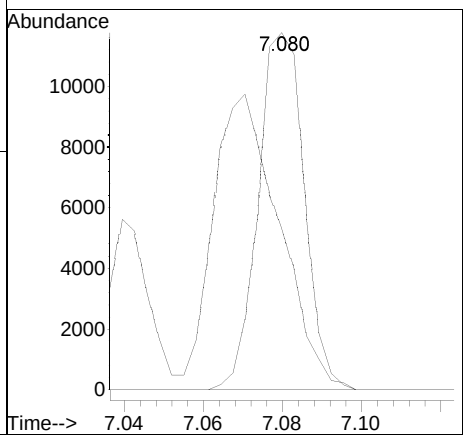


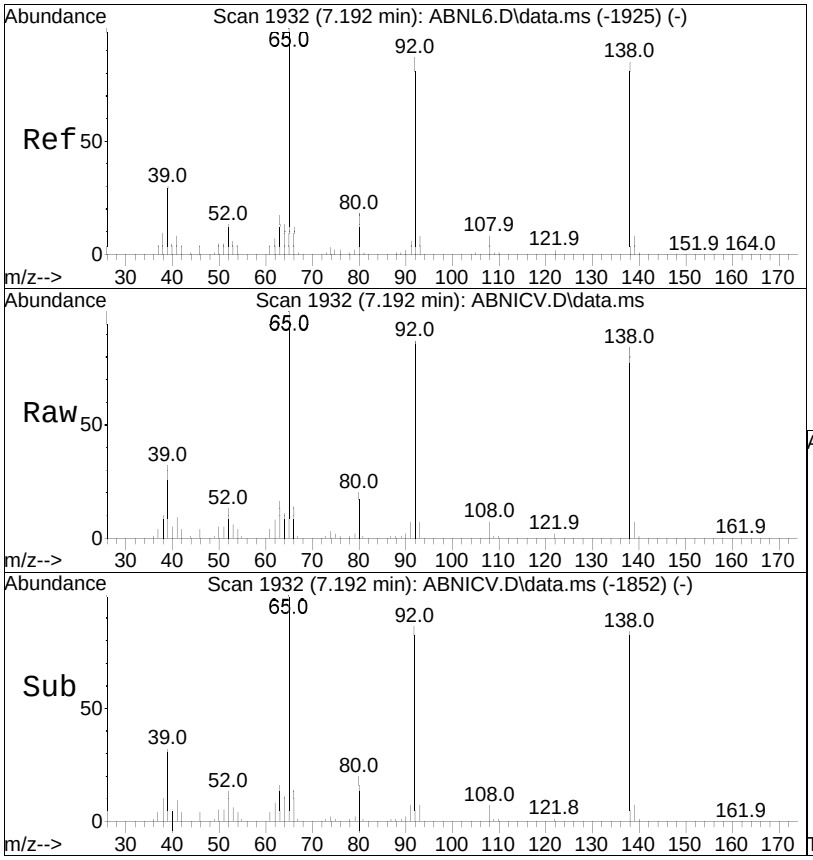


#56
1,2-Dinitrobenzene
Concen: 5.13 ug/ml
RT: 7.080 min Scan# 1896
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:168 Resp: 9499

Ion	Ratio	Lower	Upper
168	100		
75	118.0	30.9	46.3#

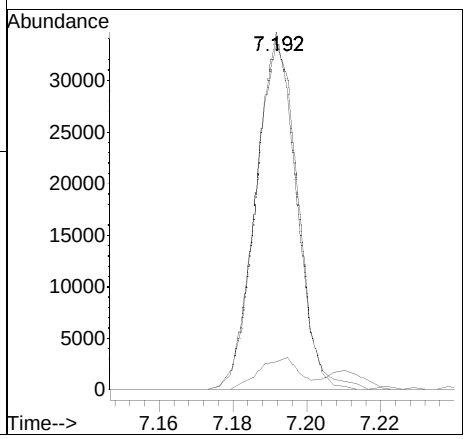


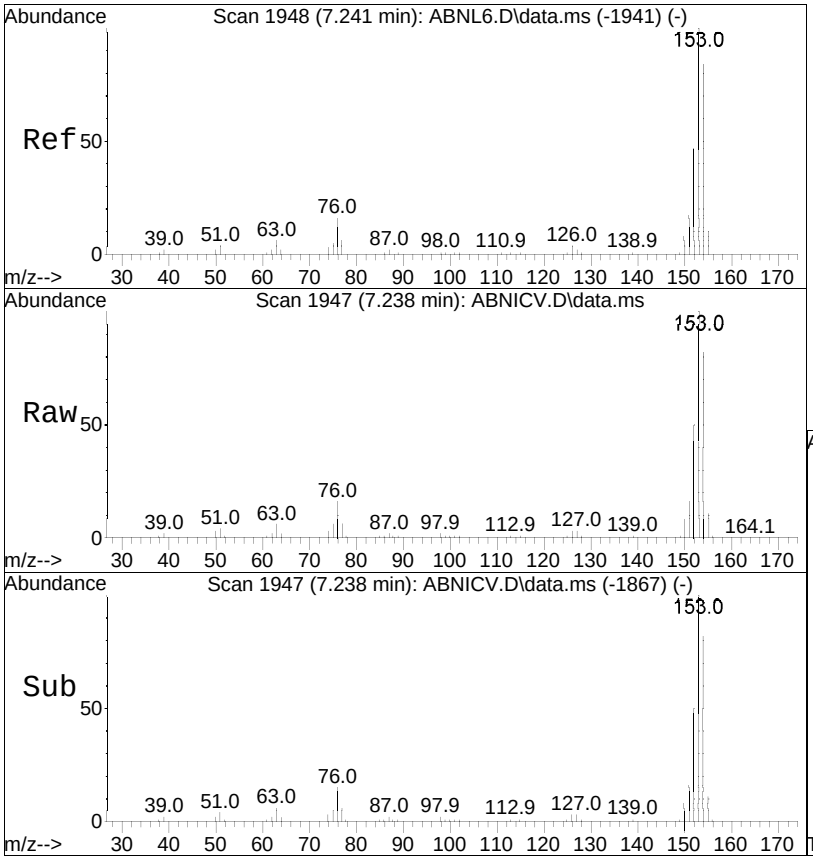


#66
3-Nitroaniline
Concen: 4.70 ug/ml
RT: 7.192 min Scan# 1932
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:138 Resp: 26098

Ion	Ratio	Lower	Upper
138	100		
92	100.6	93.4	140.2
108	9.1	9.5	14.3#

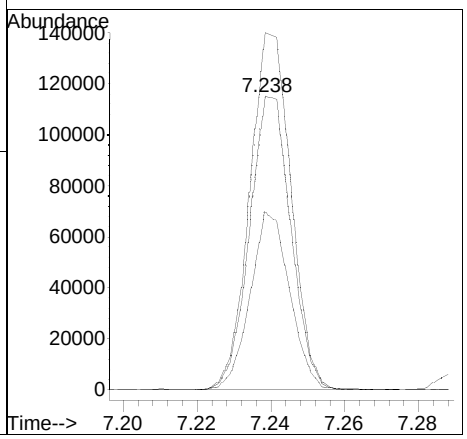


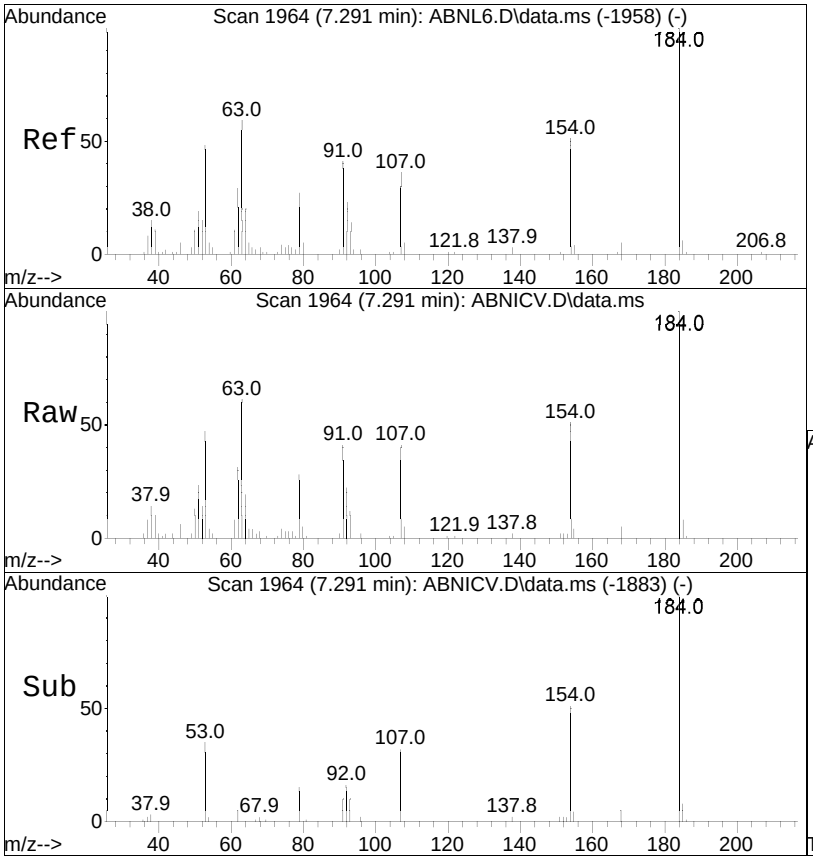


#67
Acenaphthene
Concen: 4.27 ug/ml
RT: 7.238 min Scan# 1947
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:154 Resp: 89205

Ion	Ratio	Lower	Upper
154	100		
153	122.2	85.3	127.9
152	58.1	41.4	62.0

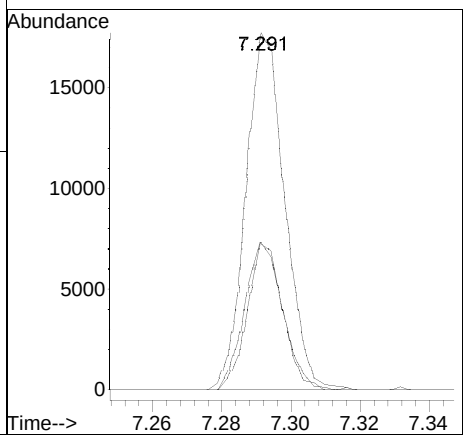


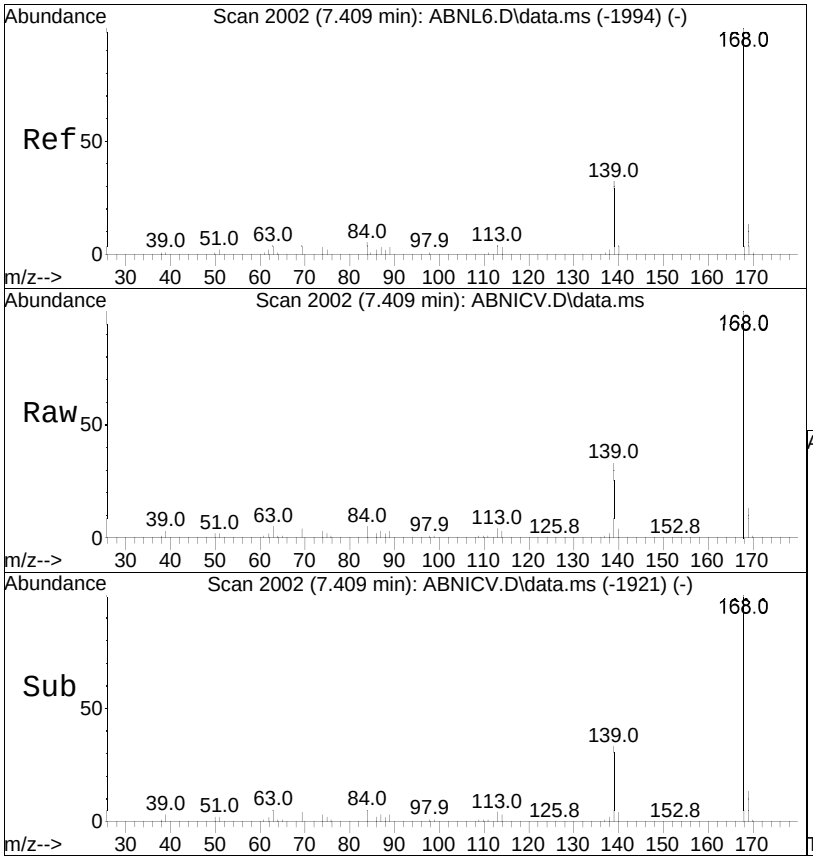


#68
2,4-Dinitrophenol
Concen: 4.13 ug/ml
RT: 7.291 min Scan# 1964
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:184 Resp: 13757

Ion	Ratio	Lower	Upper
184	100		
107	38.0	37.7	56.5
91	39.9	46.3	69.5#

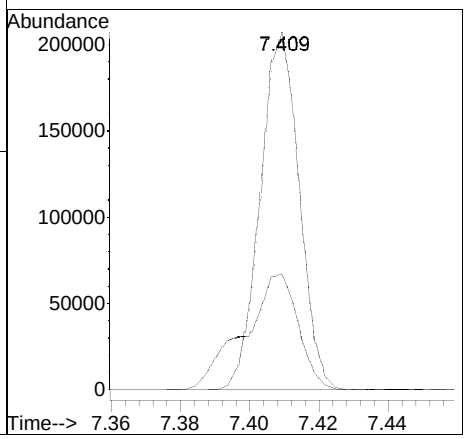


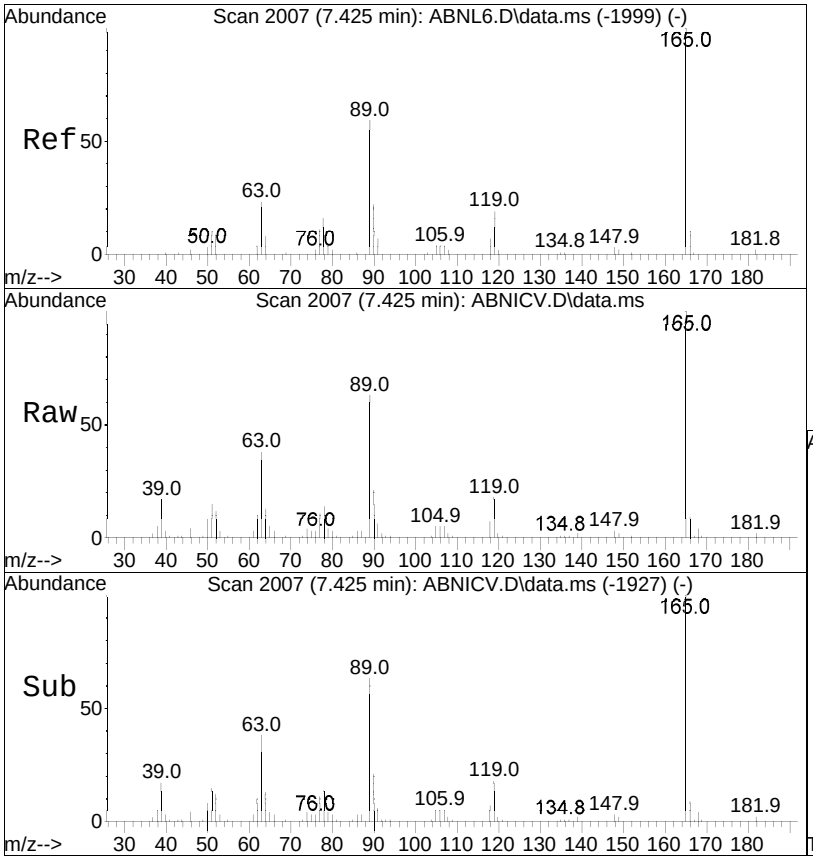


#69
Dibenzofuran
Concen: 4.45 ug/ml
RT: 7.409 min Scan# 2002
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:168 Resp: 160445

Ion	Ratio	Lower	Upper
168	100		
139	45.7	31.4	47.2

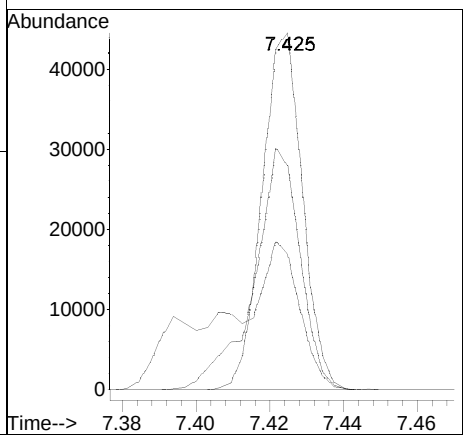


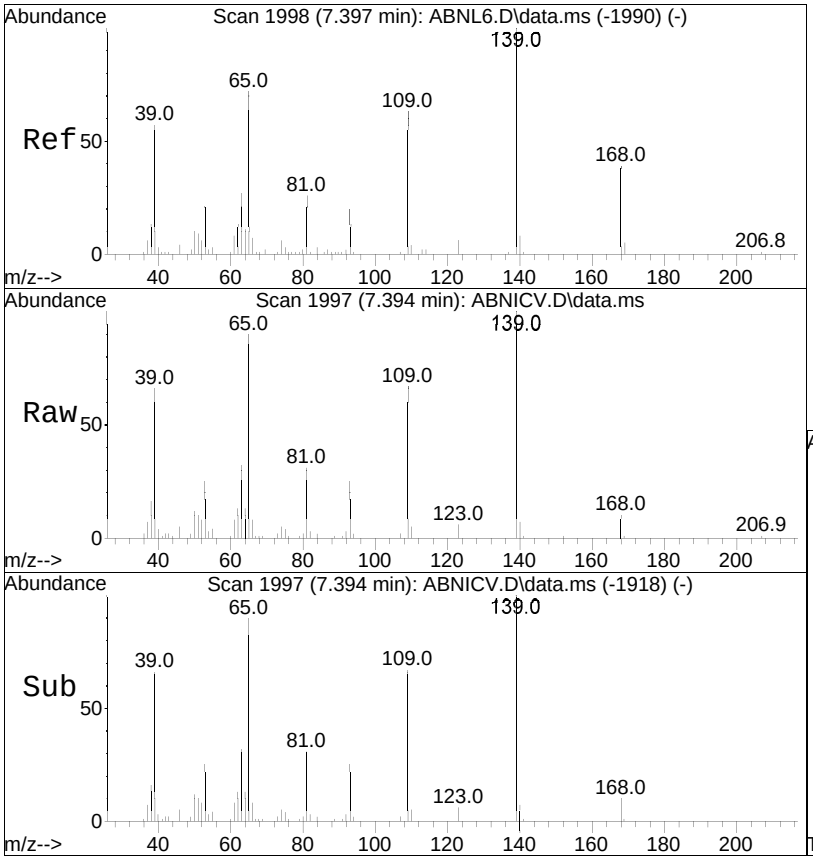


#70
2,4-Dinitrotoluene
Concen: 4.84 ug/ml
RT: 7.425 min Scan# 2007
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:165 Resp: 33658

Ion	Ratio	Lower	Upper
165	100		
89	77.6	72.0	108.0
63	41.9	52.7	79.1#

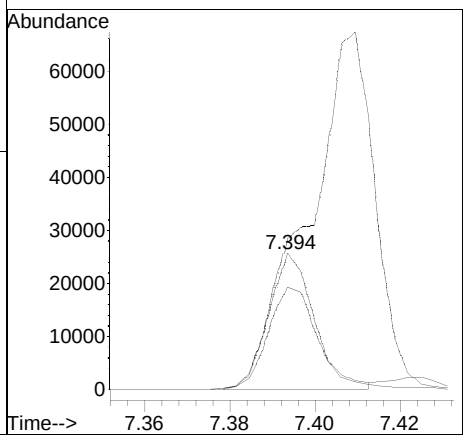


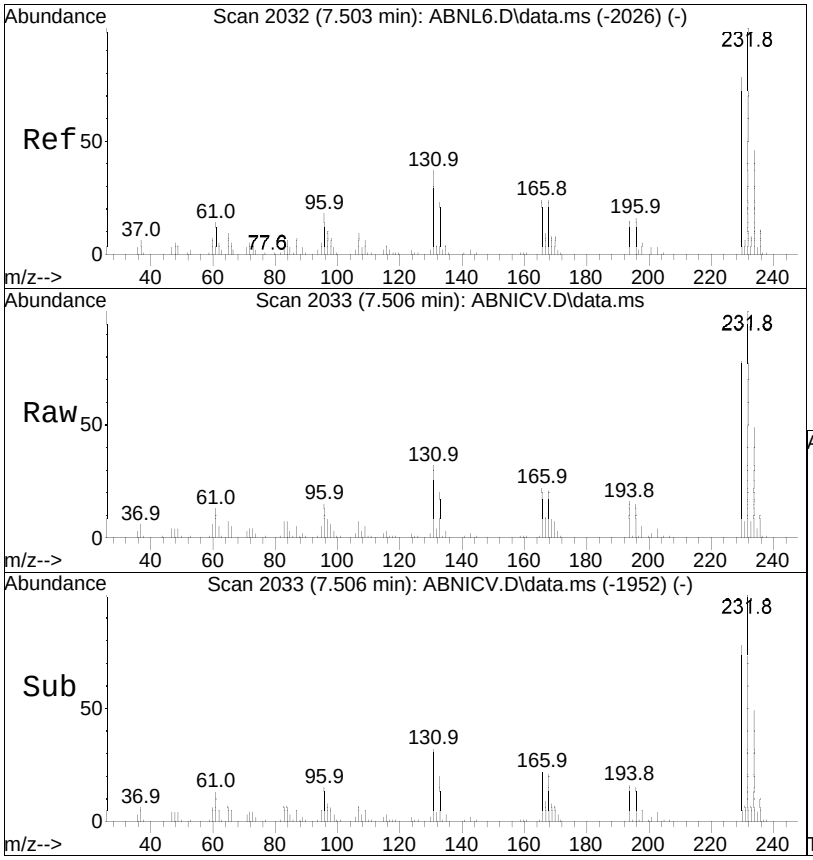


#71
4-Nitrophenol
Concen: 4.67 ug/ml
RT: 7.394 min Scan# 1997
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion: 65 Resp: 19325

Ion	Ratio	Lower	Upper
65	100		
109	81.5	47.4	71.2#
139	0.0	76.6	115.0#

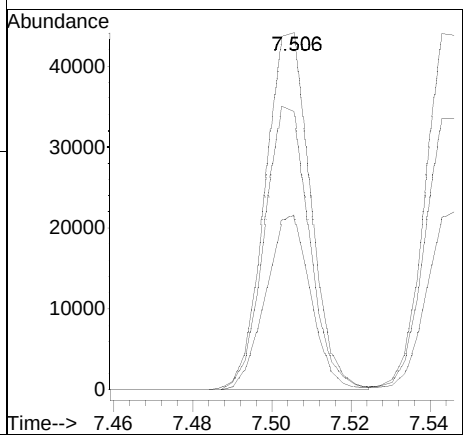


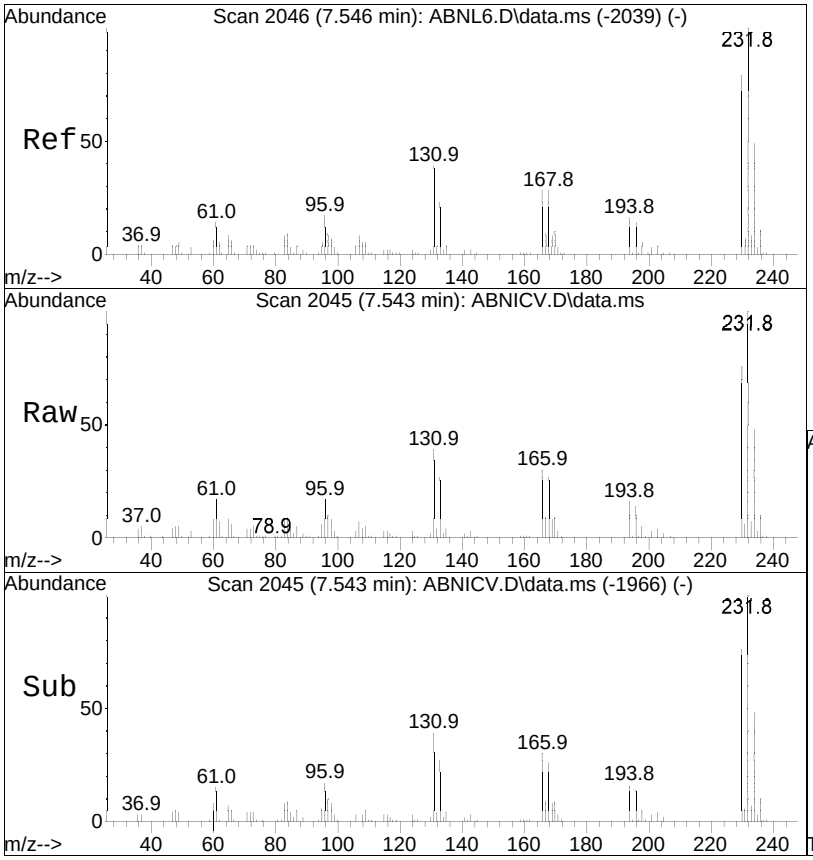


#72
2,3,5,6-Tetrachlorophenol
Concen: 4.52 ug/ml
RT: 7.506 min Scan# 2033
Delta R.T. 0.003 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:232 Resp: 35437

Ion	Ratio	Lower	Upper
232	100		
230	78.3	64.2	96.4
234	48.2	38.1	57.1

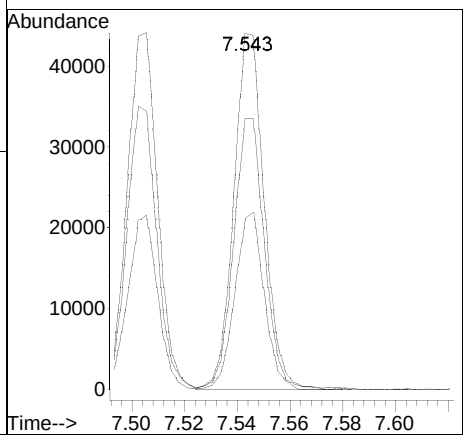


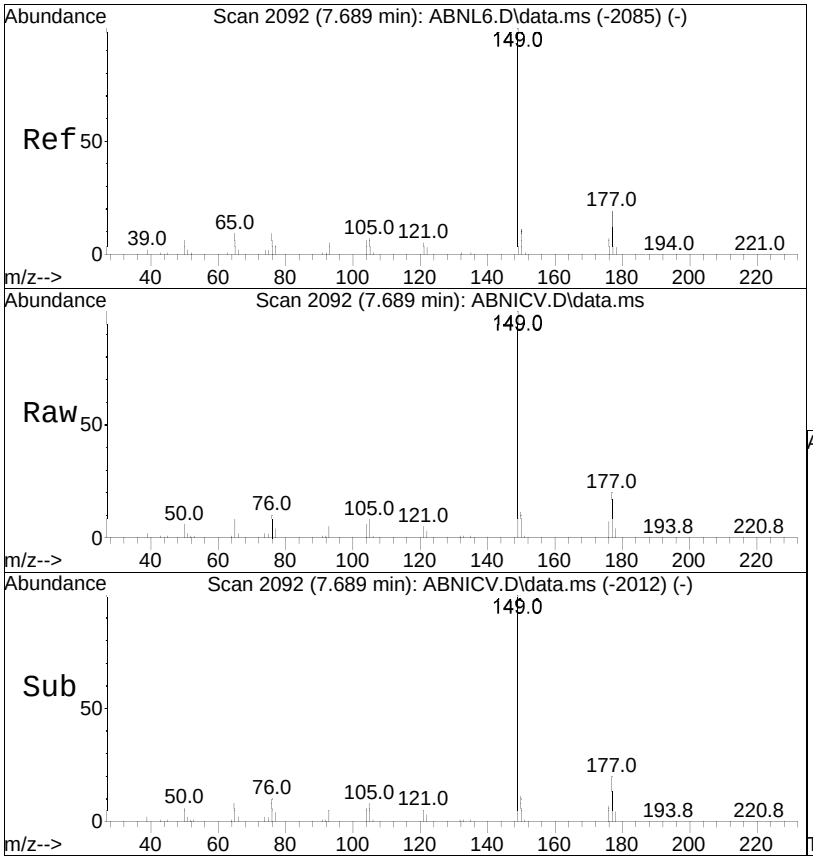


#73
2,3,4,6-Tetrachlorophenol
Concen: 4.63 ug/ml
RT: 7.543 min Scan# 2045
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:232 Resp: 35578

Ion	Ratio	Lower	Upper
232	100		
230	76.6	61.8	92.8
234	47.2	36.2	54.2

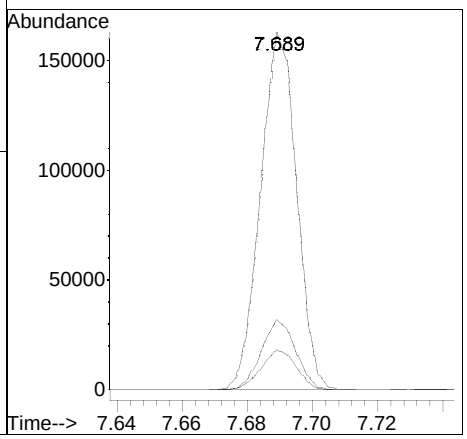


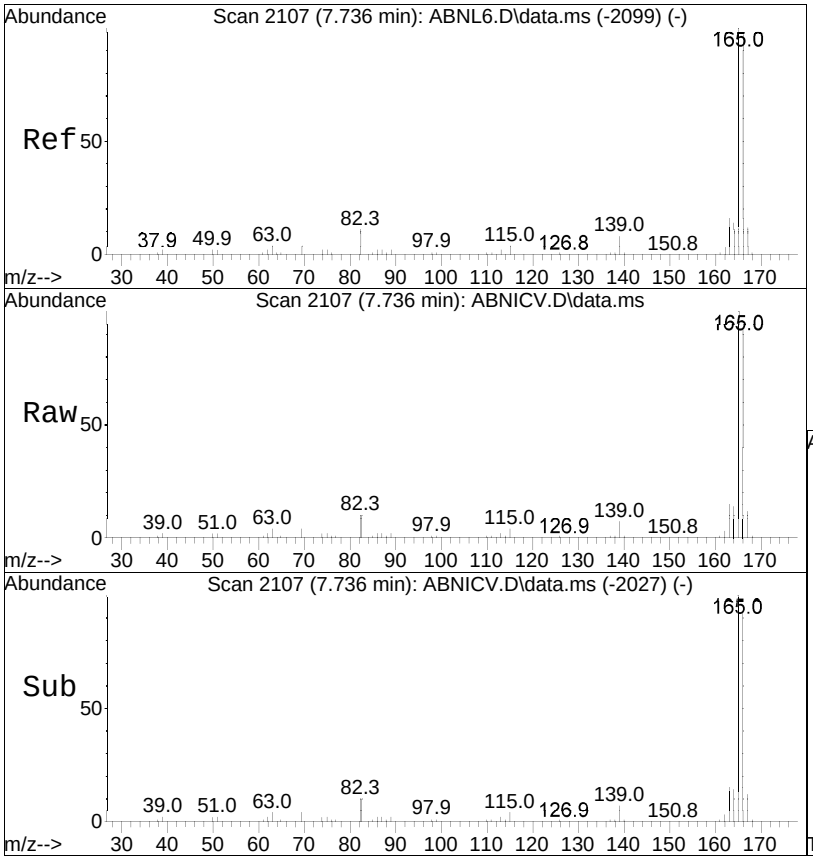


#74
Diethyl phthalate
Concen: 4.38 ug/ml
RT: 7.689 min Scan# 2092
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:149 Resp: 123901

Ion	Ratio	Lower	Upper
149	100		
177	18.9	16.1	24.1
150	11.2	9.4	14.2

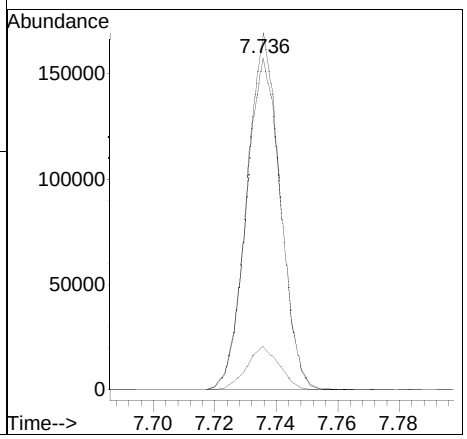


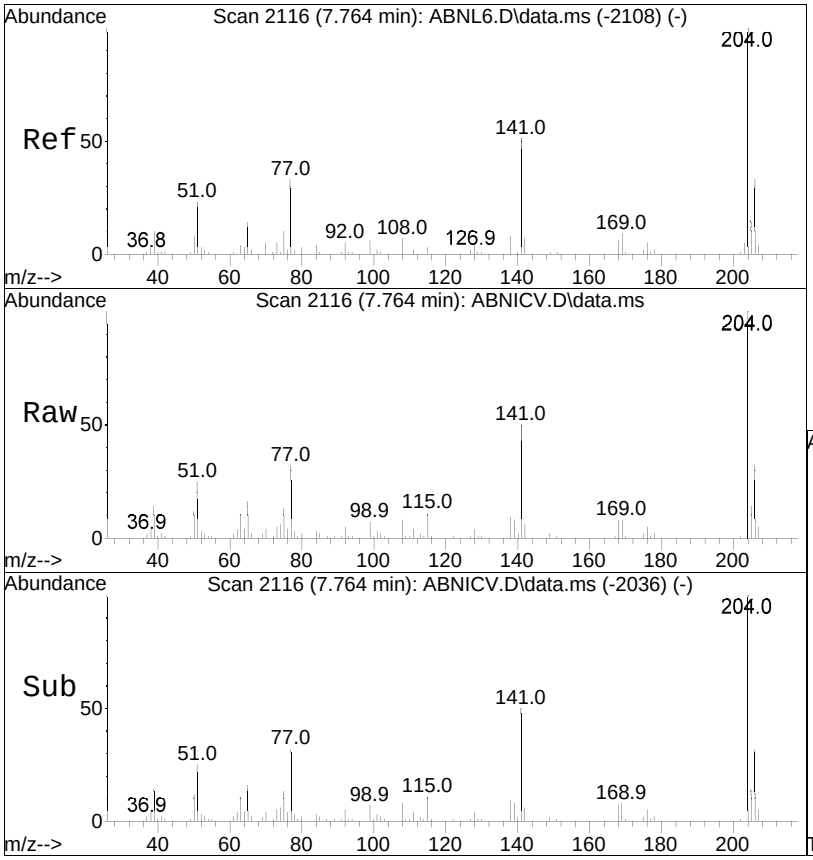


#75
Fluorene
Concen: 4.42 ug/ml
RT: 7.736 min Scan# 2107
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:166 Resp: 122050

Ion	Ratio	Lower	Upper
166	100		
165	104.2	76.2	114.2
167	12.5	10.6	15.8

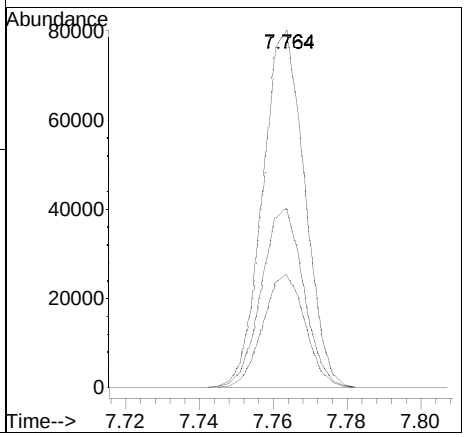


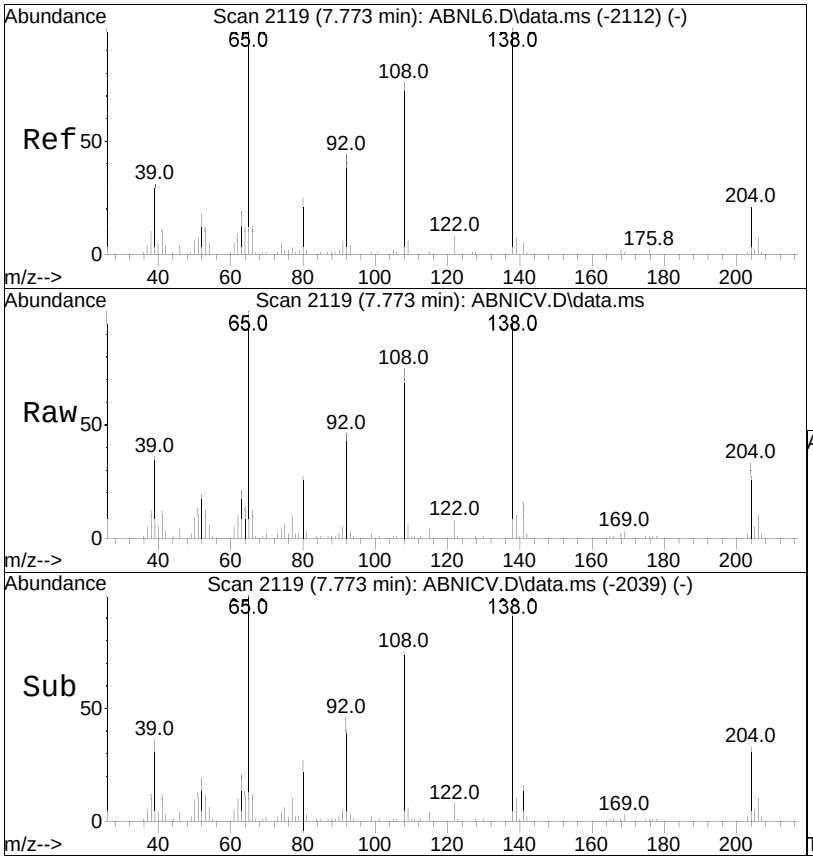


#76
4-Chlorophenyl phenyl ether
Concen: 4.43 ug/ml
RT: 7.764 min Scan# 2116
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:204 Resp: 63042

Ion	Ratio	Lower	Upper
204	100		
206	31.9	25.8	38.6
141	50.4	53.6	80.4#

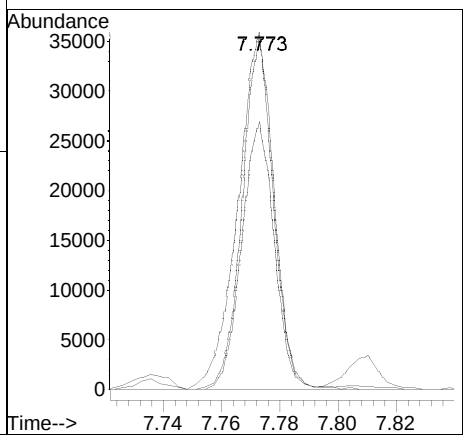


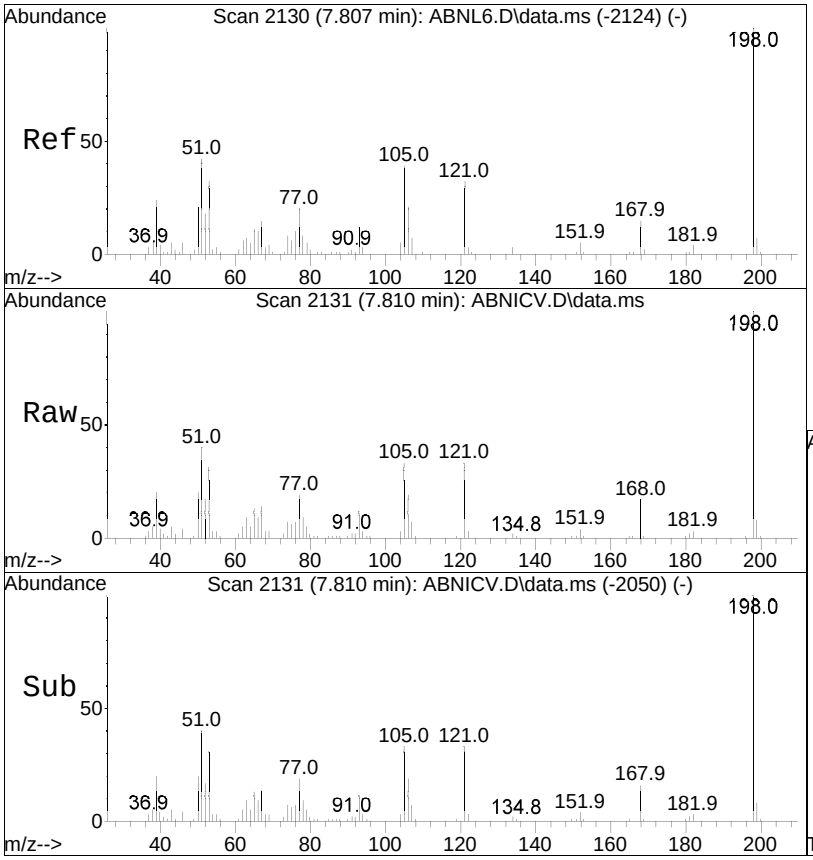


#77
4-Nitroaniline
Concen: 5.02 ug/ml
RT: 7.773 min Scan# 2119
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:138 Resp: 26907

Ion	Ratio	Lower	Upper
138	100		
108	77.2	52.1	78.1
65	111.2	115.0	172.6#

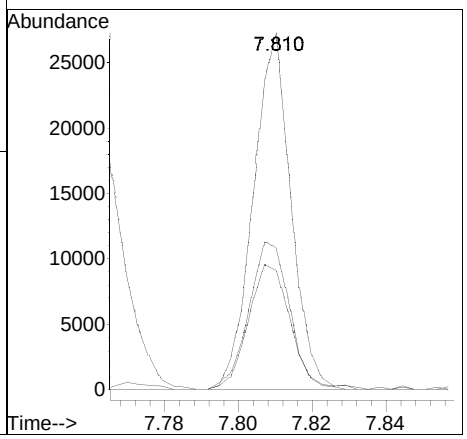


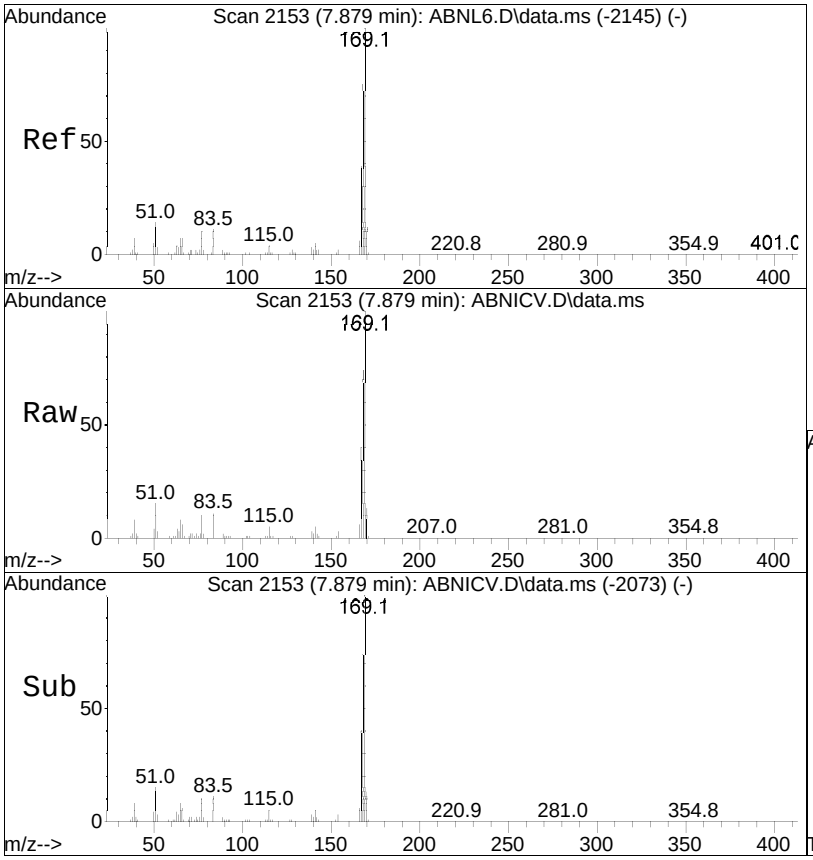


#78
4,6-Dinitro-o-cresol
Concen: 4.61 ug/ml
RT: 7.810 min Scan# 2131
Delta R.T. 0.003 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:198 Resp: 19382

Ion	Ratio	Lower	Upper
198	100		
51	45.2	76.0	114.0#
105	38.6	45.6	68.4#

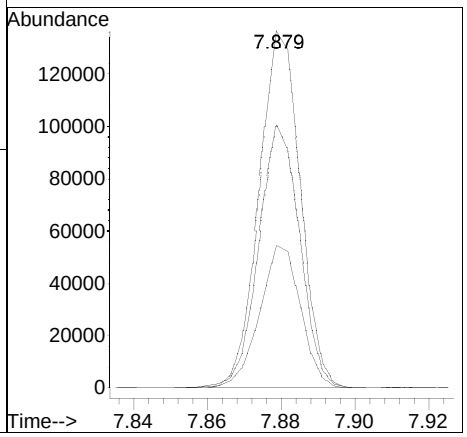


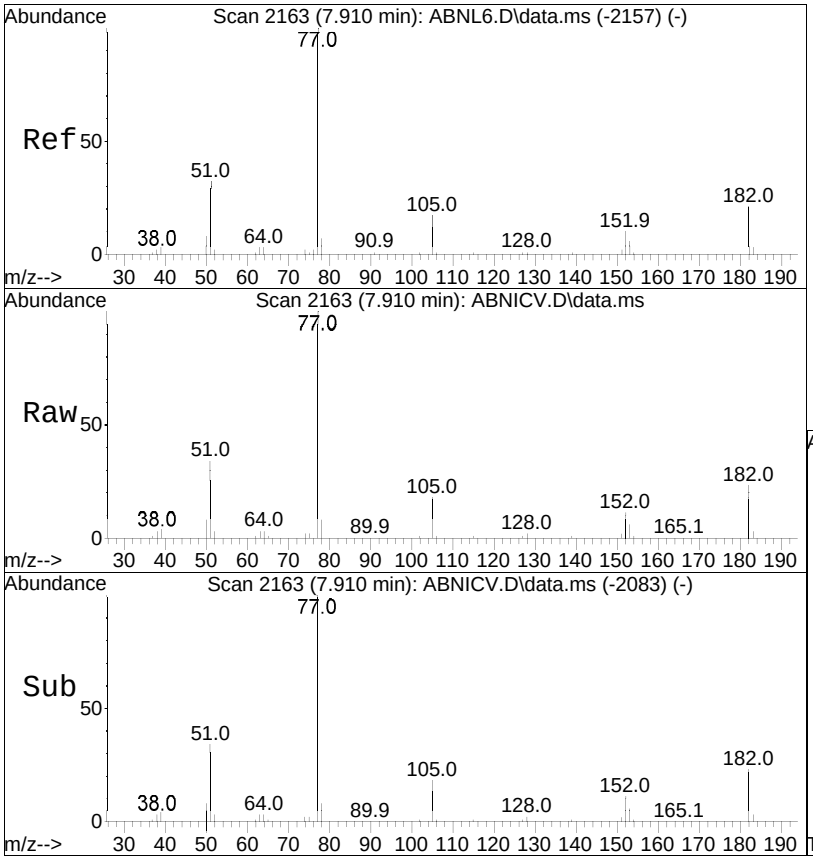


#79
NDPA/DPA
Concen: 4.40 ug/ml
RT: 7.879 min Scan# 2153
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:169 Resp: 105614

Ion	Ratio	Lower	Upper
169	100		
168	73.5	54.0	81.0
167	39.9	28.6	42.8

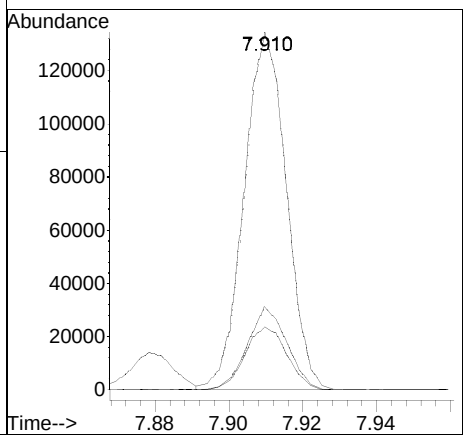


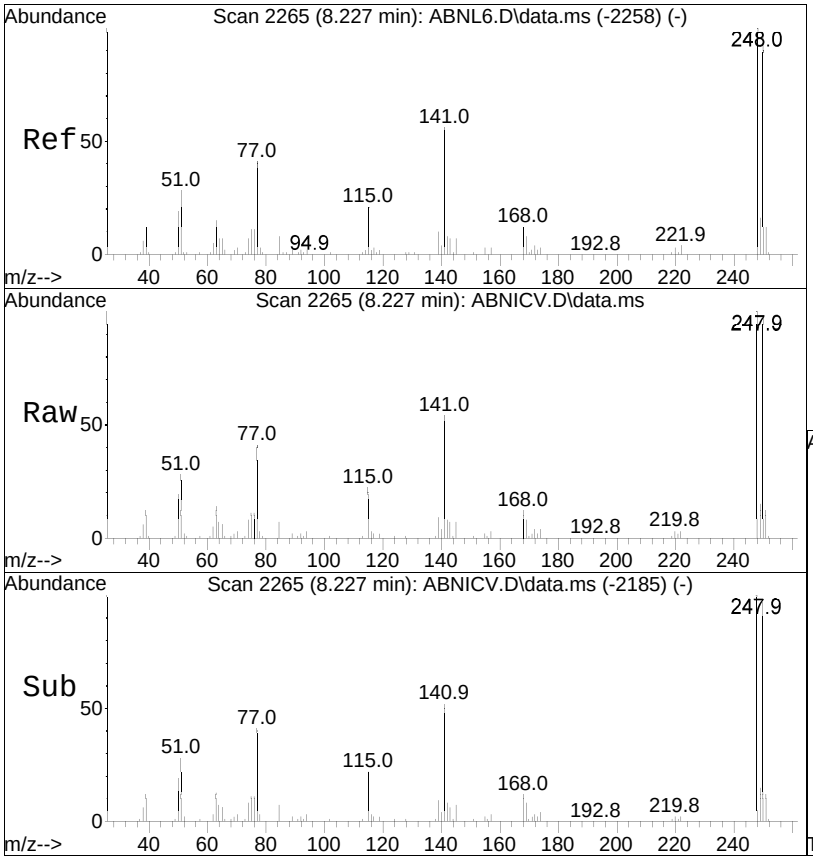


#80
Azobenzene
Concen: 4.60 ug/ml
RT: 7.910 min Scan# 2163
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion: 77 Resp: 105841

Ion	Ratio	Lower	Upper
77	100		
182	21.9	17.4	26.2
105	17.7	15.4	23.2

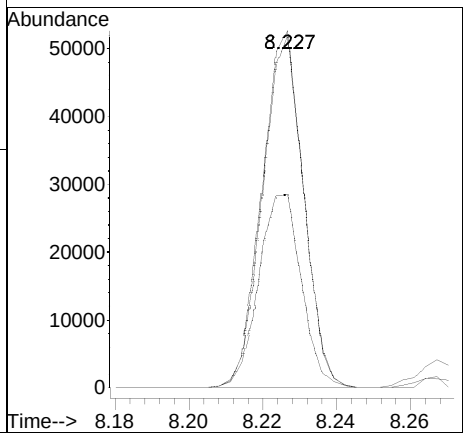


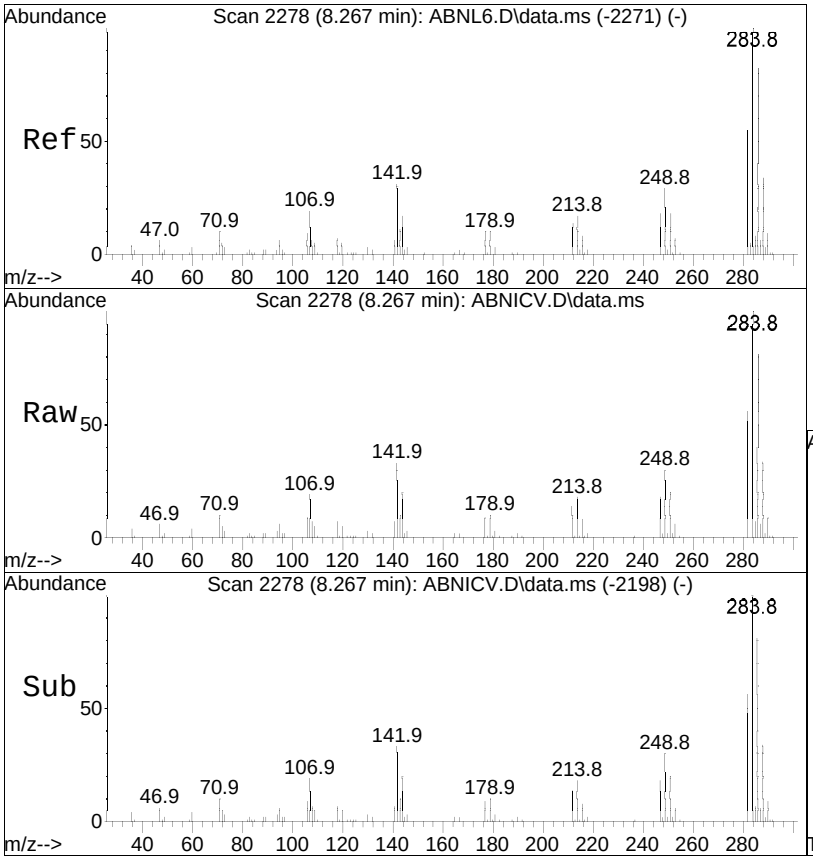


#82
4-Bromophenyl phenyl ether
Concen: 4.36 ug/ml
RT: 8.227 min Scan# 2265
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:248 Resp: 40811

Ion	Ratio	Lower	Upper
248	100		
141	55.8	76.6	114.8#
250	97.2	77.3	115.9

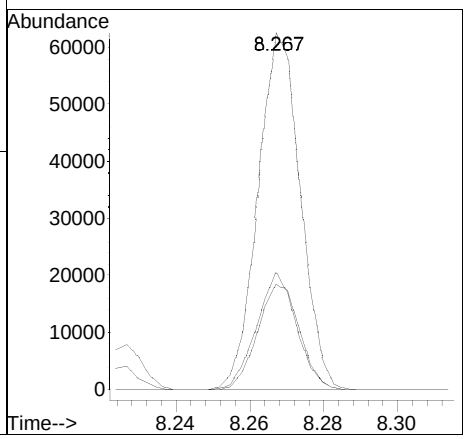


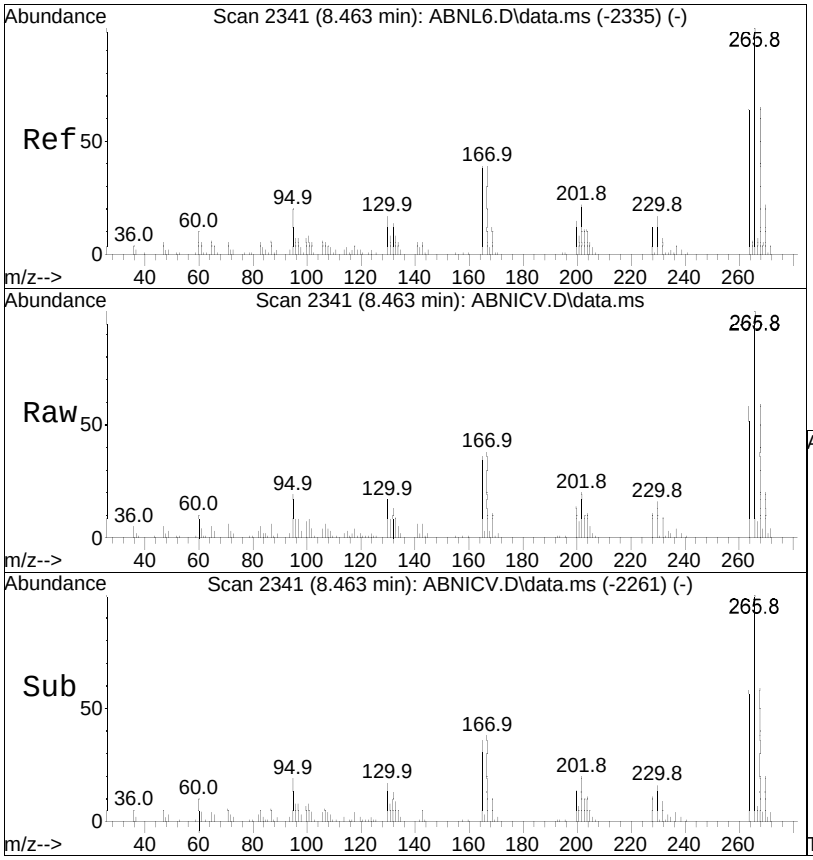


#83
Hexachlorobenzene
Concen: 4.21 ug/ml
RT: 8.267 min Scan# 2278
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:284 Resp: 49668

Ion	Ratio	Lower	Upper
284	100		
142	31.2	41.9	62.9#
249	29.5	24.1	36.1

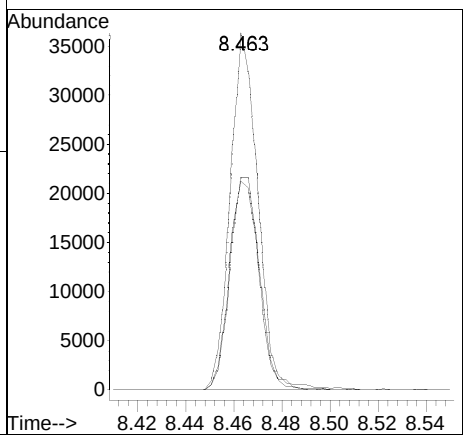


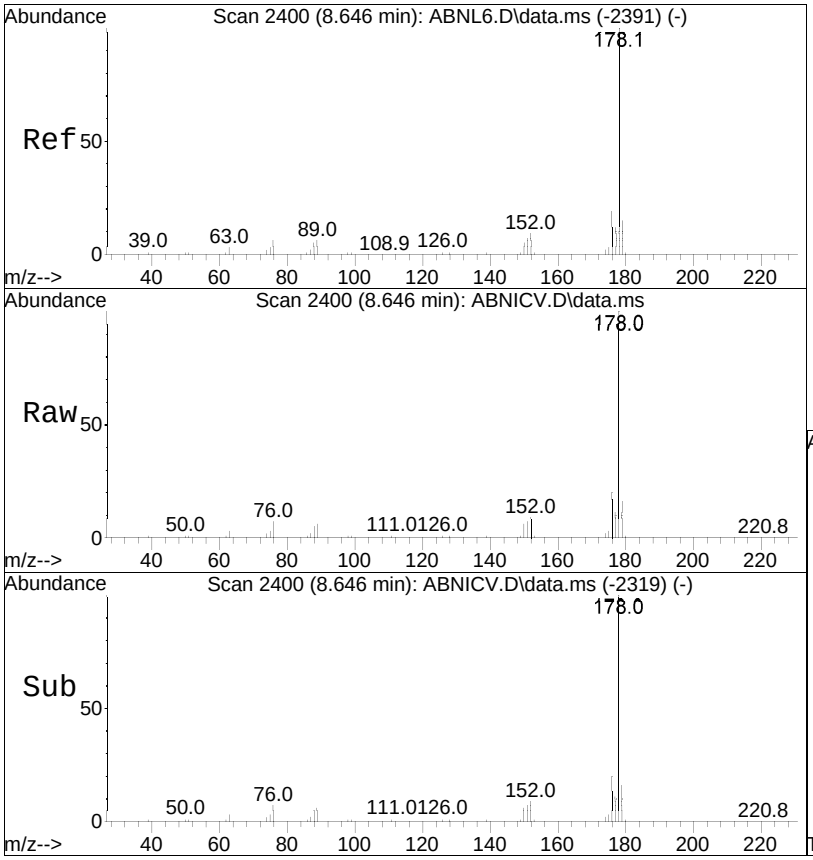


#84
Pentachlorophenol
Concen: 4.55 ug/ml
RT: 8.463 min Scan# 2341
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:266 Resp: 29051

Ion	Ratio	Lower	Upper
266	100		
264	62.1	49.7	74.5
268	63.9	50.5	75.7

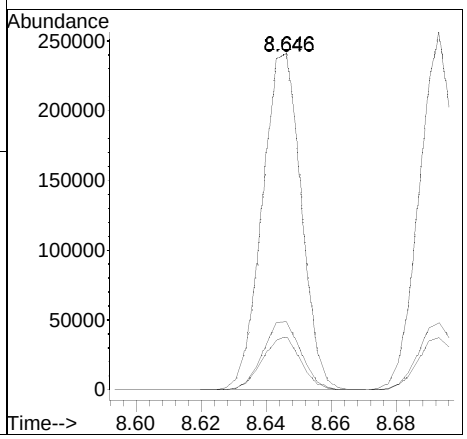


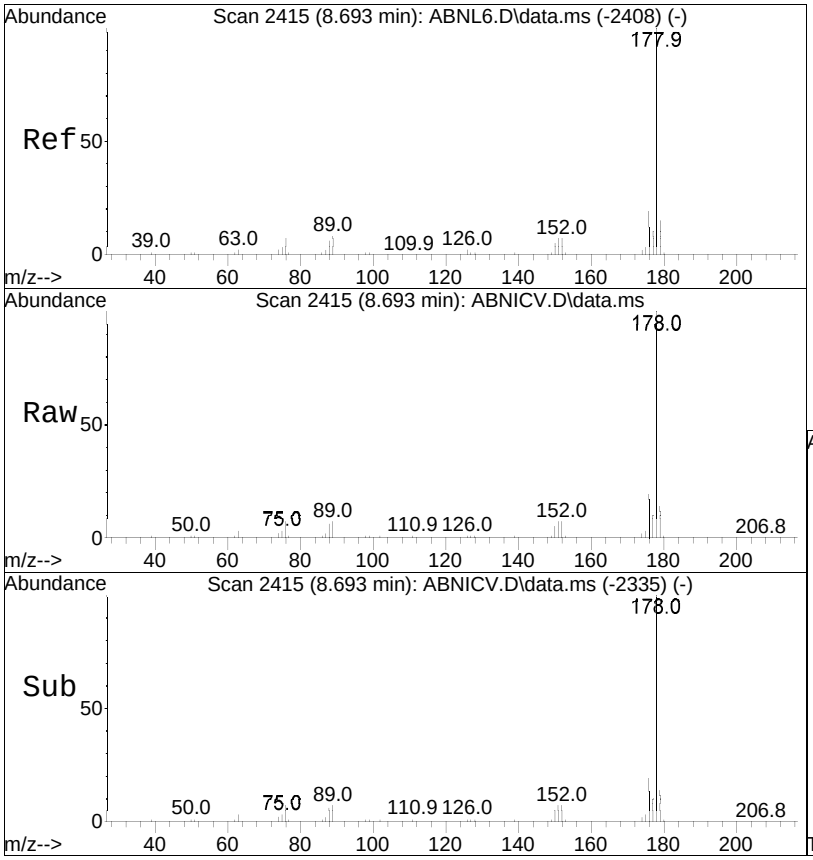


#91
Phenanthrene
Concen: 4.41 ug/ml
RT: 8.646 min Scan# 2400
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:178 Resp: 199979

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.2	18.2
176	19.8	15.4	23.2

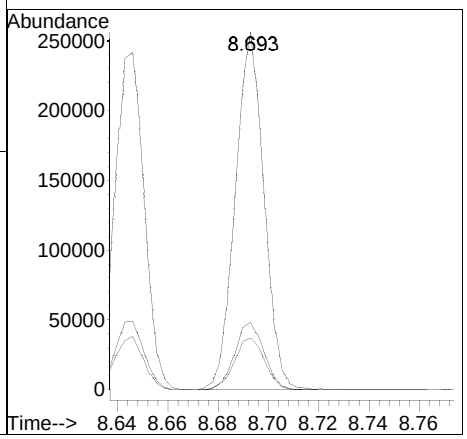


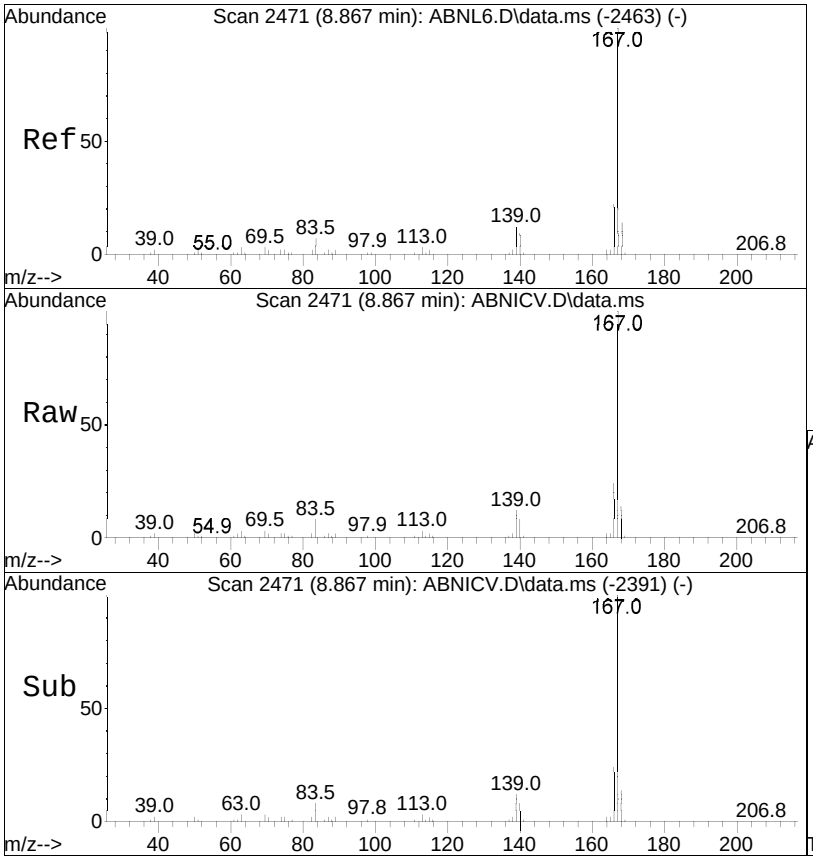


#92
Anthracene
Concen: 4.57 ug/ml
RT: 8.693 min Scan# 2415
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:178 Resp: 203231

Ion	Ratio	Lower	Upper
178	100		
179	15.2	12.0	18.0
176	19.2	14.6	22.0

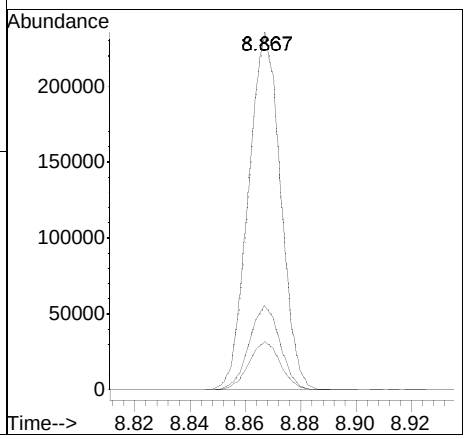


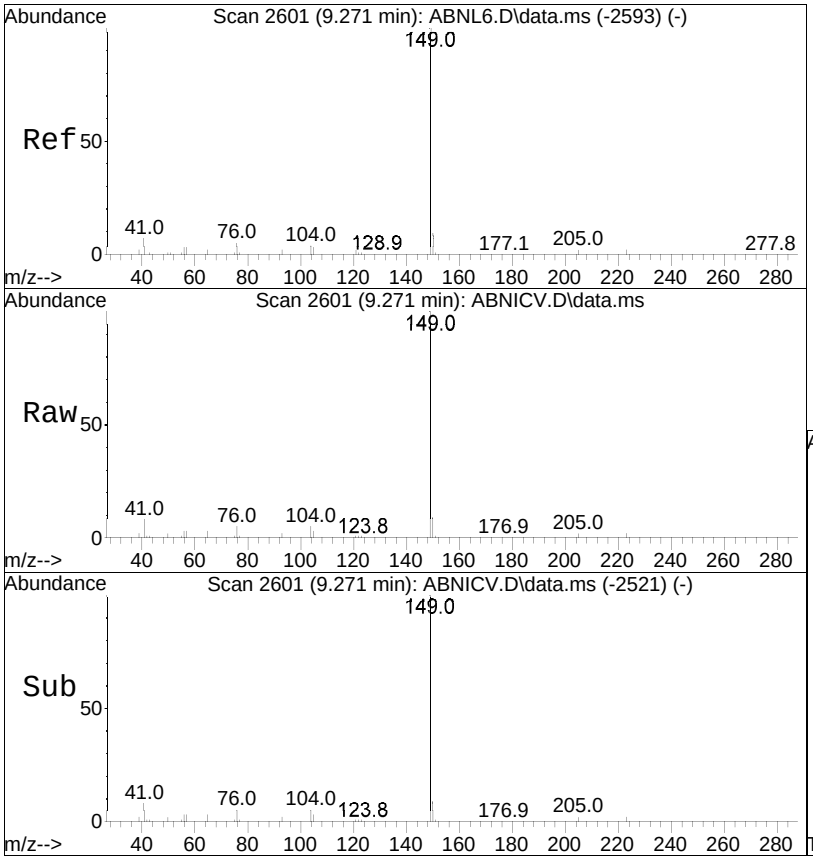


#93
Carbazole
Concen: 4.61 ug/ml
RT: 8.867 min Scan# 2471
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:167 Resp: 188138

Ion	Ratio	Lower	Upper
167	100		
168	13.4	10.6	15.8
166	22.9	17.4	26.0

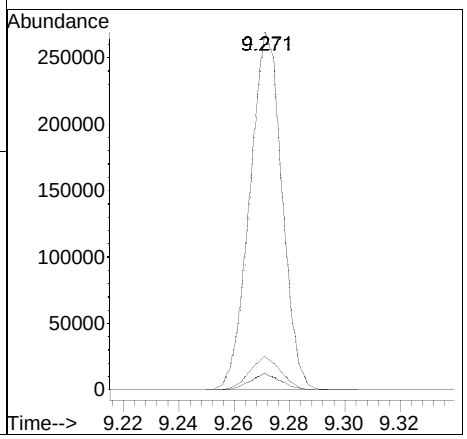


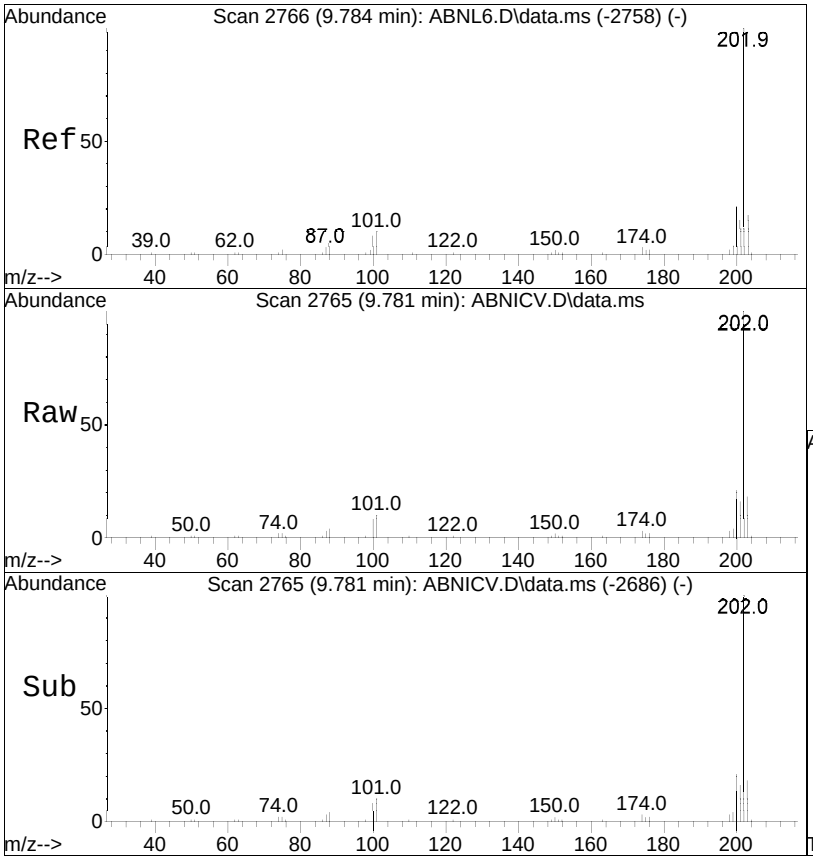


#94
Di-n-butylphthalate
Concen: 4.64 ug/ml
RT: 9.271 min Scan# 2601
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:149 Resp: 214371

Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.0	10.6
104	4.4	4.5	6.7#

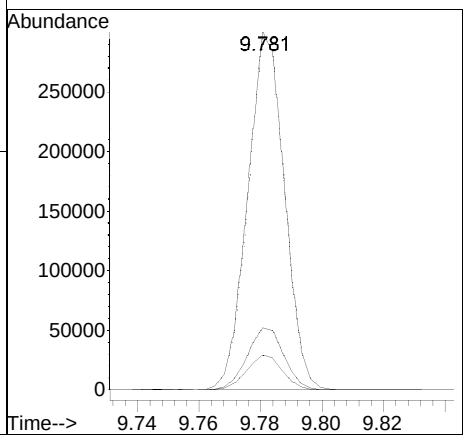


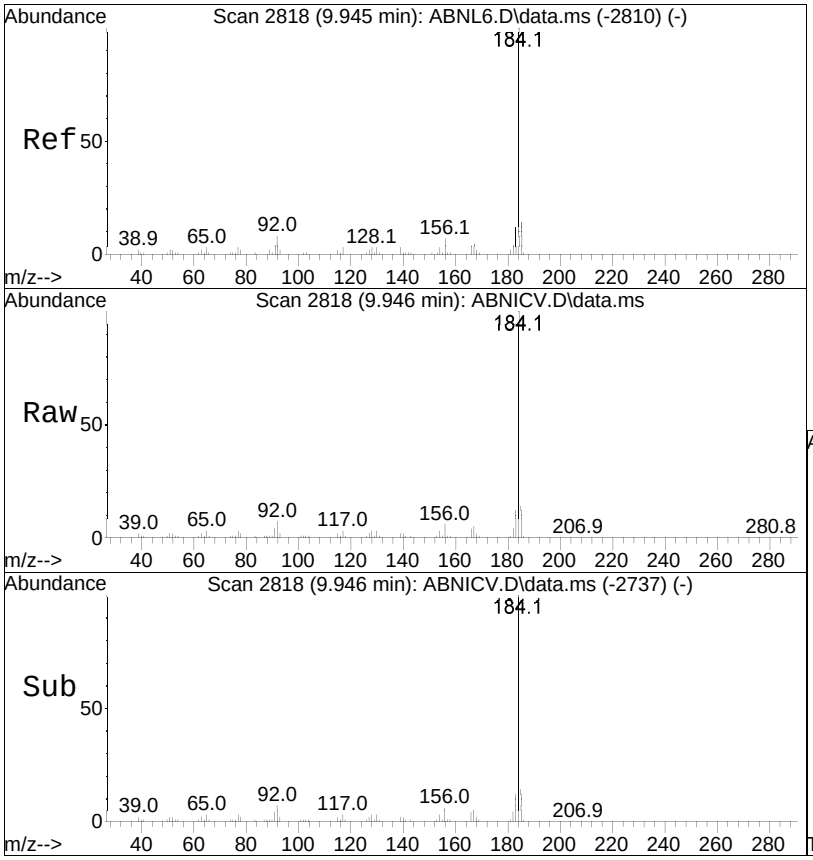


#95
Fluoranthene
Concen: 4.53 ug/ml
RT: 9.781 min Scan# 2765
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:202 Resp: 246949

Ion	Ratio	Lower	Upper
202	100		
101	9.5	13.5	20.3#
203	17.5	13.6	20.4

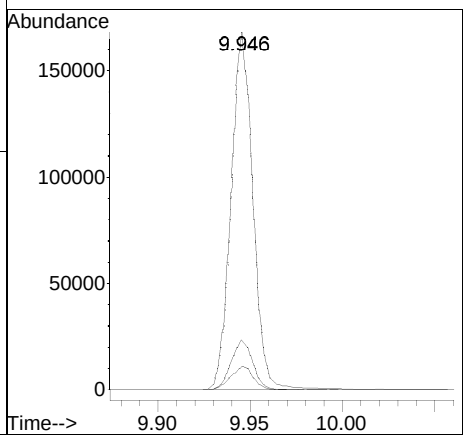


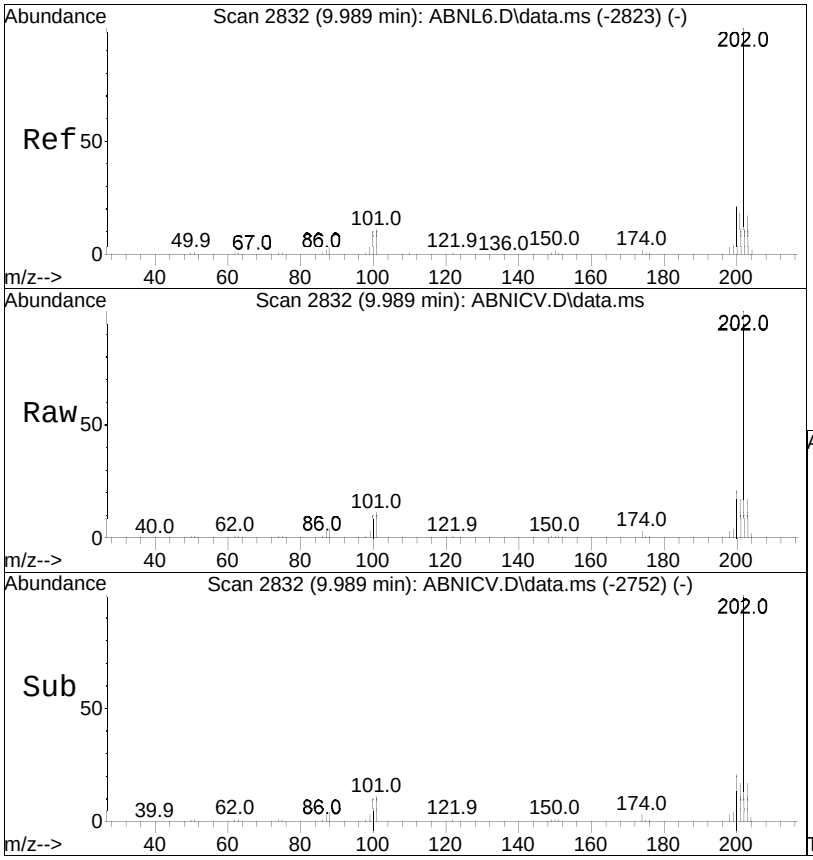


#96
Benzidine
Concen: 4.63 ug/ml
RT: 9.946 min Scan# 2818
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:184 Resp: 136878

Ion	Ratio	Lower	Upper
184	100		
92	6.9	9.1	13.7#
185	13.9	11.1	16.7

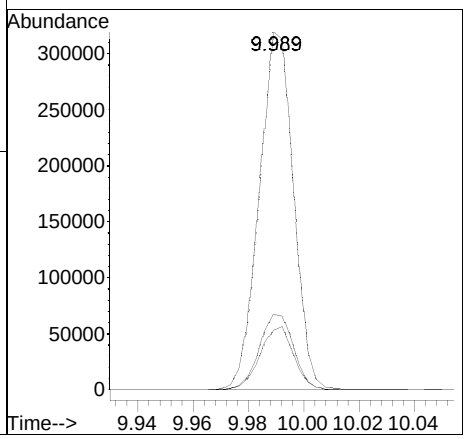


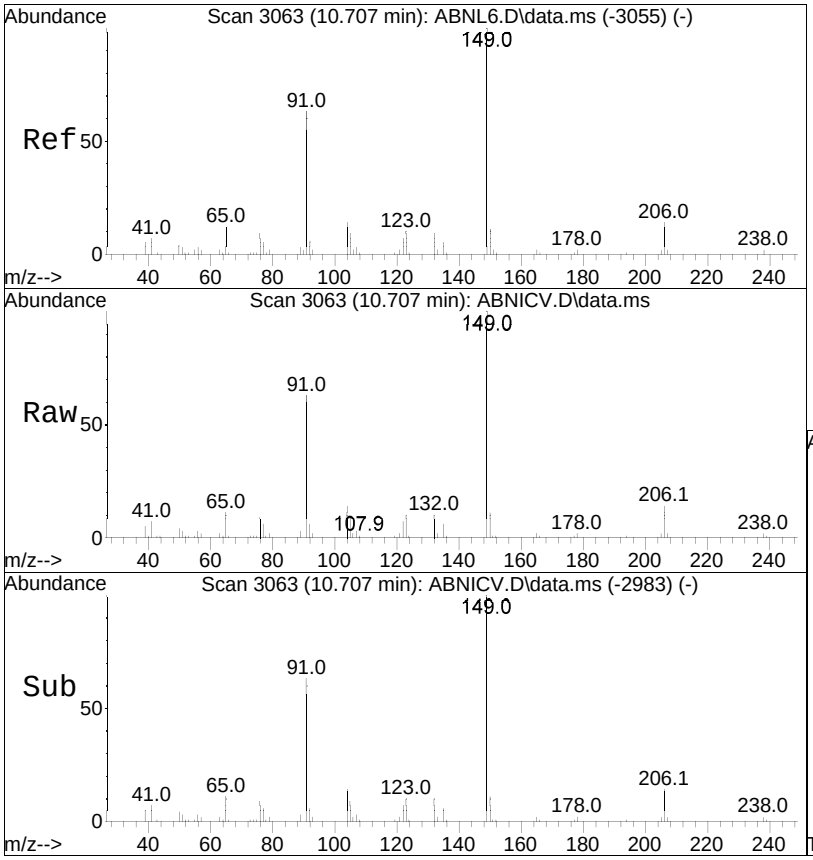


#97
Pyrene
Concen: 4.67 ug/ml
RT: 9.989 min Scan# 2832
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:202 Resp: 272087

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.7	25.1
203	17.4	14.2	21.4

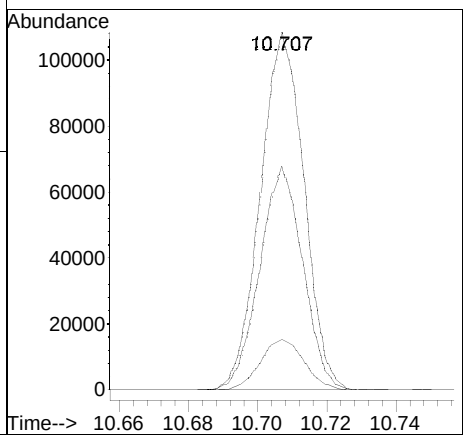


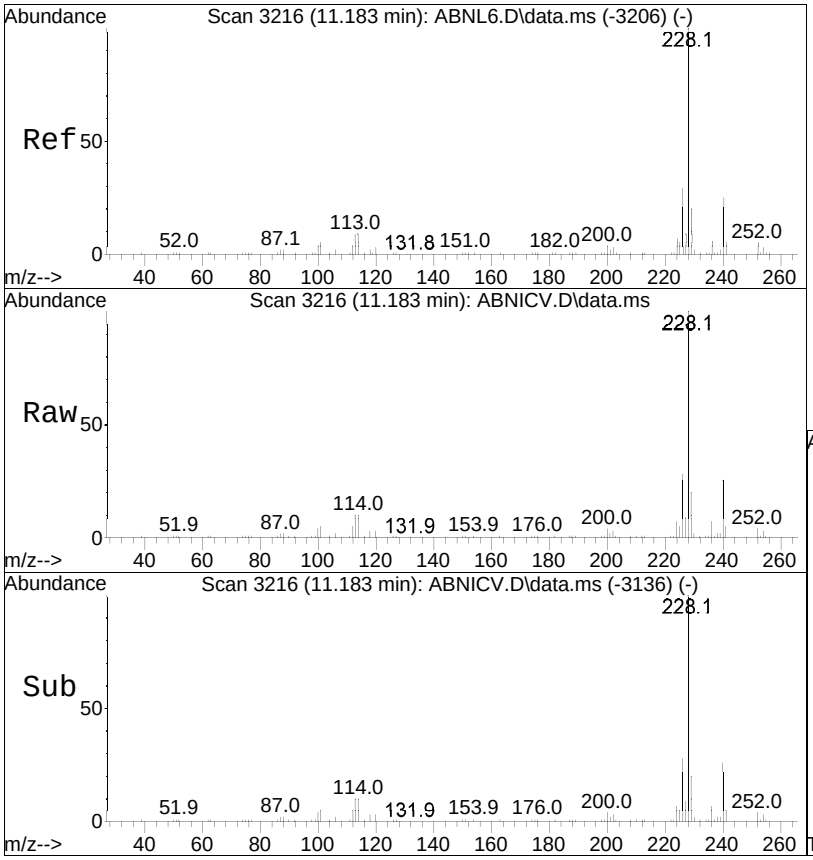


#99
Butyl benzyl phthalate
Concen: 4.75 ug/ml
RT: 10.707 min Scan# 3063
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:149 Resp: 94148

Ion	Ratio	Lower	Upper
149	100		
91	61.9	63.3	94.9#
206	14.3	13.9	20.9

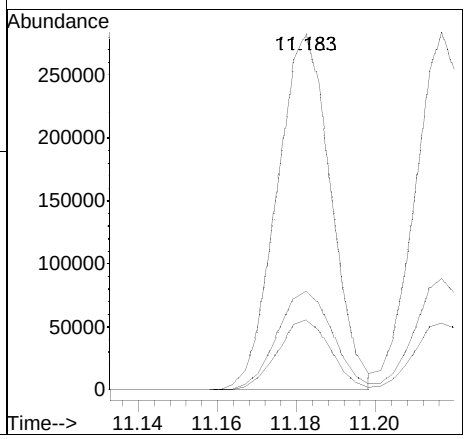


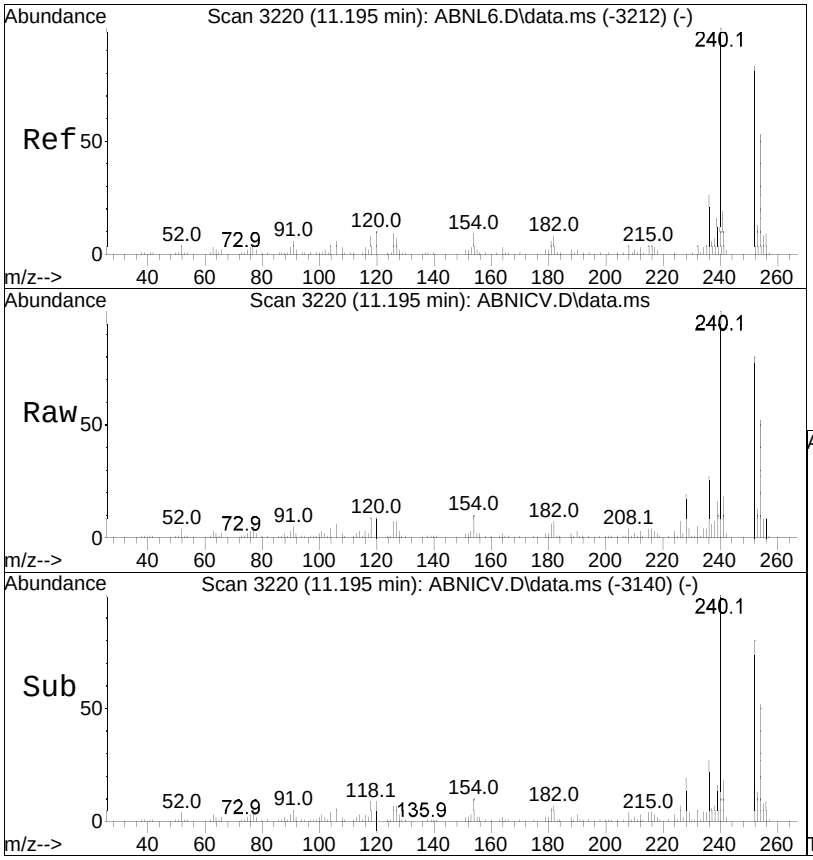


#107
Benzo(a)anthracene
Concen: 4.44 ug/ml
RT: 11.183 min Scan# 3216
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:228 Resp: 267033

Ion	Ratio	Lower	Upper
228	100		
226	28.7	22.2	33.4
229	19.5	15.6	23.4

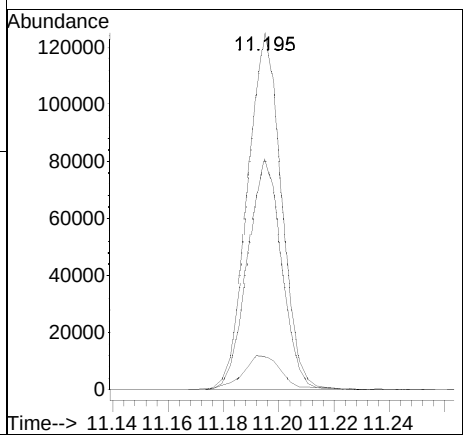


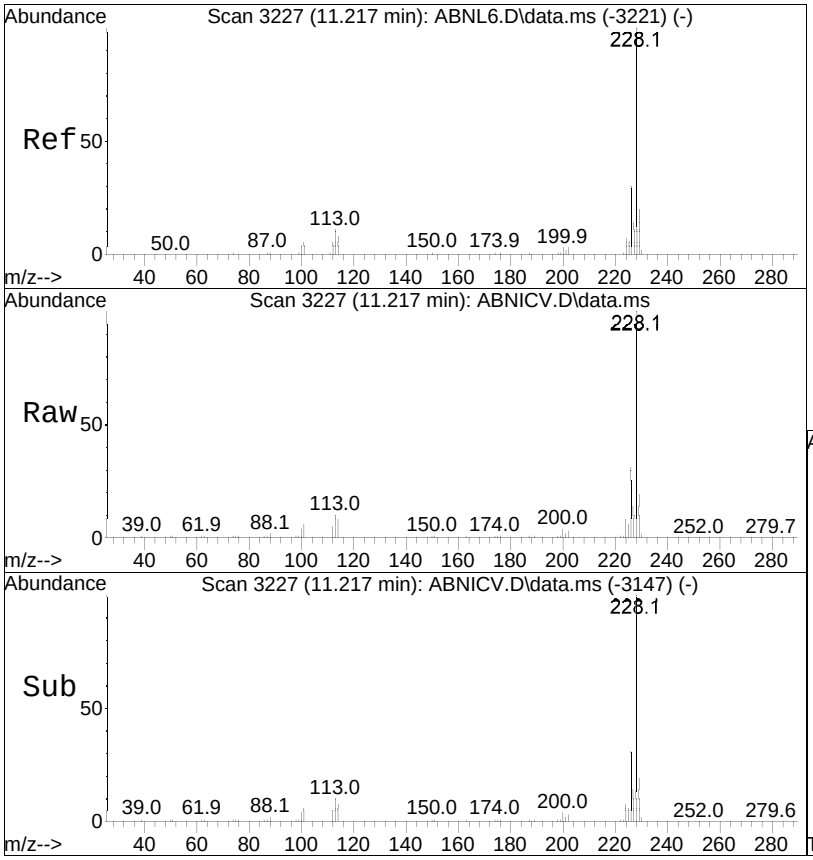


#108
3,3'-Dichlorobenzidine
Concen: 4.76 ug/ml
RT: 11.195 min Scan# 3220
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:252 Resp: 106445

Ion	Ratio	Lower	Upper
252	100		
126	11.4	14.5	21.7#
254	65.3	51.2	76.8

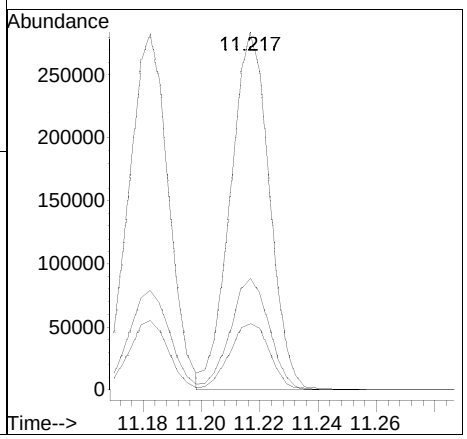


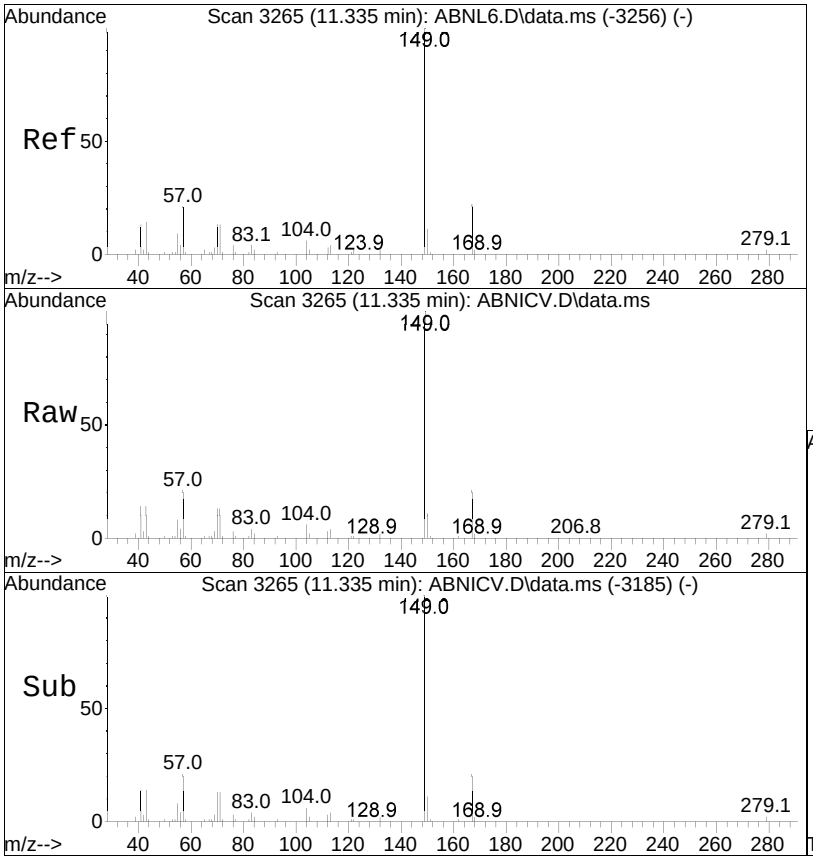


#109
Chrysene
Concen: 4.40 ug/ml
RT: 11.217 min Scan# 3227
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:228 Resp: 263085

Ion	Ratio	Lower	Upper
228	100		
226	31.3	24.0	36.0
229	19.4	15.8	23.8

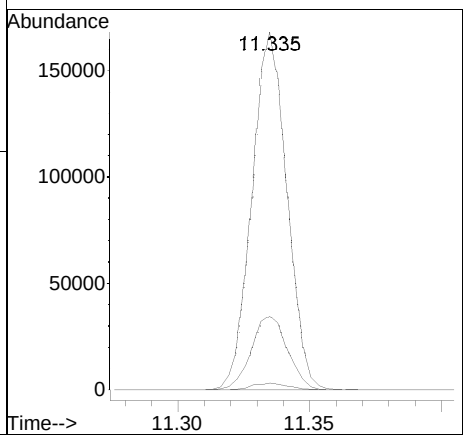


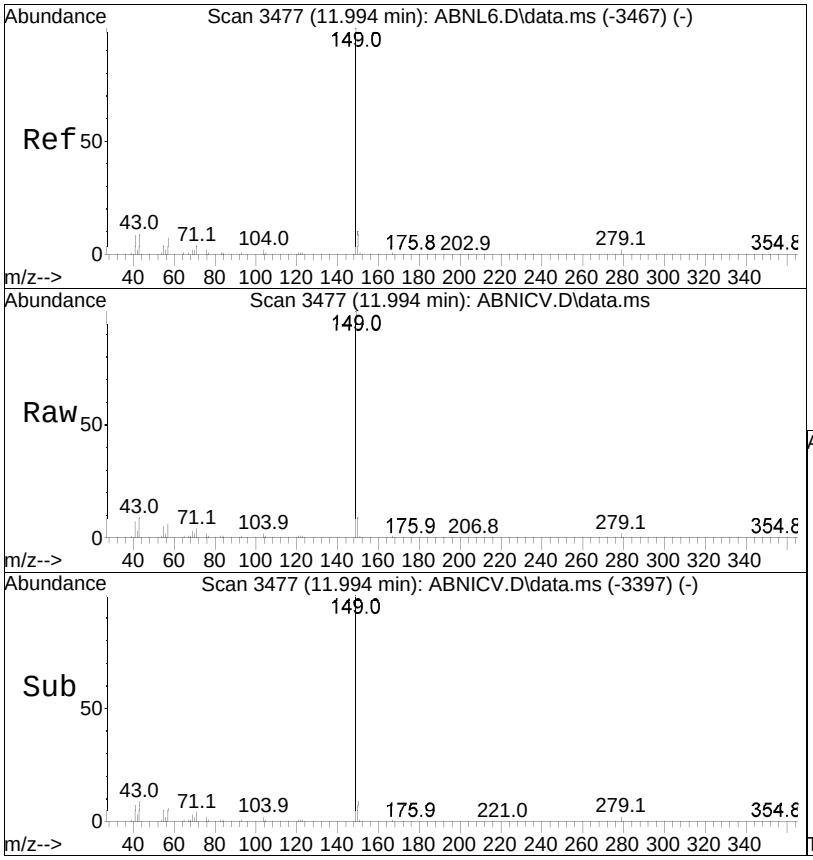


#110
Bis(2-ethylhexyl)phthalate
Concen: 4.74 ug/ml
RT: 11.335 min Scan# 3265
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:149 Resp: 152756

Ion	Ratio	Lower	Upper
149	100		
167	21.5	22.1	33.1#
279	1.9	3.0	4.4#

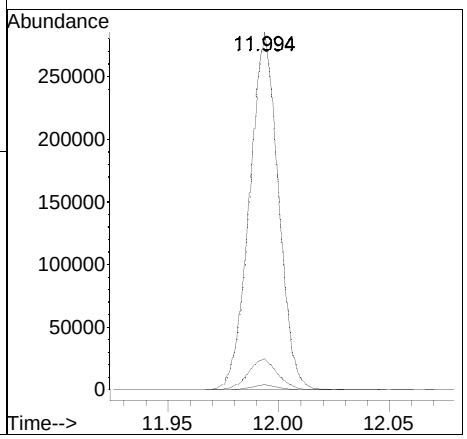


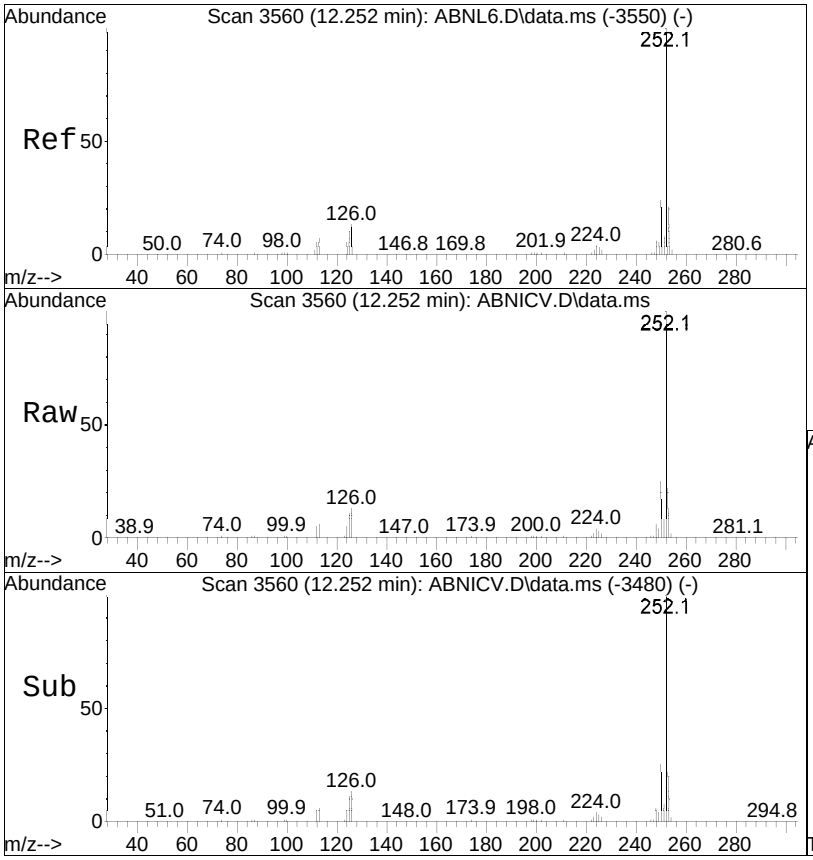


#111
Di-n-octylphthalate
Concen: 4.75 ug/ml
RT: 11.994 min Scan# 3477
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:149 Resp: 254994

Ion	Ratio	Lower	Upper
149	100		
43	8.9	18.8	28.2#
167	1.2	1.3	1.9#

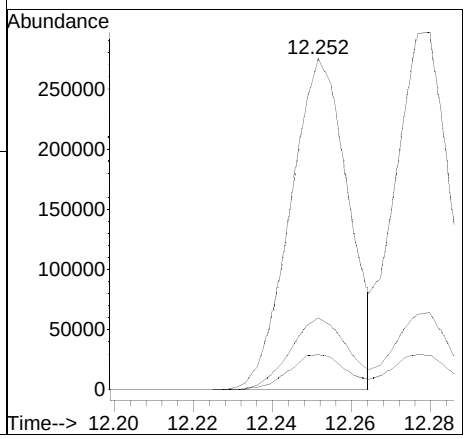


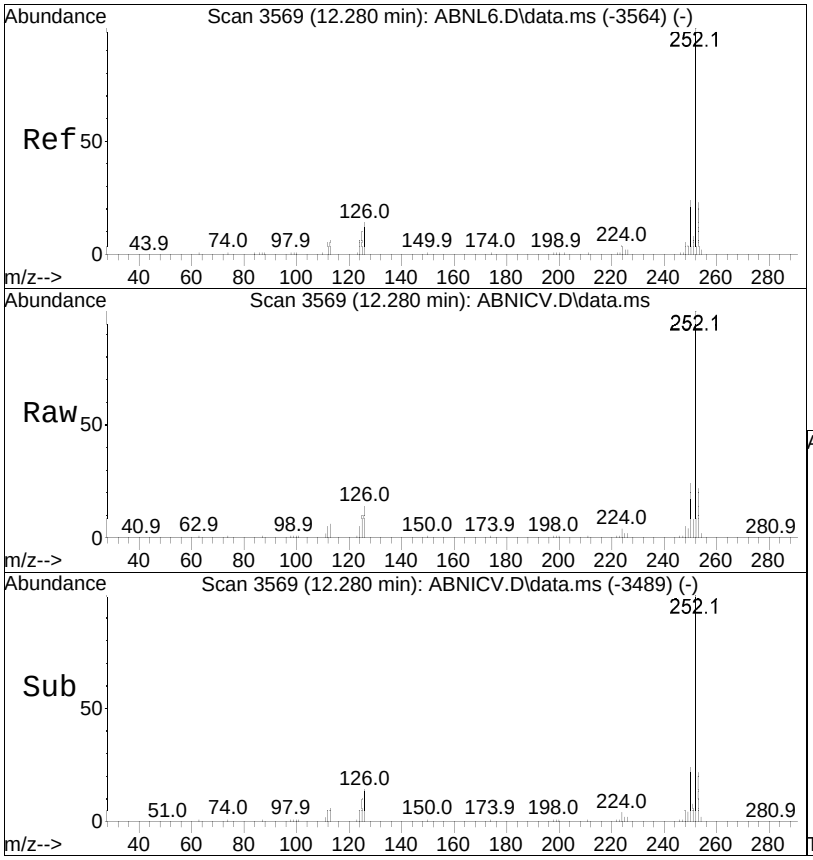


#112
Benzo(b)fluoranthene
Concen: 4.49 ug/ml
RT: 12.252 min Scan# 3560
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:252 Resp: 282392

Ion	Ratio	Lower	Upper
252	100		
125	10.8	13.3	19.9#
253	21.6	17.1	25.7

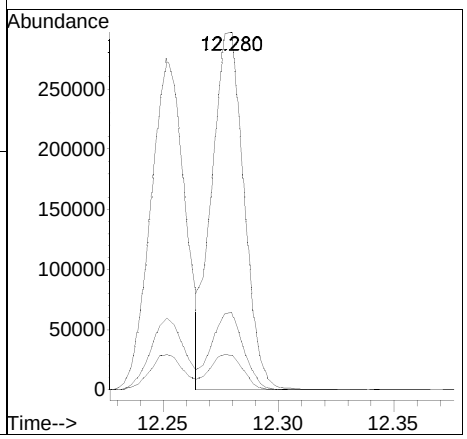


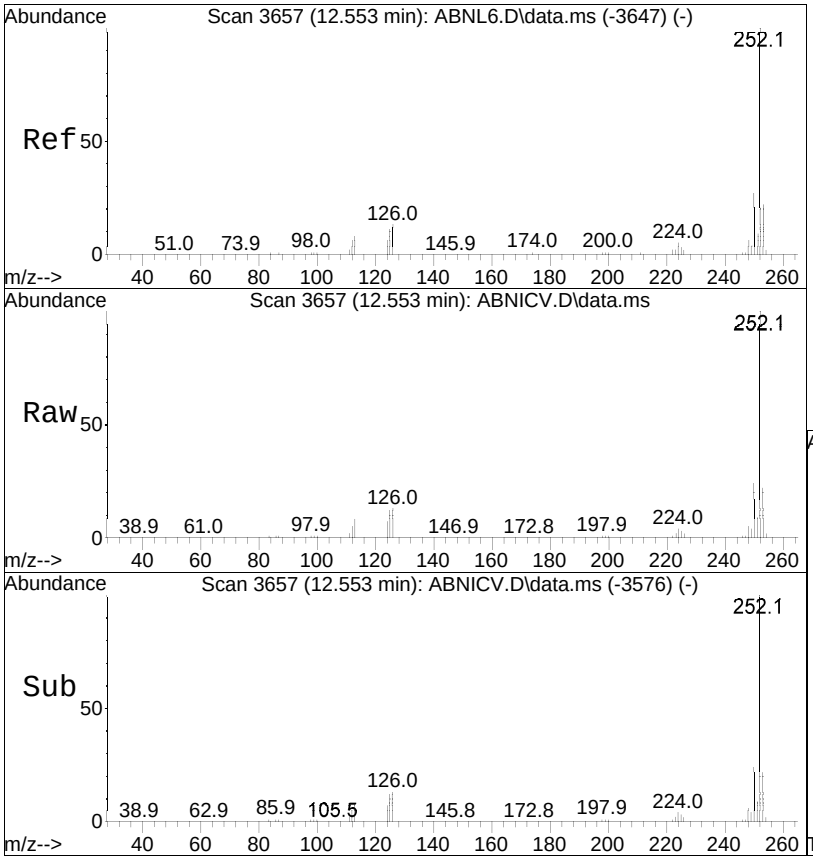


#113
Benzo(k)fluoranthene
Concen: 4.71 ug/ml
RT: 12.280 min Scan# 3569
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:252 Resp: 288769

Ion	Ratio	Lower	Upper
252	100		
125	10.3	13.0	19.6#
253	21.4	16.8	25.2

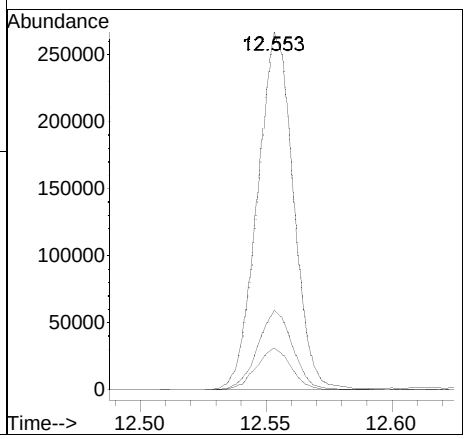


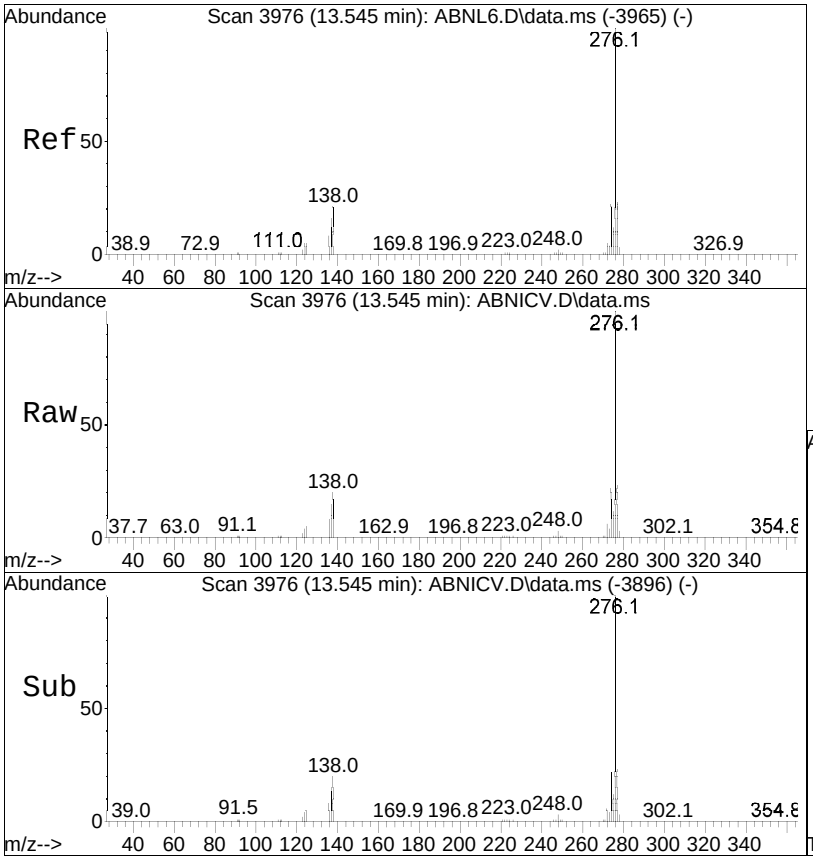


#114
Benzo(a)pyrene
Concen: 4.67 ug/ml
RT: 12.553 min Scan# 3657
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:252 Resp: 262323

Ion	Ratio	Lower	Upper
252	100		
125	11.6	14.2	21.2#
253	21.9	16.9	25.3

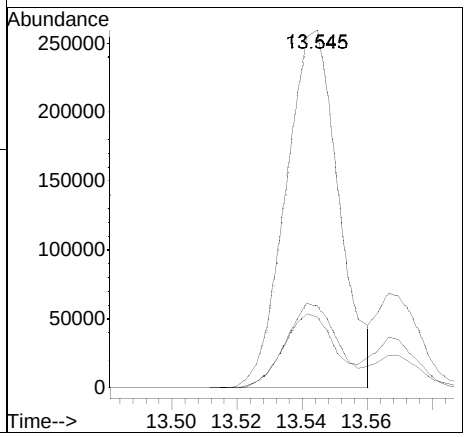


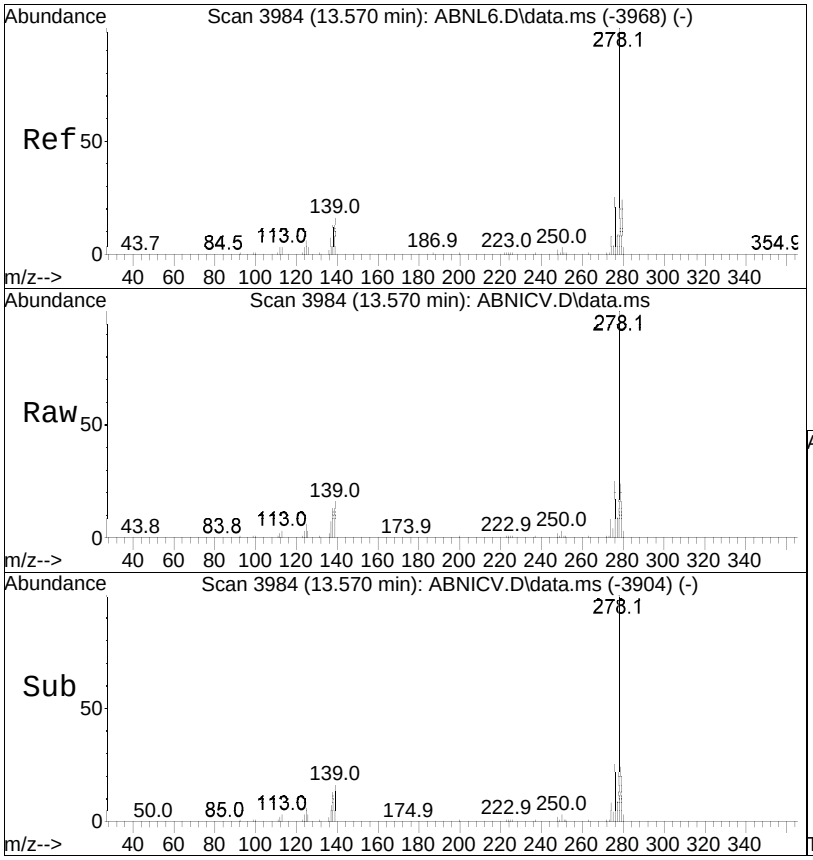


#116
Indeno(1,2,3-cd)pyrene
Concen: 4.58 ug/mL
RT: 13.545 min Scan# 3976
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:276 Resp: 292191

Ion	Ratio	Lower	Upper
276	100		
138	20.8	25.1	37.7#
277	23.1	18.6	28.0

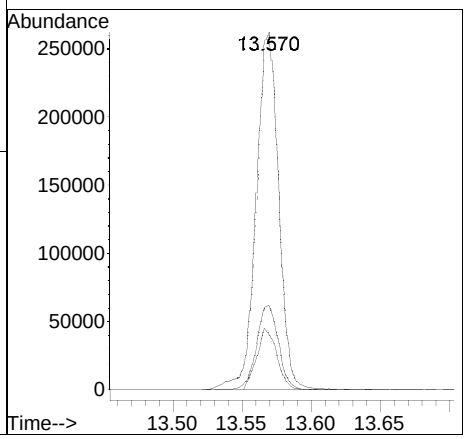


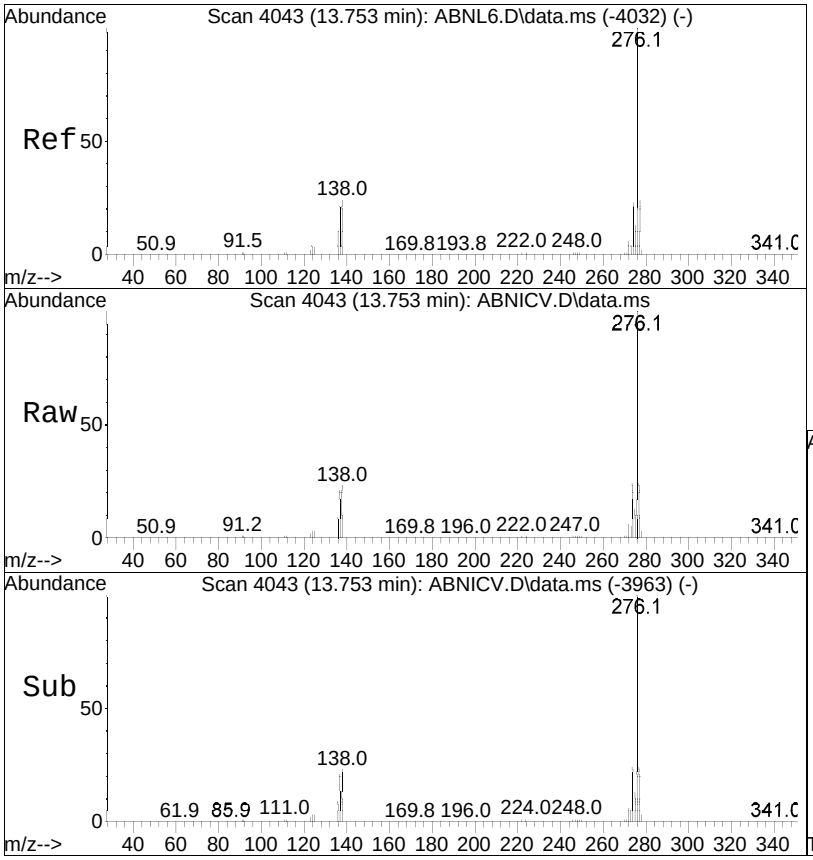


#117
Dibenzo(a,h)anthracene
Concen: 4.67 ug/ml
RT: 13.570 min Scan# 3984
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:278 Resp: 293099

Ion	Ratio	Lower	Upper
278	100		
139	15.6	20.8	31.2#
279	23.3	18.3	27.5

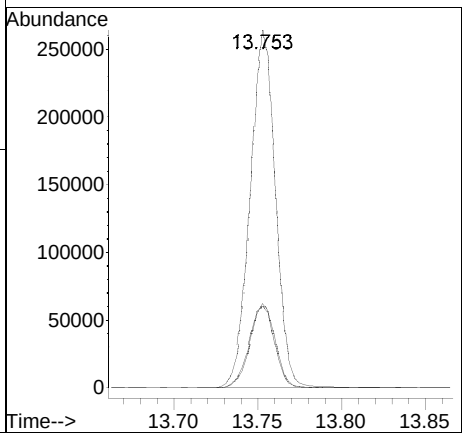




#118
Benzo(ghi)perylene
Concen: 4.45 ug/ml
RT: 13.753 min Scan# 4043
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 5 Nov 2024 11:59 pm

Tgt Ion:276 Resp: 274527

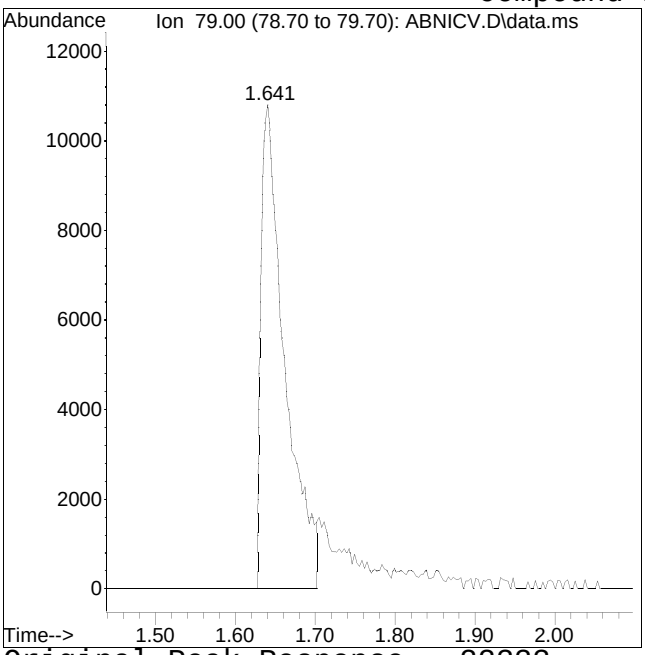
Ion	Ratio	Lower	Upper
276	100		
138	23.4	29.2	43.8#
277	23.6	18.8	28.2



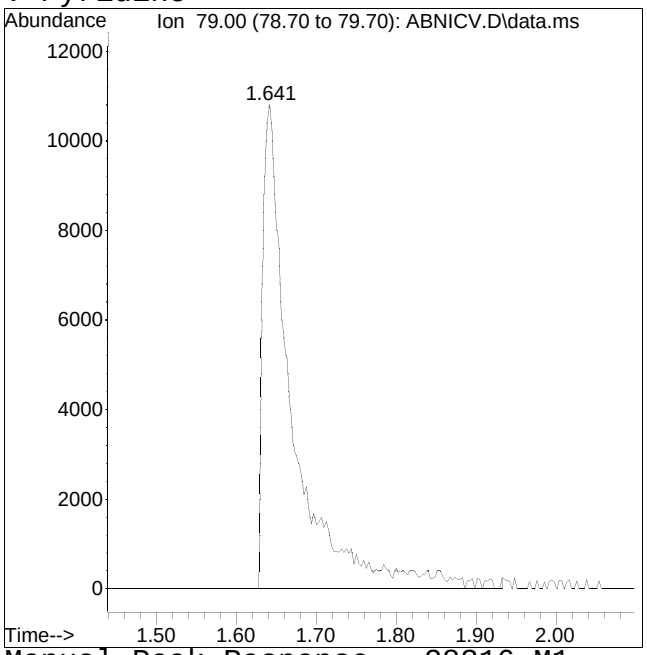
Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQ
Data File : ABNICV.D
Date Inj'd : 11/5/2024 11:59 pm
Sample : CQICV1,32,,ABNICV Lot# 111
Method : FS241105RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 11/11/2024 3:35 pm

Compound #3: Pyridine



Original Peak Response = 22333



Manual Peak Response = 28316 M1

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : AP9ICV.D
Acq On : 6 Nov 2024 12:23 am
Operator : Dakota:HNY
Sample : CQICV2,32,,AP9ICV Lot# 11139
Misc : WG1994500
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 06 10:19:36 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 10:13:33 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00
28	T	Benzaldehyde	0.703	0.766	-9.0	102	0.00
29	T	Acetophenone	1.403	1.539	-9.7	107	0.00
30	T	m-Toluidine	1.287	1.347	-4.7	103	0.00
31	T	2-Chloroaniline	1.368	1.507	-10.2	107	0.00
57	I	IS2_Naphthalene-d8	1.000	1.000	0.0	105	0.00
58	T	a-Terpineol	0.221	0.239	-8.1	107	0.00
59	T	3-Chloroaniline	0.115	0.123	-7.0	103	0.00
60	T	2,6-Dichlorophenol	0.296	0.316	-6.8	104	0.00
61	T	1-chloro-2-nitrobenzene	0.113	0.122	-8.0	102	0.00
62	T	Caprolactam	0.123	0.131	-6.5	109	0.00
63	T	1,2,4,5-Tetrachlorobenzene	0.413	0.446	-8.0	108	0.00
64	T	Biphenyl	0.842	0.904	-7.4	106	0.00
85	I	IS2_Acenaphthene-d10	1.000	1.000	0.0	103	0.00
86	T	Dichloran	0.169	0.181	-7.1	112	0.00
87	T	Pentachloronitrobenzene	0.187	0.195	-4.3	111	0.00
100	I	IS2_Phenanthrene-d10	1.000	1.000	0.0	102	0.00
101	T	Diphenamid	0.416	0.467	-12.3	110	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : AP9ICV.D
Acq On : 6 Nov 2024 12:23 am
Operator : Dakota:HNY
Sample : CQICV2,32,,AP9ICV Lot# 11139
Misc : WG1994500
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 06 10:19:36 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 10:13:33 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.282	152	28764	4.000	ug/ml	0.00
Standard Area 1 = 28342			Recovery =	101.49%		
57) IS2_Naphthalene-d8	5.519	136	103898	4.000	ug/ml	0.00
Standard Area 1 = 98544			Recovery =	105.43%		
85) IS2_Acenaphthene-d10	7.210	164	66081	4.000	ug/ml	0.00
Standard Area 1 = 64361			Recovery =	102.67%		
100) IS2_Phenanthrene-d10	8.621	188	145261	4.000	ug/ml	0.00
Standard Area 1 = 142493			Recovery =	101.94%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	3.847	105	27551	5.446	ug/ml	95
29) Acetophenone	4.693	105	55323	5.482	ug/ml#	80
30) m-Toluidine	4.780	106	48432	5.234	ug/ml	94
31) 2-Chloroaniline	5.134	127	54178	5.507	ug/ml#	90
58) a-Terpineol	5.588	59	30996	5.390	ug/ml#	78
59) 3-Chloroaniline	5.600	65	15940	5.355	ug/ml	85
60) 2,6-Dichlorophenol	5.625	162	41042	5.346	ug/ml#	83
61) 1-chloro-2-nitrobenzene	5.877	111	15818	5.368	ug/ml#	1
62) Caprolactam	5.914	55	17075	5.349	ug/ml#	71
63) 1,2,4,5-Tetrachloroben...	6.387	216	57983	5.406	ug/ml#	94
64) Biphenyl	6.679	154	117373	5.369	ug/ml	97
86) Dichloran	8.332	206	14931	5.349	ug/ml#	56
87) Pentachloronitrobenzene	8.478	237	16109	5.227	ug/ml#	75
101) Diphenamid	9.535	167	84796	5.614	ug/ml#	75

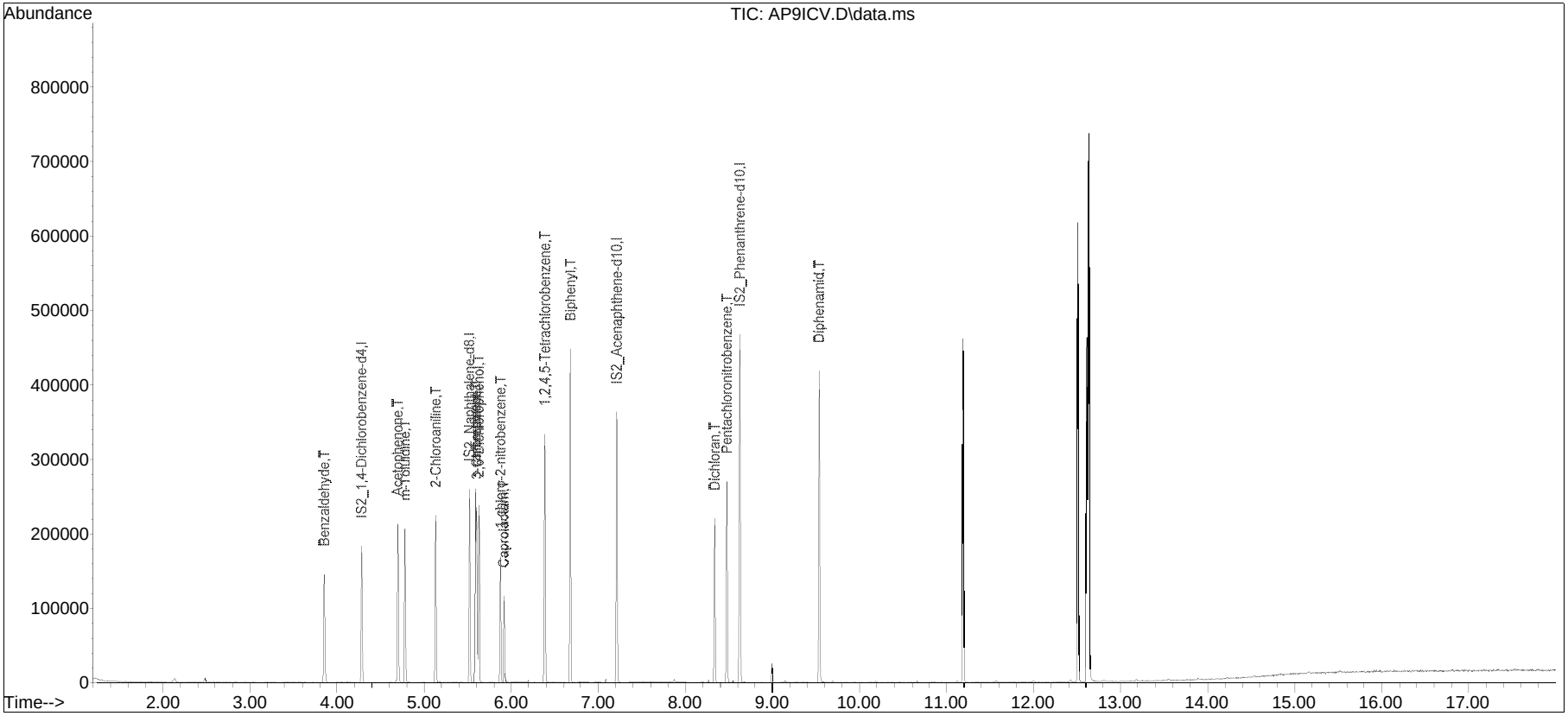
(#) = qualifier out of range (m) = manual integration (+) = signals summed

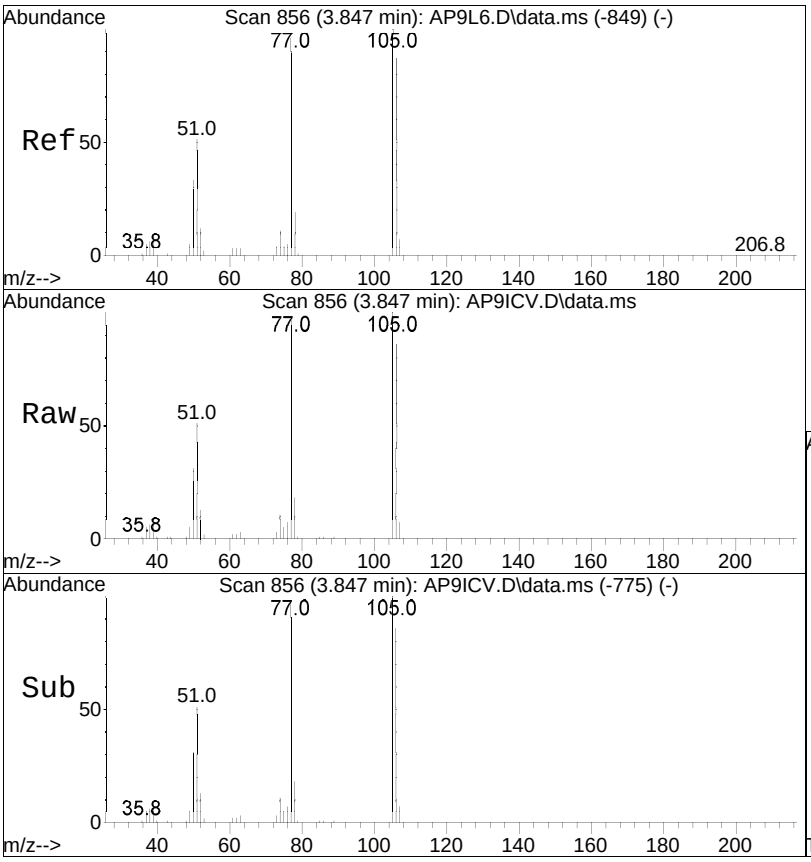
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : AP9ICV.D
Acq On : 6 Nov 2024 12:23 am
Operator : Dakota:HNY
Sample : CQICV2,32,,AP9ICV Lot# 11139
Misc : WG1994500
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 06 10:19:36 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 10:13:33 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistVTICAL\AP9L6.D•

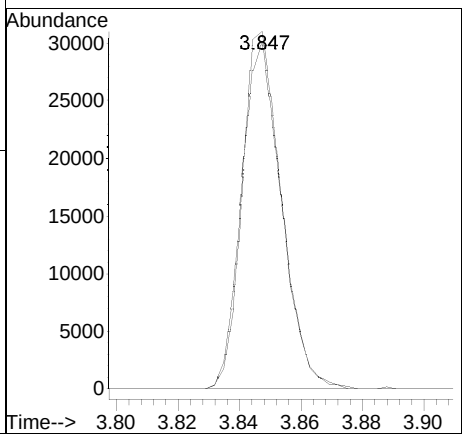


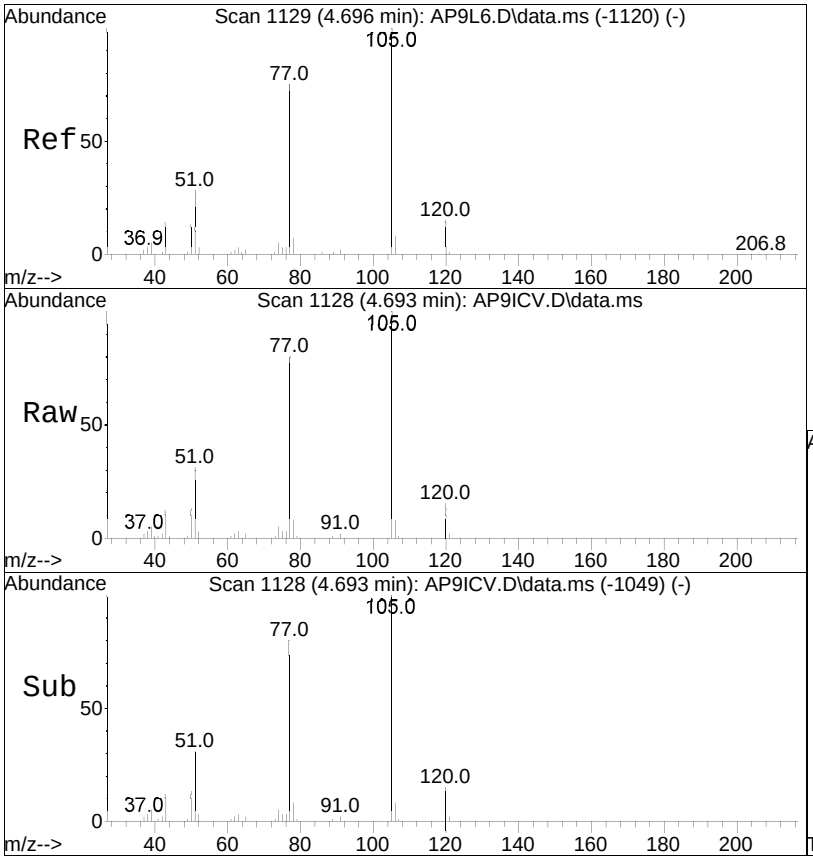


#28
Benzaldehyde
Concen: 5.45 ug/ml
RT: 3.847 min Scan# 856
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 6 Nov 2024 12:23 am

Tgt Ion:105 Resp: 27551

Ion	Ratio	Lower	Upper
105	100		
77	98.2	82.2	123.4

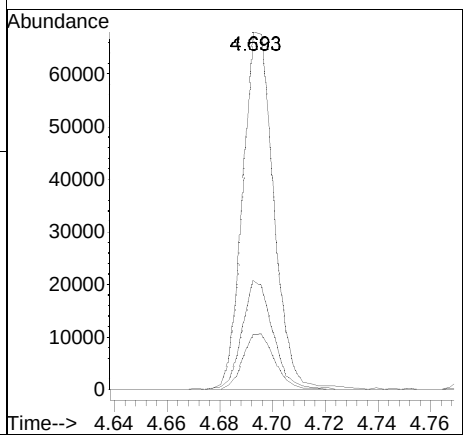


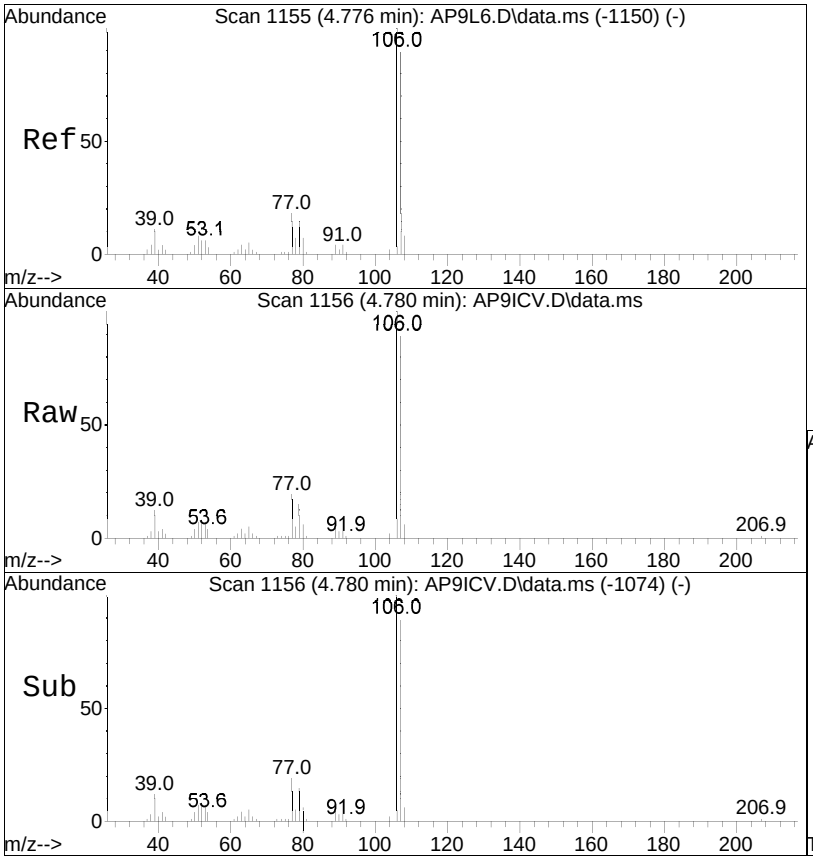


#29
Acetophenone
Concen: 5.48 ug/ml
RT: 4.693 min Scan# 1128
Delta R.T. -0.003 min
Lab File: AP9ICV.D
Acq: 6 Nov 2024 12:23 am

Tgt Ion:105 Resp: 55323

Ion	Ratio	Lower	Upper
105	100		
120	15.8	20.5	30.7#
51	30.2	34.9	52.3#

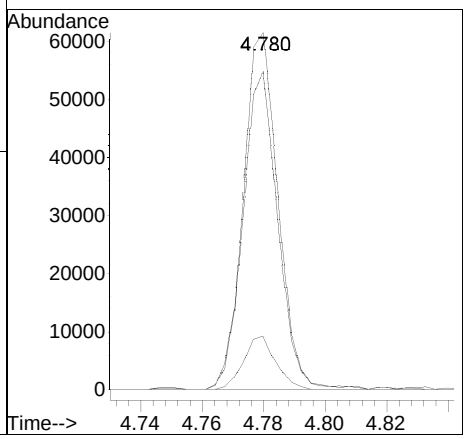


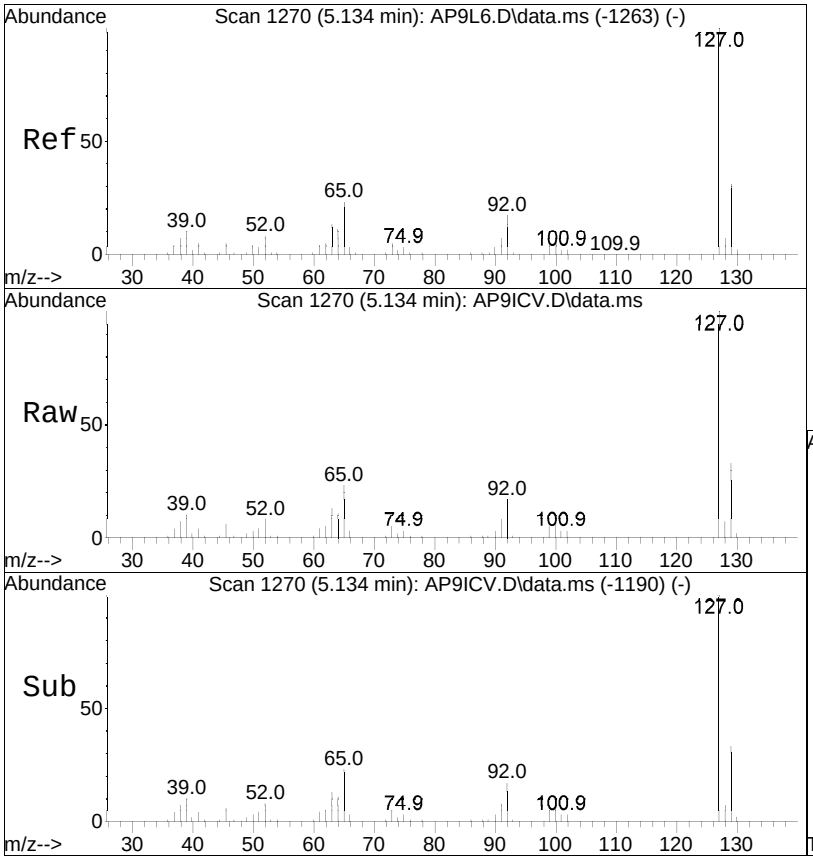


#30
m-Toluidine
Concen: 5.23 ug/ml
RT: 4.780 min Scan# 1156
Delta R.T. 0.004 min
Lab File: AP9ICV.D
Acq: 6 Nov 2024 12:23 am

Tgt Ion:106 Resp: 48432

Ion	Ratio	Lower	Upper
106	100		
107	88.6	75.7	113.5
79	13.8	11.8	17.8

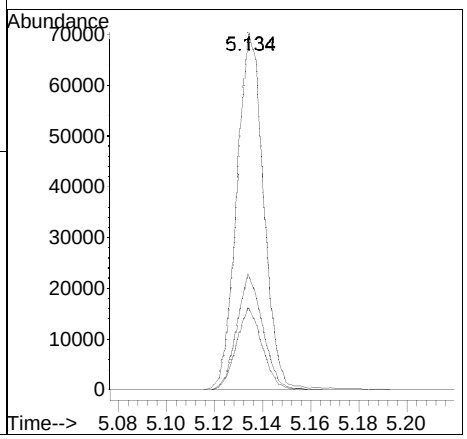


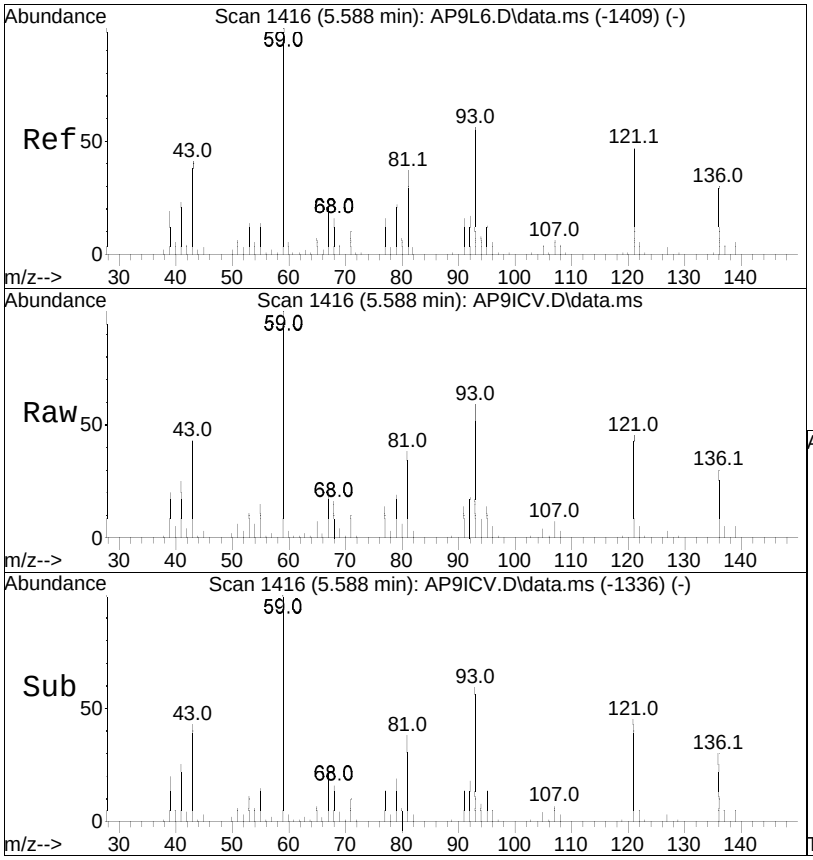


#31
2-Chloroaniline
Concen: 5.51 ug/ml
RT: 5.134 min Scan# 1270
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 6 Nov 2024 12:23 am

Tgt Ion:127 Resp: 54178

Ion	Ratio	Lower	Upper
127	100		
129	31.3	25.9	38.9
65	22.2	26.3	39.5#

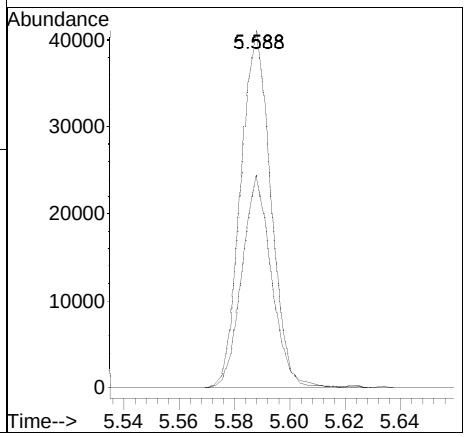


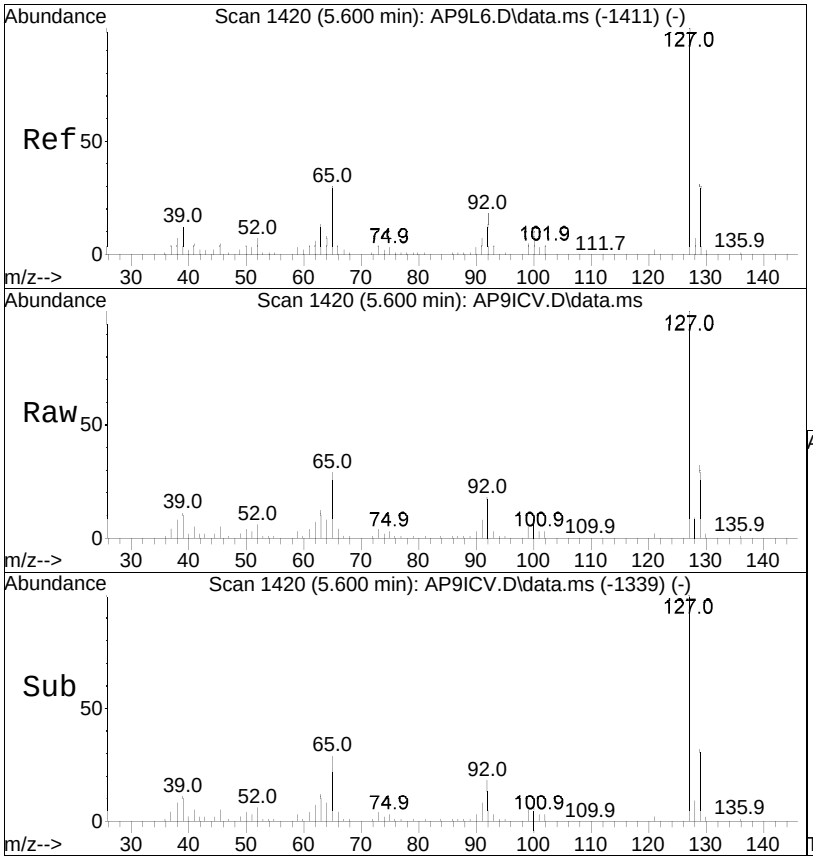


#58
a-Terpineol
Concen: 5.39 ug/ml
RT: 5.588 min Scan# 1416
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 6 Nov 2024 12:23 am

Tgt Ion: 59 Resp: 30996

Ion	Ratio	Lower	Upper
59	100		
93	58.9	35.6	53.4#

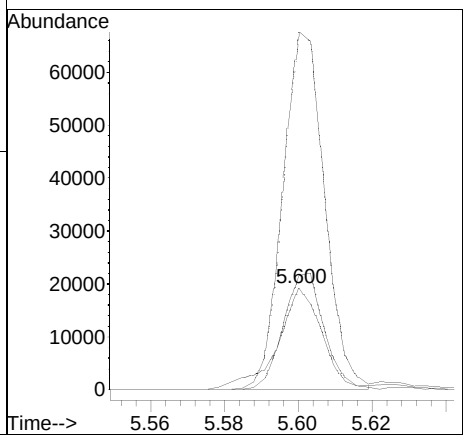


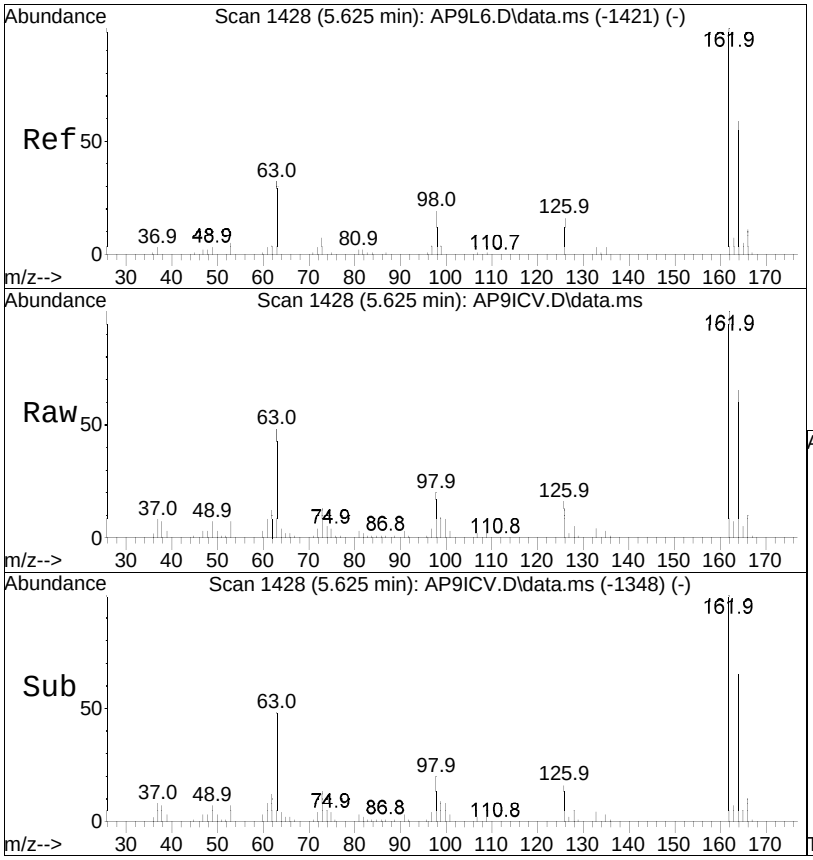


#59
3-Chloroaniline
Concen: 5.36 ug/ml
RT: 5.600 min Scan# 1420
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 6 Nov 2024 12:23 am

Tgt Ion: 65 Resp: 15940

Ion	Ratio	Lower	Upper
65	100		
127	337.6	243.2	364.8
129	105.3	78.8	118.2

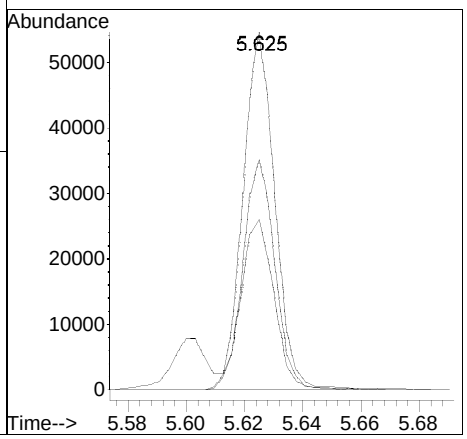


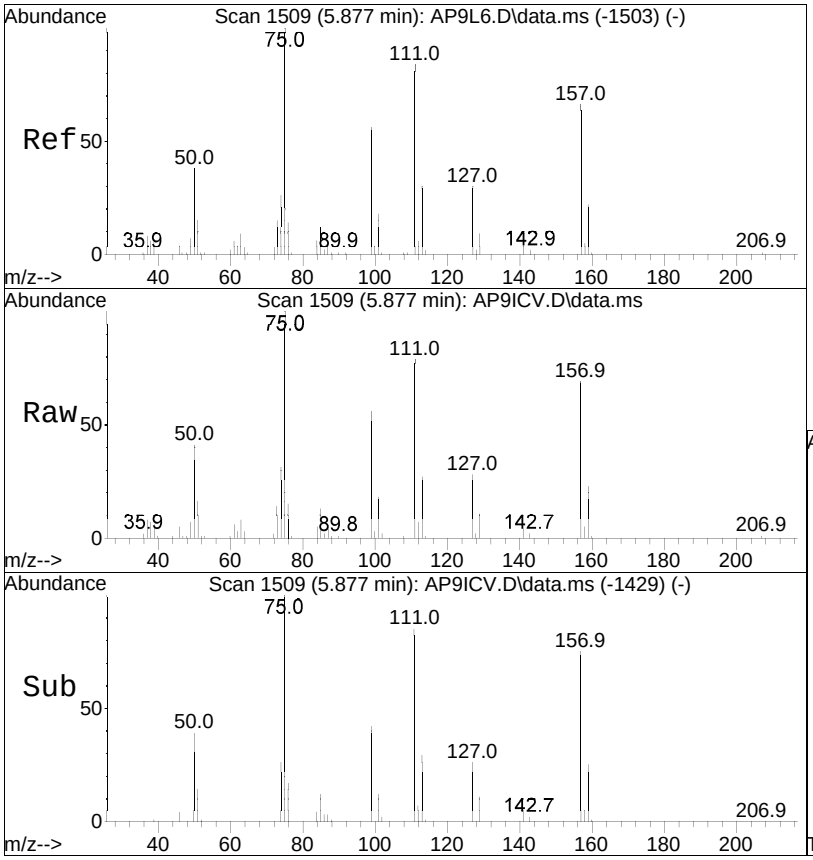


#60
2,6-Dichlorophenol
Concen: 5.35 ug/ml
RT: 5.625 min Scan# 1428
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 6 Nov 2024 12:23 am

Tgt Ion:162 Resp: 41042

Ion	Ratio	Lower	Upper
162	100		
164	64.6	51.1	76.7
63	49.9	60.8	91.2#

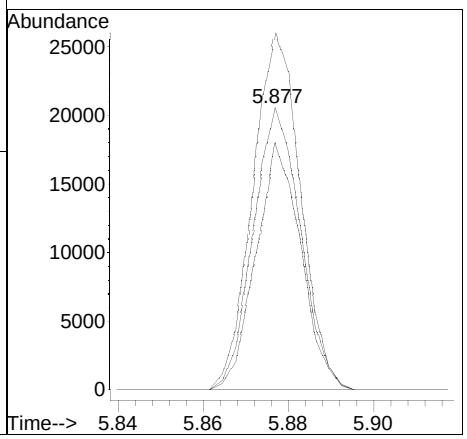


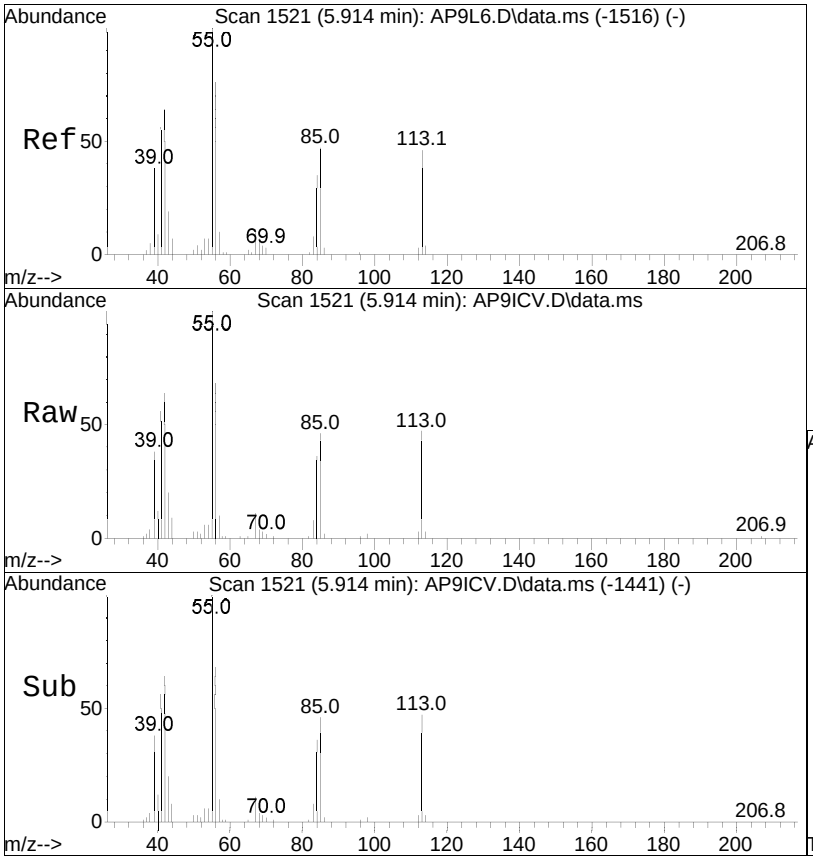


#61
1-chloro-2-nitrobenzene
Concen: 5.37 ug/ml
RT: 5.877 min Scan# 1509
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 6 Nov 2024 12:23 am

Tgt Ion:111 Resp: 15818

Ion	Ratio	Lower	Upper
111	100		
157	83.1	0.0	0.0#
75	127.9	28.2	42.2#

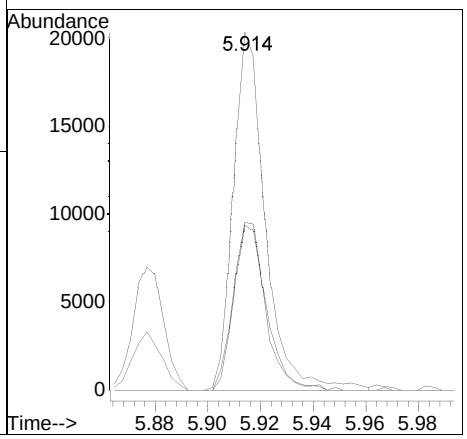


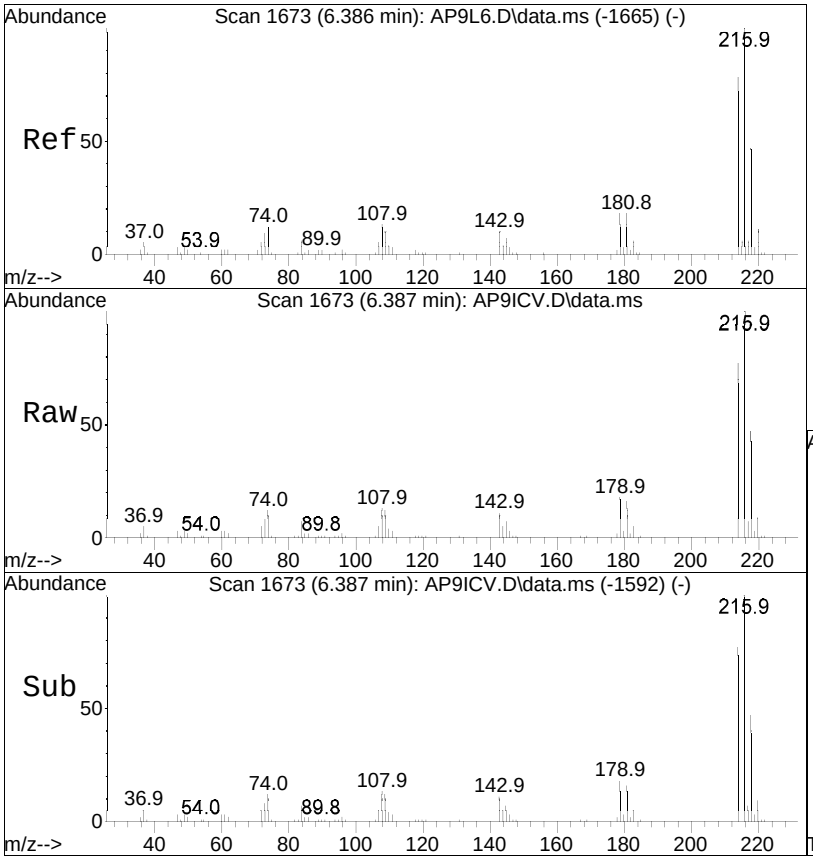


#62
Caprolactam
Concen: 5.35 ug/ml
RT: 5.914 min Scan# 1521
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 6 Nov 2024 12:23 am

Tgt Ion: 55 Resp: 17075

Ion	Ratio	Lower	Upper
55	100		
85	45.5	19.8	29.6#
113	48.9	29.6	44.4#

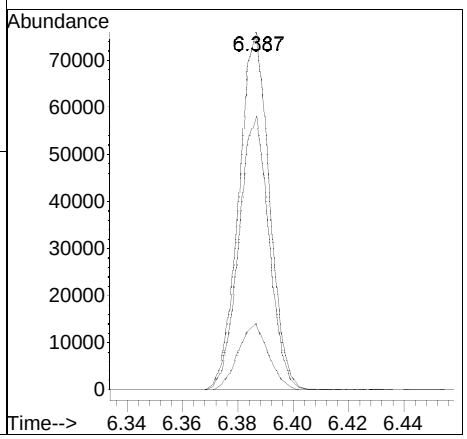


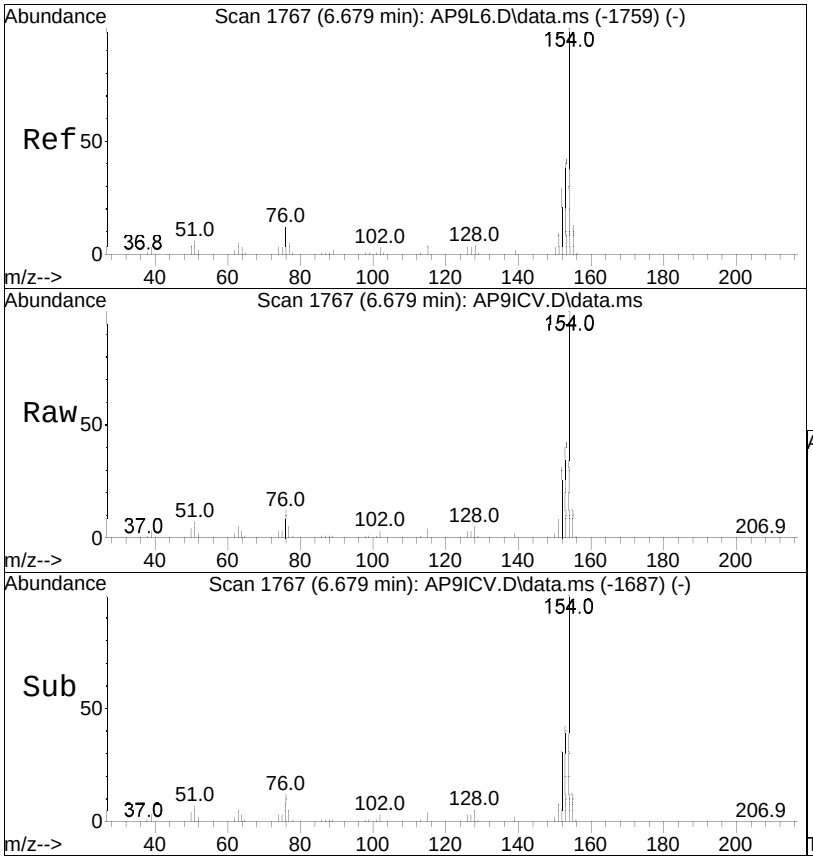


#63
1,2,4,5-Tetrachlorobenzene
Concen: 5.41 ug/ml
RT: 6.387 min Scan# 1673
Delta R.T. 0.001 min
Lab File: AP9ICV.D
Acq: 6 Nov 2024 12:23 am

Tgt Ion:216 Resp: 57983

Ion	Ratio	Lower	Upper
216	100		
214	75.8	63.7	95.5
179	18.4	19.0	28.6#

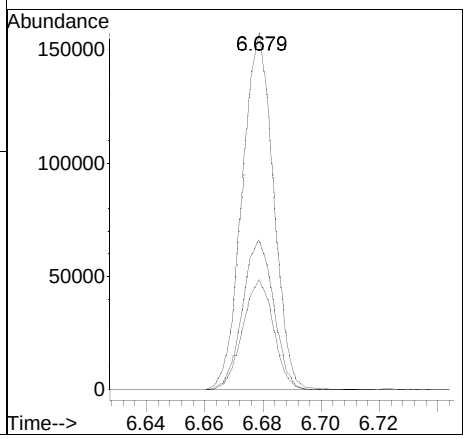


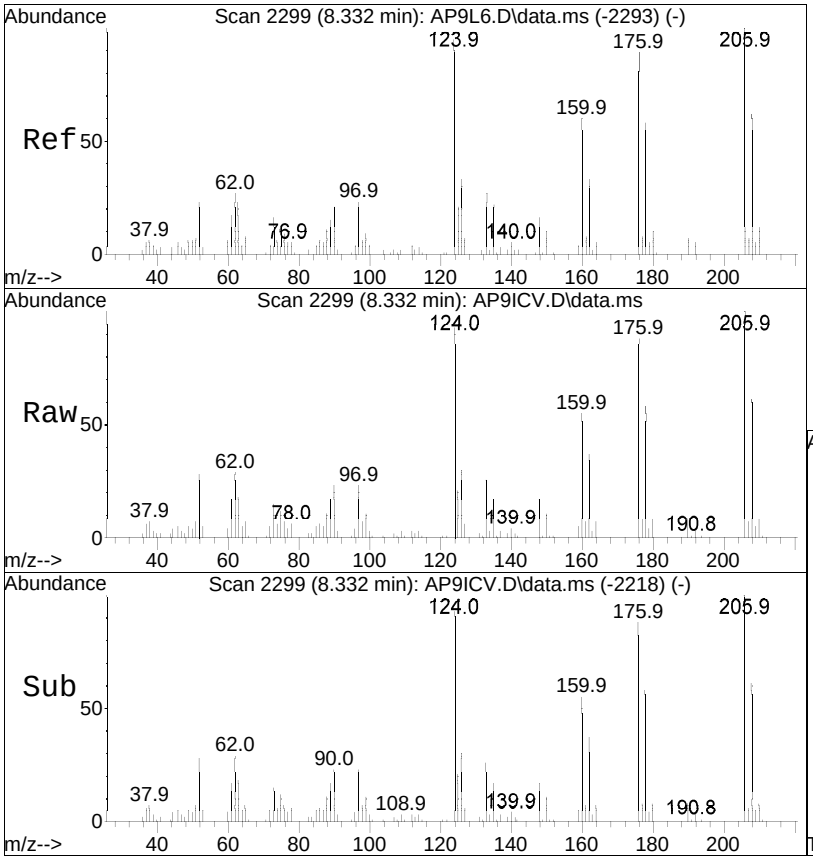


#64
Biphenyl
Concen: 5.37 ug/ml
RT: 6.679 min Scan# 1767
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 6 Nov 2024 12:23 am

Tgt Ion:154 Resp: 117373

Ion	Ratio	Lower	Upper
154	100		
153	41.8	32.3	48.5
152	30.6	22.5	33.7

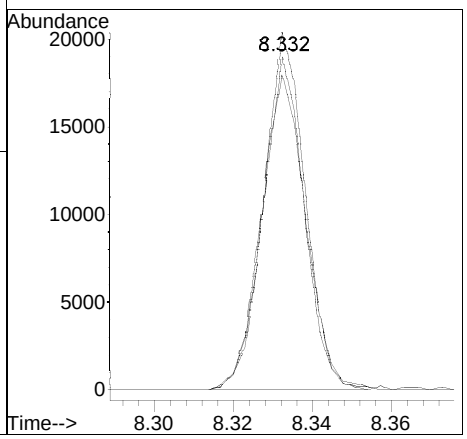


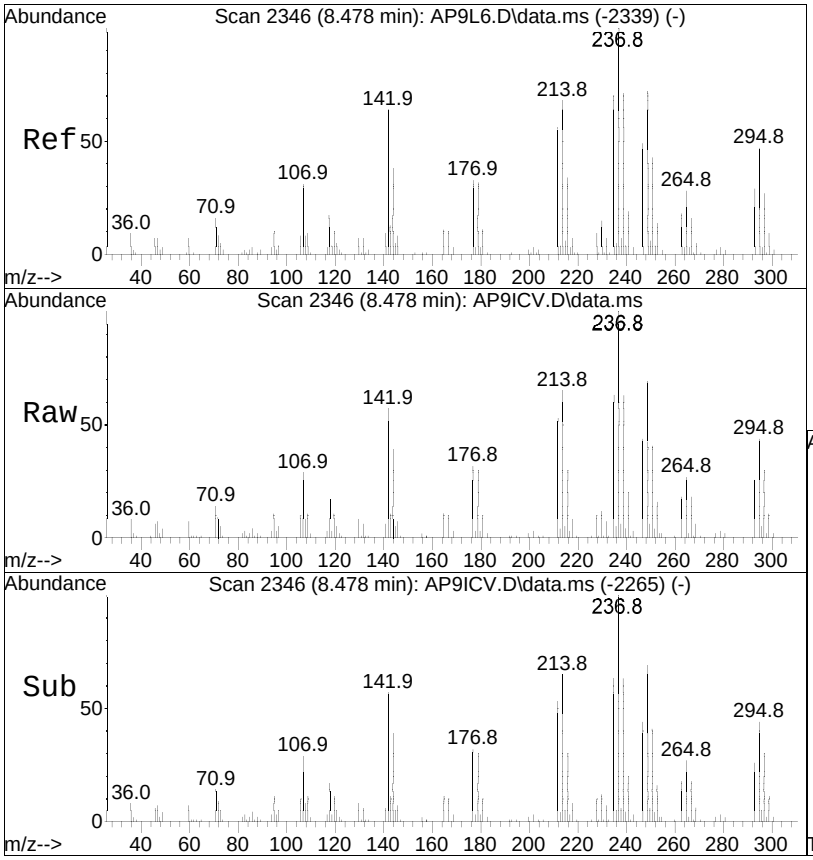


#86
Dichloran
Concen: 5.35 ug/ml
RT: 8.332 min Scan# 2299
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 6 Nov 2024 12:23 am

Tgt Ion:206 Resp: 14931

Ion	Ratio	Lower	Upper
206	100		
176	92.1	104.6	157.0#
124	93.6	130.5	195.7#

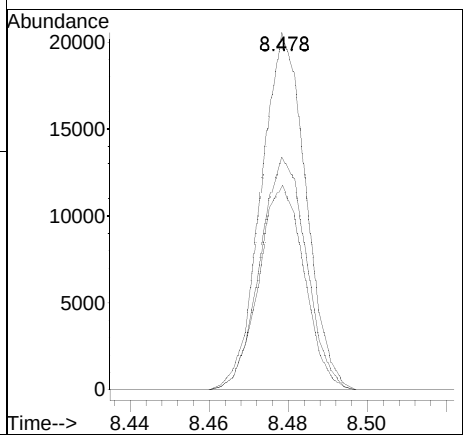


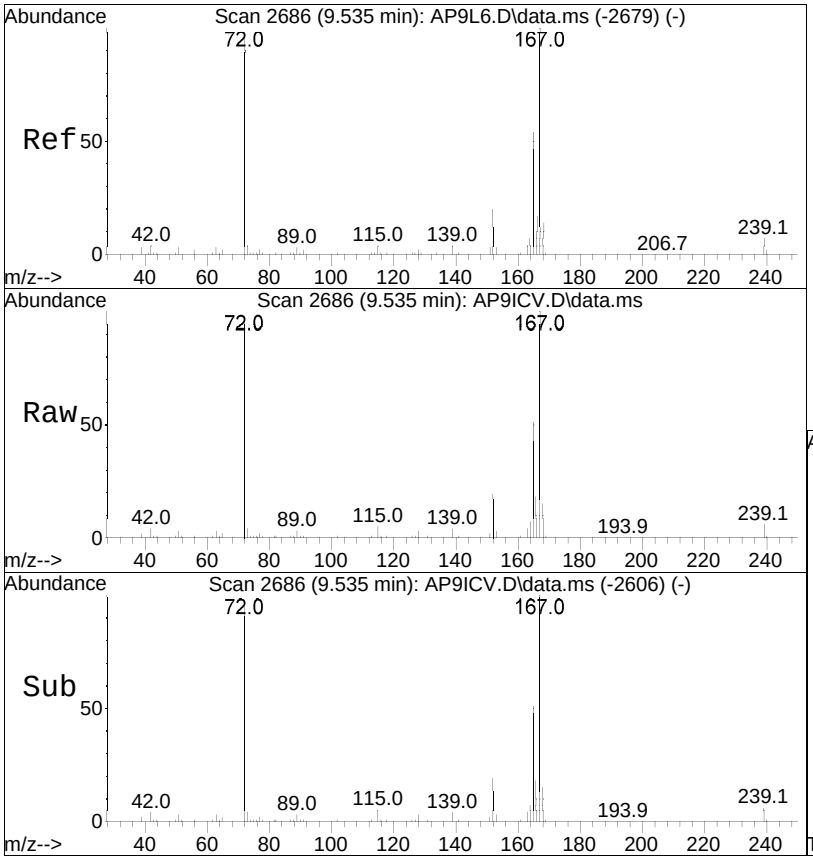


#87
Pentachloronitrobenzene
Concen: 5.23 ug/ml
RT: 8.478 min Scan# 2346
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 6 Nov 2024 12:23 am

Tgt Ion:237 Resp: 16109

Ion	Ratio	Lower	Upper
237	100		
142	58.5	77.0	115.4#
214	67.2	58.2	87.4

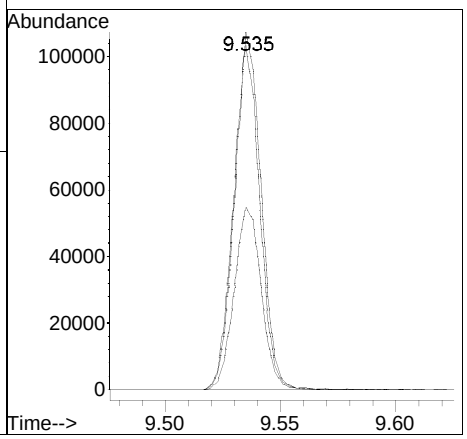




#101
Diphenamid
Concen: 5.61 ug/ml
RT: 9.535 min Scan# 2686
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 6 Nov 2024 12:23 am

Tgt Ion:167 Resp: 84796

Ion	Ratio	Lower	Upper
167	100		
72	95.3	109.7	164.5#
165	52.6	41.8	62.6



Manual Integration Report

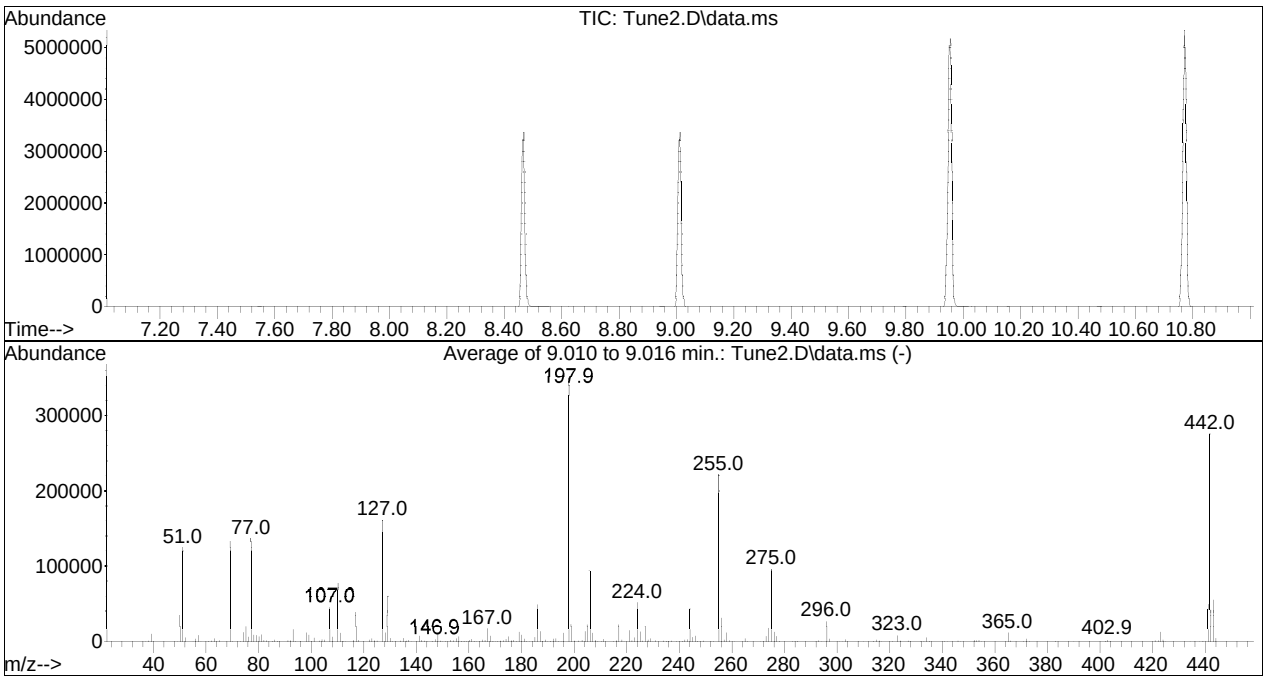
Data Path	: I:\8270\Dakota\241105RVTICQ	Method	: FS241105RVT_Dakota.m
Data File	: AP9ICV.D	Operator	: Dakota:HNY
Date Inj'd	: 11/6/2024 12:23 am	Instrument	: Dakota
Sample	: CQICV2,32,,AP9ICV Lot# 111	Quant Date	: 11/6/2024 10:19 am

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

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : Tune2.D
Acq On : 6 Nov 2024 12:46 am
Operator : Dakota:HNY
Sample : Tune2 Lot # 11144
Misc : WG1994500
ALS Vial : 100 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Nov 11 15:34:18 2024



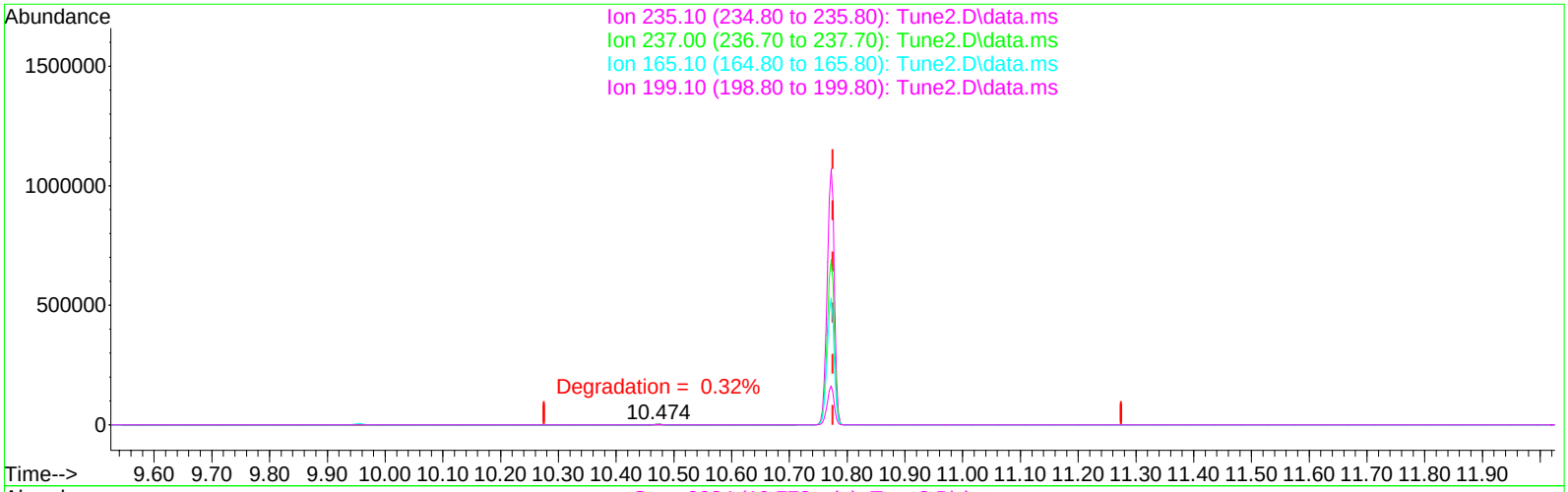
Spectrum Information: Average of 9.010 to 9.016 min.

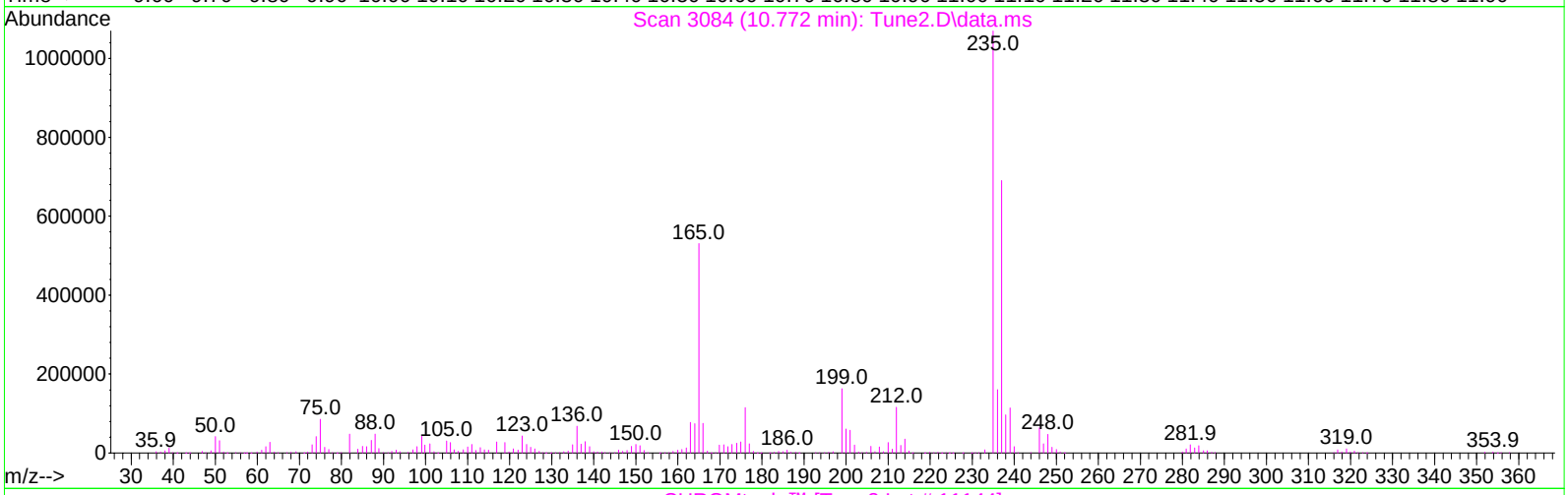
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	35.4	124264	PASS
68	69	0.00	2	0.0	0	PASS
69	69	100	100	100.0	132925	PASS
70	69	0.00	2	0.6	743	PASS
127	198	10	80	45.9	160797	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	350613	PASS
199	198	5	9	6.6	23221	PASS
275	198	10	60	27.4	95952	PASS
365	198	1	100	3.3	11616	PASS
441	442	0.01	24	17.8	49075	PASS
442	198	50	100	78.8	276117	PASS
443	442	15	24	19.8	54664	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : Tune2.D
Acq On : 6 Nov 2024 12:46 am
Operator : Dakota:HNY
Sample : Tune2 Lot # 11144
Misc : WG1994500
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Nov 06 05:42:03 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Nov 01 13:11:54 2024
Response via : Initial Calibration





CHROMtools™ [Tune2 Lot # 11144]

(6) DDT (T)

10.772min (-0.003) 153.25

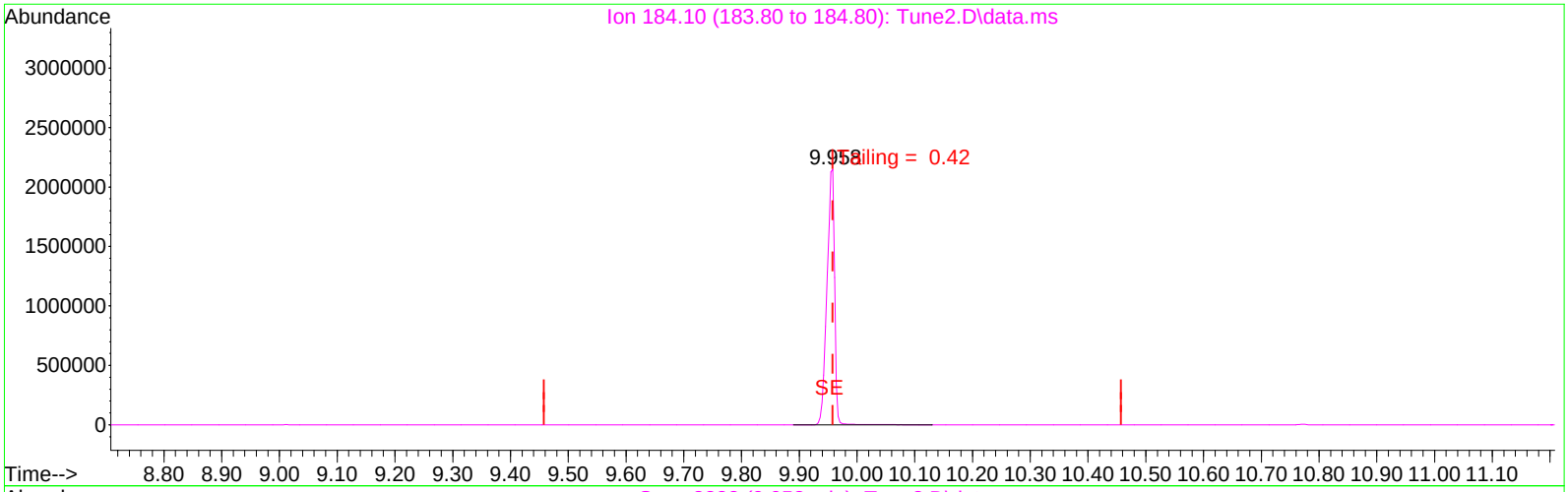
response 934167

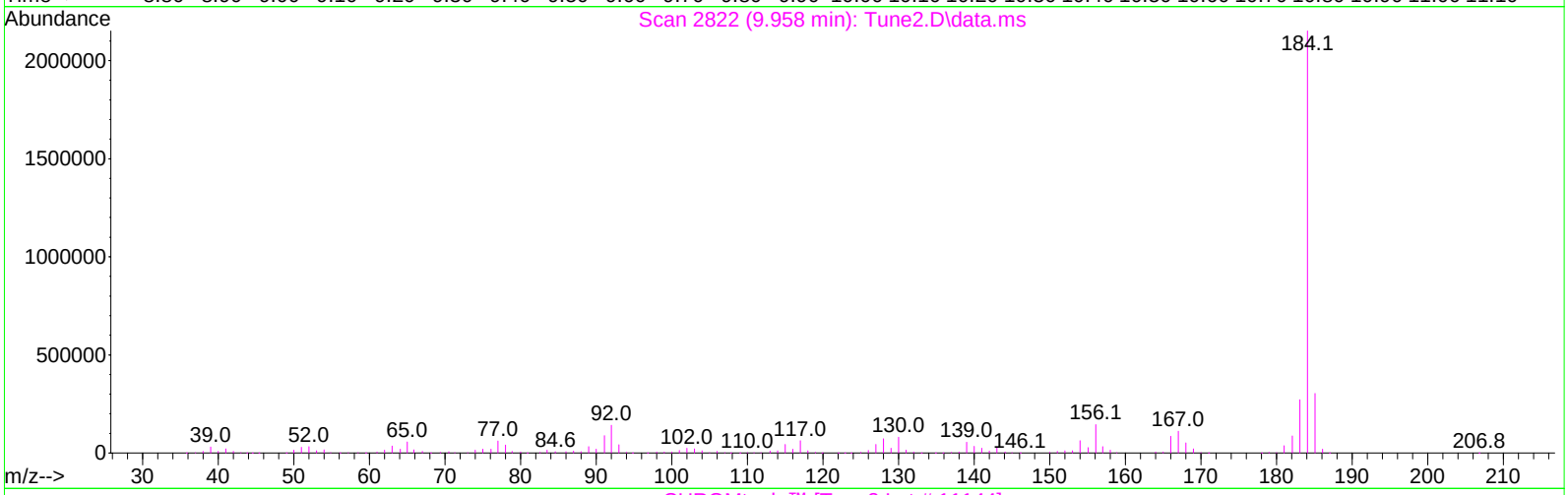
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.90	64.21
165.10	48.70	47.94
199.10	15.80	14.64

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : Tune2.D
Acq On : 6 Nov 2024 12:46 am
Operator : Dakota:HNY
Sample : Tune2 Lot # 11144
Misc : WG1994500
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Nov 06 05:42:03 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Nov 01 13:11:54 2024
Response via : Initial Calibration





CHROMtools™ [Tune2 Lot # 11144]

(3) Benzidine (T)

9.958min (-0.000) 193.14

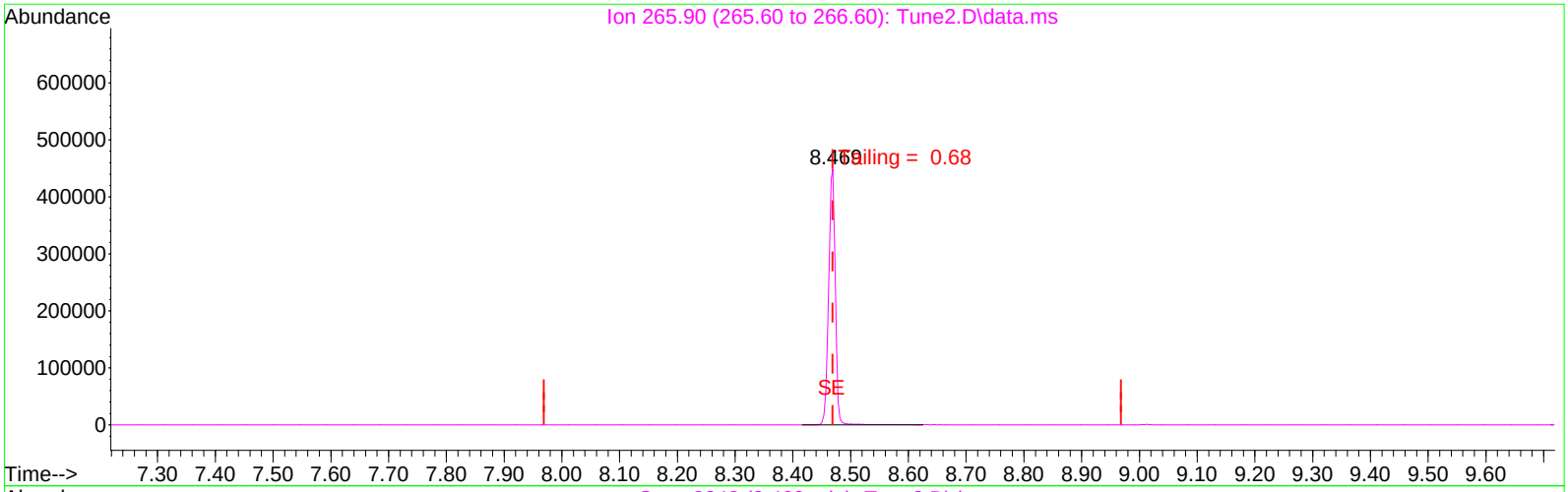
response 1966199

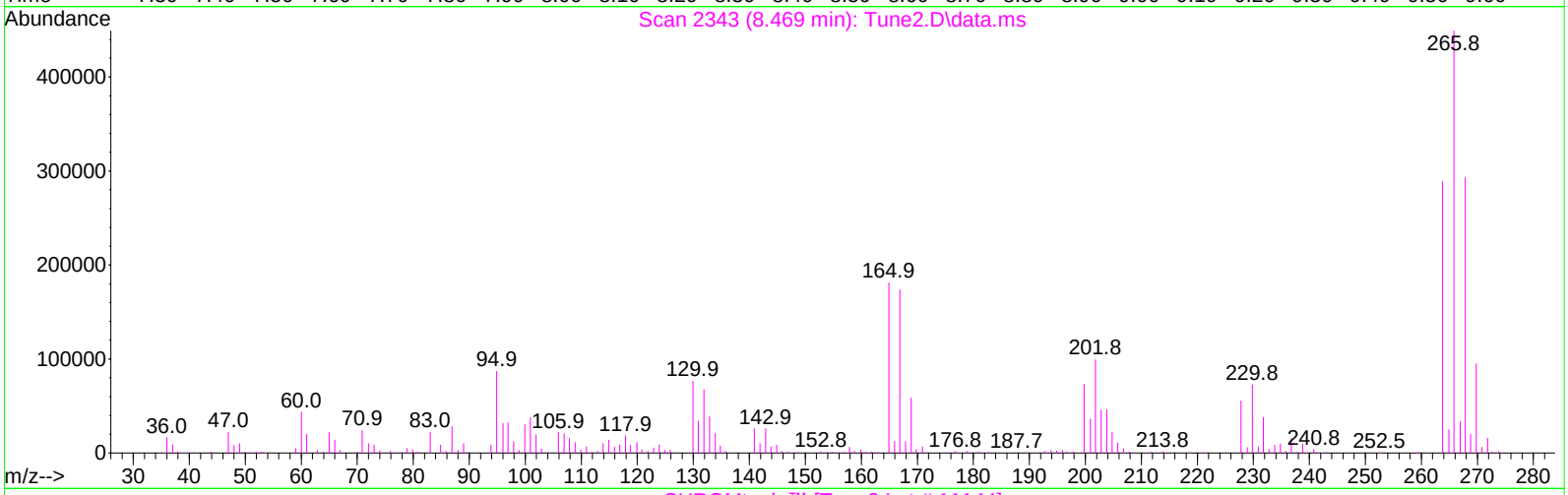
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : Tune2.D
Acq On : 6 Nov 2024 12:46 am
Operator : Dakota:HNY
Sample : Tune2 Lot # 11144
Misc : WG1994500
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Nov 06 05:42:03 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Nov 01 13:11:54 2024
Response via : Initial Calibration





CHROMtools™ [Tune2 Lot # 11144]

(1) Pentachlorophenol (T)

8.469min (+ 0.000) 171.00

response 359167

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ADPL9.D
Acq On : 6 Nov 2024 1:10 am
Operator : Dakota:HNY
Sample : IL2,32,,ADPL50 Lot# 11129
Misc : WG1994500
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 06 09:33:16 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ADPL6.D
Sub List : ADPical_REV3 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.283	152	28999	4.000	ug/ml	0.00
Standard Area 1 = 27034			Recovery =	107.27%		
88) IS3_Acenaphthene-d10	7.210	164	65804	4.000	ug/ml	0.00
Standard Area 1 = 60553			Recovery =	108.67%		
102) IS3_Phenanthrene-d10	8.622	188	145427	4.000	ug/ml	0.00
Standard Area 1 = 133879			Recovery =	108.63%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.392	88	141959	49.972	ug/ml#	86
34) n-Nitrosodiethylamine	3.204	102	152387	54.276	ug/ml#	58
35) n-Decane	4.186	57	401118	48.893	ug/ml#	31
36) n-Nitrosopyrrolidine	4.668	100	194528	56.865	ug/ml#	76
89) Atrazine	8.432	200	329261	44.732	ug/ml	91
103) n-Octadecane	8.637	57	671578	53.256	ug/ml#	1
104) Parathion	9.423	109	209761	74.031	ug/ml	95
105) 3,3'-Dimethylbenzidine	10.670	212	1582279	46.887	ug/ml	99

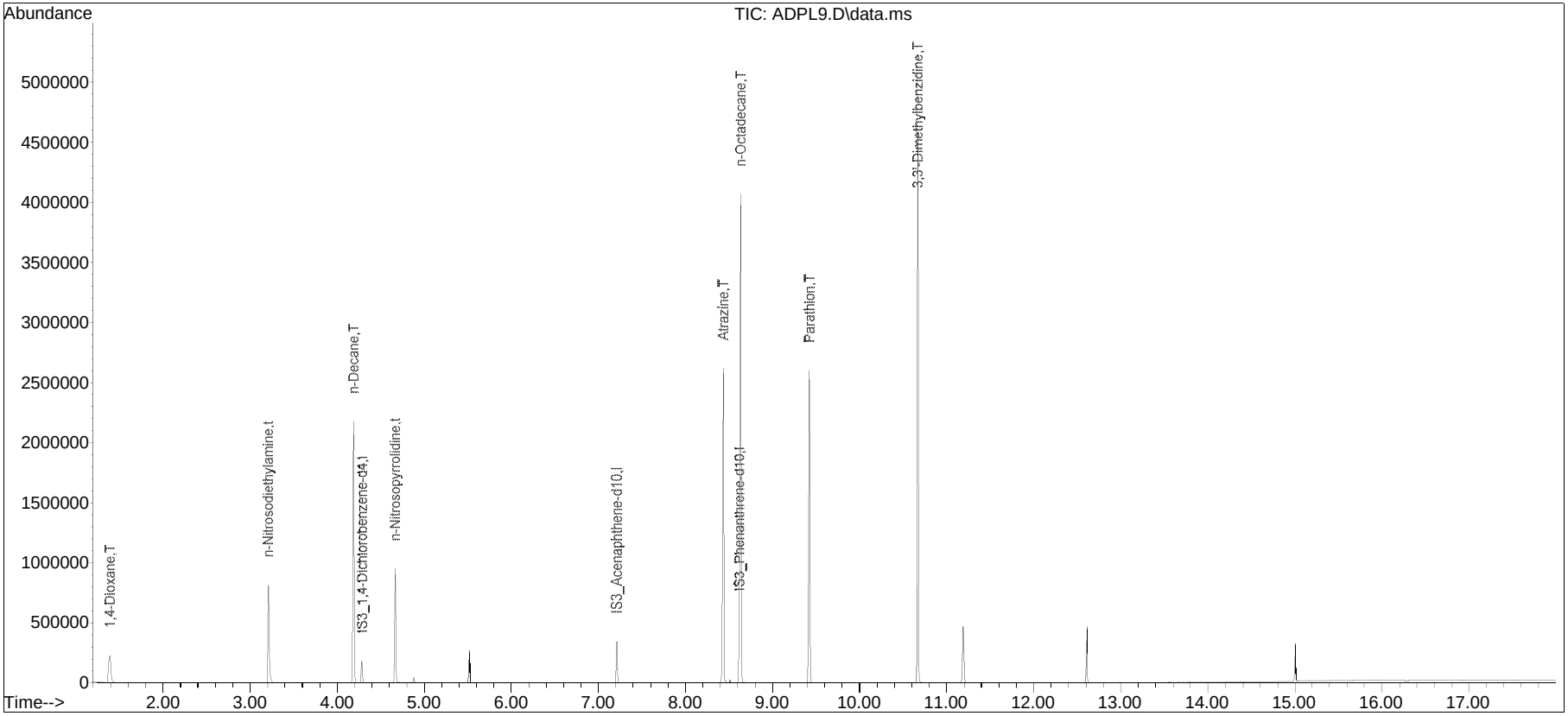
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ADPL9.D
Acq On : 6 Nov 2024 1:10 am
Operator : Dakota:HNY
Sample : IL2,32,,ADPL50 Lot# 11129
Misc : WG1994500
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 06 09:33:16 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

Sub List : ADPical_REV3 - ADP sublistVTICAL\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\241105RVTICQ	Method	: FS241105RVT_Dakota.m
Data File	: ADPL9.D	Operator	: Dakota:HNY
Date Inj'd	: 11/6/2024 1:10 am	Instrument	: Dakota
Sample	: IL2,32,,ADPL50 Lot# 11129	Quant Date	: 11/6/2024 8:37 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ADPL8.D
Acq On : 6 Nov 2024 1:33 am
Operator : Dakota:HNY
Sample : IL3,32,,ADPL25 Lot# 11130
Misc : WG1994500
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Nov 06 09:32:37 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ADPL6.D
Sub List : ADPical_REV3 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.282	152	29582	4.000	ug/ml	0.00
Standard Area 1 = 27034			Recovery =	109.43%		
88) IS3_Acenaphthene-d10	7.210	164	67966	4.000	ug/ml	0.00
Standard Area 1 = 60553			Recovery =	112.24%		
102) IS3_Phenanthrene-d10	8.624	188	154856	4.000	ug/ml	0.00
Standard Area 1 = 133879			Recovery =	115.67%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.395	88	75610	26.091	ug/ml#	85
34) n-Nitrosodiethylamine	3.207	102	80879	28.239	ug/ml#	59
35) n-Decane	4.186	57	214035	25.575	ug/ml#	31
36) n-Nitrosopyrrolidine	4.665	100	101610	29.118	ug/ml#	75
89) Atrazine	8.429	200	170370	22.409	ug/ml	91
103) n-Octadecane	8.637	57	356815	26.572	ug/ml#	1
104) Parathion	9.423	109	102258	33.893	ug/ml	94
105) 3,3'-Dimethylbenzidine	10.666	212	818111	22.767	ug/ml	99

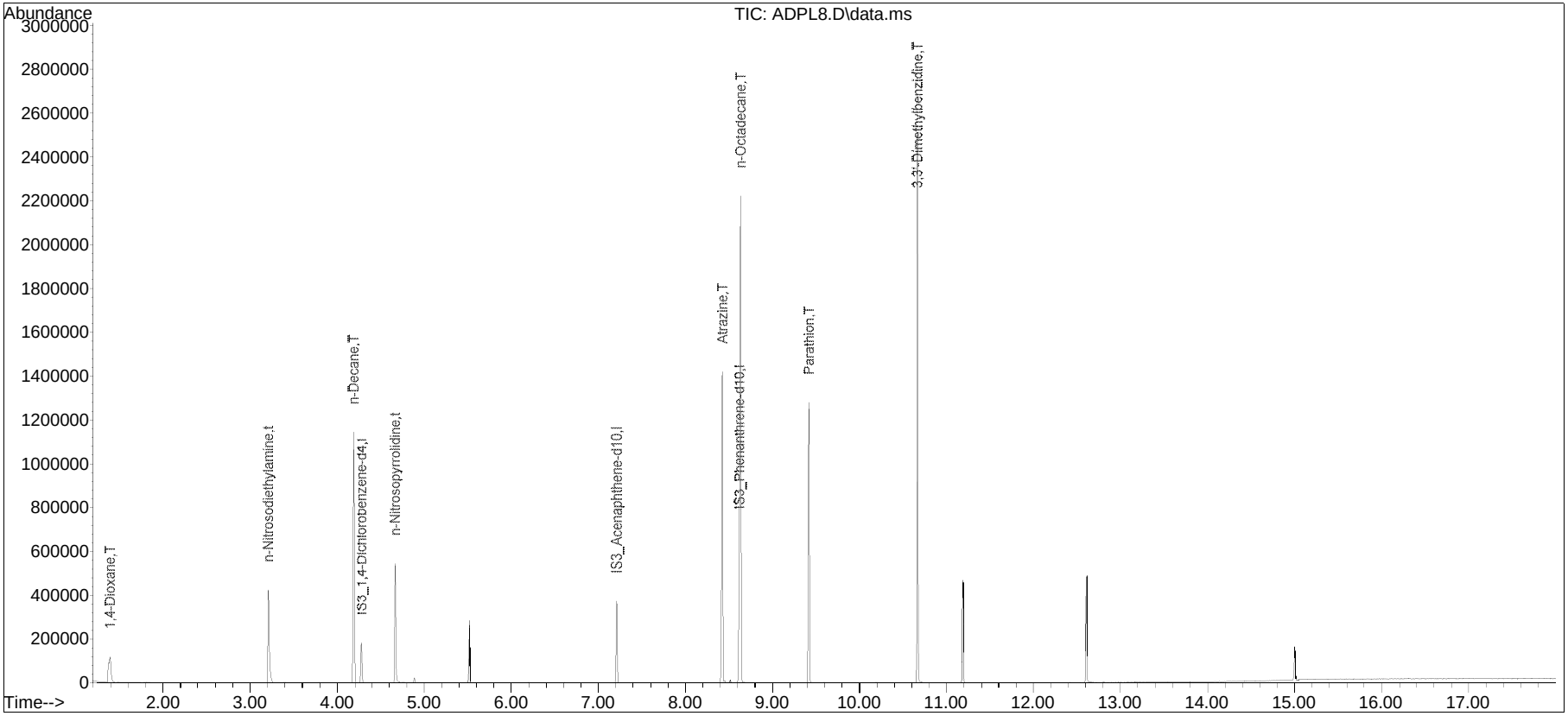
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ADPL8.D
Acq On : 6 Nov 2024 1:33 am
Operator : Dakota:HNY
Sample : IL3,32,,ADPL25 Lot# 11130
Misc : WG1994500
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Nov 06 09:32:37 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

Sub List : ADPical_REV3 - ADP sublistVTICAL\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\241105RVTICQ	Method	: FS241105RVT_Dakota.m
Data File	: ADPL8.D	Operator	: Dakota:HNY
Date Inj'd	: 11/6/2024 1:33 am	Instrument	: Dakota
Sample	: IL3,32,,ADPL25 Lot# 11130	Quant Date	: 11/6/2024 8:37 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ADPL7.D
Acq On : 6 Nov 2024 1:56 am
Operator : Dakota:HNY
Sample : IL4,32,,ADPL10 Lot# 11131
Misc : WG1994500
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Nov 06 09:32:07 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ADPL6.D
Sub List : ADPical_REV3 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.282	152	28322	4.000	ug/ml	0.00
Standard Area 1 = 27034			Recovery =	104.76%		
88) IS3_Acenaphthene-d10	7.210	164	67913	4.000	ug/ml	0.00
Standard Area 1 = 60553			Recovery =	112.15%		
102) IS3_Phenanthrene-d10	8.621	188	151398	4.000	ug/ml	0.00
Standard Area 1 = 133879			Recovery =	113.09%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.401	88	28296	10.199	ug/ml#	85
34) n-Nitrosodiethylamine	3.213	102	29305	10.687	ug/ml#	59
35) n-Decane	4.186	57	76941	9.603	ug/ml#	29
36) n-Nitrosopyrrolidine	4.665	100	36910	11.048	ug/ml#	74
89) Atrazine	8.422	200	59430	7.823	ug/ml	91
103) n-Octadecane	8.634	57	131320	10.003	ug/ml#	1
104) Parathion	9.420	109	32544	11.033	ug/ml	94
105) 3,3'-Dimethylbenzidine	10.663	212	277721	7.905	ug/ml	99

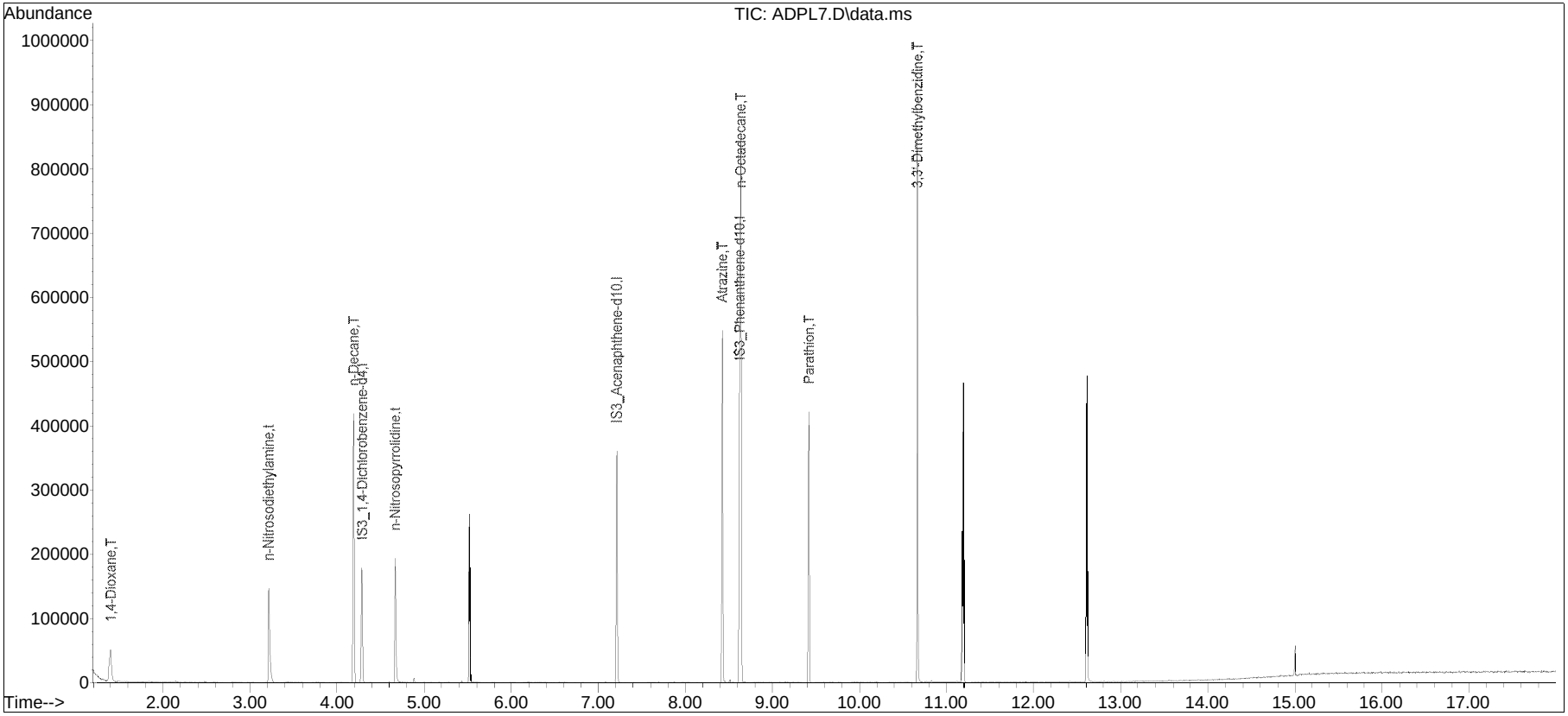
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ADPL7.D
Acq On : 6 Nov 2024 1:56 am
Operator : Dakota:HNY
Sample : IL4,32,,ADPL10 Lot# 11131
Misc : WG1994500
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Nov 06 09:32:07 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

Sub List : ADPical_REV3 - ADP sublistVTICAL\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\241105RVTICQ	Method	: FS241105RVT_Dakota.m
Data File	: ADPL7.D	Operator	: Dakota:HNY
Date Inj'd	: 11/6/2024 1:56 am	Instrument	: Dakota
Sample	: IL4,32,,ADPL10 Lot# 11131	Quant Date	: 11/6/2024 8:37 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ADPL6.D
Acq On : 6 Nov 2024 2:20 am
Operator : Dakota:HNY
Sample : IL5,32,,ADPL5 Lot# 11132
Misc : WG1994500
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Nov 06 09:31:35 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ADPL6.D
Sub List : ADPical_REV3 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.282	152	27034	4.000	ug/ml	0.00
Standard Area 1 = 27034			Recovery =	100.00%		
88) IS3_Acenaphthene-d10	7.210	164	60553	4.000	ug/ml	0.00
Standard Area 1 = 60553			Recovery =	100.00%		
102) IS3_Phenanthrene-d10	8.621	188	133879	4.000	ug/ml	0.00
Standard Area 1 = 133879			Recovery =	100.00%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.395	88	13637	5.149	ug/ml#	86
34) n-Nitrosodiethylamine	3.216	102	13557	5.180	ug/ml#	56
35) n-Decane	4.186	57	37066	4.846	ug/ml#	31
36) n-Nitrosopyrrolidine	4.665	100	16431	5.152	ug/ml#	69
89) Atrazine	8.422	200	25869	3.819	ug/ml	92
103) n-Octadecane	8.634	57	55610	4.790	ug/ml#	1
104) Parathion	9.417	109	12413	4.759	ug/ml	88
105) 3,3'-Dimethylbenzidine	10.660	212	108634	3.497	ug/ml	99

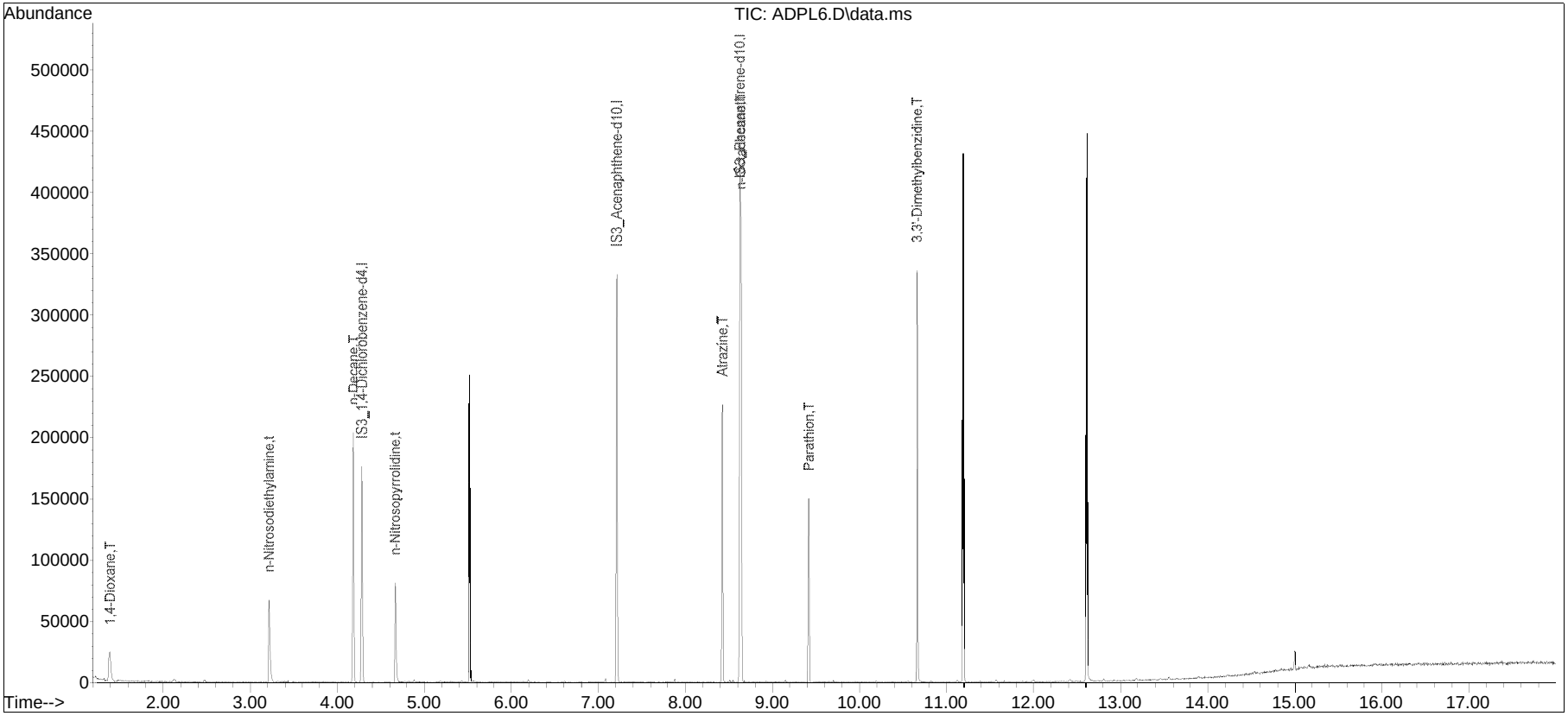
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ADPL6.D
Acq On : 6 Nov 2024 2:20 am
Operator : Dakota:HNY
Sample : IL5,32,,ADPL5 Lot# 11132
Misc : WG1994500
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Nov 06 09:31:35 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

Sub List : ADPical_REV3 - ADP sublistVTICAL\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\241105RVTICQ	Method	: FS241105RVT_Dakota.m
Data File	: ADPL6.D	Operator	: Dakota:HNY
Date Inj'd	: 11/6/2024 2:20 am	Instrument	: Dakota
Sample	: IL5,32,,ADPL5 Lot# 11132	Quant Date	: 11/6/2024 8:37 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ADPL5.D
Acq On : 6 Nov 2024 2:43 am
Operator : Dakota:HNY
Sample : IL6,32,,ADPL2.5 Lot# 11133
Misc : WG1994500
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Nov 06 09:30:48 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ADPL6.D
Sub List : ADPical_REV3 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.283	152	27964	4.000	ug/ml	0.00
Standard Area 1 = 27034			Recovery =	103.44%		
88) IS3_Acenaphthene-d10	7.210	164	63394	4.000	ug/ml	0.00
Standard Area 1 = 60553			Recovery =	104.69%		
102) IS3_Phenanthrene-d10	8.621	188	139475	4.000	ug/ml	0.00
Standard Area 1 = 133879			Recovery =	104.18%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.395	88	6846	2.499	ug/ml#	87
34) n-Nitrosodiethylamine	3.223	102	6674	2.465	ug/ml#	60
35) n-Decane	4.186	57	17770	2.246	ug/ml#	29
36) n-Nitrosopyrrolidine	4.668	100	7709	2.337	ug/ml#	70
89) Atrazine	8.419	200	12402	1.749	ug/ml	90
103) n-Octadecane	8.634	57	26941	2.228	ug/ml#	1
104) Parathion	9.417	109	5990	2.204	ug/ml	91
105) 3,3'-Dimethylbenzidine	10.660	212	47257	1.460	ug/ml	99

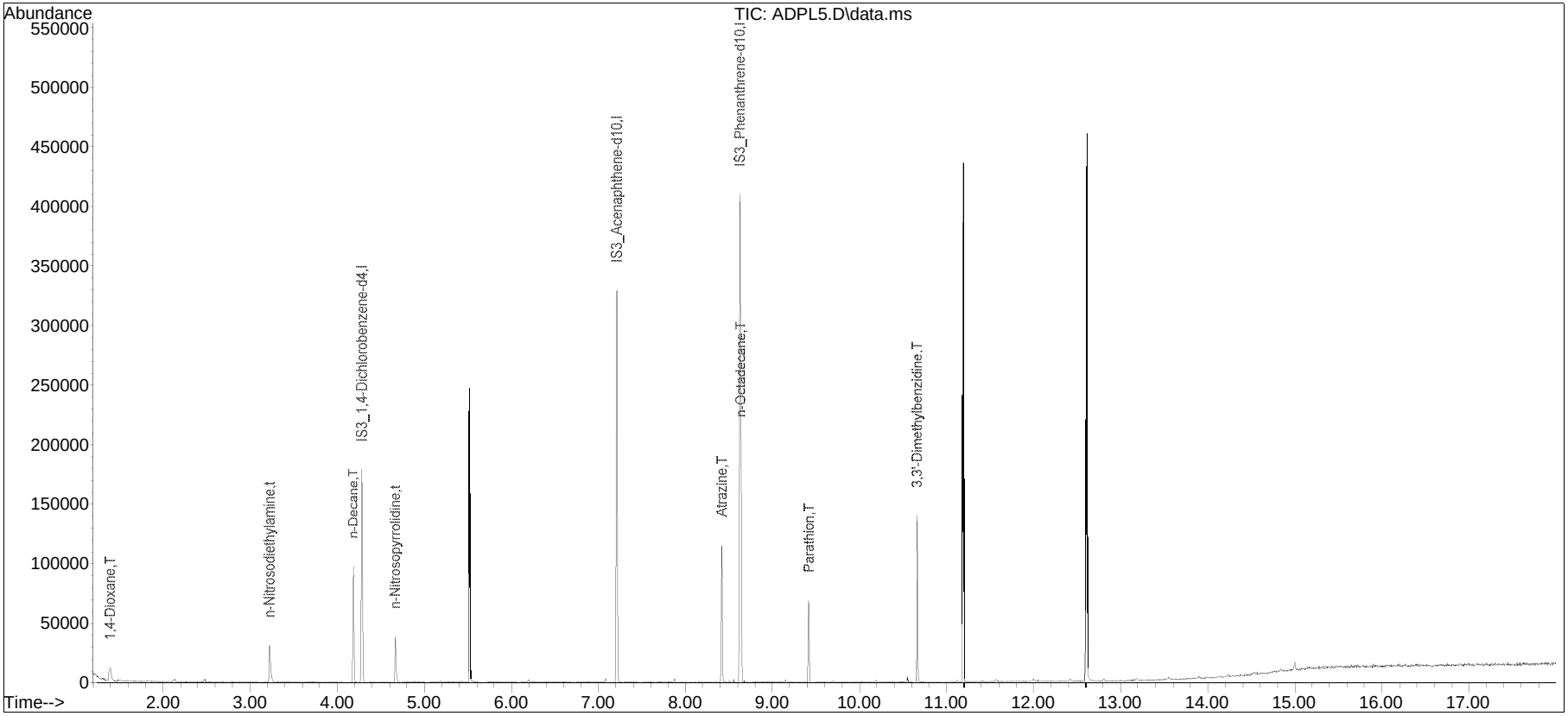
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ADPL5.D
Acq On : 6 Nov 2024 2:43 am
Operator : Dakota:HNY
Sample : IL6,32,,ADPL2.5 Lot# 11133
Misc : WG1994500
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Nov 06 09:30:48 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

Sub List : ADPical_REV3 - ADP sublistVTICAL\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\241105RVTICQ	Method	: FS241105RVT_Dakota.m
Data File	: ADPL5.D	Operator	: Dakota:HNY
Date Inj'd	: 11/6/2024 2:43 am	Instrument	: Dakota
Sample	: IL6,32,,ADPL2.5 Lot# 11133	Quant Date	: 11/6/2024 8:36 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ADPL4.D
Acq On : 6 Nov 2024 3:07 am
Operator : Dakota:HNY
Sample : IL7,32,,ADPL1 Lot# 11134
Misc : WG1994500
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Nov 06 09:30:26 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ADPL6.D
Sub List : ADPical_REV3 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.282	152	30288	4.000	ug/ml	0.00
Standard Area 1 = 27034			Recovery =	112.04%		
88) IS3_Acenaphthene-d10	7.210	164	68614	4.000	ug/ml	0.00
Standard Area 1 = 60553			Recovery =	113.31%		
102) IS3_Phenanthrene-d10	8.621	188	152054	4.000	ug/ml	0.00
Standard Area 1 = 133879			Recovery =	113.58%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.398	88	3010M1	1.014	ug/ml	
34) n-Nitrosodiethylamine	3.229	102	2624	0.895	ug/ml#	47
35) n-Decane	4.186	57	7320	0.854	ug/ml#	28
36) n-Nitrosopyrrolidine	4.671	100	3260	0.912	ug/ml#	72
89) Atrazine	8.419	200	4884	0.636	ug/ml	90
103) n-Octadecane	8.634	57	11002	0.834	ug/ml#	1
104) Parathion	9.417	109	2346	0.792	ug/ml#	80
105) 3,3'-Dimethylbenzidine	10.660	212	16174	0.458	ug/ml	97

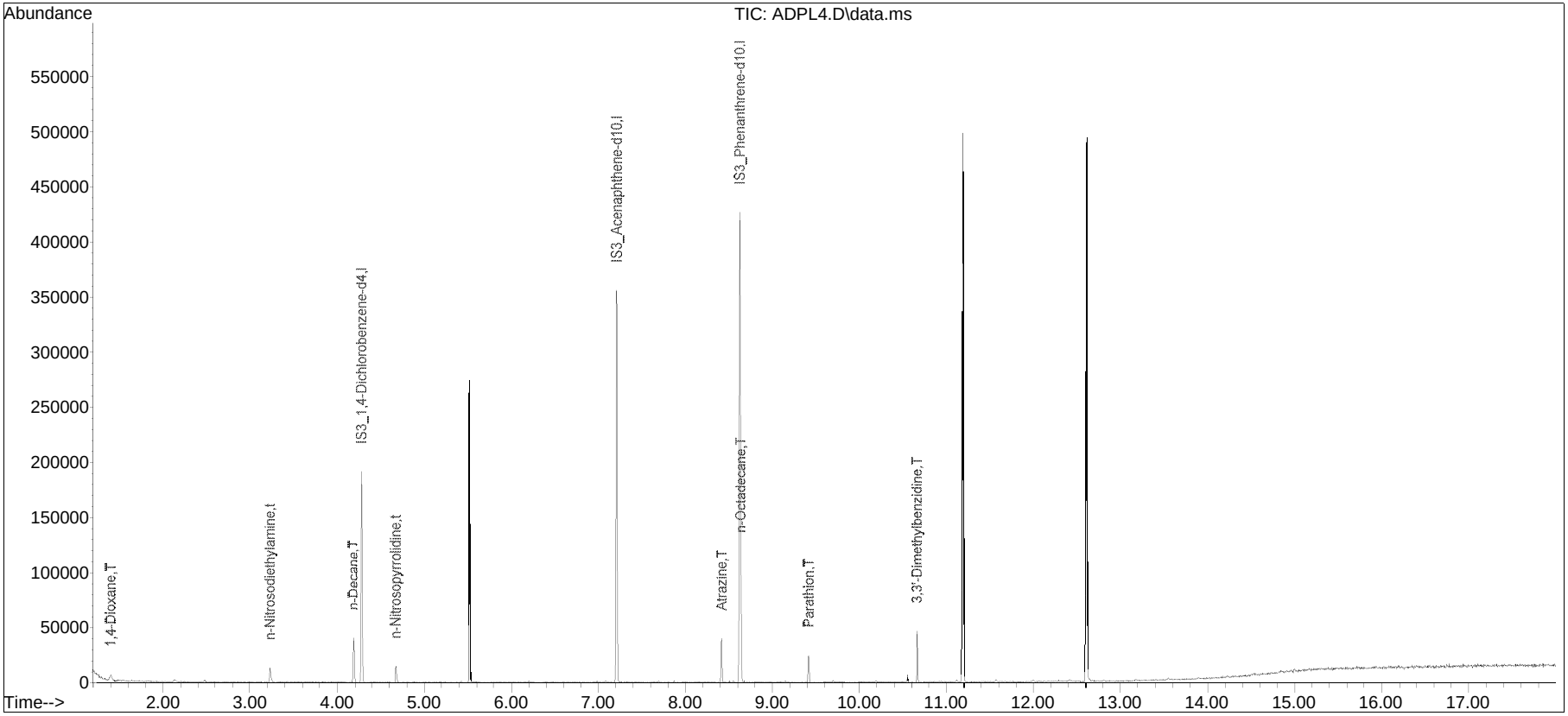
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ADPL4.D
Acq On : 6 Nov 2024 3:07 am
Operator : Dakota:HNY
Sample : IL7,32,,ADPL1 Lot# 11134
Misc : WG1994500
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Nov 06 09:30:26 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

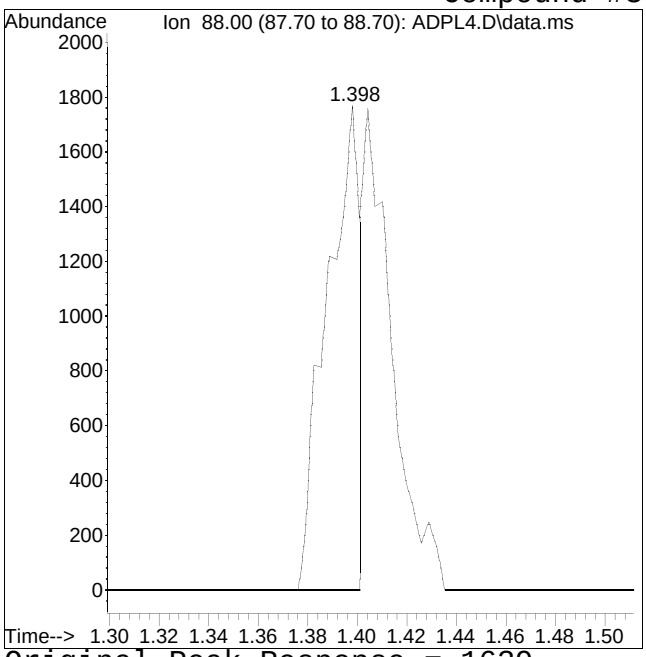
Sub List : ADPical_REV3 - ADP sublistVTICAL\ADPL6.D•

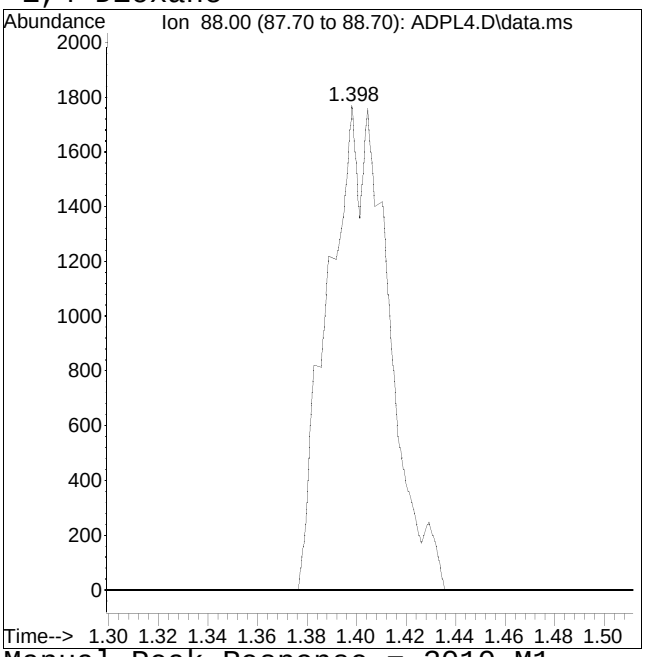


Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQ
Data File : ADPL4.D
Date Inj'd : 11/6/2024 3:07 am
Sample : IL7,32,,ADPL1 Lot# 11134
Method : FS241105RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 11/6/2024 8:36 am

Compound #33: 1,4-Dioxane





Original Peak Response = 1639 Manual Peak Response = 3010 M1

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ADPL3.D
Acq On : 6 Nov 2024 3:30 am
Operator : Dakota:HNY
Sample : IL8,32,,ADPL0.5 Lot# 11135
Misc : WG1994500
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Nov 06 09:29:58 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ADPL6.D
Sub List : ADPical_REV3 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.283	152	29927	4.000	ug/ml	0.00
Standard Area 1 = 27034			Recovery =	110.70%		
88) IS3_Acenaphthene-d10	7.207	164	68245	4.000	ug/ml	0.00
Standard Area 1 = 60553			Recovery =	112.70%		
102) IS3_Phenanthrene-d10	8.621	188	156900	4.000	ug/ml	0.00
Standard Area 1 = 133879			Recovery =	117.20%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.411	88	1504M1	0.513	ug/ml	
34) n-Nitrosodiethylamine	3.235	102	1392	0.480	ug/ml#	26
35) n-Decane	4.186	57	4118	0.486	ug/ml#	27
36) n-Nitrosopyrrolidine	4.674	100	1725	0.489	ug/ml#	56
89) Atrazine	8.419	200	3137	0.411	ug/ml	91
103) n-Octadecane	8.634	57	6958	0.511	ug/ml#	1
104) Parathion	9.420	109	1494	0.489	ug/ml	91
105) 3,3'-Dimethylbenzidine	10.660	212	8441	0.232	ug/ml	96

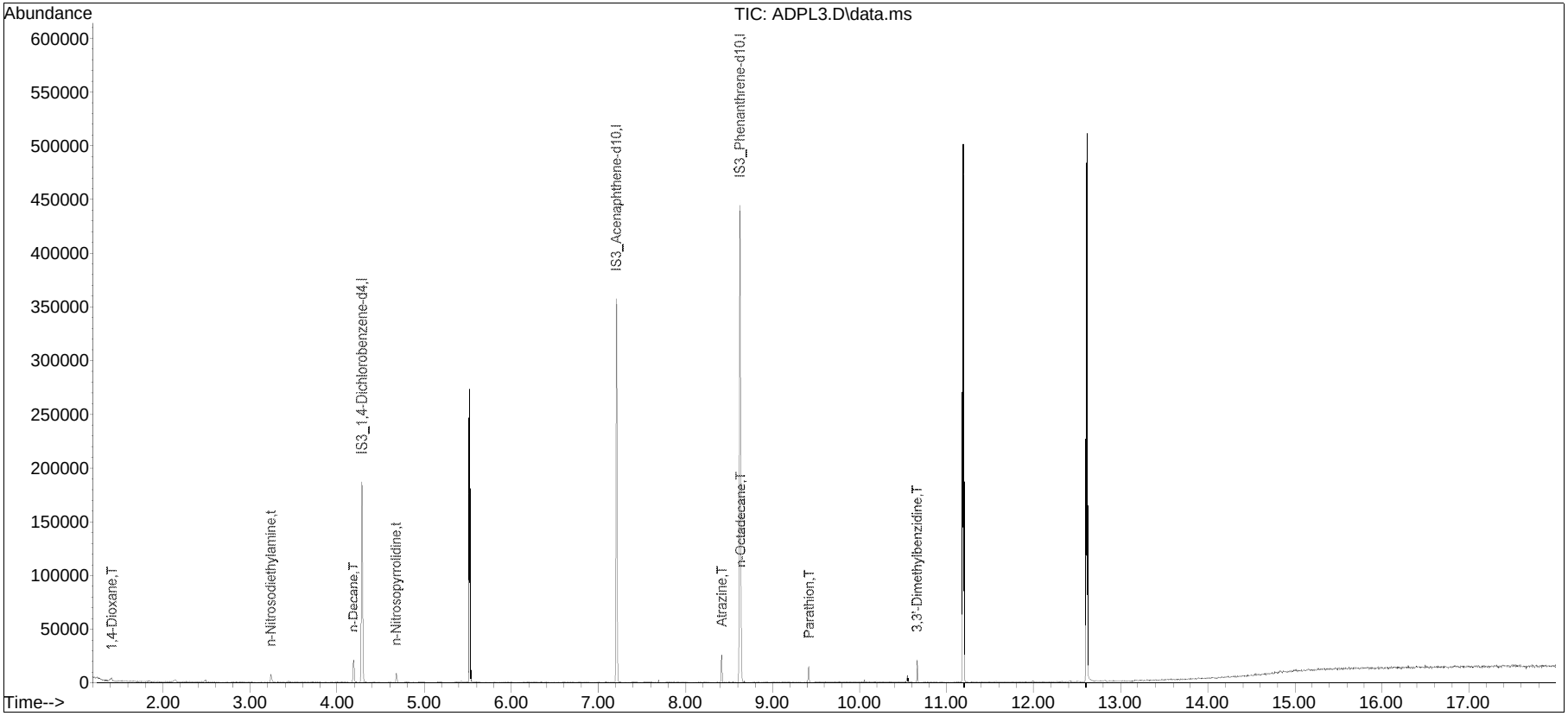
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ADPL3.D
Acq On : 6 Nov 2024 3:30 am
Operator : Dakota:HNY
Sample : IL8,32,,ADPL0.5 Lot# 11135
Misc : WG1994500
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Nov 06 09:29:58 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

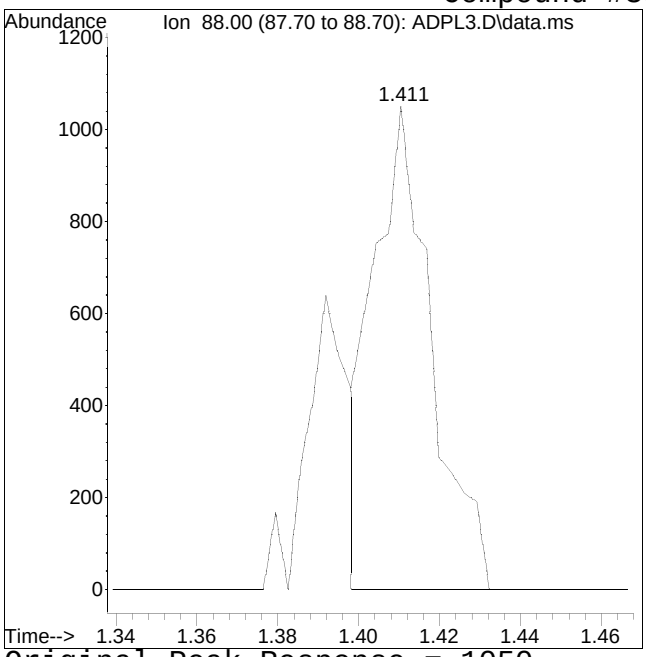
Sub List : ADPical_REV3 - ADP sublistVTICAL\ADPL6.D•



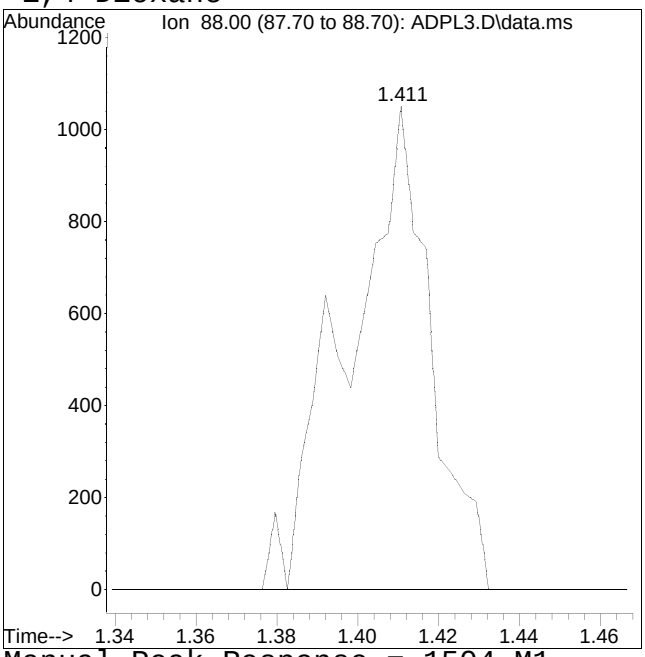
Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQ
Data File : ADPL3.D
Date Inj'd : 11/6/2024 3:30 am
Sample : IL8,32,,ADPL0.5 Lot# 11135
Method : FS241105RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 11/6/2024 8:36 am

Compound #33: 1,4-Dioxane



Original Peak Response = 1050



Manual Peak Response = 1504 M1

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ADPL2.D
Acq On : 6 Nov 2024 3:53 am
Operator : Dakota:HNY
Sample : IL9,32,,ADPL0.2 Lot# 11136
Misc : WG1994500
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Nov 06 09:28:51 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ADPL6.D
Sub List : ADPical_REV3 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.282	152	29865	4.000	ug/ml	0.00
Standard Area 1 = 27034			Recovery =	110.47%		
88) IS3_Acenaphthene-d10	7.210	164	67326	4.000	ug/ml	0.00
Standard Area 1 = 60553			Recovery =	111.19%		
102) IS3_Phenanthrene-d10	8.621	188	154573	4.000	ug/ml	0.00
Standard Area 1 = 133879			Recovery =	115.46%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.411	88	377M2	0.129	ug/ml	
34) n-Nitrosodiethylamine	3.244	102	521	0.180	ug/ml#	29
35) n-Decane	4.186	57	1604	0.190	ug/ml#	29
36) n-Nitrosopyrrolidine	4.680	100	607	0.172	ug/ml#	44
89) Atrazine	8.416	200	1084	0.144	ug/ml#	33
103) n-Octadecane	8.634	57	2734	0.204	ug/ml#	1
104) Parathion	9.420	109	542	0.180	ug/ml#	79
105) 3,3'-Dimethylbenzidine	10.657	212	909	0.025	ug/ml#	62

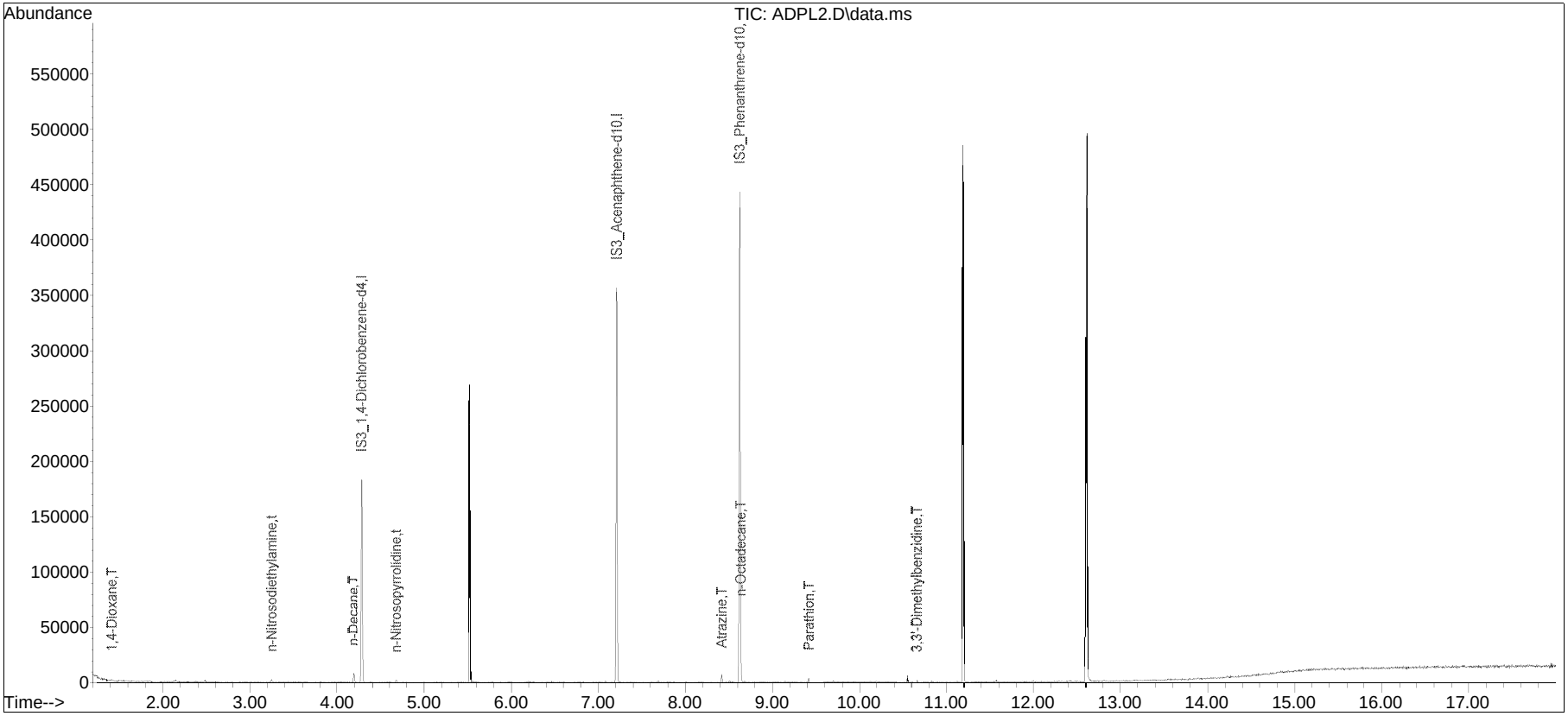
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ADPL2.D
Acq On : 6 Nov 2024 3:53 am
Operator : Dakota:HNY
Sample : IL9,32,,ADPL0.2 Lot# 11136
Misc : WG1994500
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Nov 06 09:28:51 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

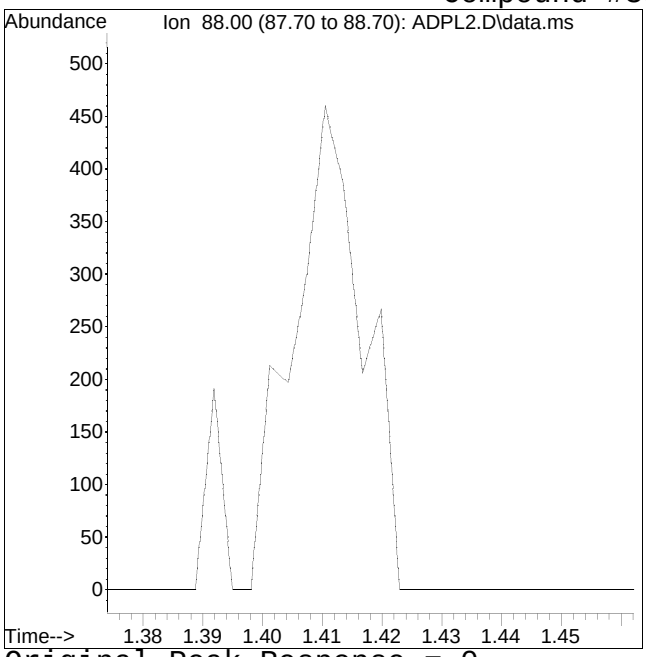
Sub List : ADPical_REV3 - ADP sublistVTICAL\ADPL6.D•



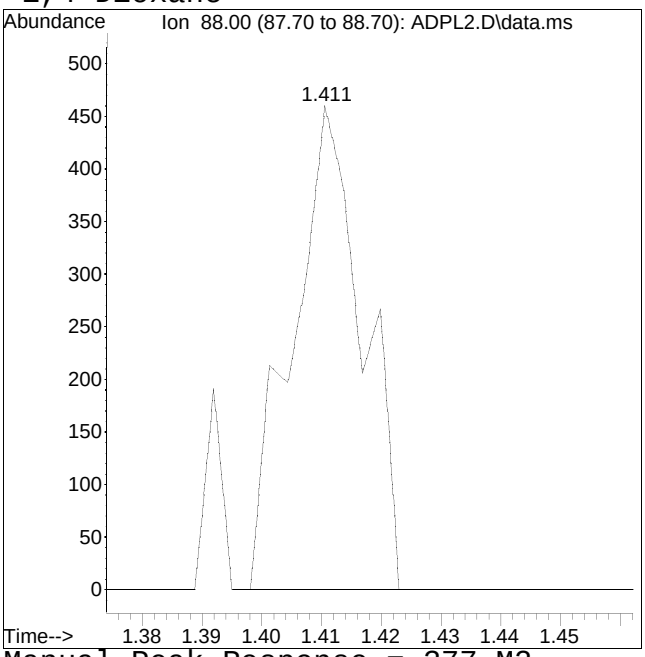
Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQMethod : FS241105RVT_Dakota.m
Data File : ADPL2.D Operator : Dakota:HNY
Date Inj'd : 11/6/2024 3:53 am Instrument : Dakota
Sample : IL9,32,,ADPL0.2 Lot# 11136Quant Date : 11/6/2024 8:36 am

Compound #33: 1,4-Dioxane



Original Peak Response = 0



Manual Peak Response = 377 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ADPL1.D
Acq On : 6 Nov 2024 4:17 am
Operator : Dakota:HNY
Sample : IL10,32,,ADPL0.1 Lot# 11137
Misc : WG1994500
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Nov 06 09:28:15 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ADPL6.D
Sub List : ADPical_REV3 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.283	152	27472	4.000	ug/ml	0.00
Standard Area 1 = 27034			Recovery =	101.62%		
88) IS3_Acenaphthene-d10	7.210	164	60699	4.000	ug/ml	0.00
Standard Area 1 = 60553			Recovery =	100.24%		
102) IS3_Phenanthrene-d10	8.621	188	137822	4.000	ug/ml	0.00
Standard Area 1 = 133879			Recovery =	102.95%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.401	88	71M2	0.026	ug/ml	
34) n-Nitrosodiethylamine	3.244	102	122M2	0.046	ug/ml	
35) n-Decane	4.183	57	569	0.073	ug/ml#	42
36) n-Nitrosopyrrolidine	4.683	100	197M2	0.061	ug/ml	
89) Atrazine	8.416	200	466M2	0.069	ug/ml	
103) n-Octadecane	8.634	57	961	0.080	ug/ml#	1
104) Parathion	9.417	109	181M2	0.067	ug/ml	
105) 3,3'-Dimethylbenzidine	10.663	212	69M4	0.002	ug/ml	

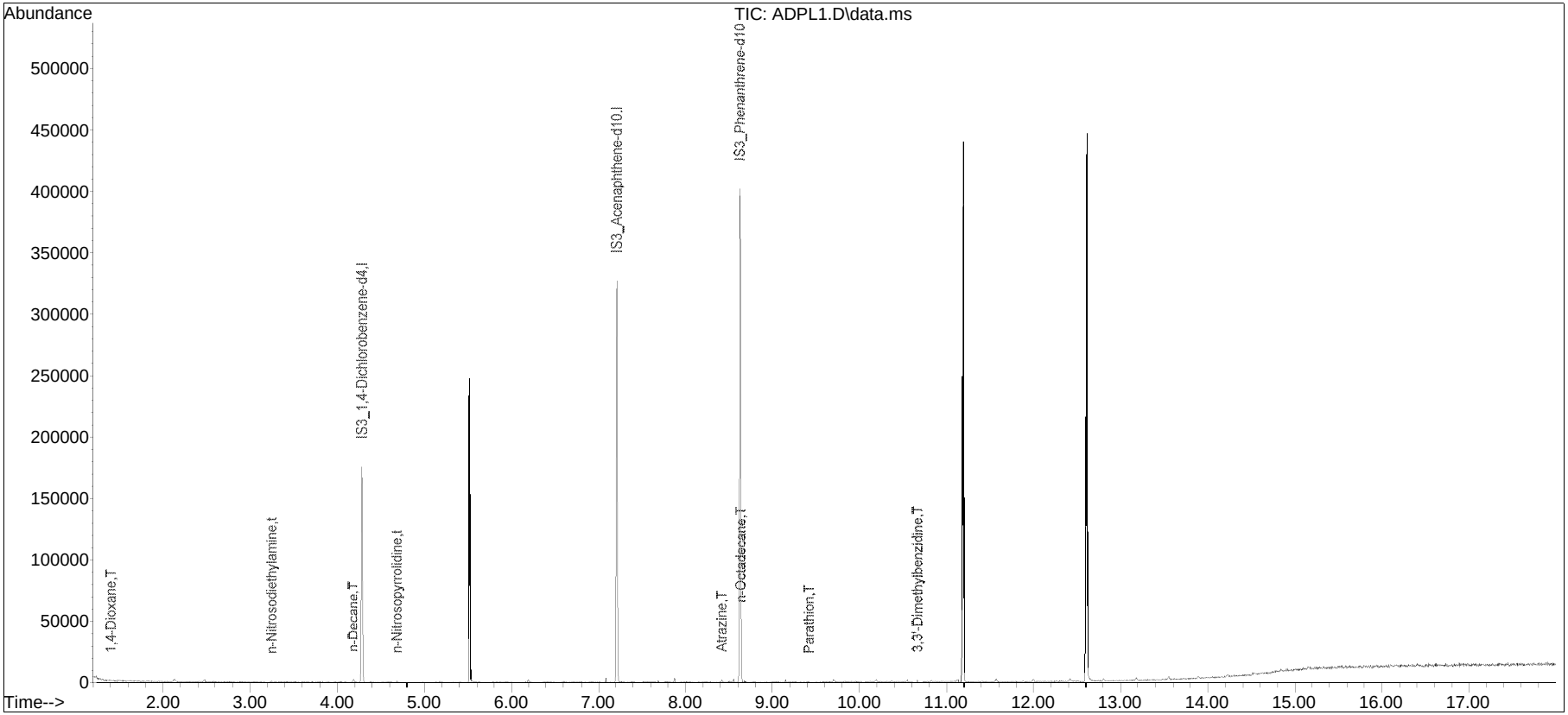
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ADPL1.D
Acq On : 6 Nov 2024 4:17 am
Operator : Dakota:HNY
Sample : IL10,32,,ADPL0.1 Lot# 11137
Misc : WG1994500
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Nov 06 09:28:15 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Nov 06 08:32:35 2024
Response via : Initial Calibration

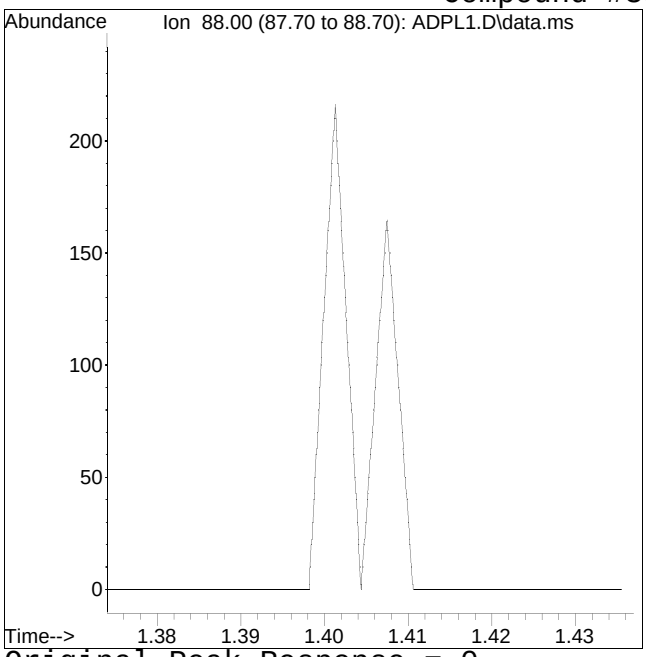
Sub List : ADPical_REV3 - ADP sublistVTICAL\ADPL6.D•



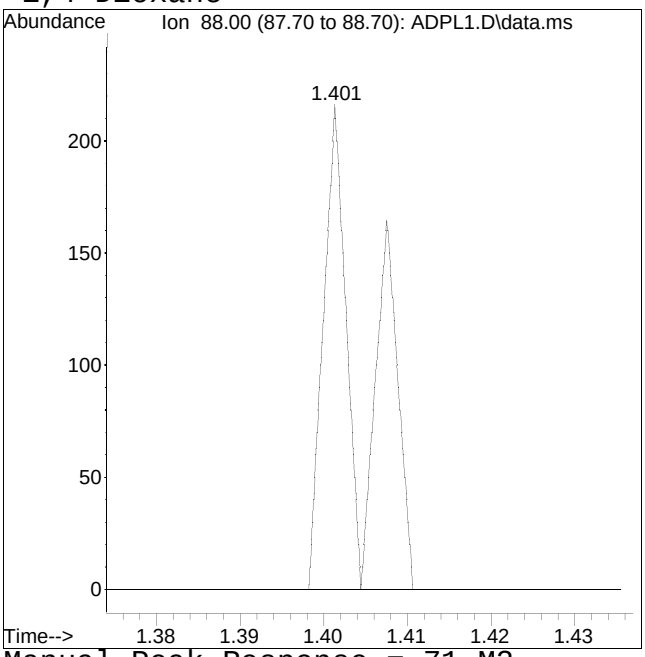
Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQ
Data File : ADPL1.D
Date Inj'd : 11/6/2024 4:17 am
Sample : IL10,32,,ADPL0.1 Lot# 1113
Method : FS241105RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 11/6/2024 8:36 am

Compound #33: 1,4-Dioxane



Original Peak Response = 0



Manual Peak Response = 71 M2

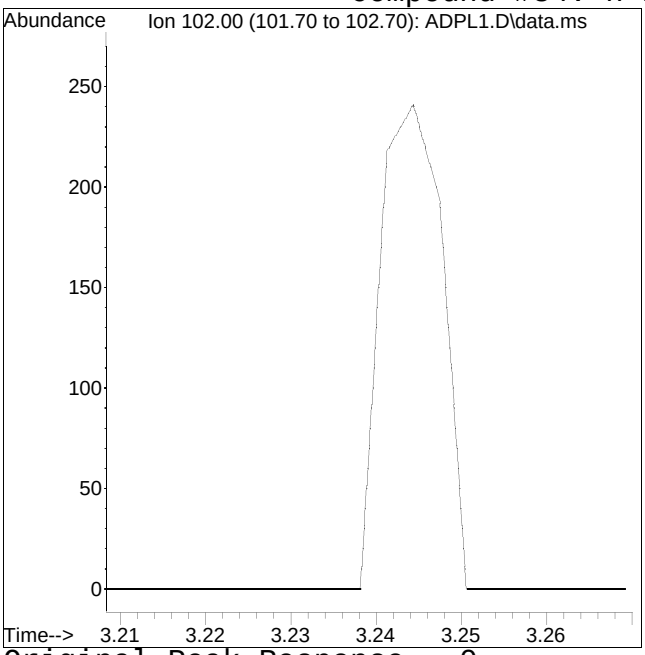
M2 = Peak not found by automatic integration algorithm.

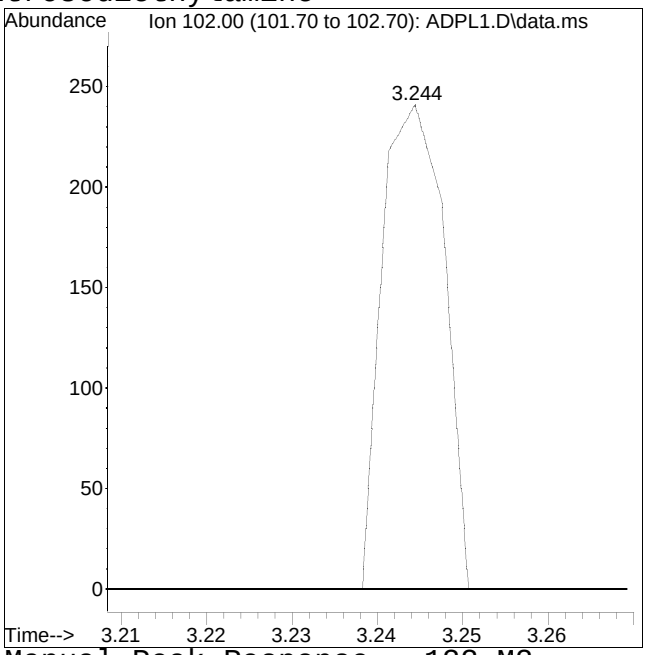
Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQ
Data File : ADPL1.D
Date Inj'd : 11/6/2024 4:17 am
Sample : IL10,32,,ADPL0.1 Lot# 1113

Method : FS241105RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 11/6/2024 8:36 am

Compound #34: n-Nitrosodiethylamine



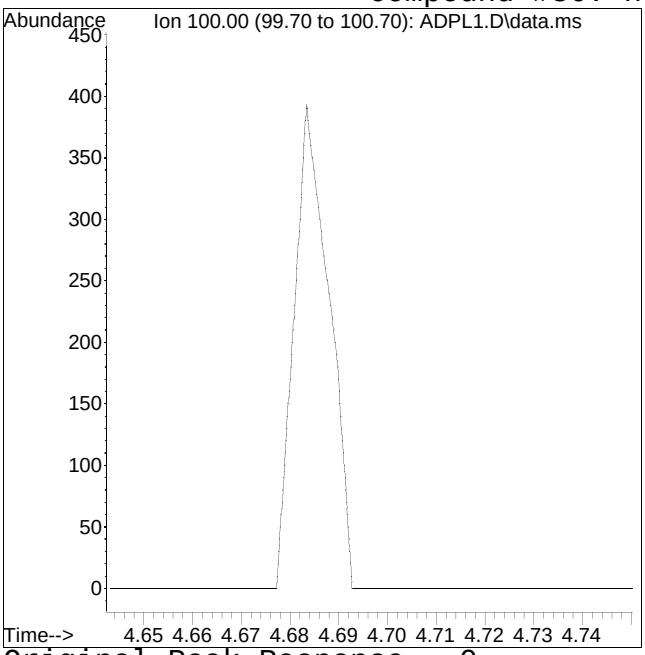


Original Peak Response = 0
Manual Peak Response = 122 M2
M2 = Peak not found by automatic integration algorithm.

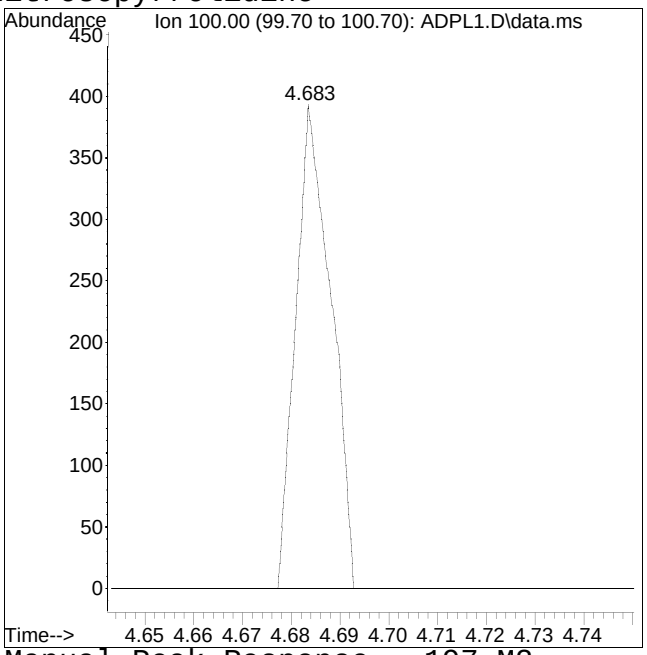
Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQ
Data File : ADPL1.D
Date Inj'd : 11/6/2024 4:17 am
Sample : IL10,32,,ADPL0.1 Lot# 1113
Method : FS241105RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 11/6/2024 8:36 am

Compound #36: n-Nitrosopyrrolidine



Original Peak Response = 0



Manual Peak Response = 197 M2

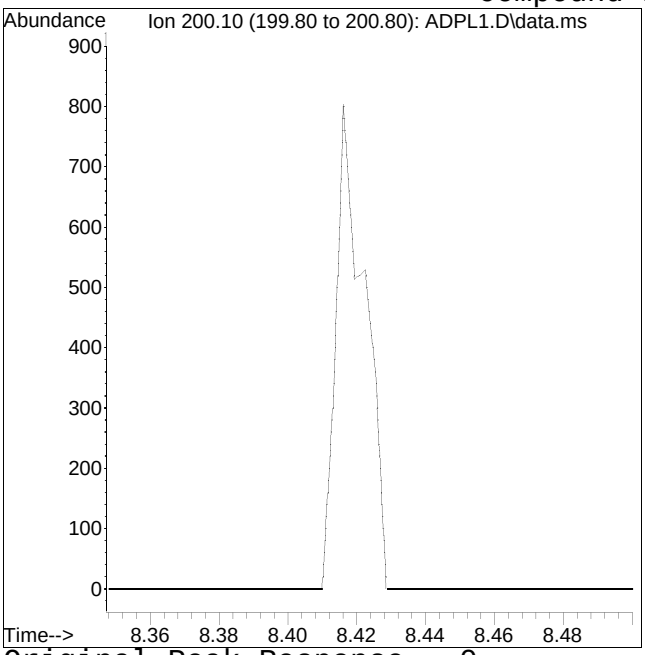
M2 = Peak not found by automatic integration algorithm.

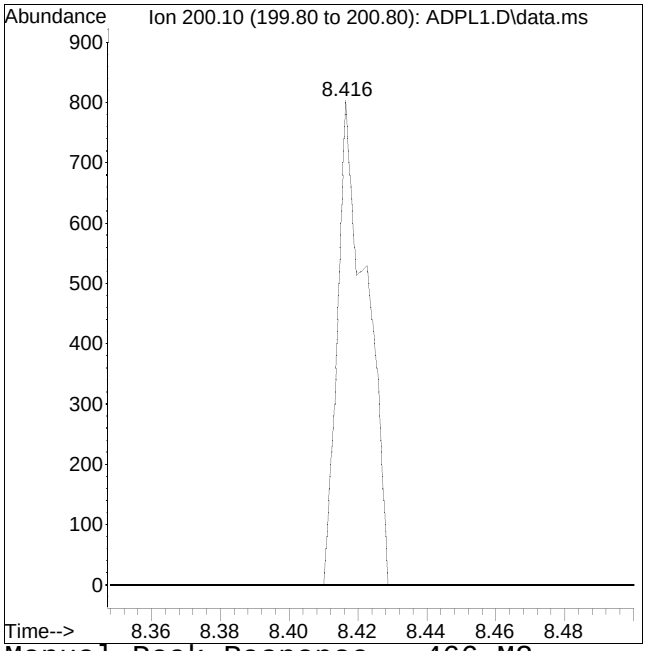
Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQ
Data File : ADPL1.D
Date Inj'd : 11/6/2024 4:17 am
Sample : IL10,32,,ADPL0.1 Lot# 1113

Method : FS241105RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 11/6/2024 8:36 am

Compound #89: Atrazine





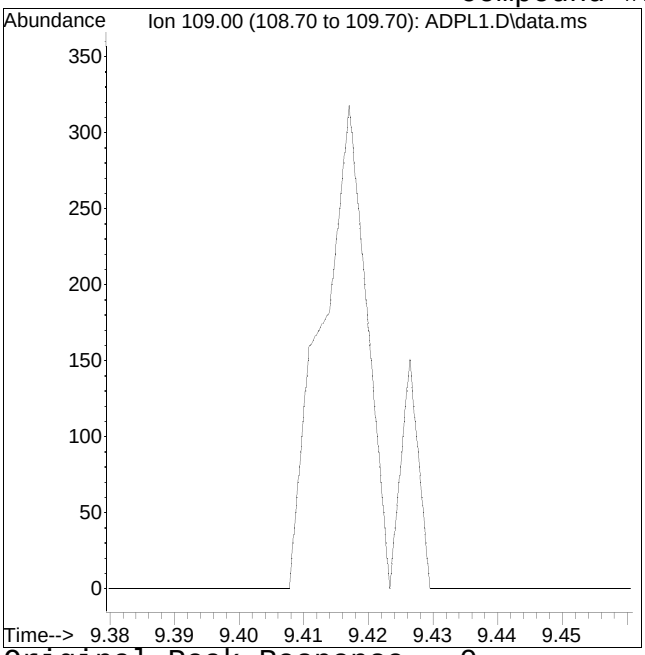
Original Peak Response = 0
Manual Peak Response = 466 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

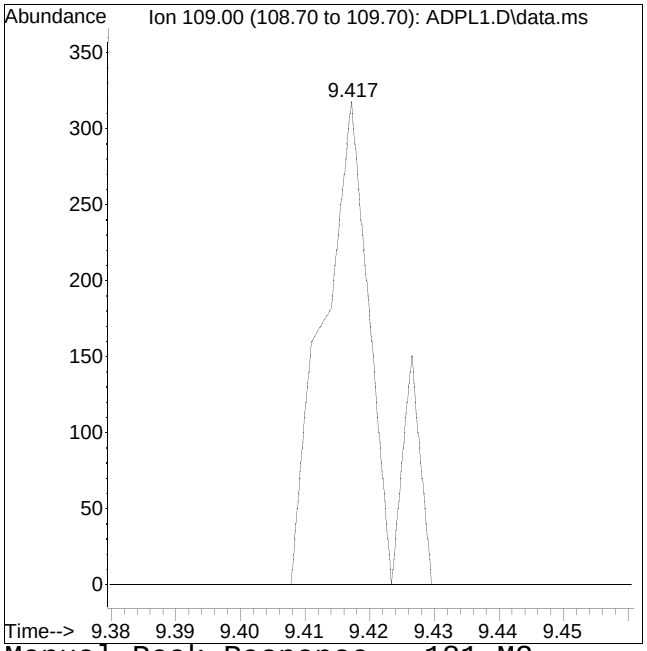
Data Path : I:\8270\Dakota\241105RVTICQ
Data File : ADPL1.D
Date Inj'd : 11/6/2024 4:17 am
Sample : IL10,32,,ADPL0.1 Lot# 1113

Method : FS241105RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 11/6/2024 8:36 am

Compound #104: Parathion



Original Peak Response = 0



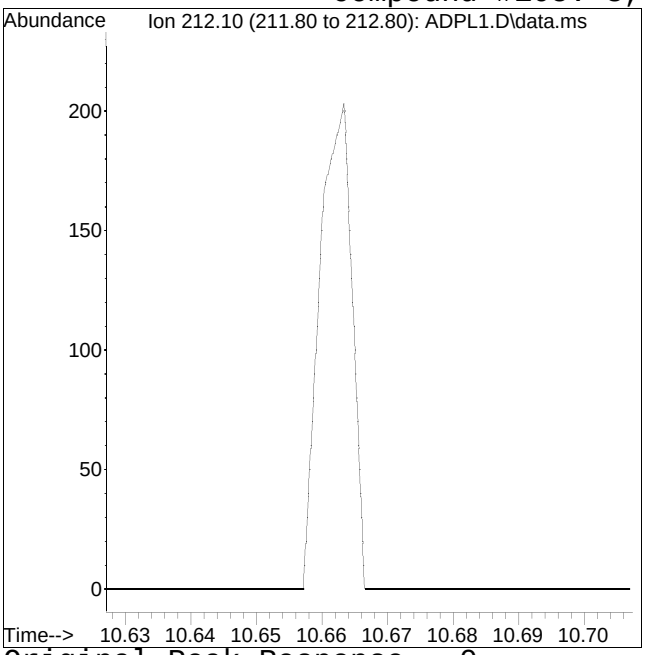
Manual Peak Response = 181 M2

M2 = Peak not found by automatic integration algorithm.

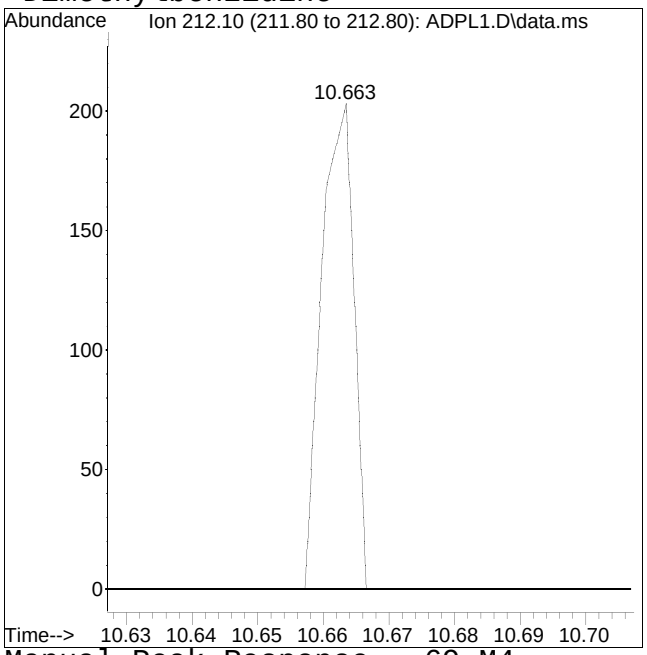
Manual Integration Report

Data Path : I:\8270\Dakota\241105RVTICQMethod : FS241105RVT_Dakota.m
Data File : ADPL1.D Operator : Dakota:HNY
Date Inj'd : 11/6/2024 4:17 am Instrument : Dakota
Sample : IL10,32,,ADPL0.1 Lot# 1113Quant Date : 11/6/2024 8:36 am

Compound #105: 3,3'-Dimethylbenzidine



Original Peak Response = 0



Manual Peak Response = 69 M4

M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ADPICV.D
Acq On : 6 Nov 2024 4:40 am
Operator : Dakota:HNY
Sample : CQICV,32,,ADPICV Lot# 11140
Misc : WG1994500
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Nov 11 15:34:09 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Nov 11 15:34:18 2024
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	103	0.00
33	T	1,4-Dioxane		0.381	0.408	-7.1	104	0.00
34	t	n-Nitrosodiethylamine		0.390	0.412	-5.6	105	0.00
35	T	n-Decane		1.048	1.132	-8.0	106	0.00
36	t	n-Nitrosopyrrolidine		0.458	0.502	-9.6	106	0.00
88	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	106	0.00
89	T	Atrazine		0.343	0.346	-0.9	107	0.00
102	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	106	0.00
103	T	n-Octadecane		0.334	0.358	-7.2	114	0.00
104	T	Parathion	*	5.000	4.893	2.1	116	0.00
105	T	3,3'-Dimethylbenzidine	*	5.000	4.511	9.8	106	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ADPICV.D
Acq On : 6 Nov 2024 4:40 am
Operator : Dakota:HNY
Sample : CQICV,32,,ADPICV Lot# 11140
Misc : WG1994500
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Nov 11 15:34:09 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Nov 11 15:34:18 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\241105RVTICAL\ADPL6.D
Sub List : ADPical_REV3 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.282	152	27725	4.000	ug/ml	0.00
Standard Area 1 = 27034			Recovery =	102.56%		
88) IS3_Acenaphthene-d10	7.210	164	64160	4.000	ug/ml	0.00
Standard Area 1 = 60553			Recovery =	105.96%		
102) IS3_Phenanthrene-d10	8.621	188	141409	4.000	ug/ml	0.00
Standard Area 1 = 133879			Recovery =	105.62%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.395	88	14130	5.352	ug/ml#	86
34) n-Nitrosodiethylamine	3.216	102	14269	5.275	ug/ml#	56
35) n-Decane	4.186	57	39218	5.397	ug/ml#	30
36) n-Nitrosopyrrolidine	4.665	100	17407	5.486	ug/ml#	70
89) Atrazine	8.422	200	27737	5.040	ug/ml	93
103) n-Octadecane	8.634	57	63318	5.367	ug/ml#	1
104) Parathion	9.420	109	14391	4.893	ug/ml	94
105) 3,3'-Dimethylbenzidine	10.660	212	115367	4.511	ug/ml	99

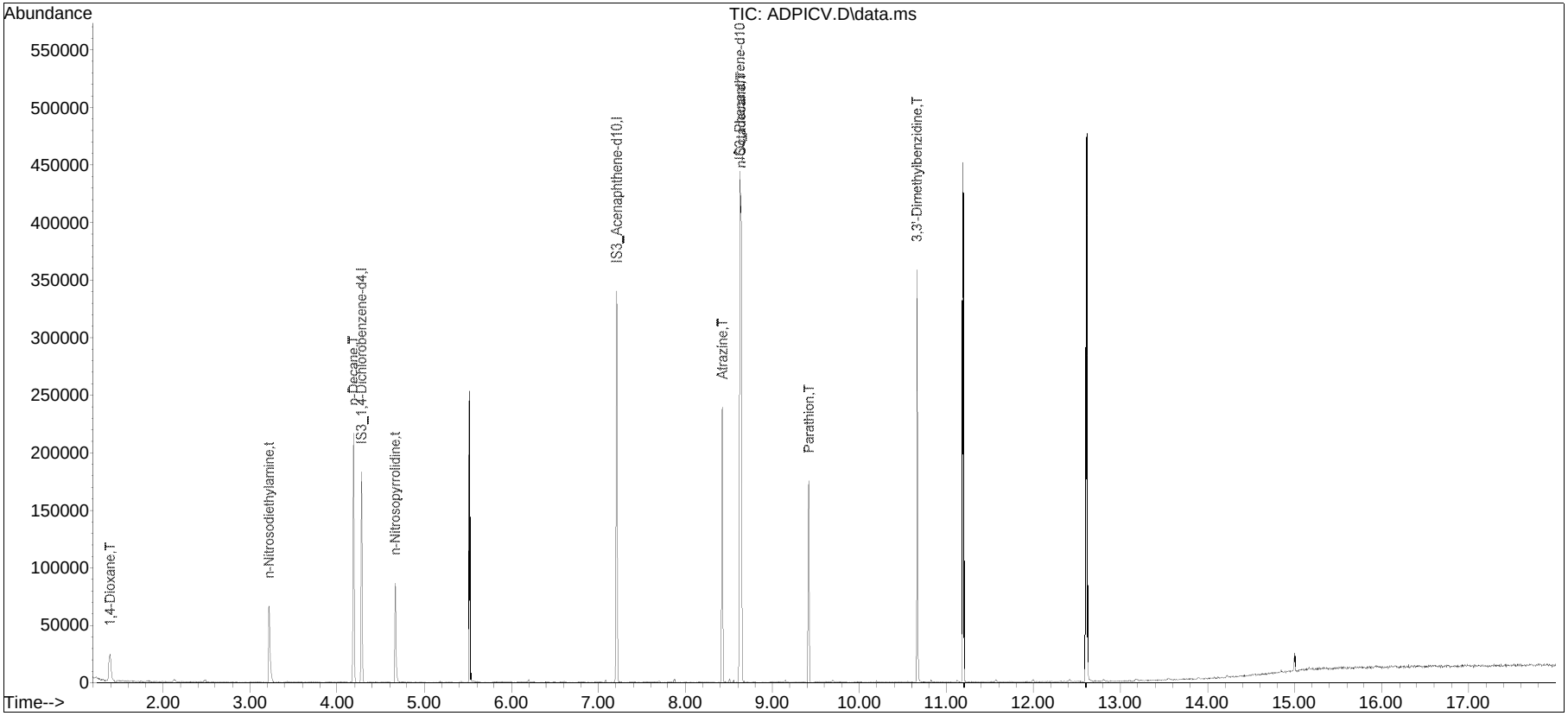
(#) = qualifier out of range (m) = manual integration (+) = signals summed

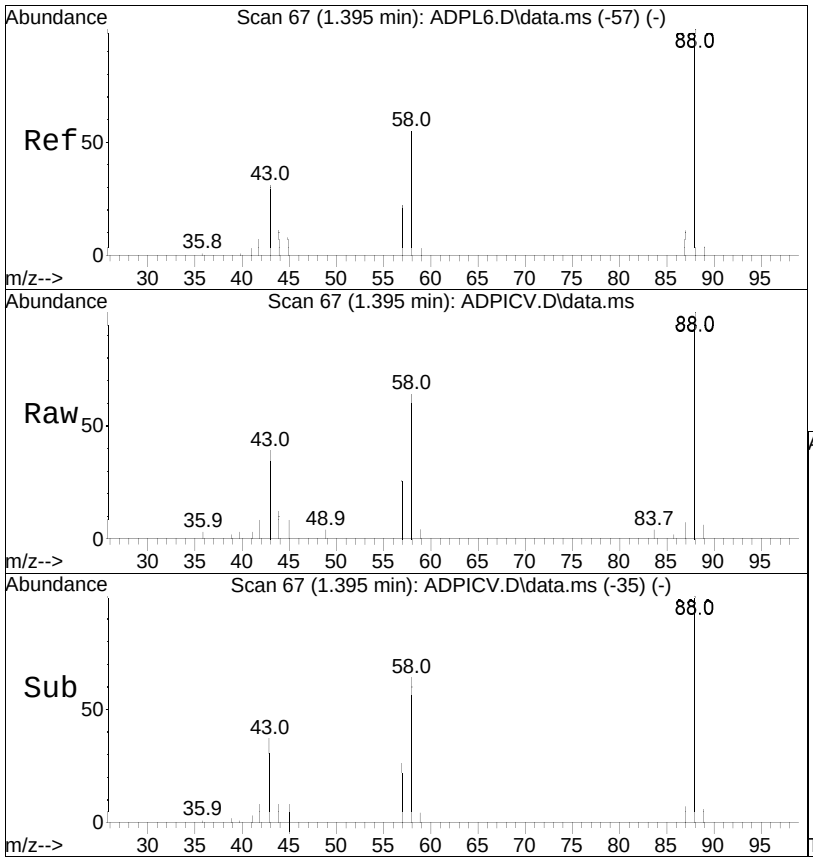
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\241105RVTICAL\
Data File : ADPICV.D
Acq On : 6 Nov 2024 4:40 am
Operator : Dakota:HNY
Sample : CQICV,32,,ADPICV Lot# 11140
Misc : WG1994500
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Nov 11 15:34:09 2024
Quant Method : I:\8270\Dakota\241105RVTICAL\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Nov 11 15:34:18 2024
Response via : Initial Calibration

Sub List : ADPical_REV3 - ADP sublistVTICAL\ADPL6.D•

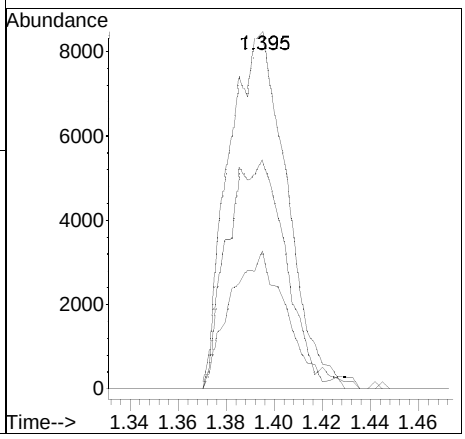


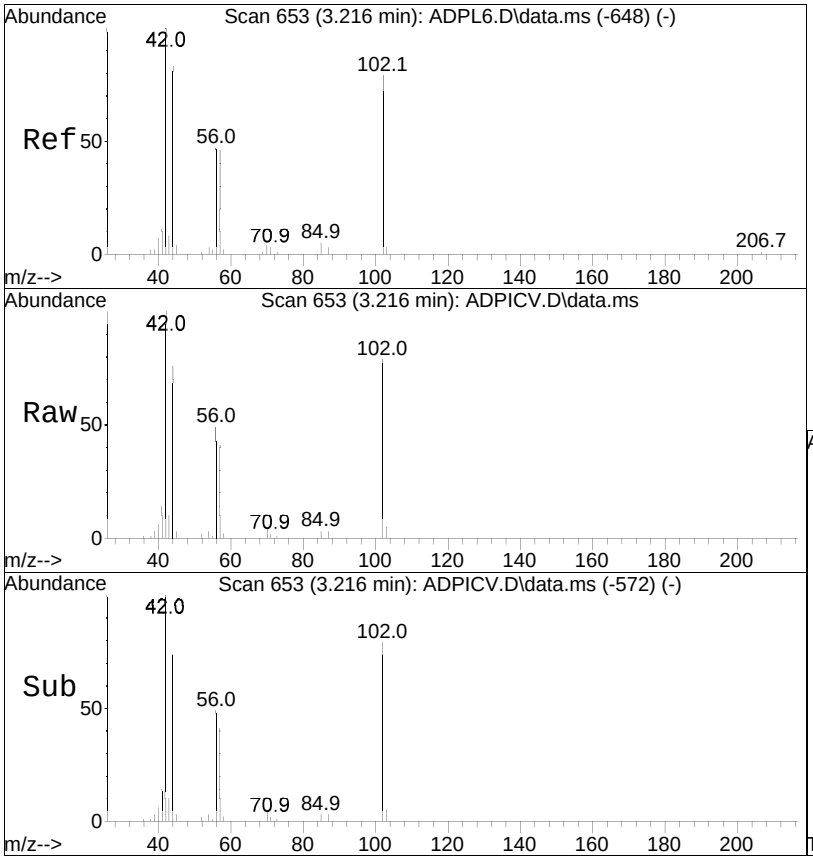


#33
1,4-Dioxane
Concen: 5.35 ug/ml
RT: 1.395 min Scan# 67
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 6 Nov 2024 4:40 am

Tgt Ion: 88 Resp: 14130

Ion	Ratio	Lower	Upper
88	100		
58	65.4	44.8	67.2
43	37.2	22.4	33.6#

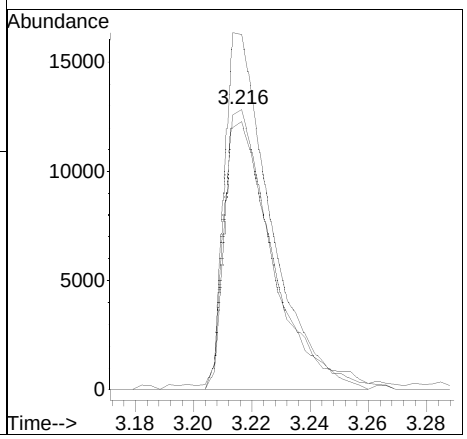


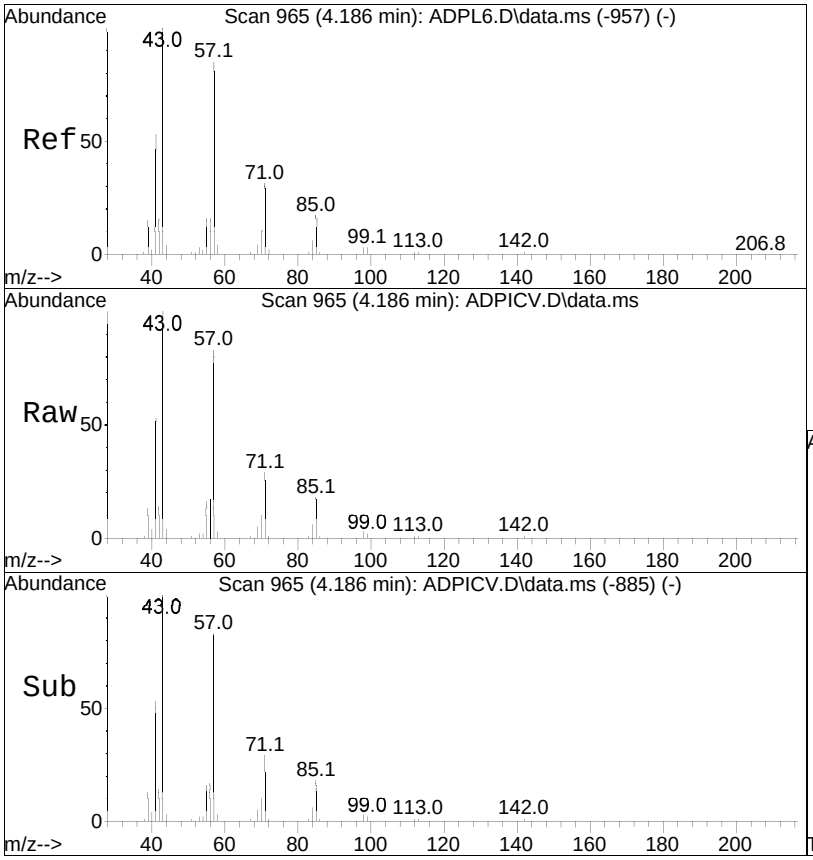


#34
n-Nitrosodiethylamine
Concen: 5.27 ug/ml
RT: 3.216 min Scan# 653
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 6 Nov 2024 4:40 am

Tgt Ion:102 Resp: 14269

Ion	Ratio	Lower	Upper
102	100		
42	127.1	67.6	101.4#
44	104.7	57.4	86.0#

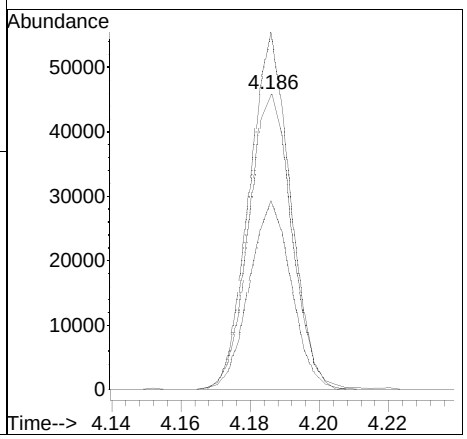


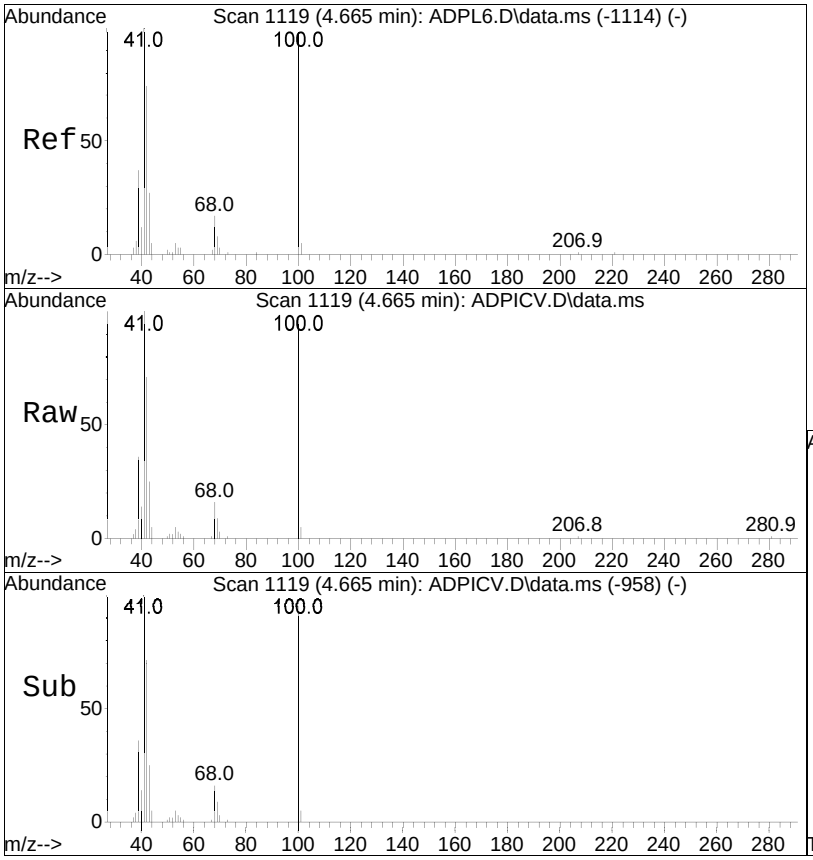


#35
n-Decane
Concen: 5.40 ug/ml
RT: 4.186 min Scan# 965
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 6 Nov 2024 4:40 am

Tgt Ion: 57 Resp: 39218

Ion	Ratio	Lower	Upper
57	100		
43	116.0	0.2	0.2#
41	62.8	0.2	0.2#

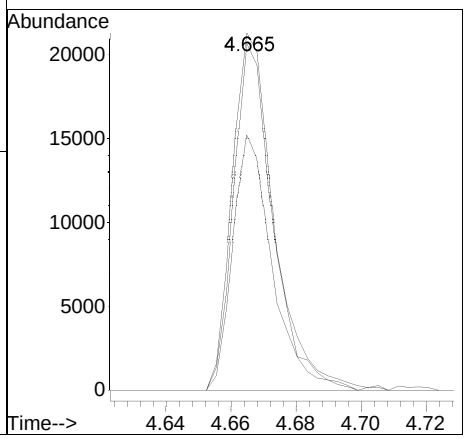


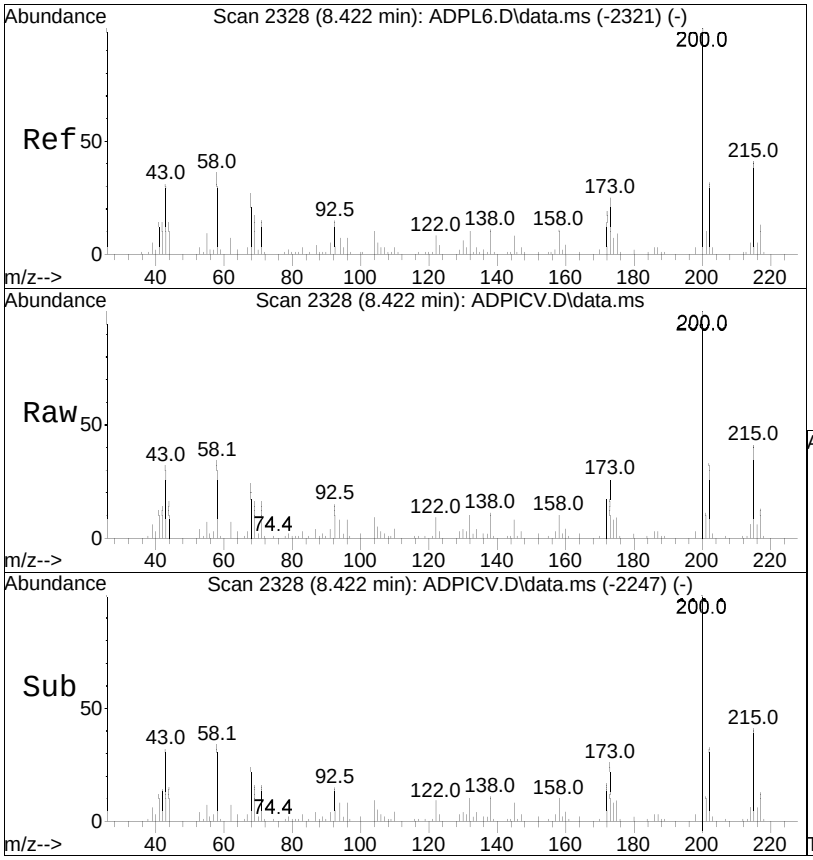


#36
n-Nitrosopyrrolidine
Concen: 5.49 ug/ml
RT: 4.665 min Scan# 1119
Delta R.T. -0.000 min
Lab File: ADPICV.D
Acq: 6 Nov 2024 4:40 am

Tgt Ion:100 Resp: 17407

Ion	Ratio	Lower	Upper
100	100		
41	110.0	63.0	94.4#
42	74.0	46.6	70.0#

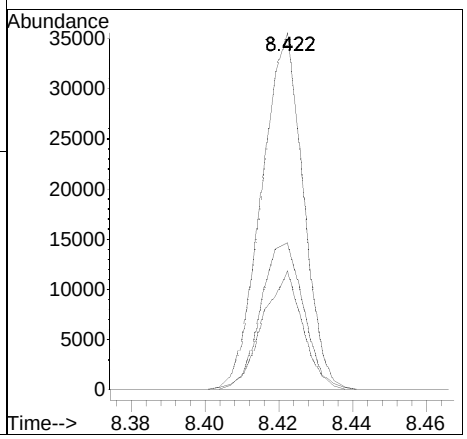


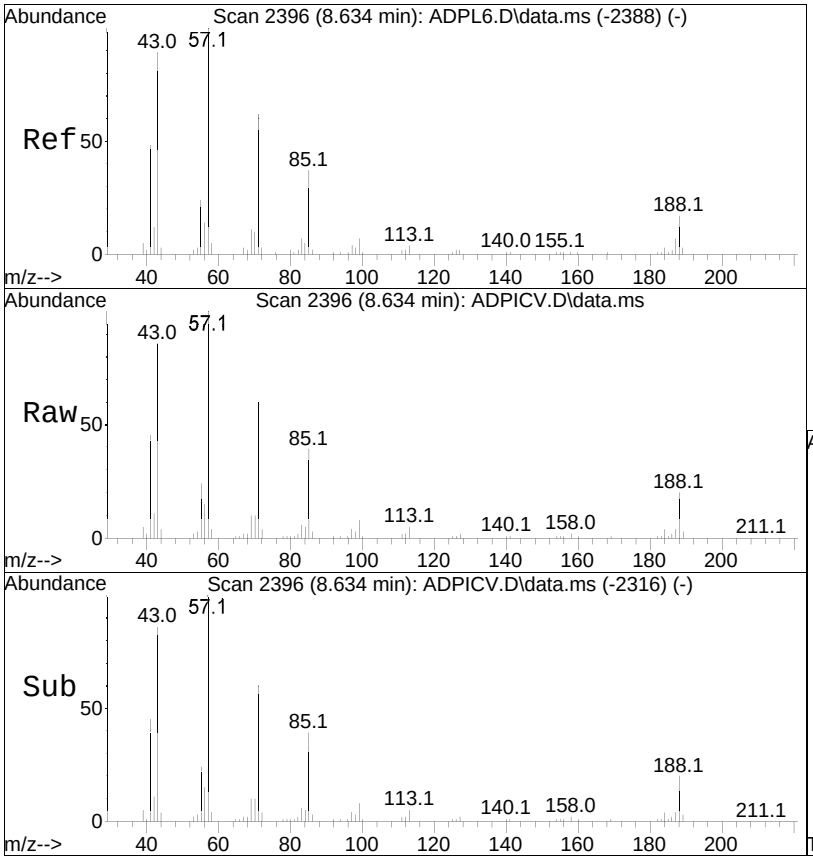


#89
Atrazine
Concen: 5.04 ug/ml
RT: 8.422 min Scan# 2328
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 6 Nov 2024 4:40 am

Tgt Ion:200 Resp: 27737

Ion	Ratio	Lower	Upper
200	100		
202	32.0	25.8	38.6
215	42.1	40.2	60.4

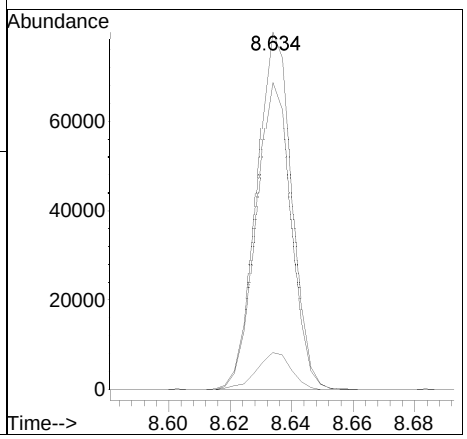


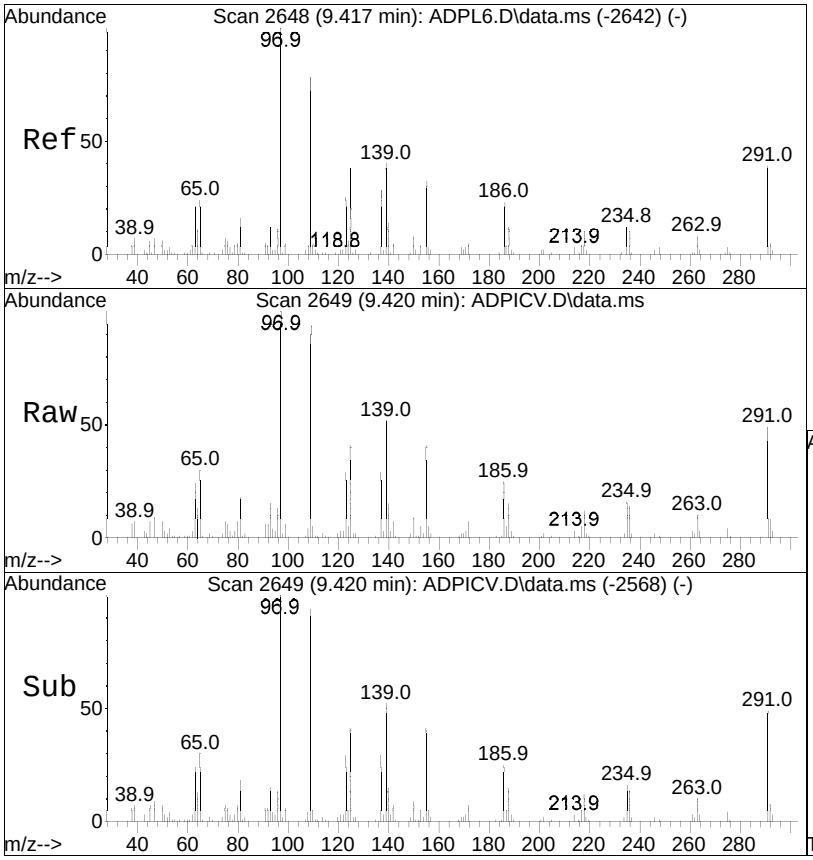


#103
n-Octadecane
Concen: 5.37 ug/ml
RT: 8.634 min Scan# 2396
Delta R.T. -0.000 min
Lab File: ADPICV.D
Acq: 6 Nov 2024 4:40 am

Tgt Ion: 57 Resp: 63318

Ion	Ratio	Lower	Upper
57	100		
43	85.6	9.0	13.6#
70	10.2	0.2	0.2#

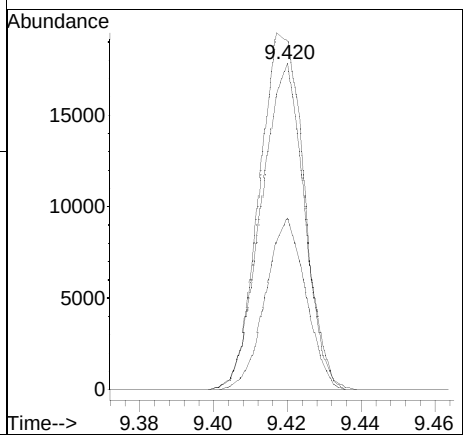


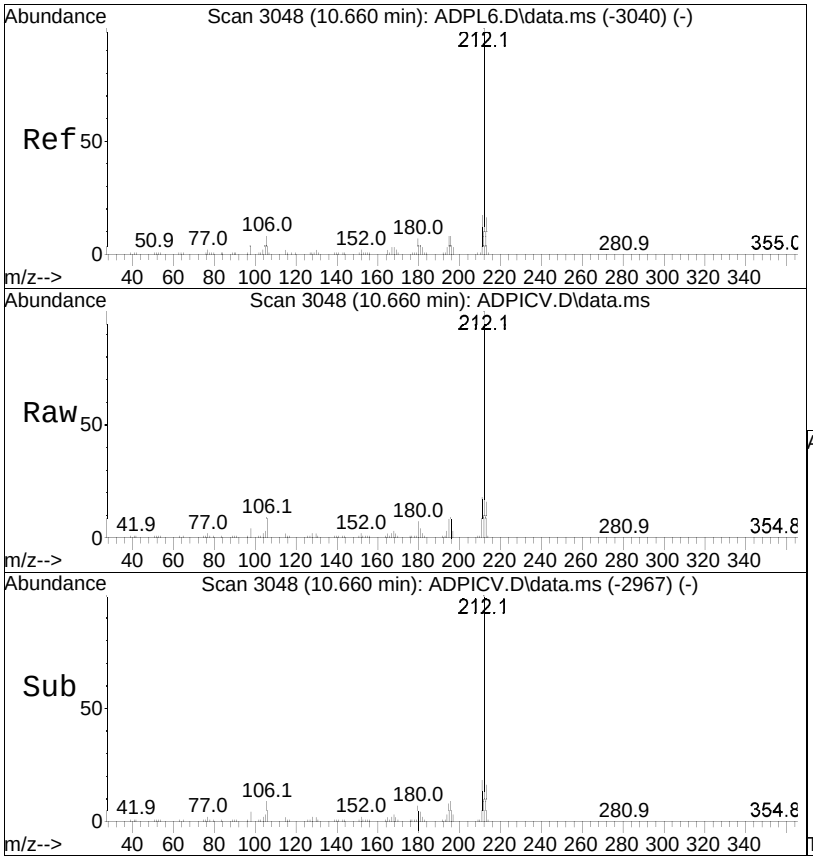


#104
Parathion
Concen: 4.89 ug/ml
RT: 9.420 min Scan# 2649
Delta R.T. 0.003 min
Lab File: ADPICV.D
Acq: 6 Nov 2024 4:40 am

Tgt Ion:109 Resp: 14391

Ion	Ratio	Lower	Upper
109	100		
97	113.2	87.4	131.2
291	49.4	34.2	51.2

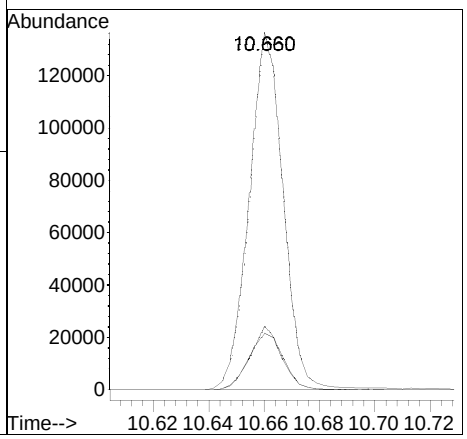




#105
3,3'-Dimethylbenzidine
Concen: 4.51 ug/ml
RT: 10.660 min Scan# 3048
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 6 Nov 2024 4:40 am

Tgt Ion:212 Resp: 115367

Ion	Ratio	Lower	Upper
212	100		
211	16.9	12.9	19.3
213	16.1	13.2	19.8



Manual Integration Report

Data Path	: I:\8270\Dakota\241105RVTICQ	Method	: FS241105RVT_Dakota.m
Data File	: ADPICV.D	Operator	: Dakota:HNY
Date Inj'd	: 11/6/2024 4:40 am	Instrument	: Dakota
Sample	: CQICV,32,,ADPICV Lot# 1114	Quant Date	: 11/11/2024 3:35 pm

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

Evaluate Relative Error Report Dakota

Method Path : I:\8270\Dakota\241105RVTICAL\
Method File : FS241105RVT_Dakota.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Nov 11 15:34:18 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
68	T 2,4-Dinitrophenol	L	ug/ml	5.0	4.560	-8.8	1.00	1.235	23.5
104	T Parathion	Q	ug/ml	5.0	4.487	-10.3	0.50	0.639	27.8
105	T 3,3'-Dimethylbenzidine	L	ug/ml	5.0	4.491	-10.2	1.00	1.229	22.9

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
68	T 2,4-Dinitrophenol	Linear	0.995883	0.000000	0.219967	-0.0353966
104	T Parathion	Quadratic	0.997840	0.002726	0.0829685	-0.00379272
105	T 3,3'-Dimethylbenzidine	Linear	0.997212	0.000000	0.864599	-0.15929

Response Factor Report SV 106

Method Path : I:\8270\SV106\250311RVTical\
Method File : FS250311SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Mar 12 12:21:00 2025
Response Via : Initial Calibration

Calibration Files
L1 =ABNL1.D L2 =ABNL2.D L3 =ABNL3.D L4 =ABNL4.D L5 =ABNL5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	----------ISTD----------										
2)	t	N-Nitrosodimethylamine	0.783	0.639	0.806	0.721	0.661	0.702	0.699	0.722	0.729	0.718	7.31
3)	t	Pyridine	1.339	1.093	1.529	1.236	1.201	1.149	1.191	1.244	1.273	1.251	10.09
4)	S	2-Fluorophenol	1.224	1.069	1.213	1.104	1.001	1.105	1.120	1.164	1.155	1.128	6.20
5)	T	Aniline	1.435	1.473	1.919	1.836	1.609	1.811	1.825	1.885	1.851	1.738	10.53
6)	t	2-Chlorophenol	1.198	1.133	1.316	1.271	1.151	1.200	1.235	1.253	1.205	1.218	4.74
7)	S	Phenol-d6	1.413	1.195	1.418	1.380	1.214	1.307	1.307	1.353	1.318	1.323	5.98
8)	T	Phenol	1.689	1.351	1.550	1.470	1.327	1.425	1.435	1.468	1.418	1.459	7.41
9)	T	bis(2-Chloroethyl)ether	1.263	1.082	1.308	1.252	1.050	1.135	1.126	1.130	1.088	1.159	7.91
10)	T	1,3-Dichlorobenzene	1.816	1.456	1.735	1.588	1.418	1.466	1.458	1.484	1.441	1.540	9.30
11)	T	1,4-Dichlorobenzene	1.775	1.571	1.744	1.599	1.419	1.539	1.507	1.527	1.489	1.574	7.42
12)	T	1,2-Dichlorobenzene	1.478	1.599	1.747	1.530	1.349	1.422	1.422	1.444	1.423	1.490	8.06
13)	t	Benzyl alcohol	0.936	0.785	0.924	0.877	0.840	0.905	0.944	0.994	0.988	0.910	7.45
14)	T	bis(2-chloroisopropyl)ether	3.091	2.730	3.138	2.726	2.446	2.605	2.535	2.564	2.500	2.704	9.30
15)	T	2-Methylphenol	1.421	1.210	1.452	1.326	1.213	1.227	1.184	1.291	1.220	1.283	7.62
16)	T	Hexachloroethane	0.595	0.543	0.555	0.568	0.502	0.539	0.536	0.544	0.533	0.546	4.72
17)	T	n-Nitrosodi-n-propylamine	0.885	0.765	0.920	0.849	0.776	0.846	0.856	0.902	0.894	0.855	6.33
18)	T	3-Methylphenol/4-Methylphenol	1.159	1.015	1.134	1.151	1.009	1.108	1.115	1.159	1.141	1.110	5.28
19)	S	Nitrobenzene-d5	1.074	0.972	1.124	1.108	0.964	1.102	1.139	1.210	1.168	1.096	7.53
20)	T	Nitrobenzene	1.087	1.017	1.105	1.088	1.032	1.137	1.184	1.229	1.185	1.118	6.41
21)	T	Isophorone	2.346	2.038	2.466	2.303	2.103	2.283	2.326	2.409	2.386	2.296	6.10
22)	T	2-Nitrophenol	0.450	0.400	0.518	0.481	0.457	0.512	0.554	0.609	0.599	0.509	13.74
23)	T	2,4-Dimethylphenol	1.252	1.058	1.221	1.170	1.096	1.227	1.222	1.278	1.261	1.198	6.32
24)	T	bis(2-Chloroethoxy)methane	2.026	1.644	1.872	1.648	1.492	1.468	1.436	1.469	1.695	1.639	12.36
25)	T	2,4-Dichlorophenol	1.091	1.055	1.129	1.154	1.018	1.156	1.169	1.237	1.226	1.137	6.43
26)	T	1,2,4-Trichlorobenzene	1.699	1.523	1.585	1.484	1.275	1.382	1.375	1.414	1.380	1.457	8.86
27)	I	IS2_1,4-Dichlorobenzene-d4	----------ISTD----------										
28)	T	Benzaldehyde	0.817	0.939	1.065	0.956	0.864	0.943	0.930	1.089	0.980	0.954	9.01
29)	T	Acetophenone	1.654	1.322	1.819	1.638	1.502	1.665	1.613	1.890	1.708	1.646	10.09
30)	T	m-Toluidine			1.266	1.297	1.394	1.557	1.561	1.856	1.668	1.514	13.95
31)	T	2-Chloroaniline	1.346	1.252	1.654	1.465	1.369	1.470	1.496	1.744	1.531	1.481	10.28
32)	I	IS3_1,4-Dichlorobenzene-d4	----------ISTD----------										
33)	t	1,4-Dioxane	0.690	0.570	0.697	0.523	0.467	0.467	0.470	0.547	0.500	0.548	16.44
34)	T	n-Decane	1.845	1.532	1.881	1.764	1.460	1.569	1.627	1.900	1.719	1.700	9.45
35)	I	IS1_Naphthalene-d8	----------ISTD----------										
36)	T	Naphthalene	1.239	1.058	1.194	1.095	0.950	1.020	1.014	1.024	1.003	1.066	8.86
37)	T	Benzoic Acid			0.144	0.142	0.139	0.100	0.171	0.226		*Q	0.9979
38)	T	4-Chloroaniline	0.134	0.133	0.135	0.133	0.119	0.133	0.132	0.135	0.131	0.132	3.68
39)	T	Hexachlorobutadiene	0.287	0.237	0.267	0.244	0.218	0.239	0.235	0.237	0.231	0.244	8.47
40)	T	p-Chloro-m-cresol	0.353	0.335	0.347	0.316	0.278	0.310	0.312	0.328	0.345	0.325	7.23
41)	T	2-Methylnaphthalene	0.708	0.611	0.709	0.643	0.571	0.625	0.619	0.635	0.618	0.638	7.02
42)	T	1-Methylnaphthalene	0.281	0.262	0.282	0.238	0.215	0.233	0.230	0.233	0.228	0.245	9.96
43)	T	Hexachlorocyclopentadiene	0.334	0.276	0.315	0.289	0.262	0.298	0.301	0.314	0.310	0.300	7.33
44)	T	2,4,6-Trichlorophenol	0.279	0.224	0.250	0.236	0.219	0.252	0.258	0.271	0.272	0.251	8.55
45)	T	2,4,5-Trichlorophenol	0.258	0.214	0.233	0.235	0.236	0.263	0.273	0.289	0.293	0.255	10.66

Response Factor Report SV 106

Method Path : I:\8270\SV106\250311RVTical\
Method File : FS250311SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Mar 12 12:21:00 2025
Response Via : Initial Calibration

Calibration Files
L1 =ABNL1.D L2 =ABNL2.D L3 =ABNL3.D L4 =ABNL4.D L5 =ABNL5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
46)	S	2-Fluorobiphenyl	1.075	0.922	1.017	0.923	0.824	0.893	0.877	0.899	0.879	0.923	8.35
47)	T	2-Chloronaphthalene	0.915	0.720	0.839	0.749	0.679	0.734	0.718	0.733	0.721	0.756	9.69
48)	T	2-Nitroaniline	0.133	0.138	0.149	0.146	0.144	0.174	0.188	0.211	0.213	0.166	18.82
49)	T	1,4-Dinitrobenzene		0.014	0.011	0.014	0.012	0.015	0.025	0.053	0.099	*Q	1.0000
50)	T	1,3-Dinitrobenzene					0.077	0.100	0.106	0.121	0.117	0.104	16.96
51)	T	Dimethyl phthalate	1.084	0.893	0.956	0.901	0.832	0.903	0.861	0.891	0.856	0.908	8.22
52)	T	Acenaphthylene	1.387	1.177	1.273	1.160	1.078	1.174	1.171	1.199	1.193	1.201	7.14
53)	T	2,6-Dinitrotoluene	0.112	0.110	0.141	0.144	0.137	0.177	0.175	0.177	0.185	0.151	19.16
54)	T	1,2-Dinitrobenzene		0.046	0.052	0.052	0.060	0.070	0.077	0.075	0.074	0.063	19.21
55)	I	IS2_Naphthalene-d8	----------ISTD----------										
56)	T	a-Terpineol	0.284	0.221	0.279	0.261	0.252	0.272	0.276	0.325	0.305	0.275	10.91
57)	T	3-Chloroaniline	0.123	0.115	0.152	0.150	0.129	0.140	0.141	0.160	0.145	0.139	10.56
58)	T	2,6-Dichlorophenol	0.283	0.236	0.265	0.258	0.236	0.264	0.274	0.319	0.295	0.270	9.87
59)	T	1-chloro-2-nitrobenzene	0.095	0.092	0.108	0.102	0.099	0.104	0.112	0.133	0.126	0.108	12.82
60)	T	Caprolactam	0.196	0.156	0.149	0.147	0.136	0.148	0.166	0.200	0.184	0.165	14.22
61)	T	1,2,4,5-Tetrachlorobenzene	0.460	0.358	0.442	0.409	0.368	0.381	0.381	0.427	0.388	0.401	8.71
62)	T	Biphenyl	1.000	0.843	0.967	0.890	0.807	0.844	0.829	0.939	0.848	0.885	7.69
63)	I	IS1_Acenaphthene-d10	----------ISTD----------										
64)	T	3-Nitroaniline	0.247	0.185	0.207	0.227	0.217	0.266	0.293	0.314	0.315	0.252	18.81
65)	T	Acenaphthene	1.498	1.192	1.163	1.100	0.919	1.022	0.989	1.000	1.032	1.101	15.61
66)	T	2,4-Dinitrophenol	0.046	0.075	0.095	0.099	0.095	0.117	0.131	0.164	0.167	*Q	0.9956
67)	T	Dibenzofuran	2.170	1.878	2.090	1.916	1.548	1.689	1.667	2.098	2.168	1.914	12.29
68)	T	2,4-Dinitrotoluene	0.235	0.253	0.260	0.286	0.272	0.331	0.353	0.446	0.491	*Q	0.9979
69)	T	4-Nitrophenol	0.180	0.133	0.178	0.179	0.160	0.198	0.216	0.236	0.253	0.192	19.52
70)	T	2,3,5,6-Tetrachlorophenol	0.352	0.283	0.362	0.334	0.303	0.354	0.501	0.397	0.401	0.365	17.53
71)	T	2,3,4,6-Tetrachlorophenol	0.341	0.270	0.342	0.334	0.302	0.349	0.363	0.399	0.396	0.344	11.94
72)	T	Diethyl phthalate	1.402	1.330	1.450	1.366	1.180	1.342	1.308	1.422	1.431	1.359	6.11
73)	T	Fluorene	1.612	1.458	1.505	1.421	1.191	1.352	1.350	1.395	1.407	1.410	8.22
74)	T	4-Chlorophenyl-phenylether	0.907	0.776	0.824	0.747	0.620	0.687	0.681	0.703	0.694	0.738	11.78
75)	T	4-Nitroaniline	0.216	0.187	0.227	0.238	0.213	0.260	0.264	0.300	0.304	0.246	16.23
76)	T	4,6-Dinitro-o-cresol			0.141	0.133	0.135	0.176	0.191	0.226	0.235	*L	0.9929
77)	T	NDPA/DPA	1.326	1.129	1.255	1.192	1.056	1.133	1.131	1.176	1.182	1.176	6.70
78)	T	Azobenzene	1.195	1.034	1.201	1.149	0.990	1.110	1.122	1.143	1.147	1.121	6.20
79)	S	2,4,6-Tribromophenol	0.187	0.164	0.208	0.202	0.180	0.214	0.218	0.240	0.238	0.206	12.38
80)	T	4-Bromophenyl-phenylether	0.558	0.465	0.502	0.462	0.388	0.440	0.433	0.457	0.463	0.463	10.17
81)	T	Hexachlorobenzene	0.590	0.600	0.659	0.542	0.450	0.501	0.500	0.525	0.520	0.543	11.65
82)	T	Pentachlorophenol			0.246	0.237	0.227	0.278	0.300	0.336	0.352	0.282	17.41
83)	I	IS2_Acenaphthene-d10	----------ISTD----------										
84)	T	Dichloran					0.086	0.107	0.121	0.165	0.167	*L	0.9986
85)	T	Pentachloronitrobenzene			0.134	0.111	0.119	0.132	0.147	0.185	0.180	0.144	19.92
86)	I	IS3_Acenaphthene-d10	----------ISTD----------										
87)	T	Atrazine	0.371	0.301	0.330	0.306	0.305	0.335	0.385	0.516	0.440	0.366	19.90
88)	I	IS1_Phenanthrene-d10	----------ISTD----------										
89)	T	Phenanthrene	1.467	1.201	1.229	1.130	0.984	1.066	1.050	1.070	1.022	1.135	13.04
90)	T	Anthracene	1.273	1.128	1.218	1.083	0.972	1.086	1.067	1.091	1.049	1.107	8.13

Response Factor Report SV 106

Method Path : I:\8270\SV106\250311RVTical\
Method File : FS250311SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Mar 12 12:21:00 2025
Response Via : Initial Calibration

Calibration Files
L1 =ABNL1.D L2 =ABNL2.D L3 =ABNL3.D L4 =ABNL4.D L5 =ABNL5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

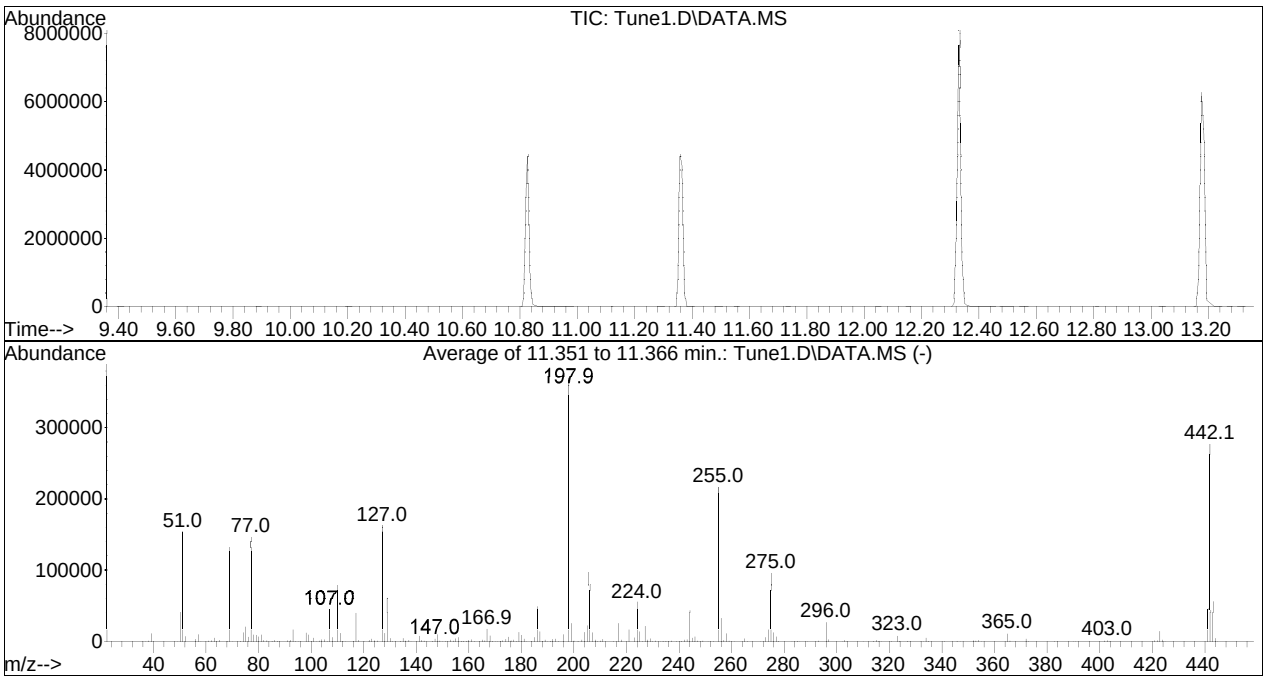
		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD	
91)	T	Carbazole	1.007	0.946	1.055	0.993	0.902	0.996	0.987	1.014	1.000	0.989	4.36	
92)	T	Di-n-butylphthalate	1.042	0.879	1.042	0.976	0.931	1.115	1.147	1.464	1.453	1.116	18.90	
93)	T	Fluoranthene	1.518	1.269	1.388	1.260	1.152	1.255	1.257	1.322	1.257	1.298	8.00	
94)	T	Benzidine			0.517	0.579	0.617	0.739	0.782	0.857	0.834	0.704	18.85	
95)	T	Pyrene	1.623	1.313	1.486	1.366	1.236	1.328	1.280	1.330	1.268	1.359	9.00	
96)	S	4-Terphenyl-d14	1.198	1.044	1.129	1.026	0.928	1.001	0.974	1.018	1.020	1.038	7.80	
97)	T	Butyl benzyl phthalate			0.360	0.335	0.347	0.440	0.470	0.554	0.567		*L	0.9941
98)	I	IS2_Phenanthrene-d10	----------ISTD----------											
99)	T	Diphenamid	0.384	0.336	0.383	0.352	0.358	0.426	0.442	0.538	0.495	0.413	16.71	
100)	I	IS3_Phenanthrene-d10	----------ISTD----------											
101)	T	n-Octadecane	0.465	0.378	0.436	0.423	0.377	0.441	0.479	0.604	0.519	0.458	15.53	
102)	T	Parathion			0.066	0.057	0.051	0.057	0.068	0.107			*Q	1.0000
103)	T	3,3'-Dimethylbenzidine					0.486	0.597	0.764	1.061	0.970		*L	0.9945
104)	I	IS1_Chrysene-d12	----------ISTD----------											
105)	T	Benzo[a]anthracene	1.484	1.248	1.356	1.216	1.113	1.221	1.268	1.313	1.283	1.278	8.06	
106)	T	3,3'-Dichlorobenzidine	0.366	0.327	0.409	0.409	0.404	0.457	0.478	0.512	0.498	0.429	14.44	
107)	T	Chrysene	1.563	1.341	1.467	1.269	1.114	1.190	1.140	1.179	1.140	1.267	12.56	
108)	T	bis(2-Ethylhexyl)phthalate		0.435	0.532	0.503	0.541	0.652	0.677	0.758	0.770		*L	0.9961
109)	T	Di-n-octylphthalate			0.787	0.753	0.799	1.040	1.119	1.350	1.382		*L	0.9931
110)	T	Benzo(b)fluoranthene	1.371	1.201	1.334	1.447	1.256	1.333	1.253	1.339	1.293	1.314	5.55	
111)	T	Benzo(k)fluoranthene	1.449	1.230	1.429	1.106	1.048	1.187	1.224	1.191	1.137	1.222	11.12	
112)	T	Benzo(a)pyrene	1.200	1.065	1.216	1.142	1.065	1.177	1.159	1.206	1.180	1.157	4.92	
113)	I	IS1_Perylene-d12	----------ISTD----------											
114)	T	Indeno(1,2,3-cd)pyrene	1.094	0.997	1.068	1.000	0.977	1.136	1.132	1.161	1.045	1.068	6.34	
115)	T	Dibenzo[a,h]anthracene	1.140	0.961	1.119	1.074	0.959	1.097	1.114	1.091	1.009	1.063	6.47	
116)	T	Benzo(g,h,i)perylene	1.131	1.077	1.115	1.076	0.929	1.064	1.072	1.061	0.902	1.047	7.50	

(#) = Out of Range

Data Path : I:\8270\SV106\250311RVTical\
Data File : Tune1.D
Acq On : 11 Mar 2025 4:27 pm
Operator : SV106:ljg
Sample : Tune1 Lot# 11459
Misc : WG2039658,,ical
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Mar 12 12:21:00 2025



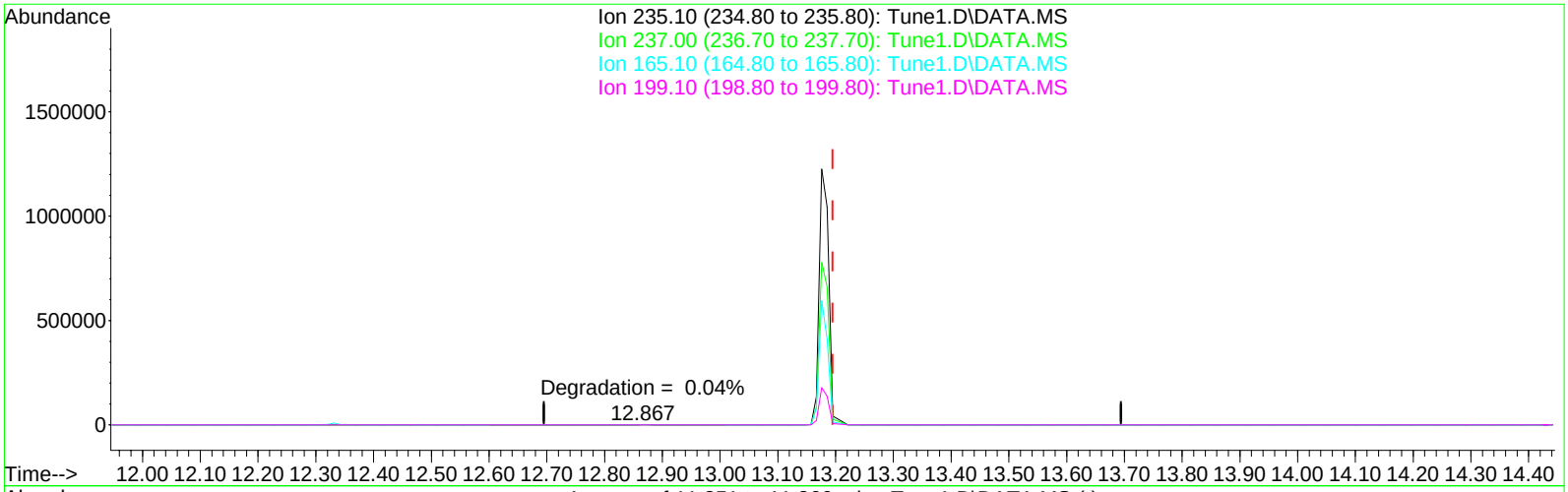
Spectrum Information: Average of 11.351 to 11.366 min.

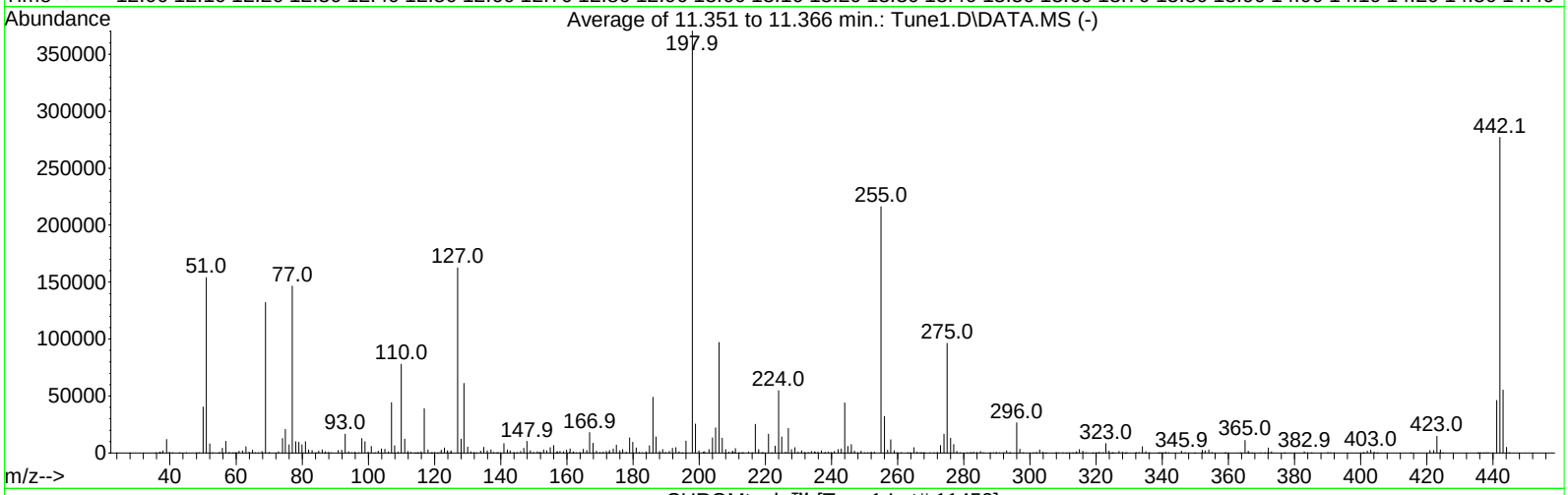
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	41.5	153869	PASS
68	69	0.00	2	1.1	1405	PASS
69	69	100	100	100.0	132147	PASS
70	69	0.00	2	0.5	601	PASS
127	198	10	80	43.9	162464	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	370389	PASS
199	198	5	9	6.9	25422	PASS
275	198	10	60	25.9	96095	PASS
365	198	1	100	3.0	11191	PASS
441	442	0.01	24	16.7	46163	PASS
442	198	50	100	74.8	277043	PASS
443	442	15	24	20.0	55370	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\250311RVTical\
Data File : Tune1.D
Acq On : 11 Mar 2025 4:27 pm
Operator : SV106:ljg
Sample : Tune1 Lot# 11459
Misc : WG2039658,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Mar 11 16:46:29 2025
Quant Method : I:\8270\SV106\250311RVTical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 06 00:46:17 2025
Response via : Initial Calibration





CHROMtools™ [Tune1 Lot# 11459]

(6) DDT (T)

13.176min (-0.019) 251.38

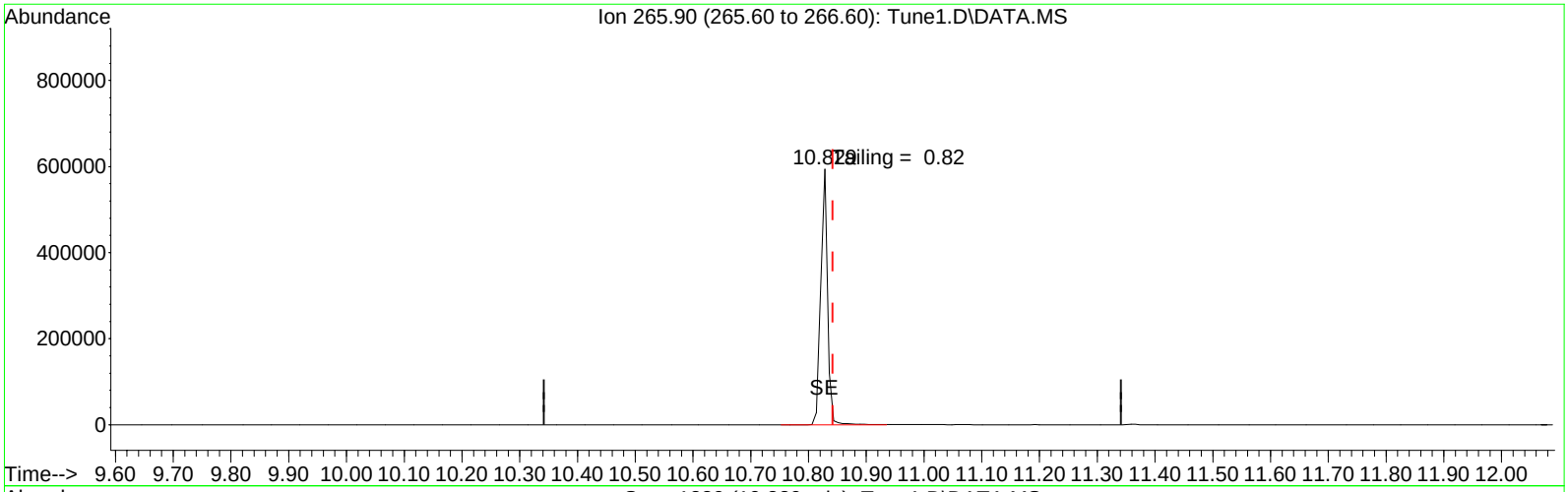
response 1532361

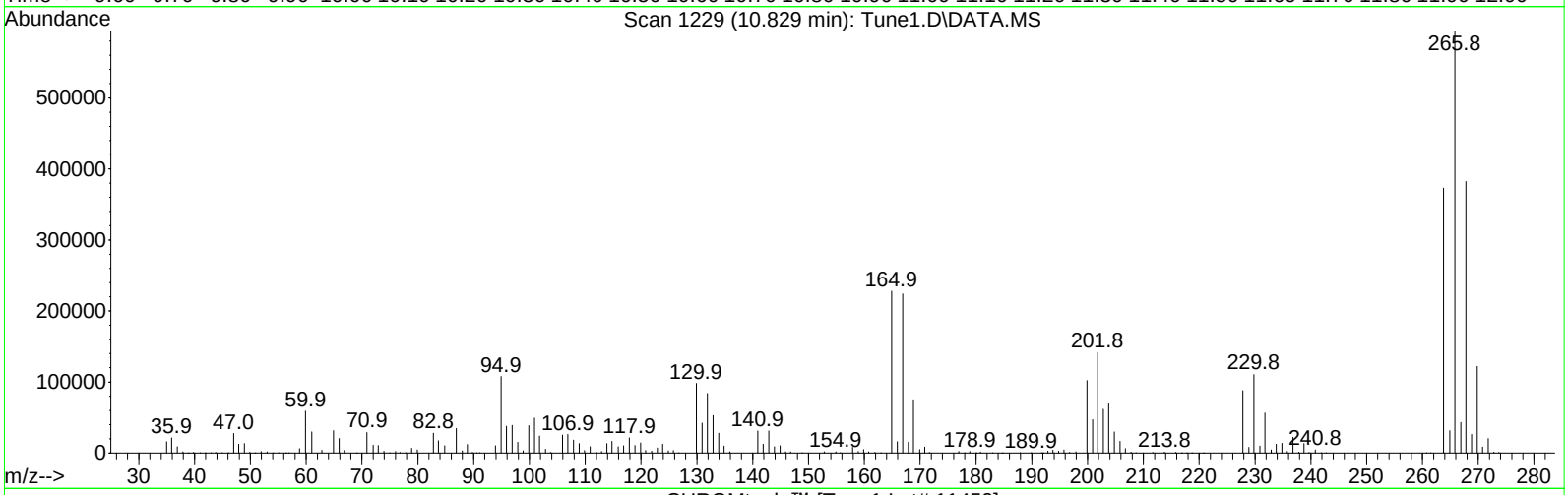
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.30	64.95
165.10	44.50	43.25
199.10	14.80	14.31

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\250311RVTical\
Data File : Tune1.D
Acq On : 11 Mar 2025 4:27 pm
Operator : SV106:ljg
Sample : Tune1 Lot# 11459
Misc : WG2039658,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Mar 11 16:46:29 2025
Quant Method : I:\8270\SV106\250311RVTical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 06 00:46:17 2025
Response via : Initial Calibration





CHROMtools™ [Tune1 Lot# 11459]

(1) Pentachlorophenol (T)

10.829min (-0.013) 233.79

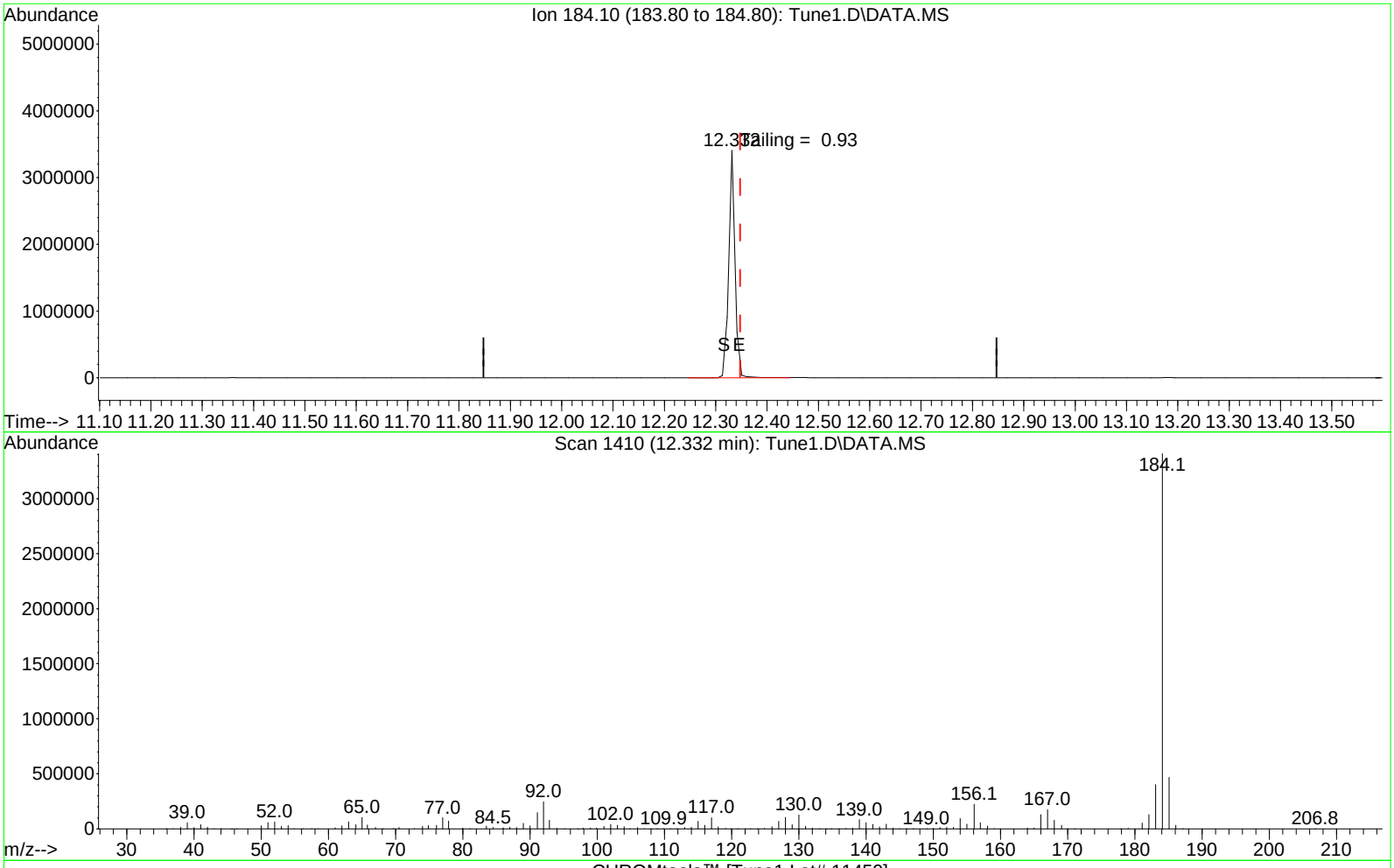
response 491035

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\250311RVTical\
Data File : Tune1.D
Acq On : 11 Mar 2025 4:27 pm
Operator : SV106:ljg
Sample : Tune1 Lot# 11459
Misc : WG2039658,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Mar 11 16:46:29 2025
Quant Method : I:\8270\SV106\250311RVTical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 06 00:46:17 2025
Response via : Initial Calibration



CHROMtools™ [Tune1 Lot# 11459]

(3) Benzidine (T)

12.332min (-0.016) 283.93

response 2890419

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNL9.D
Acq On : 11 Mar 2025 4:50 pm
Operator : SV106:ljg
Sample : IL2,32,,ABNL50 Lot# 11425
Misc : WG2039658,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 12 06:29:44 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 06:11:40 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.351	152	56414	4.000	ug/ml	# 0.00
Standard Area 1 = 55857			Recovery = 101.00%			
35) IS1_Naphthalene-d8	7.790	136	211060	4.000	ug/ml	# 0.00
Standard Area 1 = 204785			Recovery = 103.06%			
63) IS1_Acenaphthene-d10	9.561	164	132829	4.000	ug/ml	0.01
Standard Area 1 = 132560			Recovery = 100.20%			
88) IS1_Phenanthrene-d10	10.995	188	274942	4.000	ug/ml	# 0.00
Standard Area 1 = 260564			Recovery = 105.52%			
104) IS1_Chrysene-d12	13.633	240	292872	4.000	ug/ml	0.02
Standard Area 1 = 281321			Recovery = 104.11%			
113) IS1_Perylene-d12	15.095	264	312016	4.000	ug/ml	0.02
Standard Area 1 = 300591			Recovery = 103.80%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.363	112	814728	46.417	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 2320.85%#			
7) Phenol-d6	5.985	99	929330	43.990	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 2199.50%#			
19) Nitrobenzene-d5	7.017	82	823850	42.975	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 4297.50%#			
46) 2-Fluorobiphenyl	8.918	172	2319699	47.487	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 4748.70%#			
79) 2,4,6-Tribromophenol	10.328	330	395303	52.601	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 2630.05%#			
96) 4-Terphenyl-d14	12.585	244	3506305	47.520	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 4752.00%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.990	74	514038	47.945	ug/ml#	83
3) Pyridine	2.019	79	897374	52.209	ug/ml	80
5) Aniline	5.943	93	1304932	52.242	ug/ml	99
6) 2-Chlorophenol	6.087	128	850044	44.148	ug/ml	95
8) Phenol	6.002	94	999952	45.609	ug/ml	98
9) Bis(2-chloroethyl)ether	6.070	93	767083	42.481	ug/ml#	75
10) 1,3-Dichlorobenzene	6.274	146	1015878	43.165	ug/ml	97
11) 1,4-Dichlorobenzene	6.368	146	1049941	43.797	ug/ml	97
12) 1,2-Dichlorobenzene	6.555	146	1003707	43.657	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNL9.D
Acq On : 11 Mar 2025 4:50 pm
Operator : SV106:ljg
Sample : IL2,32,,ABNL50 Lot# 11425
Misc : WG2039658,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 12 06:29:44 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 06:11:40 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.572	79	696740	46.599	ug/ml	98
14) Bis(2-chloroisopropyl)...	6.754	45	1762991	62.078	ug/ml#	68
15) 2-Methylphenol	6.747	108	860451	54.313	ug/ml	86
16) Hexachloroethane	6.942	117	375982	43.426	ug/ml#	53
17) n-Nitrosodi-n-propylamine	6.897	70	630754	47.567	ug/ml	94
18) 3-Methylphenol/4-Methy...	6.935	108	804297	46.548	ug/ml	96
20) Nitrobenzene	7.040	77	835656	42.664	ug/ml	97
21) Isophorone	7.325	82	1682727	49.384	ug/ml	98
22) 2-Nitrophenol	7.400	139	422717	42.060	ug/ml	89
23) 2,4-Dimethylphenol	7.506	107	889366	56.375	ug/ml	97
24) Bis(2-chloroethoxy)met...	7.603	93	1195458	52.513	ug/ml	96
25) 2,4-Dichlorophenol	7.667	162	864592	49.044	ug/ml#	94
26) 1,2,4-Trichlorobenzene	7.747	180	973161	47.627	ug/ml	97
36) Naphthalene	7.811	128	2646005	44.406	ug/ml	99
37) Benzoic Acid	7.682	105	632143	42.095	ug/ml	94
38) 4-Chloroaniline	7.898	65	345107	51.640	ug/ml	85
39) Hexachlorobutadiene	7.977	225	608872	48.332	ug/ml	99
40) p-Chloro-m-cresol	8.431	107	910250	58.235	ug/ml	96
41) 2-Methylnaphthalene	8.528	142	1631008	41.078	ug/ml	95
42) 1-Methylnaphthalene	8.626	115	601863	46.854	ug/ml	98
43) Hexachlorocyclopentadiene	8.708	237	816572	59.093	ug/ml	98
44) 2,4,6-Trichlorophenol	8.828	196	718596	49.485	ug/ml	99
45) 2,4,5-Trichlorophenol	8.858	196	772320	51.373	ug/ml	98
47) 2-Chloronaphthalene	9.008	162	1902715	45.965	ug/ml	95
48) 2-Nitroaniline	9.128	138	562484	47.736	ug/ml	85
49) 1,4-Dinitrobenzene	9.266	168	260630M3	43.318	ug/ml	
50) 1,3-Dinitrobenzene	9.339	168	308852	46.830	ug/ml#	1
51) Dimethyl phthalate	9.339	163	2258620	46.804	ug/ml#	99
52) Acenaphthylene	9.413	152	3147550	51.001	ug/ml	99
53) 2,6-Dinitrotoluene	9.382	165	487004M6	49.637	ug/ml	
54) 1,2-Dinitrobenzene	9.424	168	195142	45.884	ug/ml#	1
64) 3-Nitroaniline	9.540	138	522686	48.729	ug/ml	88
65) Acenaphthene	9.592	154	1713189	44.587	ug/ml	91
66) 2,4-Dinitrophenol	9.635	184	276500	33.841	ug/ml#	83
67) Dibenzofuran	9.761	168	3600263	57.921	ug/ml	89
68) 2,4-Dinitrotoluene	9.772	165	815049	58.555	ug/ml	89
69) 4-Nitrophenol	9.729	65	420070	52.950	ug/ml#	25
70) 2,3,5,6-Tetrachlorophenol	9.849	232	665759M3	51.351	ug/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNL9.D
Acq On : 11 Mar 2025 4:50 pm
Operator : SV106:ljg
Sample : IL2,32,,ABNL50 Lot# 11425
Misc : WG2039658,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 12 06:29:44 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 06:11:40 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71)	2,3,4,6-Tetrachlorophenol	9.891	232	657340	51.372	ug/ml	97
72)	Diethyl phthalate	10.039	149	2375342	47.123	ug/ml	98
73)	Fluorene	10.096	166	2336759	48.136	ug/ml	96
74)	4-Chlorophenyl phenyl ...	10.117	204	1151487	46.213	ug/ml#	86
75)	4-Nitroaniline	10.131	138	505299	46.296	ug/ml	85
76)	4,6-Dinitro-o-cresol	10.166	198	389939	38.916	ug/ml#	62
77)	NDPA/DPA	10.237	169	1963169	46.873	ug/ml	95
78)	Azobenzene	10.265	77	1903913	46.522	ug/ml#	91
80)	4-Bromophenyl phenyl e...	10.586	248	768129	49.764	ug/ml#	82
81)	Hexachlorobenzene	10.632	284	863219	49.389	ug/ml#	80
82)	Pentachlorophenol	10.829	266	584512	55.264	ug/ml	100
89)	Phenanthrene	11.018	178	3512739	43.545	ug/ml	100
90)	Anthracene	11.071	178	3604023	44.805	ug/ml	100
91)	Carbazole	11.237	167	3436562	47.449	ug/ml	99
92)	Di-n-butylphthalate	11.631	149	4992018	55.064	ug/ml#	98
93)	Fluoranthene	12.172	202	4319676	46.434	ug/ml#	92
94)	Benzidine	12.332	184	2865842	53.739	ug/ml#	95
95)	Pyrene	12.388	202	4357129	44.396	ug/ml	100
97)	Butyl benzyl phthalate	13.110	149	1949769	51.156	ug/ml	93
105)	Benzo(a)anthracene	13.625	228	4697248	46.514	ug/ml	100
106)	3,3'-Dichlorobenzidine	13.625	252	1824617	55.000	ug/ml#	96
107)	Chrysene	13.665	228	4173219	43.060	ug/ml	99
108)	Bis(2-ethylhexyl)phtha...	13.752	149	2820117	46.516	ug/ml	95
109)	Di-n-octylphthalate	14.434	149	5058845	50.317	ug/ml#	75
110)	Benzo(b)fluoranthene	14.729	252	4731985	48.561	ug/ml#	93
111)	Benzo(k)fluoranthene	14.760	252	4164174	45.877	ug/ml#	93
112)	Benzo(a)pyrene	15.039	252	4318958M3	51.071	ug/ml	
114)	Indeno(1,2,3-cd)pyrene	16.069	276	4077645M6	43.109	ug/mL	
115)	Dibenzo(a,h)anthracene	16.092	278	3933954	43.729	ug/ml#	88
116)	Benzo(ghi)perylene	16.314	276	3517262	41.757	ug/ml#	86

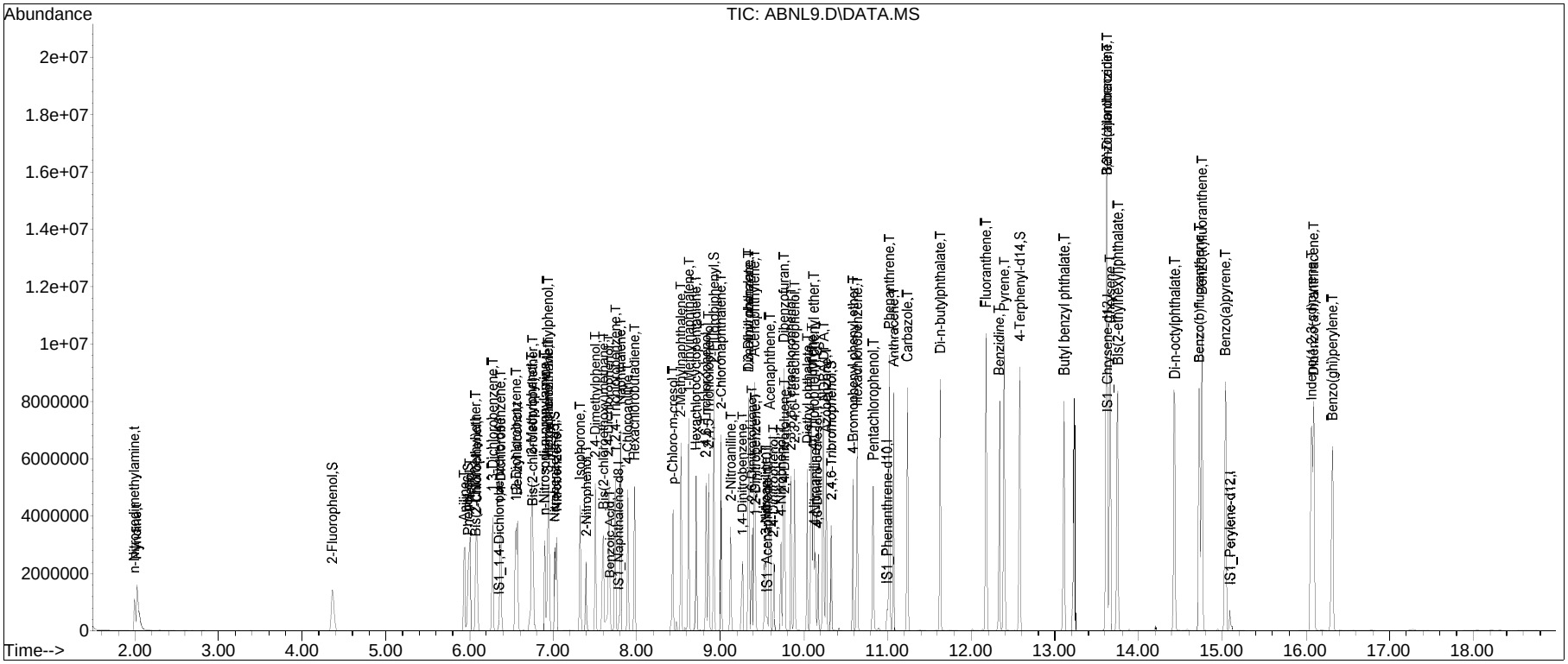
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNL9.D
Acq On : 11 Mar 2025 4:50 pm
Operator : SV106:ljg
Sample : IL2,32,,ABNL50 Lot# 11425
Misc : WG2039658,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 12 06:29:44 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 06:11:40 2025
Response via : Initial Calibration

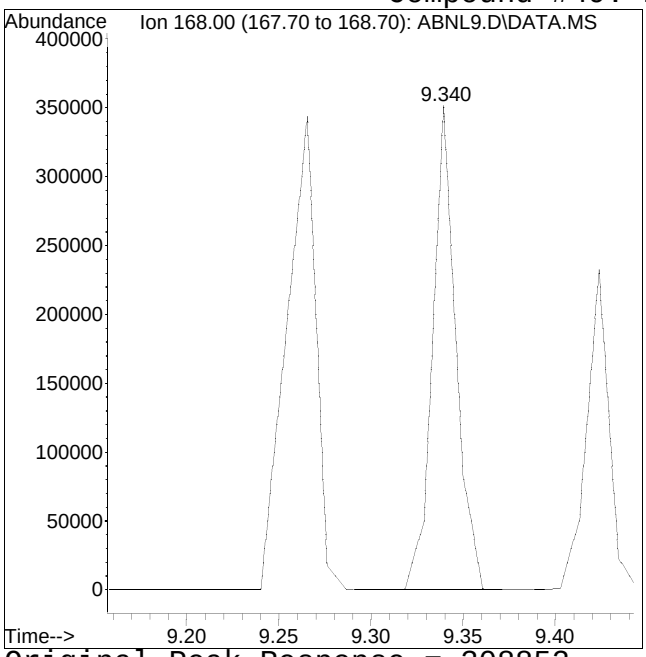
Sub List : ABNical - ABN ical sublistTical\AP9L6.D•

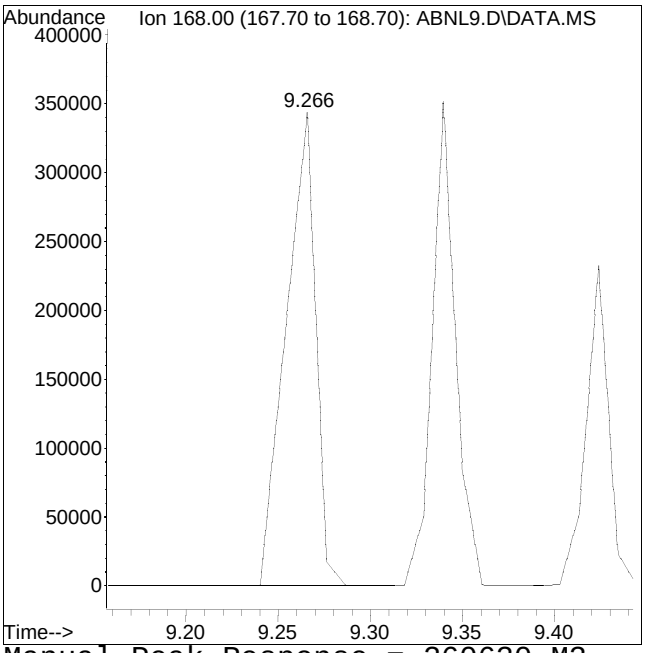


Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL9.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 4:50 pm Instrument : SV 106
Sample : IL2,32,,ABNL50 Lot# 11425 Quant Date : 3/12/2025 6:14 am

Compound #49: 1,4-Dinitrobenzene



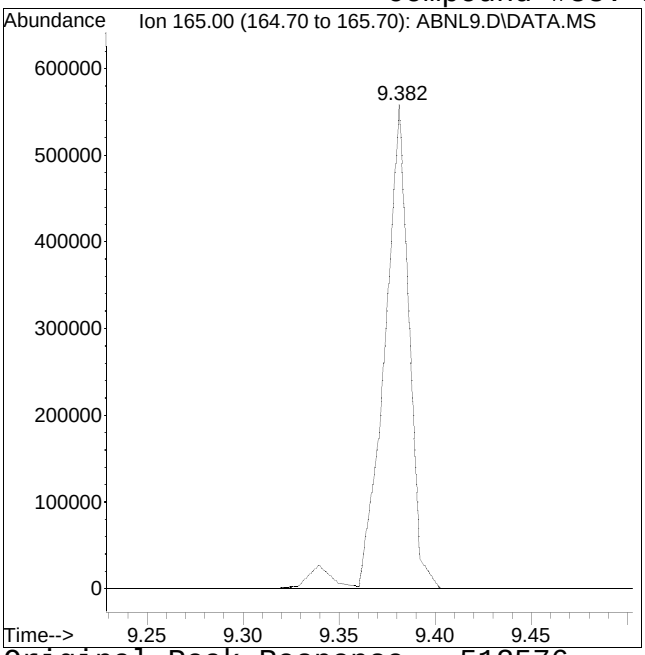


Original Peak Response = 308852 Manual Peak Response = 260630 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

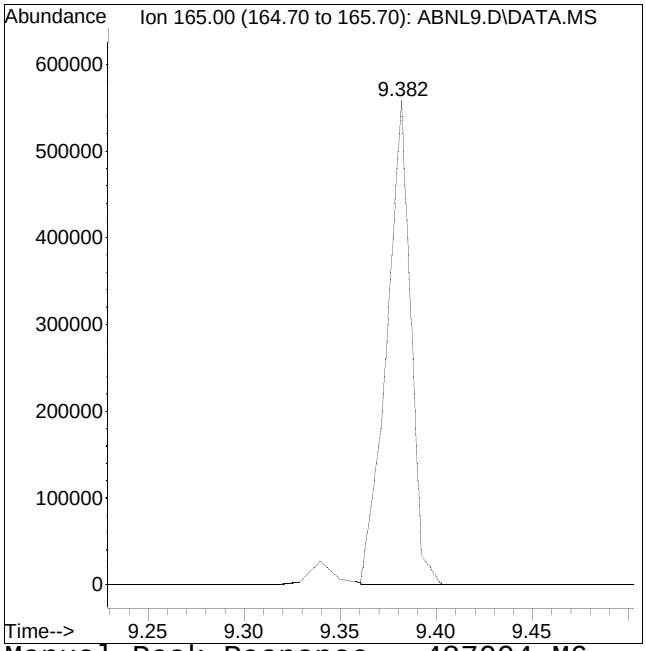
Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL9.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 4:50 pm Instrument : SV 106
Sample : IL2,32,,ABNL50 Lot# 11425 Quant Date : 3/12/2025 6:14 am

Compound #53: 2,6-Dinitrotoluene



Original Peak Response = 512576



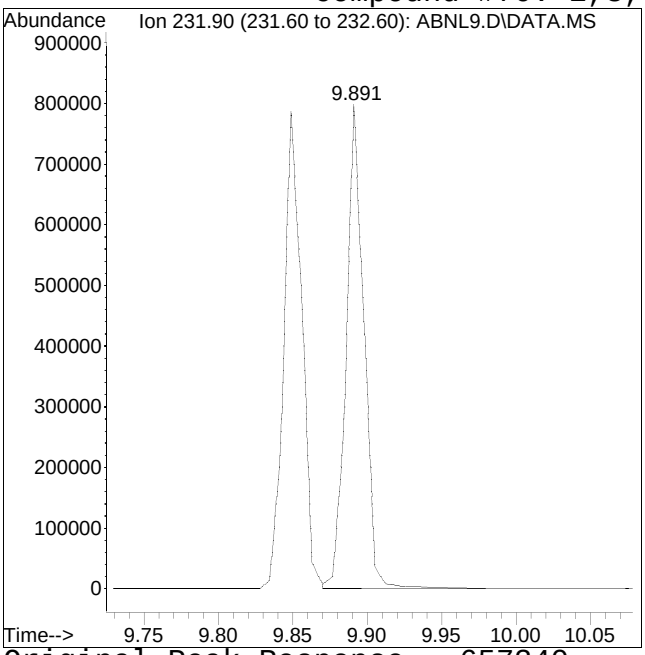
Manual Peak Response = 487004 M6

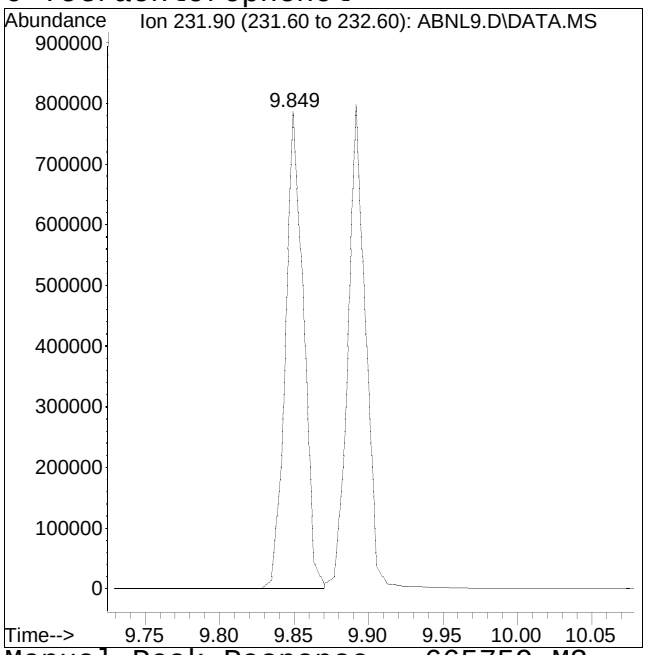
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL9.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 4:50 pm Instrument : SV 106
Sample : IL2,32,,ABNL50 Lot# 11425 Quant Date : 3/12/2025 6:14 am

Compound #70: 2,3,5,6-Tetrachlorophenol



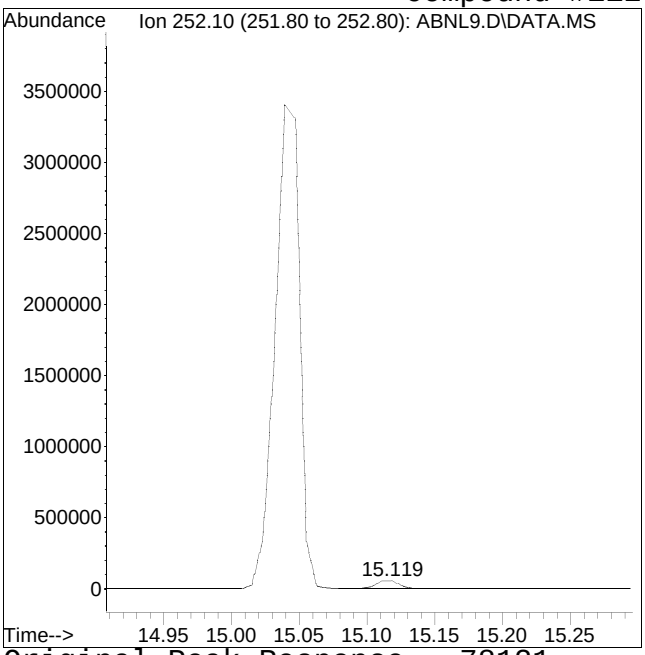


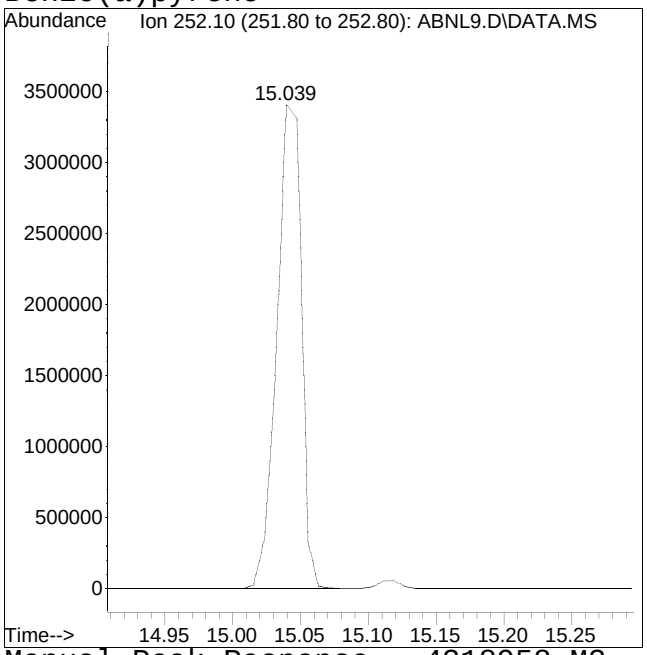
Original Peak Response = 657340 Manual Peak Response = 665759 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL9.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 4:50 pm Instrument : SV 106
Sample : IL2,32,,ABNL50 Lot# 11425 Quant Date : 3/12/2025 6:14 am

Compound #112: Benzo(a)pyrene





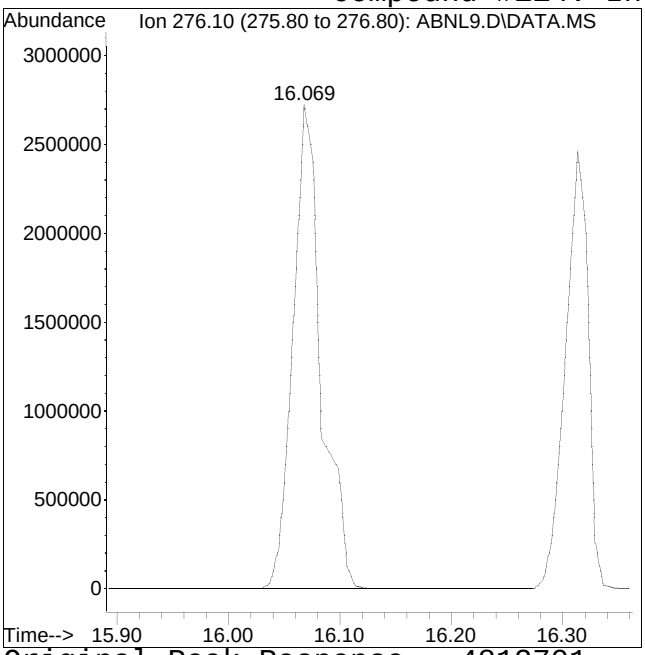
Original Peak Response = 78121 Manual Peak Response = 4318958 M3

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

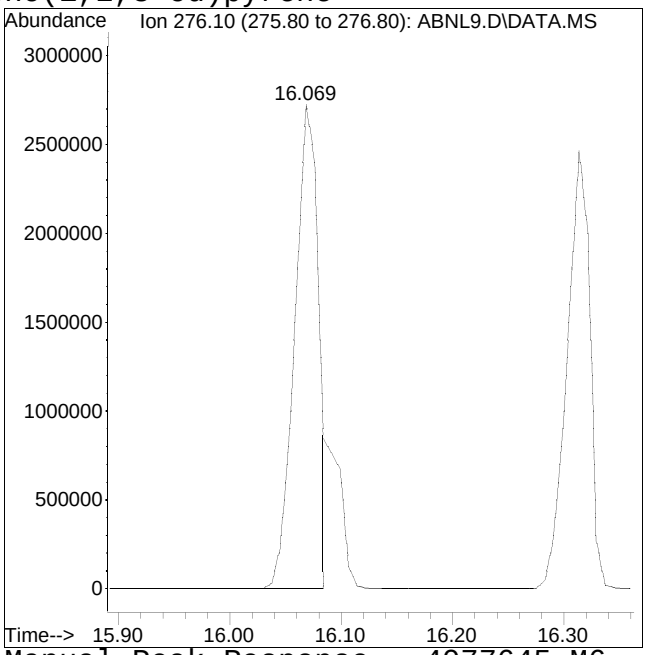
Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL9.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 4:50 pm Instrument : SV 106
Sample : IL2,32,,ABNL50 Lot# 11425 Quant Date : 3/12/2025 6:14 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 4812701



Manual Peak Response = 4077645 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNL8.D
Acq On : 11 Mar 2025 5:14 pm
Operator : SV106:ljg
Sample : IL3,32,,ABNL25 Lot# 11426
Misc : WG2039658,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 12 06:28:27 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 06:11:40 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.351	152	54880	4.000	ug/ml	# 0.00
Standard Area 1 = 55857			Recovery = 98.25%			
35) IS1_Naphthalene-d8	7.790	136	204419	4.000	ug/ml	# 0.00
Standard Area 1 = 204785			Recovery = 99.82%			
63) IS1_Acenaphthene-d10	9.550	164	127809	4.000	ug/ml	0.00
Standard Area 1 = 132560			Recovery = 96.42%			
88) IS1_Phenanthrene-d10	10.995	188	261169	4.000	ug/ml	0.00
Standard Area 1 = 260564			Recovery = 100.23%			
104) IS1_Chrysene-d12	13.625	240	282451	4.000	ug/ml	0.00
Standard Area 1 = 281321			Recovery = 100.40%			
113) IS1_Perylene-d12	15.087	264	296909	4.000	ug/ml	0.00
Standard Area 1 = 300591			Recovery = 98.78%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.370	112	399263	23.383	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 1169.15%#			
7) Phenol-d6	5.985	99	464099	22.582	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 1129.10%#			
19) Nitrobenzene-d5	7.017	82	415004	22.253	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2225.30%#			
46) 2-Fluorobiphenyl	8.918	172	1148043	24.265	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2426.50%#			
79) 2,4,6-Tribromophenol	10.321	330	191425	26.473	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 1323.65%#			
96) 4-Terphenyl-d14	12.576	244	1662213	23.715	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2371.50%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.997	74	247797	23.758	ug/ml#	83
3) Pyridine	2.033	79	426611	25.514	ug/ml	83
5) Aniline	5.943	93	646412	26.602	ug/ml	99
6) 2-Chlorophenol	6.087	128	429692	22.940	ug/ml	95
8) Phenol	6.002	94	503505	23.607	ug/ml	98
9) Bis(2-chloroethyl)ether	6.070	93	387688	22.071	ug/ml#	74
10) 1,3-Dichlorobenzene	6.274	146	508954	22.230	ug/ml	97
11) 1,4-Dichlorobenzene	6.376	146	523842	22.462	ug/ml	97
12) 1,2-Dichlorobenzene	6.555	146	495237	22.143	ug/ml	97

Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNL8.D
Acq On : 11 Mar 2025 5:14 pm
Operator : SV106:ljg
Sample : IL3,32,,ABNL25 Lot# 11426
Misc : WG2039658,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 12 06:28:27 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 06:11:40 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.572	79	341006	23.445	ug/ml	98
14) Bis(2-chloroisopropyl)...	6.755	45	879325	31.828	ug/ml#	68
15) 2-Methylphenol	6.739	108	442752	28.729	ug/ml	91
16) Hexachloroethane	6.942	117	186727	22.170	ug/ml#	53
17) n-Nitrosodi-n-propylamine	6.897	70	309547	23.996	ug/ml	95
18) 3-Methylphenol/4-Methy...	6.927	108	397593	23.653	ug/ml	96
20) Nitrobenzene	7.040	77	421476	22.120	ug/ml	97
21) Isophorone	7.318	82	826238	24.926	ug/ml	98
22) 2-Nitrophenol	7.400	139	208890	21.365	ug/ml	90
23) 2,4-Dimethylphenol	7.506	107	438289	28.559	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.595	93	503954	22.756	ug/ml	91
25) 2,4-Dichlorophenol	7.667	162	424352	24.744	ug/ml#	94
26) 1,2,4-Trichlorobenzene	7.747	180	484851	24.392	ug/ml	98
36) Naphthalene	7.811	128	1307693	22.659	ug/ml	99
37) Benzoic Acid	7.639	105	288977	20.552	ug/ml	94
38) 4-Chloroaniline	7.898	65	172808	26.698	ug/ml	87
39) Hexachlorobutadiene	7.977	225	302546	24.796	ug/ml	99
40) p-Chloro-m-cresol	8.424	107	419246	27.693	ug/ml	90
41) 2-Methylnaphthalene	8.529	142	811020	21.090	ug/ml	96
42) 1-Methylnaphthalene	8.626	115	297824	23.938	ug/ml	97
43) Hexachlorocyclopentadiene	8.708	237	400793	29.946	ug/ml	98
44) 2,4,6-Trichlorophenol	8.828	196	345596	24.572	ug/ml	98
45) 2,4,5-Trichlorophenol	8.858	196	369236	25.359	ug/ml	98
47) 2-Chloronaphthalene	9.008	162	936375	23.355	ug/ml	95
48) 2-Nitroaniline	9.128	138	269282	23.596	ug/ml	85
49) 1,4-Dinitrobenzene	9.266	168	67162	11.525	ug/ml#	50
50) 1,3-Dinitrobenzene	9.340	168	155084	24.279	ug/ml#	1
51) Dimethyl phthalate	9.340	163	1137781	24.343	ug/ml#	99
52) Acenaphthylene	9.413	152	1532009	25.630	ug/ml	99
53) 2,6-Dinitrotoluene	9.371	165	226355M6	23.820	ug/ml	
54) 1,2-Dinitrobenzene	9.413	168	95785	23.253	ug/ml#	1
64) 3-Nitroaniline	9.529	138	250728	24.293	ug/ml	92
65) Acenaphthene	9.582	154	798630	21.601	ug/ml	91
66) 2,4-Dinitrophenol	9.635	184	130658	17.227	ug/ml#	80
67) Dibenzofuran	9.761	168	1676280	28.027	ug/ml	91
68) 2,4-Dinitrotoluene	9.761	165	355965	26.578	ug/ml	88
69) 4-Nitrophenol	9.719	65	188136	24.646	ug/ml#	27
70) 2,3,5,6-Tetrachlorophenol	9.849	232	317479M3	25.450	ug/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNL8.D
Acq On : 11 Mar 2025 5:14 pm
Operator : SV106:ljg
Sample : IL3,32,,ABNL25 Lot# 11426
Misc : WG2039658,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 12 06:28:27 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 06:11:40 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
71)	2,3,4,6-Tetrachlorophenol	9.891	232	318972	25.907	ug/ml		99
72)	Diethyl phthalate	10.032	149	1135790	23.417	ug/ml		98
73)	Fluorene	10.089	166	1114170	23.853	ug/ml		96
74)	4-Chlorophenyl phenyl ...	10.110	204	561636	23.426	ug/ml	#	87
75)	4-Nitroaniline	10.124	138	239664M6	22.821	ug/ml		
76)	4,6-Dinitro-o-cresol	10.159	198	180916	18.942	ug/ml	#	63
77)	NDPA/DPA	10.230	169	939385	23.310	ug/ml		94
78)	Azobenzene	10.265	77	912863	23.182	ug/ml	#	90
80)	4-Bromophenyl phenyl e...	10.579	248	365379	24.601	ug/ml	#	82
81)	Hexachlorobenzene	10.632	284	419531	24.946	ug/ml	#	81
82)	Pentachlorophenol	10.821	266	268650	26.398	ug/ml		99
89)	Phenanthrene	11.018	178	1746300	22.790	ug/ml		99
90)	Anthracene	11.063	178	1781459	23.315	ug/ml		100
91)	Carbazole	11.238	167	1655382	24.061	ug/ml		99
92)	Di-n-butylphthalate	11.631	149	2389757	27.750	ug/ml	#	96
93)	Fluoranthene	12.172	202	2157909	24.419	ug/ml	#	92
94)	Benzidine	12.322	184	1398190	27.601	ug/ml	#	95
95)	Pyrene	12.388	202	2171200	23.290	ug/ml		100
97)	Butyl benzyl phthalate	13.101	149	904168	24.974	ug/ml		86
105)	Benzo(a)anthracene	13.617	228	2318562	23.806	ug/ml		100
106)	3,3'-Dichlorobenzidine	13.617	252	903815	28.249	ug/ml	#	96
107)	Chrysene	13.657	228	2080936	22.264	ug/ml		99
108)	Bis(2-ethylhexyl)phtha...	13.744	149	1337881	22.882	ug/ml		95
109)	Di-n-octylphthalate	14.426	149	2382433	24.571	ug/ml	#	76
110)	Benzo(b)fluoranthene	14.721	252	2364370	25.159	ug/ml	#	93
111)	Benzo(k)fluoranthene	14.752	252	2102995	24.024	ug/ml	#	93
112)	Benzo(a)pyrene	15.031	252	2129092M3	26.105	ug/ml		
114)	Indeno(1,2,3-cd)pyrene	16.061	276	2155023M6	23.942	ug/mL		
115)	Dibenzo(a,h)anthracene	16.084	278	2023783	23.641	ug/ml	#	88
116)	Benzo(ghi)perylene	16.306	276	1968083	24.554	ug/ml	#	86

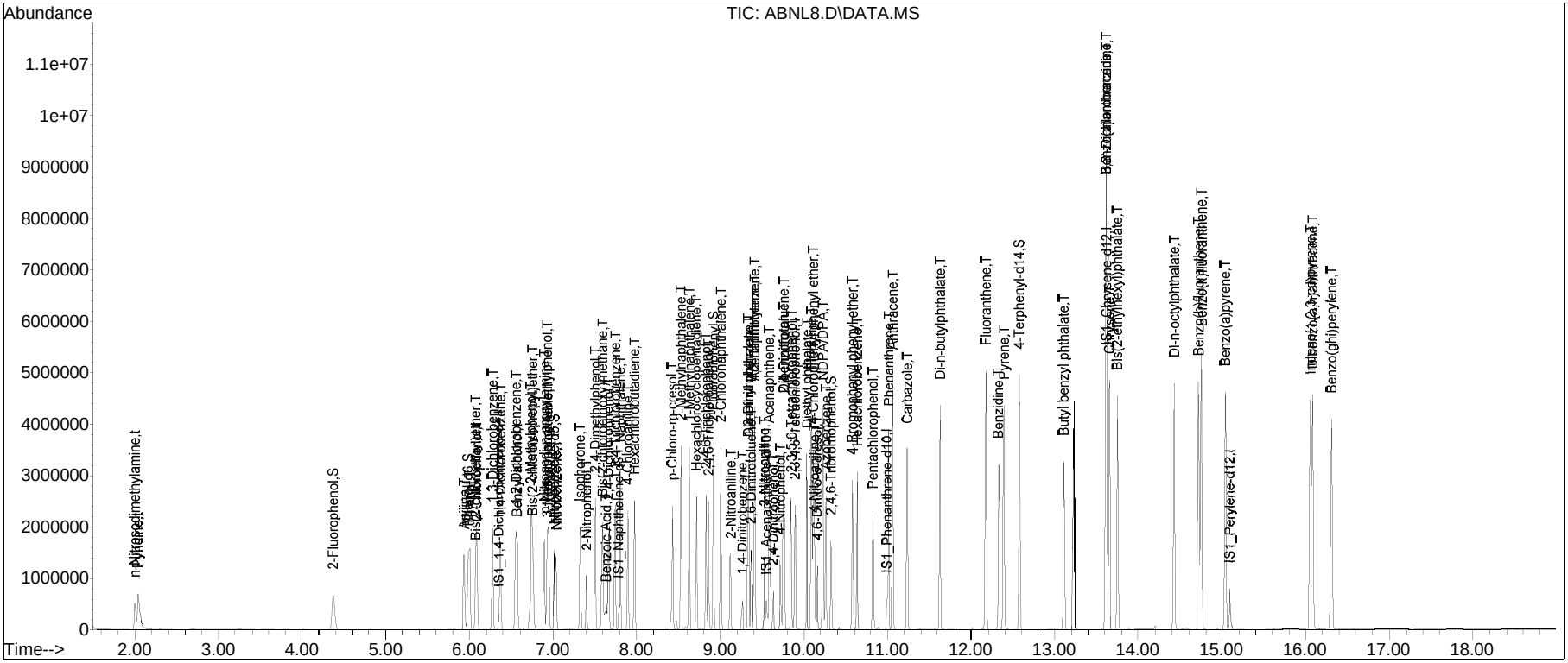
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNL8.D
Acq On : 11 Mar 2025 5:14 pm
Operator : SV106:ljg
Sample : IL3,32,,ABNL25 Lot# 11426
Misc : WG2039658,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 12 06:28:27 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 06:11:40 2025
Response via : Initial Calibration

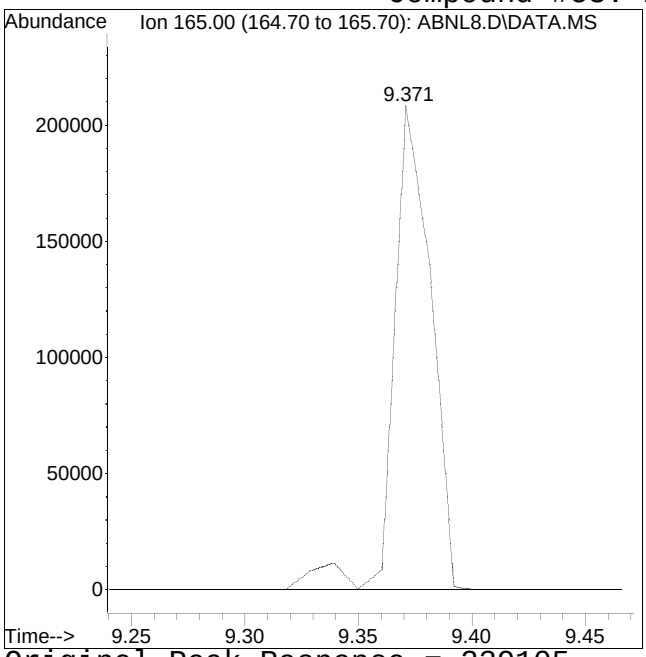
Sub List : ABNical - ABN ical sublistTical\AP9L6.D•



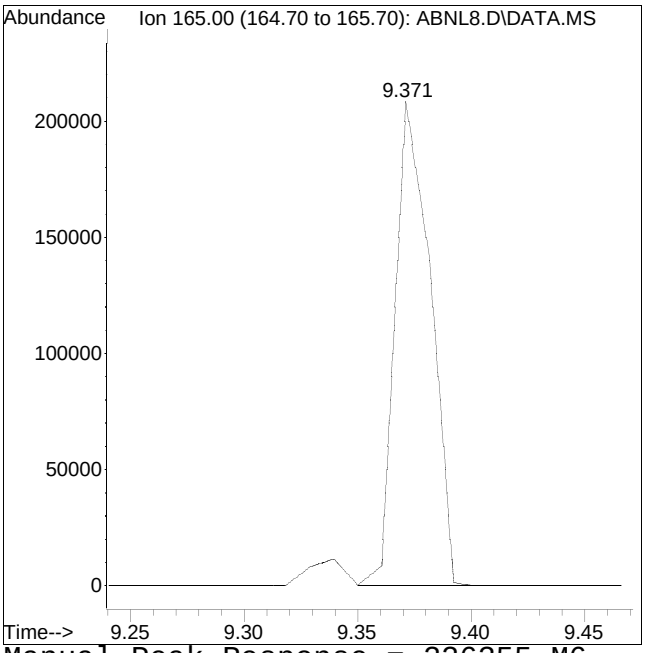
Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL8.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 5:14 pm Instrument : SV 106
Sample : IL3,32,,ABNL25 Lot# 11426 Quant Date : 3/12/2025 6:14 am

Compound #53: 2,6-Dinitrotoluene



Original Peak Response = 239105



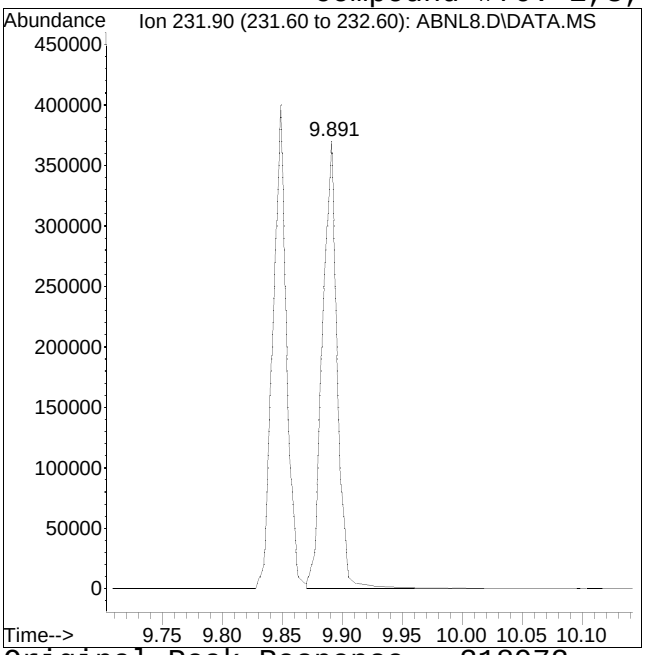
Manual Peak Response = 226355 M6

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

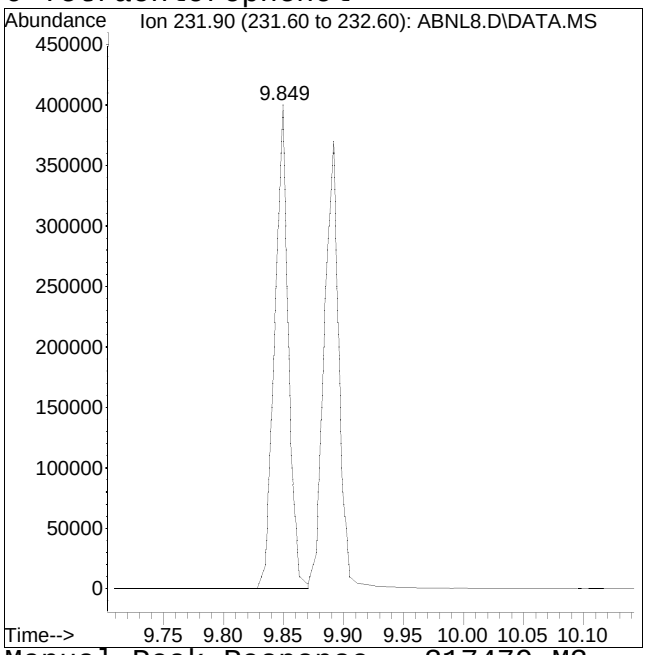
Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL8.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 5:14 pm Instrument : SV 106
Sample : IL3,32,,ABNL25 Lot# 11426 Quant Date : 3/12/2025 6:14 am

Compound #70: 2,3,5,6-Tetrachlorophenol



Original Peak Response = 318972



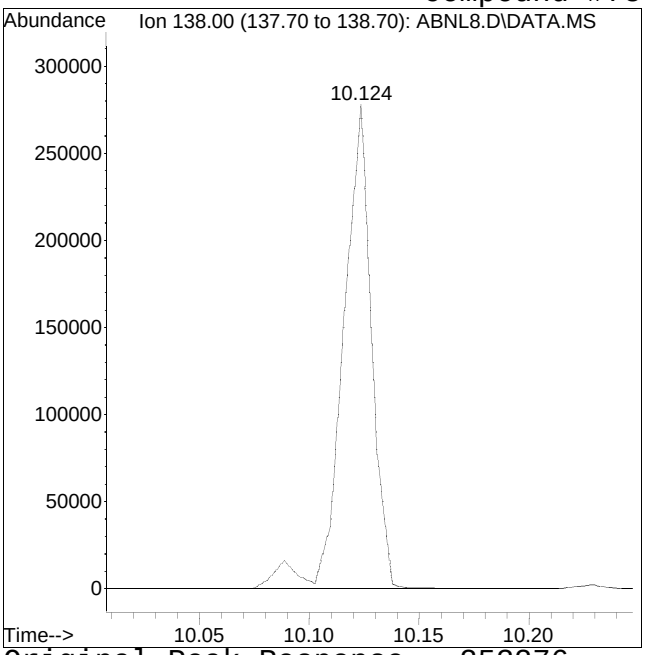
Manual Peak Response = 317479 M3

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

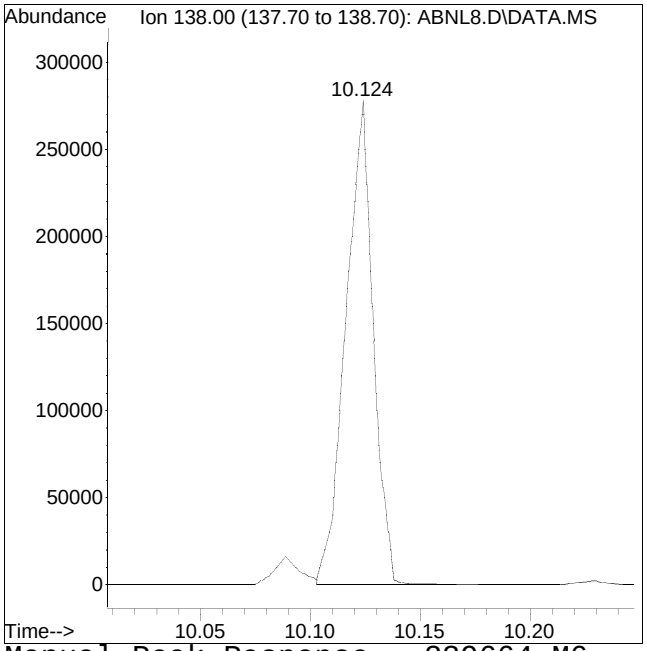
Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL8.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 5:14 pm Instrument : SV 106
Sample : IL3,32,,ABNL25 Lot# 11426 Quant Date : 3/12/2025 6:14 am

Compound #75: 4-Nitroaniline



Original Peak Response = 253276



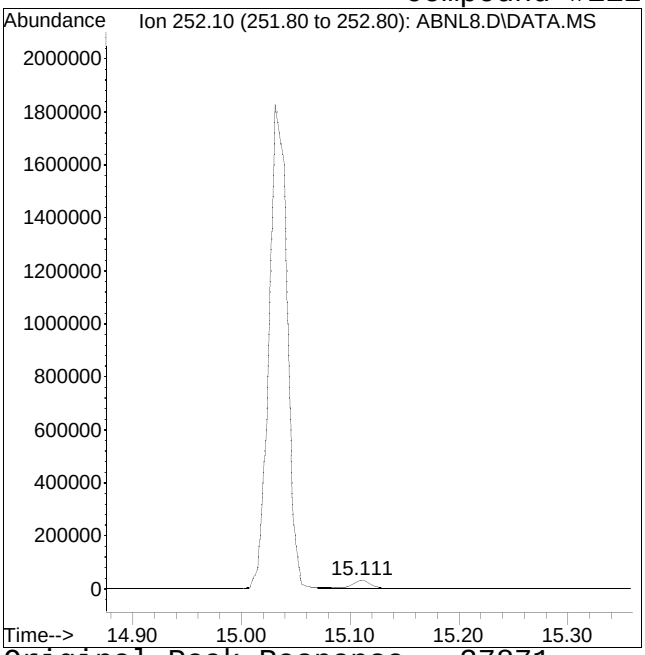
Manual Peak Response = 239664 M6

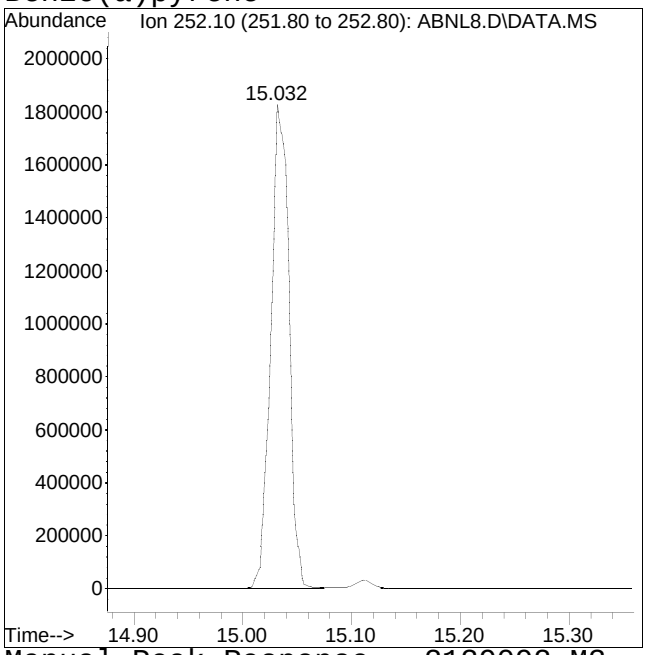
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL8.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 5:14 pm Instrument : SV 106
Sample : IL3,32,,ABNL25 Lot# 11426 Quant Date : 3/12/2025 6:14 am

Compound #112: Benzo(a)pyrene





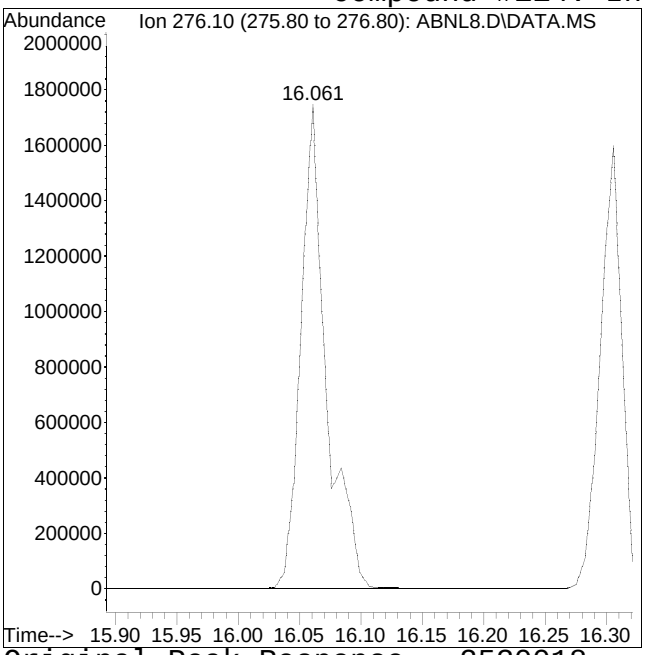
Original Peak Response = 37871 Manual Peak Response = 2129092 M3

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

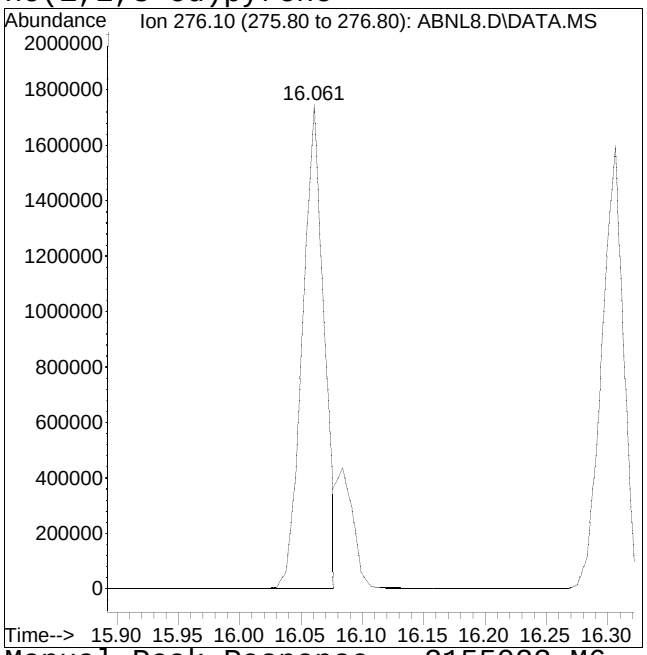
Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL8.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 5:14 pm Instrument : SV 106
Sample : IL3,32,,ABNL25 Lot# 11426 Quant Date : 3/12/2025 6:14 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 2530018



Manual Peak Response = 2155023 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNL7.D
Acq On : 11 Mar 2025 5:37 pm
Operator : SV106:ljg
Sample : IL4,32,,ABNL10 Lot# 11427
Misc : WG2039658,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 12 06:26:23 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 06:11:40 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.351	152	55103	4.000	ug/ml	# 0.00
Standard Area 1 = 55857			Recovery = 98.65%			
35) IS1_Naphthalene-d8	7.790	136	202673	4.000	ug/ml	# 0.00
Standard Area 1 = 204785			Recovery = 98.97%			
63) IS1_Acenaphthene-d10	9.550	164	128980	4.000	ug/ml	0.00
Standard Area 1 = 132560			Recovery = 97.30%			
88) IS1_Phenanthrene-d10	10.988	188	256960	4.000	ug/ml	0.00
Standard Area 1 = 260564			Recovery = 98.62%			
104) IS1_Chrysene-d12	13.625	240	272545	4.000	ug/ml	0.00
Standard Area 1 = 281321			Recovery = 96.88%			
113) IS1_Perylene-d12	15.087	264	285732	4.000	ug/ml	0.00
Standard Area 1 = 300591			Recovery = 95.06%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.377	112	154257	8.998	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 449.90%#			
7) Phenol-d6	5.985	99	180064	8.726	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 436.30%#			
19) Nitrobenzene-d5	7.017	82	156883	8.378	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 837.80%#			
46) 2-Fluorobiphenyl	8.911	172	444349	9.473	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 947.30%#			
79) 2,4,6-Tribromophenol	10.321	330	70259	9.628	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 481.40%#			
96) 4-Terphenyl-d14	12.576	244	625921	9.076	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 907.60%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.004	74	96353	9.201	ug/ml	84
3) Pyridine	2.048	79	164108	9.775	ug/ml	80
5) Aniline	5.943	93	251454	10.306	ug/ml	99
6) 2-Chlorophenol	6.087	128	170071	9.043	ug/ml	94
8) Phenol	5.994	94	197664	9.230	ug/ml	98
9) Bis(2-chloroethyl)ether	6.079	93	155116	8.795	ug/ml#	75
10) 1,3-Dichlorobenzene	6.274	146	200867	8.738	ug/ml	97
11) 1,4-Dichlorobenzene	6.376	146	207651	8.868	ug/ml	97
12) 1,2-Dichlorobenzene	6.555	146	195867	8.722	ug/ml	96

Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNL7.D
Acq On : 11 Mar 2025 5:37 pm
Operator : SV106:ljg
Sample : IL4,32,,ABNL10 Lot# 11427
Misc : WG2039658,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 12 06:26:23 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 06:11:40 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.572	79	129988	8.901	ug/ml	98
14) Bis(2-chloroisopropyl)...	6.754	45	349167	12.587	ug/ml#	68
15) 2-Methylphenol	6.739	108	163144	10.543	ug/ml#	82
16) Hexachloroethane	6.942	117	73789	8.725	ug/ml#	53
17) n-Nitrosodi-n-propylamine	6.897	70	117860	9.100	ug/ml	94
18) 3-Methylphenol/4-Methy...	6.927	108	153638	9.103	ug/ml	98
20) Nitrobenzene	7.040	77	163114	8.526	ug/ml	98
21) Isophorone	7.318	82	320458	9.628	ug/ml	99
22) 2-Nitrophenol	7.400	139	76302	7.773	ug/ml	90
23) 2,4-Dimethylphenol	7.506	107	168277	10.921	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.595	93	197764	8.894	ug/ml	98
25) 2,4-Dichlorophenol	7.660	162	160984	9.349	ug/ml#	94
26) 1,2,4-Trichlorobenzene	7.747	180	189475	9.494	ug/ml	97
36) Naphthalene	7.811	128	513661	8.977	ug/ml	99
37) Benzoic Acid	7.603	105	86826	7.130	ug/ml	95
38) 4-Chloroaniline	7.898	65	66635	10.384	ug/ml	84
39) Hexachlorobutadiene	7.977	225	119161	9.850	ug/ml	99
40) p-Chloro-m-cresol	8.424	107	158212	10.541	ug/ml#	90
41) 2-Methylnaphthalene	8.528	142	313464	8.222	ug/ml	95
42) 1-Methylnaphthalene	8.626	115	116656	9.457	ug/ml	97
43) Hexachlorocyclopentadiene	8.708	237	152567	11.498	ug/ml	99
44) 2,4,6-Trichlorophenol	8.828	196	130771	9.378	ug/ml	99
45) 2,4,5-Trichlorophenol	8.858	196	138125	9.568	ug/ml	97
47) 2-Chloronaphthalene	9.008	162	363990	9.157	ug/ml	95
48) 2-Nitroaniline	9.120	138	95462	8.437	ug/ml	86
49) 1,4-Dinitrobenzene	9.266	168	12883M3	2.230	ug/ml	
50) 1,3-Dinitrobenzene	9.329	168	53928	8.515	ug/ml#	1
51) Dimethyl phthalate	9.329	163	436059	9.410	ug/ml#	99
52) Acenaphthylene	9.413	152	593387	10.013	ug/ml	99
53) 2,6-Dinitrotoluene	9.371	165	88502	9.394	ug/ml#	79
54) 1,2-Dinitrobenzene	9.413	168	38765	9.492	ug/ml#	1
64) 3-Nitroaniline	9.529	138	94430	9.066	ug/ml	90
65) Acenaphthene	9.582	154	318795	8.544	ug/ml	91
66) 2,4-Dinitrophenol	9.624	184	42329	6.341	ug/ml#	83
67) Dibenzofuran	9.751	168	537431	8.904	ug/ml	94
68) 2,4-Dinitrotoluene	9.761	165	113785	8.419	ug/ml#	84
69) 4-Nitrophenol	9.719	65	69782	9.059	ug/ml#	76
70) 2,3,5,6-Tetrachlorophenol	9.849	232	161653M3	12.841	ug/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNL7.D
Acq On : 11 Mar 2025 5:37 pm
Operator : SV106:ljg
Sample : IL4,32,,ABNL10 Lot# 11427
Misc : WG2039658,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 12 06:26:23 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 06:11:40 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71)	2,3,4,6-Tetrachlorophenol	9.891	232	117178	9.431	ug/ml	97
72)	Diethyl phthalate	10.025	149	421805	8.618	ug/ml	98
73)	Fluorene	10.089	166	435177	9.232	ug/ml	97
74)	4-Chlorophenyl phenyl ...	10.110	204	219610	9.077	ug/ml#	86
75)	4-Nitroaniline	10.117	138	85077M6	8.027	ug/ml	
76)	4,6-Dinitro-o-cresol	10.152	198	61656	6.623	ug/ml#	63
77)	NDPA/DPA	10.223	169	364639	8.966	ug/ml	95
78)	Azobenzene	10.258	77	361637	9.100	ug/ml#	91
80)	4-Bromophenyl phenyl e...	10.579	248	139667	9.319	ug/ml#	83
81)	Hexachlorobenzene	10.632	284	161066	9.490	ug/ml#	80
82)	Pentachlorophenol	10.821	266	96824	9.428	ug/ml	99
89)	Phenanthrene	11.010	178	674340	8.944	ug/ml	99
90)	Anthracene	11.063	178	685128	9.113	ug/ml	100
91)	Carbazole	11.230	167	634344	9.371	ug/ml	100
92)	Di-n-butylphthalate	11.631	149	736778	8.696	ug/ml	98
93)	Fluoranthene	12.163	202	807618	9.289	ug/ml#	92
94)	Benzidine	12.322	184	502505	10.082	ug/ml#	95
95)	Pyrene	12.379	202	821987	8.962	ug/ml	99
97)	Butyl benzyl phthalate	13.101	149	301836	8.473	ug/ml	86
105)	Benzo(a)anthracene	13.609	228	863894	9.193	ug/ml	100
106)	3,3'-Dichlorobenzidine	13.617	252	326001	10.560	ug/ml#	96
107)	Chrysene	13.649	228	776841	8.613	ug/ml	100
108)	Bis(2-ethylhexyl)phtha...	13.744	149	460960	8.170	ug/ml	95
109)	Di-n-octylphthalate	14.426	149	762488	8.150	ug/ml#	76
110)	Benzo(b)fluoranthene	14.721	252	853895	9.417	ug/ml#	93
111)	Benzo(k)fluoranthene	14.744	252	834031	9.874	ug/ml#	93
112)	Benzo(a)pyrene	15.031	252	789869	10.037	ug/ml#	93
114)	Indeno(1,2,3-cd)pyrene	16.053	276	808275M6	9.331	ug/mL	
115)	Dibenzo(a,h)anthracene	16.076	278	795853	9.660	ug/ml#	89
116)	Benzo(ghi)perylene	16.298	276	765755	9.927	ug/ml#	86

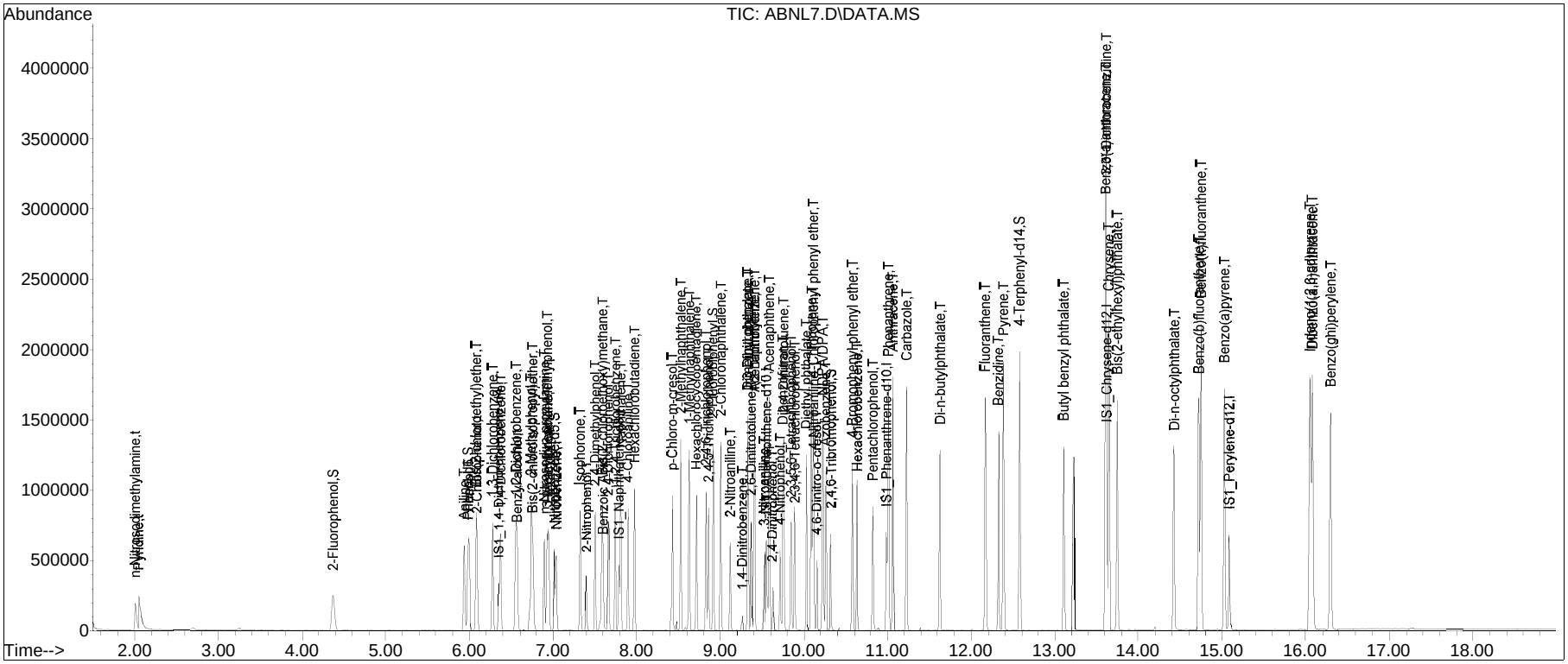
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNL7.D
Acq On : 11 Mar 2025 5:37 pm
Operator : SV106:ljg
Sample : IL4,32,,ABNL10 Lot# 11427
Misc : WG2039658,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 12 06:26:23 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 06:11:40 2025
Response via : Initial Calibration

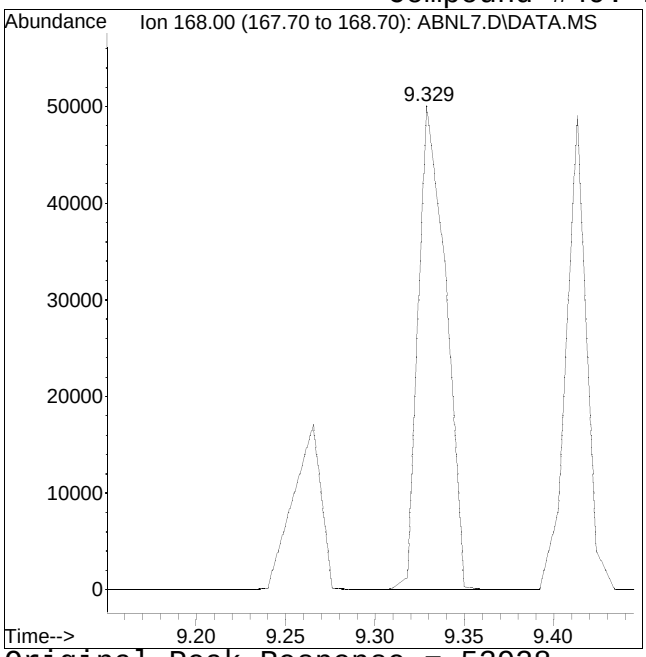
Sub List : ABNical - ABN ical sublistTical\AP9L6.D•

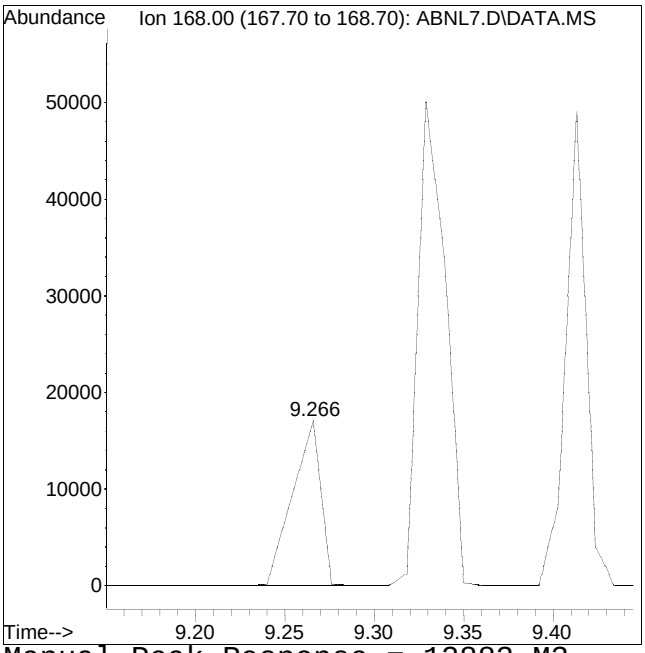


Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL7.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 5:37 pm Instrument : SV 106
Sample : IL4,32,,ABNL10 Lot# 11427 Quant Date : 3/12/2025 6:14 am

Compound #49: 1,4-Dinitrobenzene





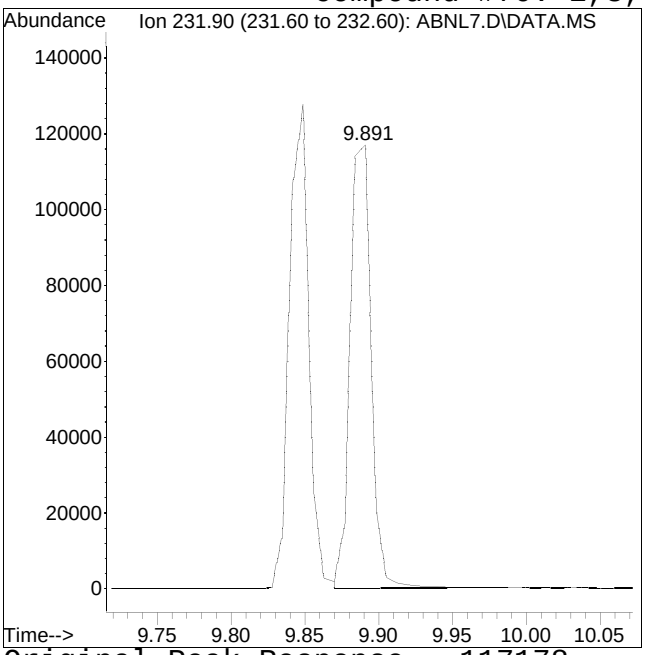
Original Peak Response = 53928 Manual Peak Response = 12883 M3

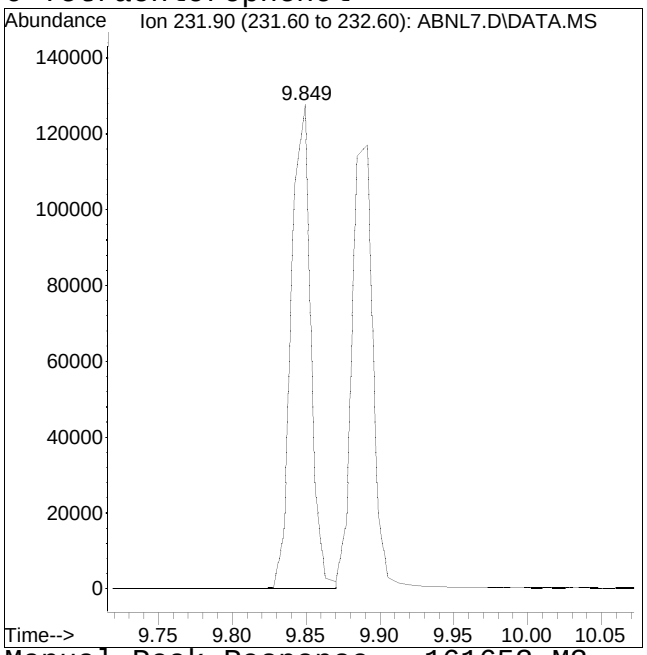
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL7.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 5:37 pm Instrument : SV 106
Sample : IL4,32,,ABNL10 Lot# 11427 Quant Date : 3/12/2025 6:14 am

Compound #70: 2,3,5,6-Tetrachlorophenol





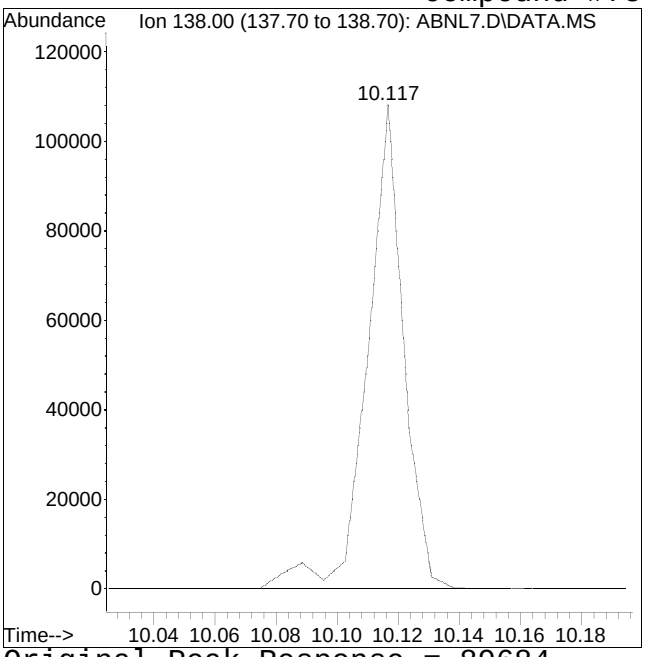
Original Peak Response = 117178 Manual Peak Response = 161653 M3

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

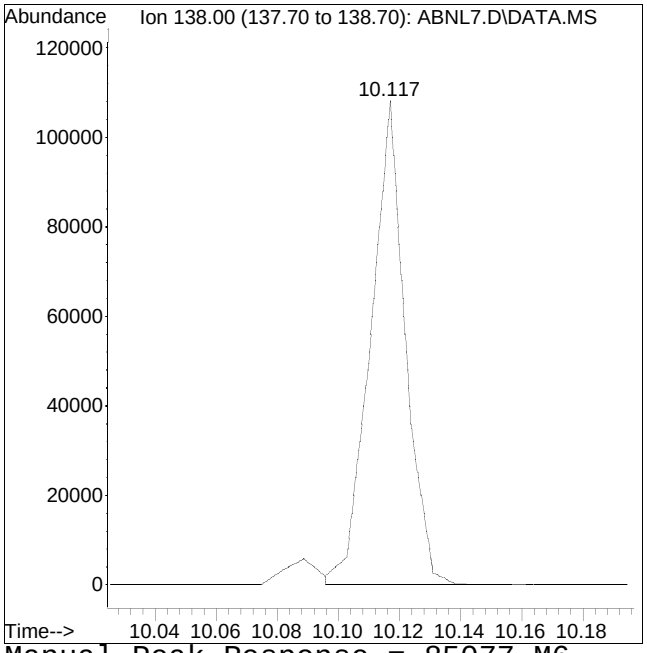
Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL7.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 5:37 pm Instrument : SV 106
Sample : IL4,32,,ABNL10 Lot# 11427 Quant Date : 3/12/2025 6:14 am

Compound #75: 4-Nitroaniline



Original Peak Response = 89684



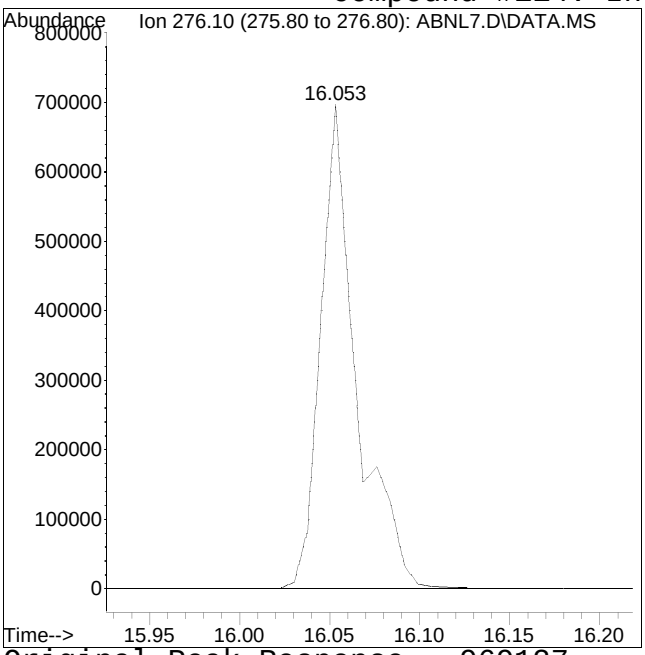
Manual Peak Response = 85077 M6

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

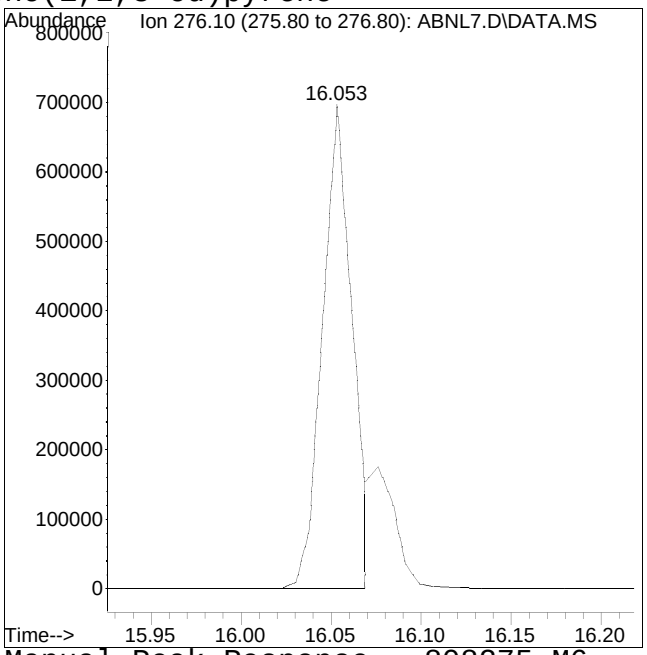
Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL7.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 5:37 pm Instrument : SV 106
Sample : IL4,32,,ABNL10 Lot# 11427 Quant Date : 3/12/2025 6:14 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 969127



Manual Peak Response = 808275 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNL6.D
Acq On : 11 Mar 2025 6:01 pm
Operator : SV106:ljg
Sample : IL5,32,,ABNL5 Lot# 11428
Misc : WG2039658,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 12 06:26:53 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 06:11:42 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.351	152	55857	4.000	ug/ml	0.00
Standard Area 1 = 55857			Recovery = 100.00%			
35) IS1_Naphthalene-d8	7.790	136	204785	4.000	ug/ml	# 0.00
Standard Area 1 = 204785			Recovery = 100.00%			
63) IS1_Acenaphthene-d10	9.551	164	132560	4.000	ug/ml	0.00
Standard Area 1 = 132560			Recovery = 100.00%			
88) IS1_Phenanthrene-d10	10.988	188	260564	4.000	ug/ml	0.00
Standard Area 1 = 260564			Recovery = 100.00%			
104) IS1_Chrysene-d12	13.618	240	281321	4.000	ug/ml	0.00
Standard Area 1 = 281321			Recovery = 100.00%			
113) IS1_Perylene-d12	15.080	264	300591	4.000	ug/ml	0.00
Standard Area 1 = 300591			Recovery = 100.00%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.370	112	77157	4.440	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 222.00%#			
7) Phenol-d6	5.977	99	91274	4.364	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 218.20%#			
19) Nitrobenzene-d5	7.018	82	76950	4.054	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 405.40%#			
46) 2-Fluorobiphenyl	8.911	172	228517	4.821	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 482.10%#			
79) 2,4,6-Tribromophenol	10.321	330	35485	4.731	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 236.55%#			
96) 4-Terphenyl-d14	12.576	244	326082	4.663	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 466.30%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.005	74	49027	4.618	ug/ml	86
3) Pyridine	2.055	79	80239	4.715	ug/ml	81
5) Aniline	5.943	93	126413	5.111	ug/ml	99
6) 2-Chlorophenol	6.087	128	83752	4.393	ug/ml	95
8) Phenol	5.994	94	99496	4.583	ug/ml	98
9) Bis(2-chloroethyl)ether	6.079	93	79241	4.432	ug/ml#	75
10) 1,3-Dichlorobenzene	6.274	146	102365	4.393	ug/ml	97
11) 1,4-Dichlorobenzene	6.368	146	107450	4.527	ug/ml	96
12) 1,2-Dichlorobenzene	6.555	146	99264	4.361	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNL6.D
Acq On : 11 Mar 2025 6:01 pm
Operator : SV106:ljg
Sample : IL5,32,,ABNL5 Lot# 11428
Misc : WG2039658,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 12 06:26:53 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 06:11:42 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.572	79	63182	4.268	ug/ml	97
14) Bis(2-chloroisopropyl)...	6.755	45	181901	6.469	ug/ml#	70
15) 2-Methylphenol	6.740	108	85645	5.460	ug/ml	86
16) Hexachloroethane	6.942	117	37639	4.391	ug/ml#	56
17) n-Nitrosodi-n-propylamine	6.897	70	59078	4.500	ug/ml	94
18) 3-Methylphenol/4-Methy...	6.927	108	77344	4.521	ug/ml	97
20) Nitrobenzene	7.040	77	79381	4.093	ug/ml	99
21) Isophorone	7.318	82	159426	4.725	ug/ml	100
22) 2-Nitrophenol	7.401	139	35760	3.594	ug/ml	91
23) 2,4-Dimethylphenol	7.498	107	85657	5.484	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.596	93	102484	4.547	ug/ml	97
25) 2,4-Dichlorophenol	7.660	162	80700	4.623	ug/ml#	94
26) 1,2,4-Trichlorobenzene	7.740	180	96522	4.771	ug/ml	97
36) Naphthalene	7.804	128	261190	4.518	ug/ml	99
37) Benzoic Acid	7.573	105	25679	3.002	ug/ml	89
38) 4-Chloroaniline	7.898	65	33932	5.233	ug/ml	83
39) Hexachlorobutadiene	7.977	225	61202	5.007	ug/ml	100
40) p-Chloro-m-cresol	8.424	107	79422	5.237	ug/ml	89
41) 2-Methylnaphthalene	8.529	142	160087	4.155	ug/ml	95
42) 1-Methylnaphthalene	8.626	115	59563	4.779	ug/ml	98
43) Hexachlorocyclopentadiene	8.709	237	76282	5.689	ug/ml	99
44) 2,4,6-Trichlorophenol	8.828	196	64510M3	4.578	ug/ml	
45) 2,4,5-Trichlorophenol	8.858	196	67368	4.619	ug/ml	97
47) 2-Chloronaphthalene	9.008	162	187936	4.679	ug/ml	95
48) 2-Nitroaniline	9.121	138	44431	3.886	ug/ml	88
49) 1,4-Dinitrobenzene	9.266	168	3874M3	0.664	ug/ml	
50) 1,3-Dinitrobenzene	9.329	168	25557	3.994	ug/ml#	1
51) Dimethyl phthalate	9.329	163	231268	4.939	ug/ml#	98
52) Acenaphthylene	9.403	152	300628	5.020	ug/ml	99
53) 2,6-Dinitrotoluene	9.371	165	45398	4.769	ug/ml#	74
54) 1,2-Dinitrobenzene	9.414	168	17866	4.330	ug/ml#	1
64) 3-Nitroaniline	9.529	138	44009	4.111	ug/ml#	94
65) Acenaphthene	9.582	154	169335	4.416	ug/ml	91
66) 2,4-Dinitrophenol	9.624	184	19364	3.485	ug/ml	88
67) Dibenzofuran	9.751	168	279828	4.511	ug/ml#	77
68) 2,4-Dinitrotoluene	9.761	165	54928	3.954	ug/ml#	82
69) 4-Nitrophenol	9.719	65	32799	4.143	ug/ml#	31
70) 2,3,5,6-Tetrachlorophenol	9.842	232	58593M3	4.529	ug/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNL6.D
Acq On : 11 Mar 2025 6:01 pm
Operator : SV106:ljg
Sample : IL5,32,,ABNL5 Lot# 11428
Misc : WG2039658,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 12 06:26:53 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 06:11:42 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71)	2,3,4,6-Tetrachlorophenol	9.884	232	57822	4.528	ug/ml	96
72)	Diethyl phthalate	10.025	149	222318	4.419	ug/ml	98
73)	Fluorene	10.089	166	223972	4.623	ug/ml	97
74)	4-Chlorophenyl phenyl ...	10.110	204	113786	4.576	ug/ml#	87
75)	4-Nitroaniline	10.117	138	43107M6	3.957	ug/ml	
76)	4,6-Dinitro-o-cresol	10.152	198	29139	3.231	ug/ml#	63
77)	NDPA/DPA	10.223	169	187729	4.491	ug/ml	94
78)	Azobenzene	10.258	77	183971	4.504	ug/ml#	90
80)	4-Bromophenyl phenyl e...	10.579	248	72907	4.733	ug/ml#	81
81)	Hexachlorobenzene	10.624	284	82939	4.755	ug/ml#	80
82)	Pentachlorophenol	10.821	266	46041	4.362	ug/ml	99
89)	Phenanthrene	11.011	178	347207	4.542	ug/ml	99
90)	Anthracene	11.064	178	353638	4.639	ug/ml	100
91)	Carbazole	11.230	167	324365	4.726	ug/ml	99
92)	Di-n-butylphthalate	11.624	149	363209	4.227	ug/ml	99
93)	Fluoranthene	12.163	202	408818	4.637	ug/ml#	92
94)	Benzidine	12.323	184	240598	4.761	ug/ml#	94
95)	Pyrene	12.379	202	432613	4.651	ug/ml	100
97)	Butyl benzyl phthalate	13.101	149	143332	3.968	ug/ml	86
105)	Benzo(a)anthracene	13.610	228	429486M3	4.428	ug/ml	
106)	3,3'-Dichlorobenzidine	13.618	252	160540	5.038	ug/ml#	97
107)	Chrysene	13.649	228	418335	4.494	ug/ml	100
108)	Bis(2-ethylhexyl)phtha...	13.744	149	229451	3.940	ug/ml	94
109)	Di-n-octylphthalate	14.418	149	365799	3.788	ug/ml#	77
110)	Benzo(b)fluoranthene	14.713	252	468863M3	5.009	ug/ml	
111)	Benzo(k)fluoranthene	14.745	252	417264	4.786	ug/ml#	93
112)	Benzo(a)pyrene	15.024	252	414024M3	5.097	ug/ml	
114)	Indeno(1,2,3-cd)pyrene	16.046	276	426992M6	4.686	ug/mL	
115)	Dibenzo(a,h)anthracene	16.077	278	412072	4.755	ug/ml#	89
116)	Benzo(ghi)perylene	16.291	276	399794	4.927	ug/ml#	86

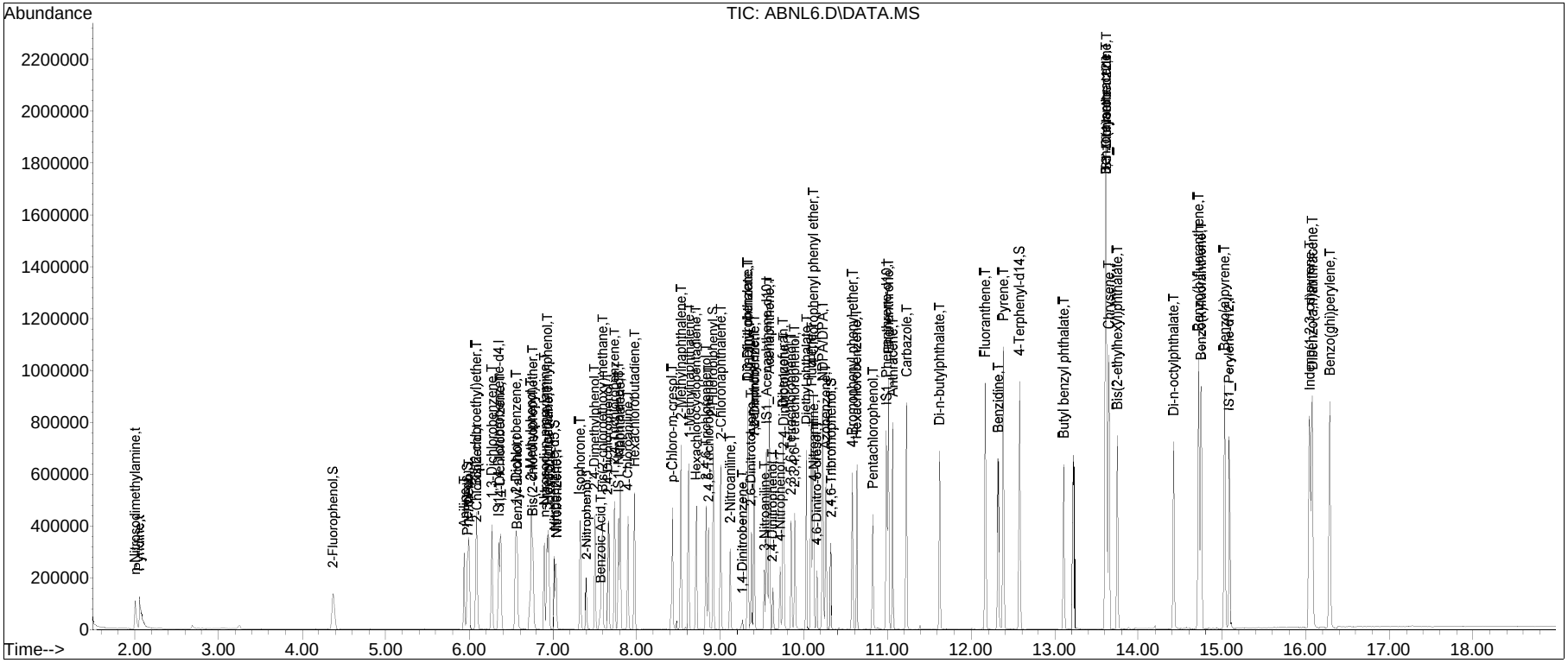
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNL6.D
Acq On : 11 Mar 2025 6:01 pm
Operator : SV106:ljg
Sample : IL5,32,,ABNL5 Lot# 11428
Misc : WG2039658,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 12 06:26:53 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 06:11:42 2025
Response via : Initial Calibration

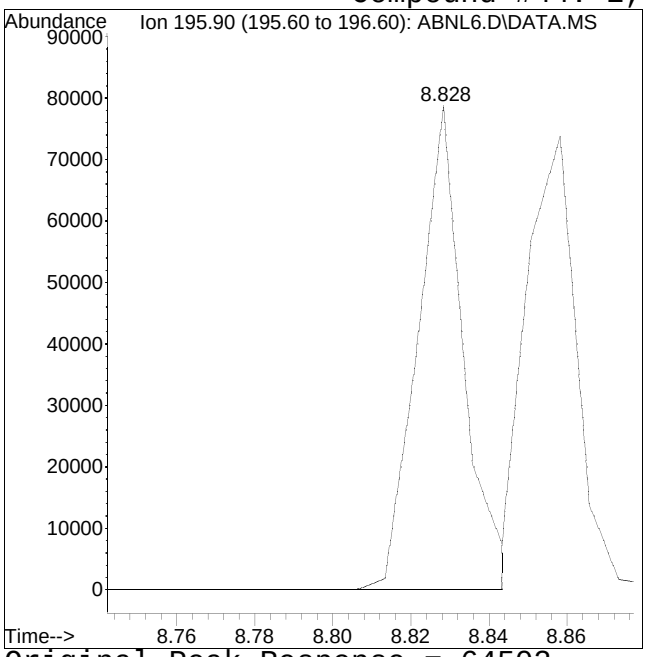
Sub List : ABNical - ABN ical sublistTical\AP9L6.D•



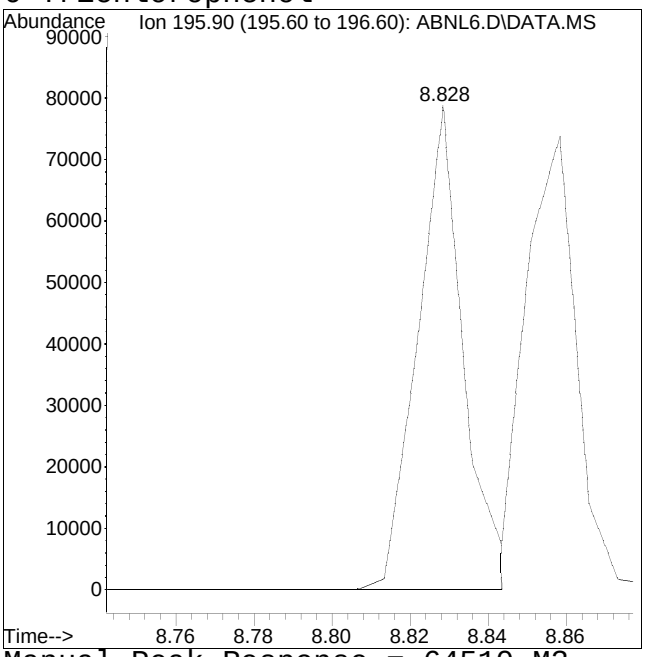
Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL6.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 6:01 pm Instrument : SV 106
Sample : IL5,32,,ABNL5 Lot# 11428 Quant Date : 3/12/2025 6:11 am

Compound #44: 2,4,6-Trichlorophenol



Original Peak Response = 64502



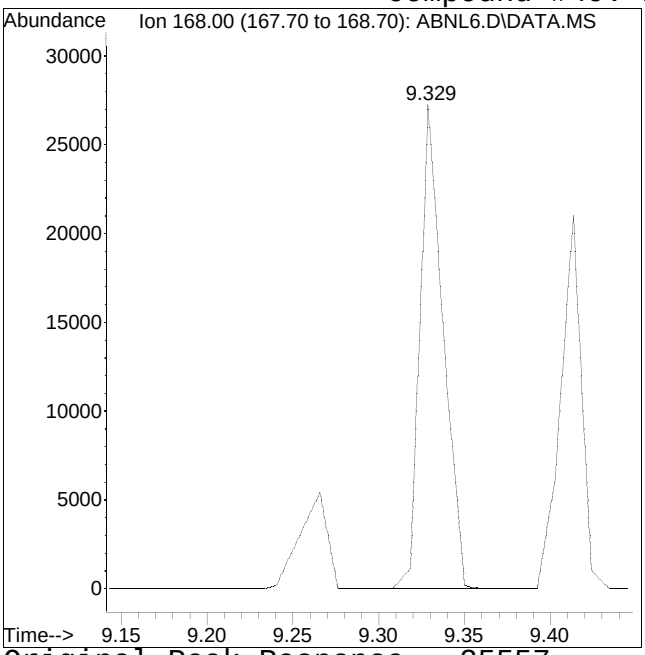
Manual Peak Response = 64510 M3

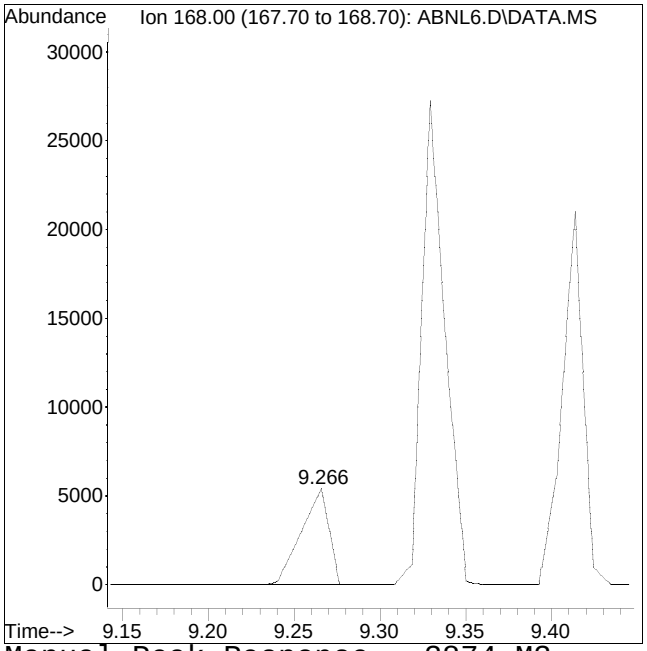
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL6.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 6:01 pm Instrument : SV 106
Sample : IL5,32,,ABNL5 Lot# 11428 Quant Date : 3/12/2025 6:11 am

Compound #49: 1,4-Dinitrobenzene





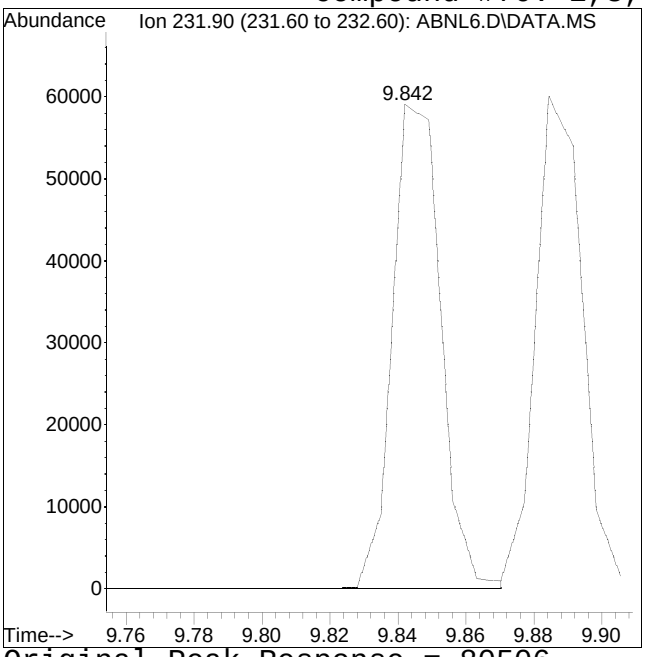
Original Peak Response = 25557 Manual Peak Response = 3874 M3

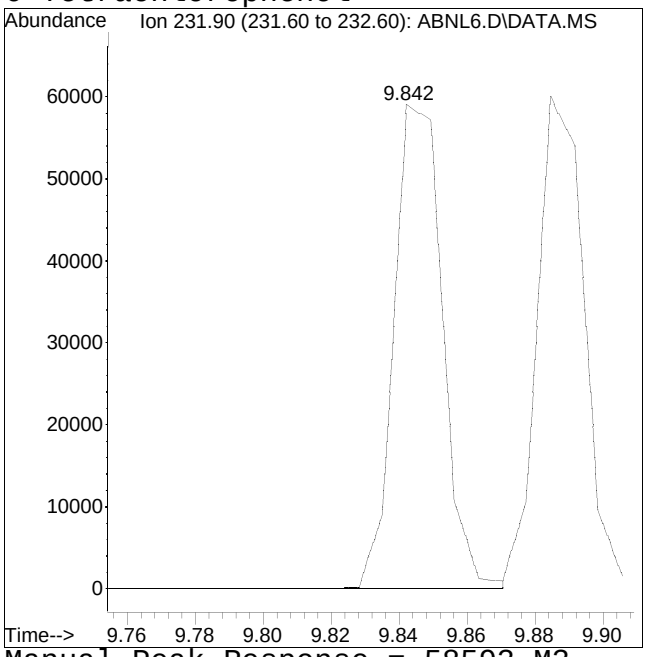
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL6.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 6:01 pm Instrument : SV 106
Sample : IL5,32,,ABNL5 Lot# 11428 Quant Date : 3/12/2025 6:11 am

Compound #70: 2,3,5,6-Tetrachlorophenol





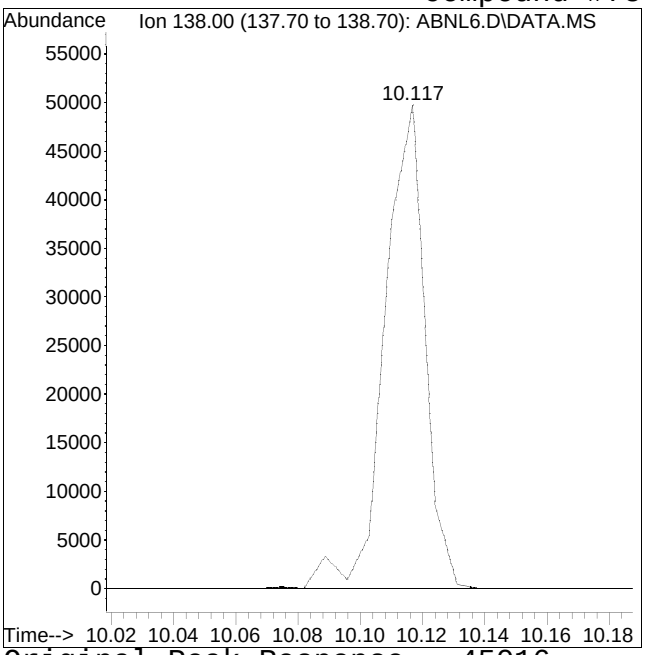
Original Peak Response = 80506 Manual Peak Response = 58593 M3

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

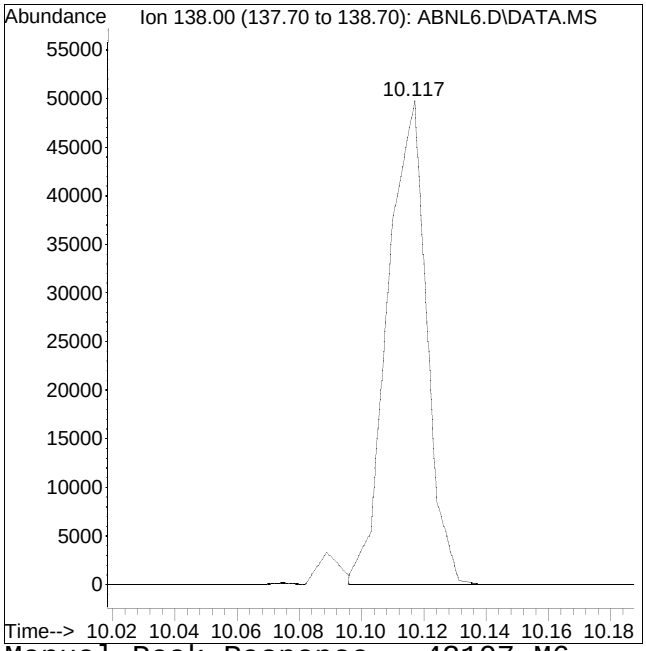
Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL6.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 6:01 pm Instrument : SV 106
Sample : IL5,32,,ABNL5 Lot# 11428 Quant Date : 3/12/2025 6:11 am

Compound #75: 4-Nitroaniline



Original Peak Response = 45016



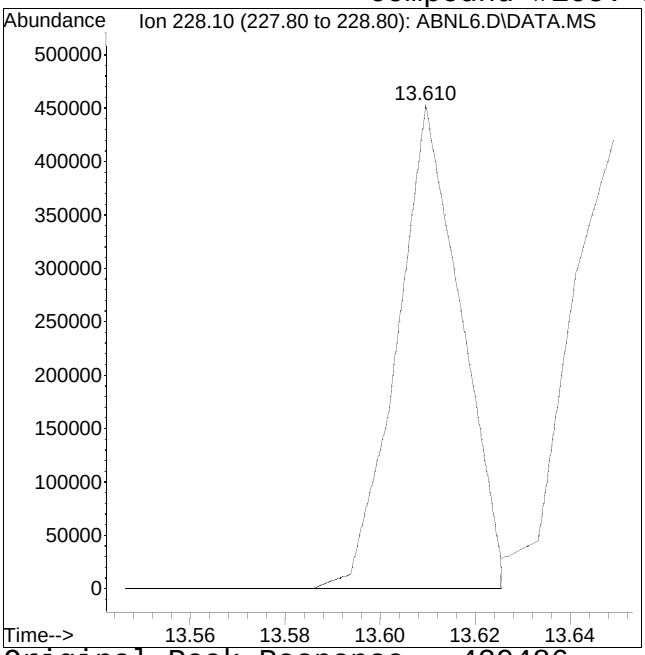
Manual Peak Response = 43107 M6

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

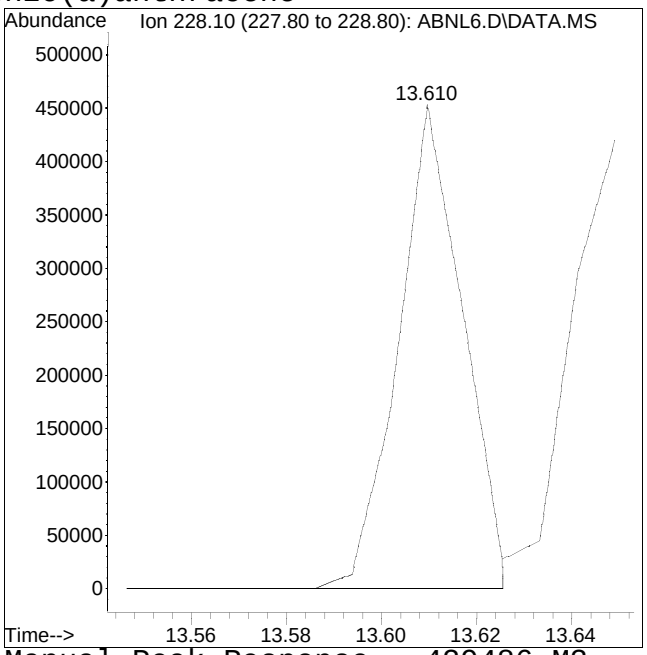
Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL6.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 6:01 pm Instrument : SV 106
Sample : IL5,32,,ABNL5 Lot# 11428 Quant Date : 3/12/2025 6:11 am

Compound #105: Benzo(a)anthracene



Original Peak Response = 429486



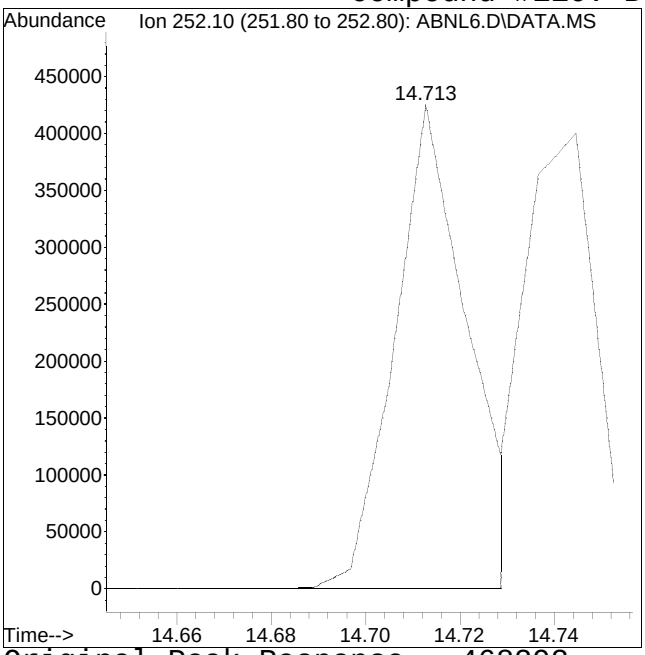
Manual Peak Response = 429486 M3

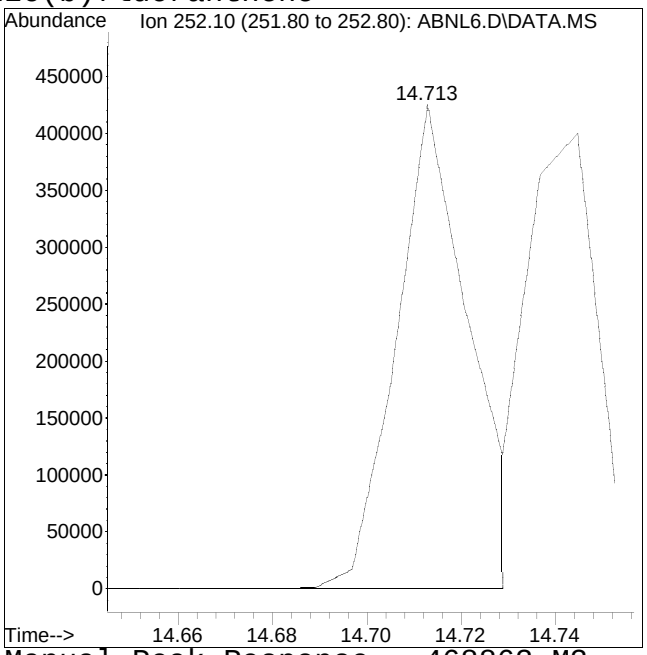
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL6.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 6:01 pm Instrument : SV 106
Sample : IL5,32,,ABNL5 Lot# 11428 Quant Date : 3/12/2025 6:11 am

Compound #110: Benzo(b)fluoranthene





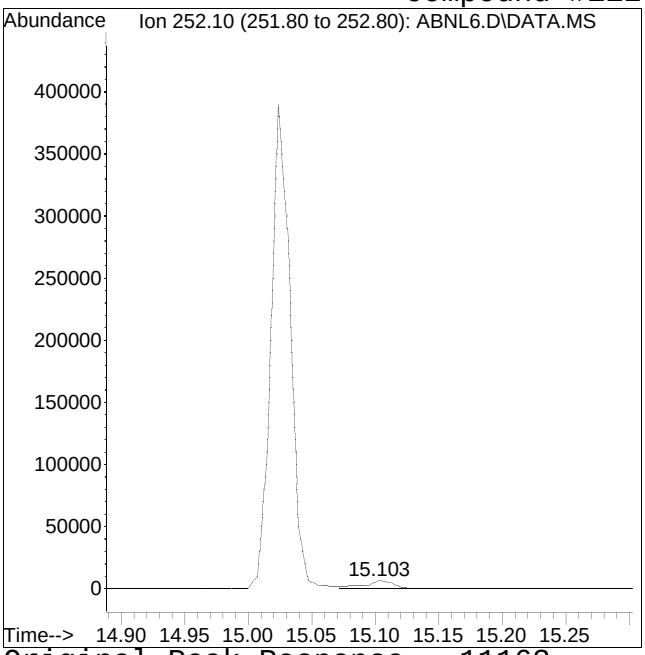
Original Peak Response = 468292 Manual Peak Response = 468863 M3

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

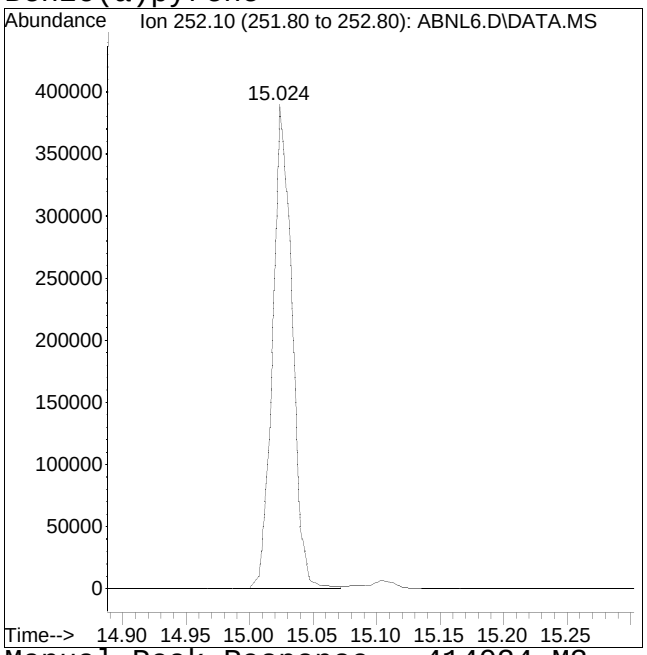
Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL6.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 6:01 pm Instrument : SV 106
Sample : IL5,32,,ABNL5 Lot# 11428 Quant Date : 3/12/2025 6:11 am

Compound #112: Benzo(a)pyrene



Original Peak Response = 11163



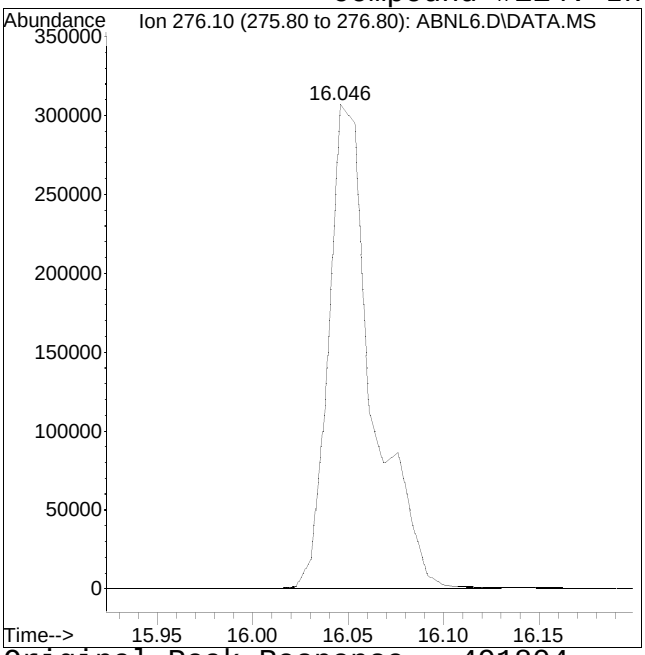
Manual Peak Response = 414024 M3

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

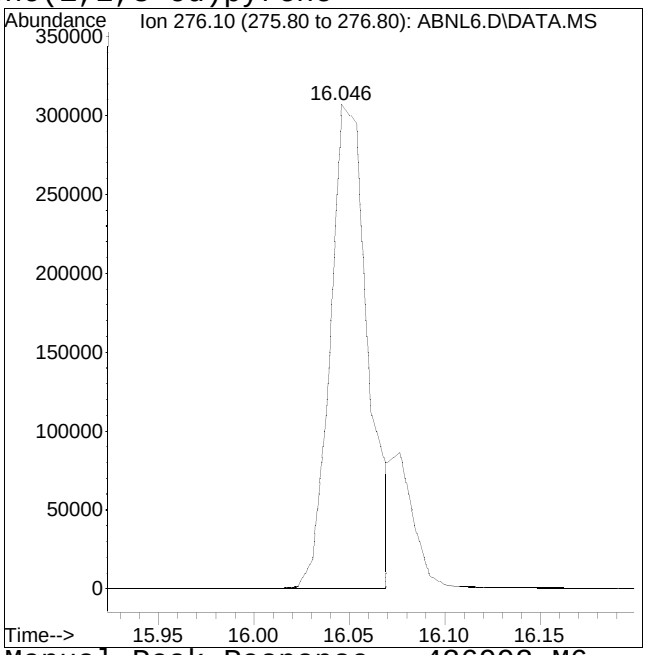
Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL6.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 6:01 pm Instrument : SV 106
Sample : IL5,32,,ABNL5 Lot# 11428 Quant Date : 3/12/2025 6:11 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 491804



Manual Peak Response = 426992 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNL5.D
Acq On : 11 Mar 2025 6:24 pm
Operator : SV106:ljg
Sample : IL6,32,,ABNL2.5 Lot# 11429
Misc : WG2039658,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 12 06:24:57 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 06:11:40 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.351	152	54229	4.000	ug/ml	0.00
Standard Area 1 = 55857			Recovery = 97.09%			
35) IS1_Naphthalene-d8	7.790	136	203265	4.000	ug/ml	# 0.00
Standard Area 1 = 204785			Recovery = 99.26%			
63) IS1_Acenaphthene-d10	9.550	164	133372	4.000	ug/ml	0.00
Standard Area 1 = 132560			Recovery = 100.61%			
88) IS1_Phenanthrene-d10	10.988	188	260949	4.000	ug/ml	0.00
Standard Area 1 = 260564			Recovery = 100.15%			
104) IS1_Chrysene-d12	13.617	240	280704	4.000	ug/ml	0.00
Standard Area 1 = 281321			Recovery = 99.78%			
113) IS1_Perylene-d12	15.079	264	309717	4.000	ug/ml	0.00
Standard Area 1 = 300591			Recovery = 103.04%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.370	112	33936	2.011	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 100.55%			
7) Phenol-d6	5.977	99	41153	2.026	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 101.30%			
19) Nitrobenzene-d5	7.018	82	32658	1.772	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 177.20%#			
46) 2-Fluorobiphenyl	8.911	172	104660	2.225	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 222.50%#			
79) 2,4,6-Tribromophenol	10.321	330	14986	1.986	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 99.30%			
96) 4-Terphenyl-d14	12.576	244	151336	2.161	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 216.10%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.012	74	22406	2.174	ug/ml	85
3) Pyridine	2.069	79	40710	2.464	ug/ml#	77
5) Aniline	5.943	93	54539	2.271	ug/ml	99
6) 2-Chlorophenol	6.087	128	38996	2.107	ug/ml	93
8) Phenol	5.994	94	44989	2.135	ug/ml	100
9) Bis(2-chloroethyl)ether	6.079	93	35573	2.049	ug/ml#	75
10) 1,3-Dichlorobenzene	6.274	146	48056	2.124	ug/ml	95
11) 1,4-Dichlorobenzene	6.376	146	48093	2.087	ug/ml	98
12) 1,2-Dichlorobenzene	6.555	146	45717	2.069	ug/ml	97

Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNL5.D
Acq On : 11 Mar 2025 6:24 pm
Operator : SV106:ljg
Sample : IL6,32,,ABNL2.5 Lot# 11429
Misc : WG2039658,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 12 06:24:57 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 06:11:40 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.572	79	28486	1.982	ug/ml	98
14) Bis(2-chloroisopropyl)...	6.755	45	82914	3.037	ug/ml#	69
15) 2-Methylphenol	6.740	108	41118	2.700	ug/ml	94
16) Hexachloroethane	6.942	117	17003	2.043	ug/ml#	53
17) n-Nitrosodi-n-propylamine	6.897	70	26287	2.062	ug/ml	93
18) 3-Methylphenol/4-Methy...	6.927	108	34182	2.058	ug/ml	96
20) Nitrobenzene	7.040	77	34979	1.858	ug/ml	99
21) Isophorone	7.325	82	71270	2.176	ug/ml	98
22) 2-Nitrophenol	7.401	139	15502	1.605	ug/ml	90
23) 2,4-Dimethylphenol	7.506	107	37138	2.449	ug/ml	97
24) Bis(2-chloroethoxy)met...	7.596	93	50567	2.311	ug/ml	97
25) 2,4-Dichlorophenol	7.660	162	34508	2.036	ug/ml#	93
26) 1,2,4-Trichlorobenzene	7.739	180	43201	2.199	ug/ml	97
36) Naphthalene	7.811	128	120689	2.103	ug/ml	99
37) Benzoic Acid	7.573	105	17661	2.478	ug/ml	95
38) 4-Chloroaniline	7.898	65	15152	2.354	ug/ml	83
39) Hexachlorobutadiene	7.977	225	27695	2.283	ug/ml	99
40) p-Chloro-m-cresol	8.424	107	35352	2.348	ug/ml#	93
41) 2-Methylnaphthalene	8.529	142	72566	1.898	ug/ml	95
42) 1-Methylnaphthalene	8.626	115	27325	2.209	ug/ml	97
43) Hexachlorocyclopentadiene	8.708	237	33270	2.500	ug/ml	96
44) 2,4,6-Trichlorophenol	8.828	196	27812	1.989	ug/ml	97
45) 2,4,5-Trichlorophenol	8.858	196	30025	2.074	ug/ml	95
47) 2-Chloronaphthalene	9.008	162	86205	2.162	ug/ml	96
48) 2-Nitroaniline	9.120	138	18328	1.615	ug/ml	87
49) 1,4-Dinitrobenzene	9.266	168	1483M3	0.256	ug/ml	
50) 1,3-Dinitrobenzene	9.329	168	9721	1.530	ug/ml#	1
51) Dimethyl phthalate	9.329	163	105665	2.274	ug/ml#	99
52) Acenaphthylene	9.403	152	136941	2.304	ug/ml	99
53) 2,6-Dinitrotoluene	9.371	165	17390	1.840	ug/ml#	80
54) 1,2-Dinitrobenzene	9.413	168	7564	1.847	ug/ml#	1
64) 3-Nitroaniline	9.519	138	18077	1.678	ug/ml#	97
65) Acenaphthene	9.582	154	76613	1.986	ug/ml	90
66) 2,4-Dinitrophenol	9.624	184	7926	2.126	ug/ml#	86
67) Dibenzofuran	9.751	168	129001	2.067	ug/ml	90
68) 2,4-Dinitrotoluene	9.761	165	22693	1.624	ug/ml	88
69) 4-Nitrophenol	9.719	65	13363	1.678	ug/ml#	28
70) 2,3,5,6-Tetrachlorophenol	9.842	232	25263	1.941	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNL5.D
Acq On : 11 Mar 2025 6:24 pm
Operator : SV106:ljg
Sample : IL6,32,,ABNL2.5 Lot# 11429
Misc : WG2039658,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 12 06:24:57 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 06:11:40 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71)	2,3,4,6-Tetrachlorophenol	9.884	232	25211	1.962	ug/ml	98
72)	Diethyl phthalate	10.025	149	98339	1.943	ug/ml	98
73)	Fluorene	10.089	166	99246	2.036	ug/ml	94
74)	4-Chlorophenyl phenyl ...	10.110	204	51695	2.066	ug/ml#	86
75)	4-Nitroaniline	10.117	138	17744M6	1.619	ug/ml	
76)	4,6-Dinitro-o-cresol	10.152	198	11231	1.449	ug/ml#	67
77)	NDPA/DPA	10.223	169	88040	2.093	ug/ml	96
78)	Azobenzene	10.258	77	82516	2.008	ug/ml#	90
80)	4-Bromophenyl phenyl e...	10.579	248	32307	2.085	ug/ml#	82
81)	Hexachlorobenzene	10.624	284	37541	2.139	ug/ml#	82
82)	Pentachlorophenol	10.821	266	18957	1.785	ug/ml	96
89)	Phenanthrene	11.010	178	160421	2.095	ug/ml	99
90)	Anthracene	11.063	178	158572	2.077	ug/ml	100
91)	Carbazole	11.230	167	147157	2.141	ug/ml	99
92)	Di-n-butylphthalate	11.624	149	151870	1.765	ug/ml	99
93)	Fluoranthene	12.163	202	187807	2.127	ug/ml#	93
94)	Benzidine	12.323	184	100635	1.988	ug/ml#	94
95)	Pyrene	12.379	202	201578	2.164	ug/ml	98
97)	Butyl benzyl phthalate	13.101	149	56544	1.563	ug/ml	90
105)	Benzo(a)anthracene	13.609	228	195265	2.017	ug/ml	99
106)	3,3'-Dichlorobenzidine	13.617	252	70893	2.230	ug/ml#	96
107)	Chrysene	13.649	228	195499	2.105	ug/ml	99
108)	Bis(2-ethylhexyl)phtha...	13.744	149	94980	1.635	ug/ml	93
109)	Di-n-octylphthalate	14.418	149	140176	1.455	ug/ml#	77
110)	Benzo(b)fluoranthene	14.713	252	220313	2.359	ug/ml#	94
111)	Benzo(k)fluoranthene	14.737	252	183823	2.113	ug/ml#	92
112)	Benzo(a)pyrene	15.024	252	186852M3	2.305	ug/ml	
114)	Indeno(1,2,3-cd)pyrene	16.046	276	189081M6	2.014	ug/mL	
115)	Dibenzo(a,h)anthracene	16.076	278	185569	2.078	ug/ml#	89
116)	Benzo(ghi)perylene	16.291	276	179906	2.152	ug/ml#	86

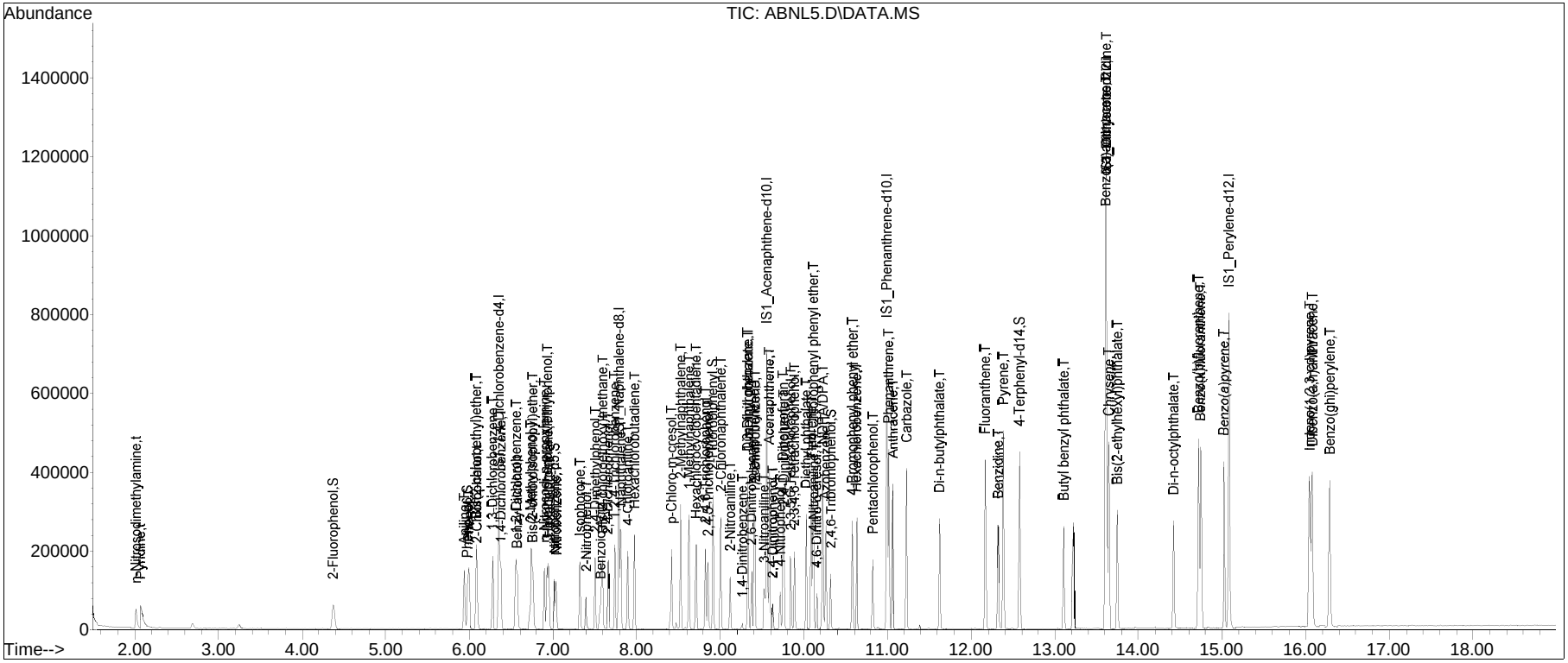
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNL5.D
Acq On : 11 Mar 2025 6:24 pm
Operator : SV106:ljg
Sample : IL6,32,,ABNL2.5 Lot# 11429
Misc : WG2039658,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 12 06:24:57 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 06:11:40 2025
Response via : Initial Calibration

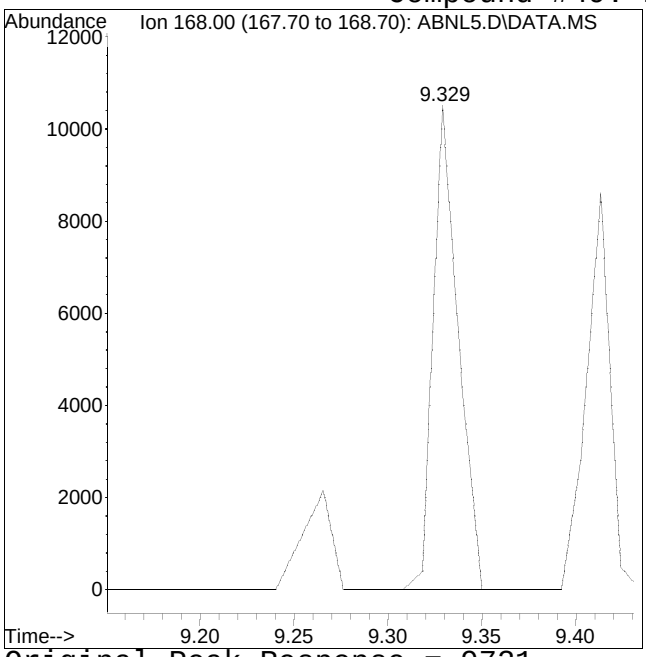
Sub List : ABNical - ABN ical sublistTical\AP9L6.D•



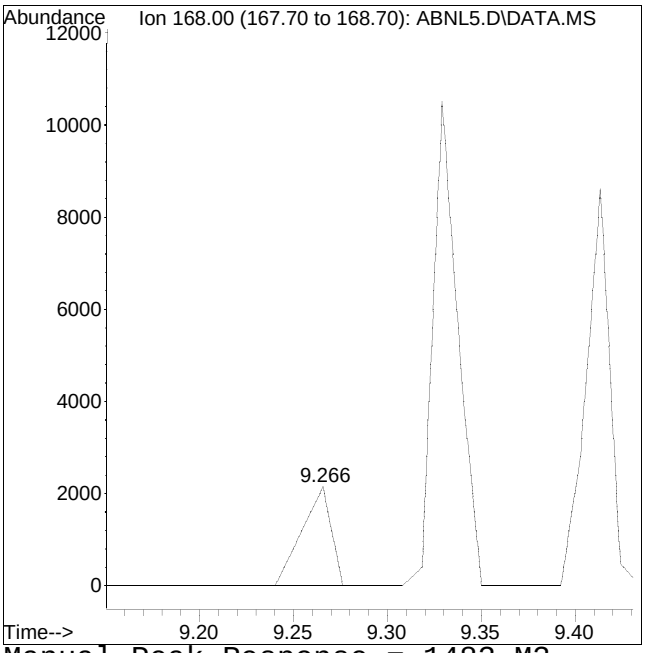
Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL5.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 6:24 pm Instrument : SV 106
Sample : IL6,32,,ABNL2.5 Lot# 11429Quant Date : 3/12/2025 6:14 am

Compound #49: 1,4-Dinitrobenzene



Original Peak Response = 9721



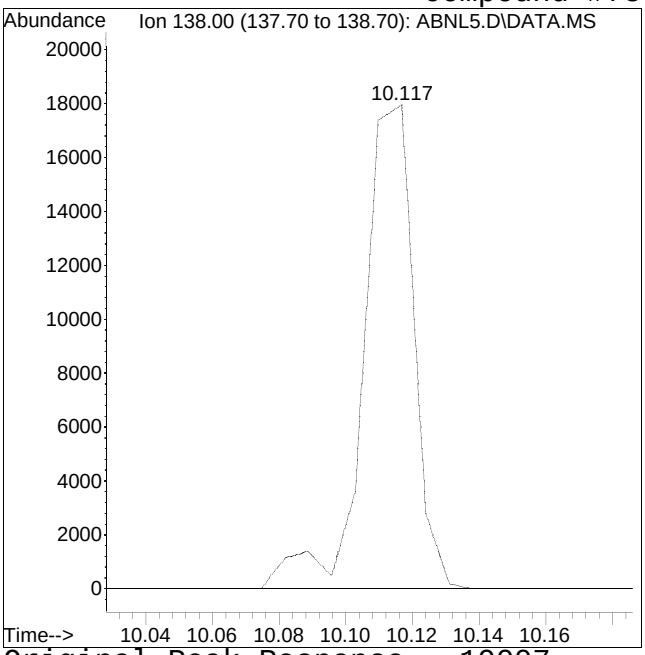
Manual Peak Response = 1483 M3

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

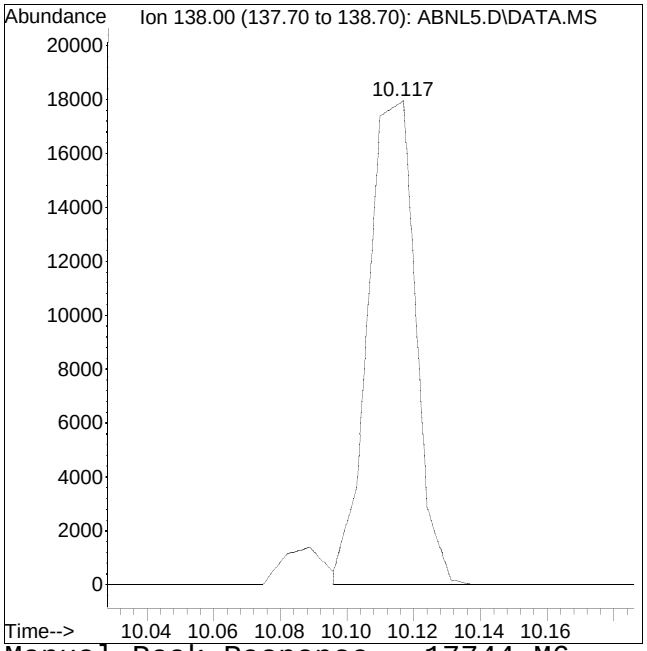
Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL5.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 6:24 pm Instrument : SV 106
Sample : IL6,32,,ABNL2.5 Lot# 11429Quant Date : 3/12/2025 6:14 am

Compound #75: 4-Nitroaniline



Original Peak Response = 19007



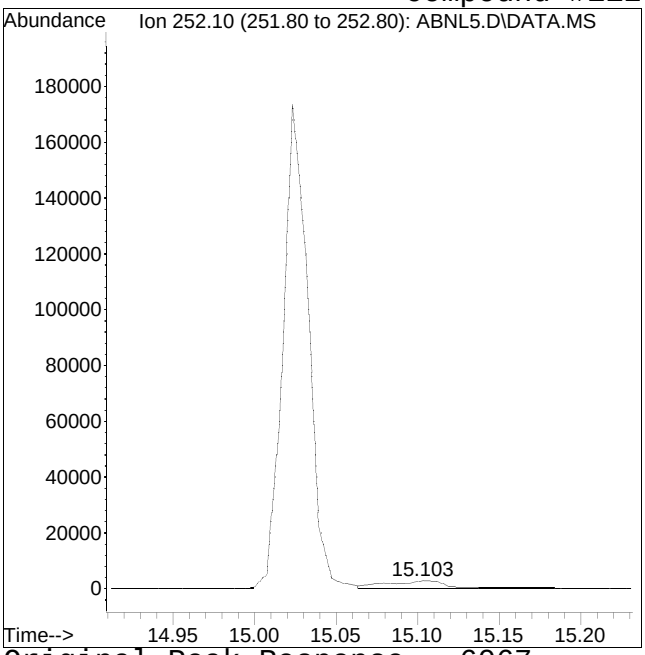
Manual Peak Response = 17744 M6

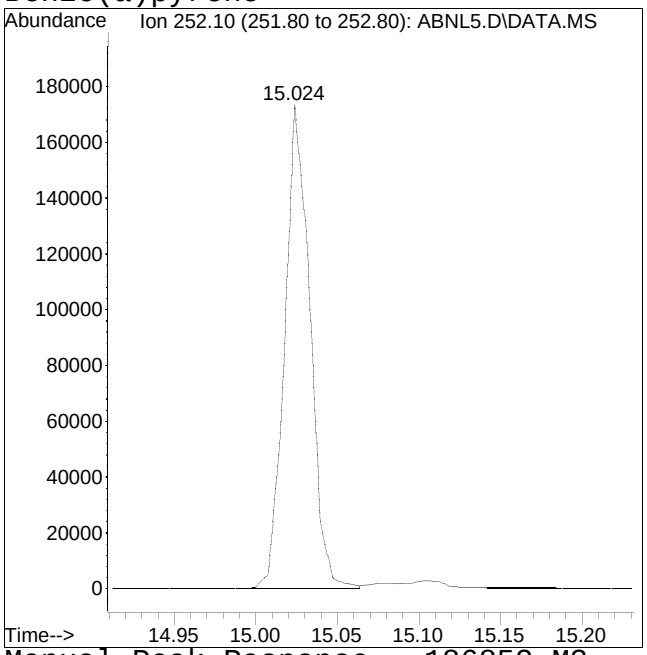
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL5.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 6:24 pm Instrument : SV 106
Sample : IL6,32,,ABNL2.5 Lot# 11429Quant Date : 3/12/2025 6:14 am

Compound #112: Benzo(a)pyrene





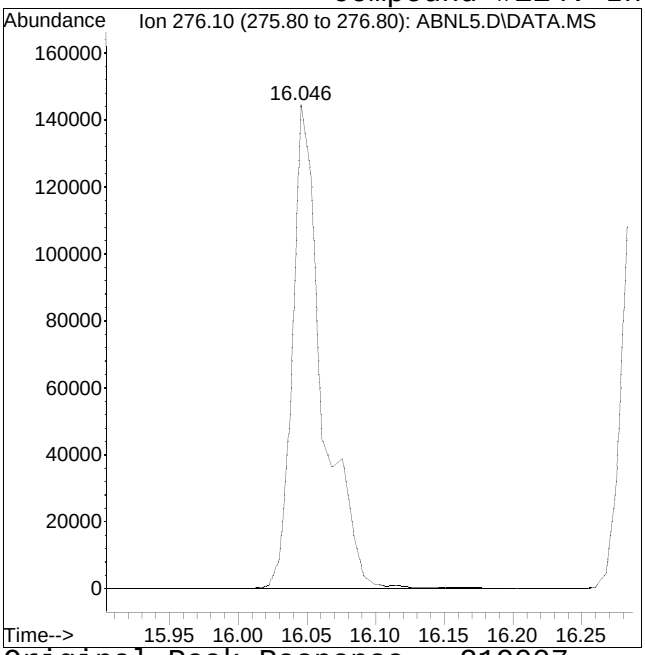
Original Peak Response = 6067 Manual Peak Response = 186852 M3

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

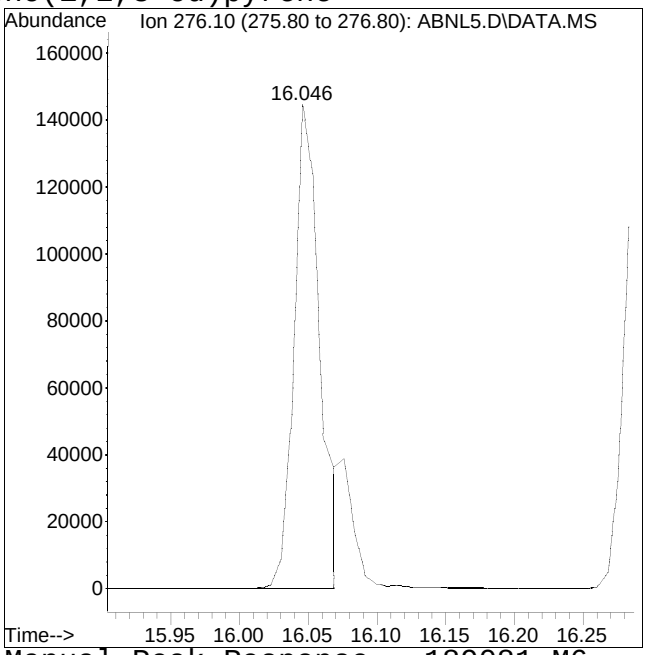
Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL5.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 6:24 pm Instrument : SV 106
Sample : IL6,32,,ABNL2.5 Lot# 11429Quant Date : 3/12/2025 6:14 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 219007



Manual Peak Response = 189081 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNL4.D
Acq On : 11 Mar 2025 6:48 pm
Operator : SV106:ljg
Sample : IL7,32,,ABNL1 Lot# 11430
Misc : WG2039658,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 12 06:23:42 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 06:11:40 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.351	152	53475	4.000	ug/ml	0.00
Standard Area 1 = 55857			Recovery = 95.74%			
35) IS1_Naphthalene-d8	7.790	136	202823	4.000	ug/ml	# 0.00
Standard Area 1 = 204785			Recovery = 99.04%			
63) IS1_Acenaphthene-d10	9.550	164	124543	4.000	ug/ml	0.00
Standard Area 1 = 132560			Recovery = 93.95%			
88) IS1_Phenanthrene-d10	10.988	188	254743	4.000	ug/ml	0.00
Standard Area 1 = 260564			Recovery = 97.77%			
104) IS1_Chrysene-d12	13.617	240	267399	4.000	ug/ml	0.00
Standard Area 1 = 281321			Recovery = 95.05%			
113) IS1_Perylene-d12	15.079	264	292766	4.000	ug/ml	0.00
Standard Area 1 = 300591			Recovery = 97.40%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.370	112	14756	0.887	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 44.35%			
7) Phenol-d6	5.977	99	18449	0.921	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 46.05%			
19) Nitrobenzene-d5	7.017	82	14814	0.815	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 81.50%			
46) 2-Fluorobiphenyl	8.911	172	46826	0.998	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 99.80%			
79) 2,4,6-Tribromophenol	10.321	330	6282	0.892	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 44.60%			
96) 4-Terphenyl-d14	12.576	244	65331	0.956	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 95.60%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.012	74	9644	0.949	ug/ml#	90
3) Pyridine	2.091	79	16528	1.014	ug/ml	82
5) Aniline	5.943	93	24546	1.037	ug/ml	99
6) 2-Chlorophenol	6.087	128	16985	0.931	ug/ml	94
8) Phenol	5.994	94	19653	0.946	ug/ml	97
9) Bis(2-chloroethyl)ether	6.079	93	16744	0.978	ug/ml#	82
10) 1,3-Dichlorobenzene	6.274	146	21232	0.952	ug/ml	95
11) 1,4-Dichlorobenzene	6.368	146	21379	0.941	ug/ml	97
12) 1,2-Dichlorobenzene	6.555	146	20459	0.939	ug/ml	94

Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNL4.D
Acq On : 11 Mar 2025 6:48 pm
Operator : SV106:ljg
Sample : IL7,32,,ABNL1 Lot# 11430
Misc : WG2039658,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 12 06:23:42 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 06:11:40 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
13) Benzyl alcohol	6.572	79	11725	0.827 ug/ml	93
14) Bis(2-chloroisopropyl)...	6.755	45	36440	1.354 ug/ml#	67
15) 2-Methylphenol	6.739	108	17728	1.181 ug/ml	88
16) Hexachloroethane	6.942	117	7600	0.926 ug/ml#	53
17) n-Nitrosodi-n-propylamine	6.897	70	11344	0.903 ug/ml	94
18) 3-Methylphenol/4-Methy...	6.927	108	15394	0.940 ug/ml	98
20) Nitrobenzene	7.040	77	14549	0.784 ug/ml	99
21) Isophorone	7.325	82	30792	0.953 ug/ml	97
22) 2-Nitrophenol	7.401	139	6426	0.675 ug/ml	90
23) 2,4-Dimethylphenol	7.498	107	15643	1.046 ug/ml	93
24) Bis(2-chloroethoxy)met...	7.595	93	22029	1.021 ug/ml	99
25) 2,4-Dichlorophenol	7.660	162	15426	0.923 ug/ml#	94
26) 1,2,4-Trichlorobenzene	7.739	180	19839	1.024 ug/ml	98
36) Naphthalene	7.804	128	55505	0.969 ug/ml	99
37) Benzoic Acid	7.558	105	7191	1.777 ug/ml	95
38) 4-Chloroaniline	7.898	65	6758	1.052 ug/ml	85
39) Hexachlorobutadiene	7.977	225	12349	1.020 ug/ml	99
40) p-Chloro-m-cresol	8.424	107	16047	1.068 ug/ml	92
41) 2-Methylnaphthalene	8.529	142	32602	0.854 ug/ml	96
42) 1-Methylnaphthalene	8.626	115	12062	0.977 ug/ml	93
43) Hexachlorocyclopentadiene	8.708	237	14665	1.104 ug/ml	98
44) 2,4,6-Trichlorophenol	8.828	196	11944	0.856 ug/ml	97
45) 2,4,5-Trichlorophenol	8.858	196	11912	0.825 ug/ml	98
47) 2-Chloronaphthalene	9.008	162	37989	0.955 ug/ml	97
48) 2-Nitroaniline	9.120	138	7378	0.652 ug/ml	91
49) 1,4-Dinitrobenzene	9.266	168	695M3	0.120 ug/ml	
50) 1,3-Dinitrobenzene	9.329	168	3721	0.587 ug/ml#	1
51) Dimethyl phthalate	9.329	163	45710	0.986 ug/ml#	99
52) Acenaphthylene	9.403	152	58813	0.992 ug/ml	99
53) 2,6-Dinitrotoluene	9.371	165	7288	0.773 ug/ml#	75
54) 1,2-Dinitrobenzene	9.413	168	2647	0.648 ug/ml#	1
64) 3-Nitroaniline	9.519	138	7075	0.703 ug/ml#	87
65) Acenaphthene	9.582	154	34236	0.950 ug/ml	90
66) 2,4-Dinitrophenol	9.624	184	3071	1.581 ug/ml	91
67) Dibenzofuran	9.751	168	59661	1.024 ug/ml	93
68) 2,4-Dinitrotoluene	9.761	165	8903	0.682 ug/ml	89
69) 4-Nitrophenol	9.719	65	5559	0.747 ug/ml#	34
70) 2,3,5,6-Tetrachlorophenol	9.849	232	10386	0.854 ug/ml	95

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNL4.D
Acq On : 11 Mar 2025 6:48 pm
Operator : SV106:ljg
Sample : IL7,32,,ABNL1 Lot# 11430
Misc : WG2039658,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 12 06:23:42 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 06:11:40 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71)	2,3,4,6-Tetrachlorophenol	9.884	232	10391	0.866	ug/ml	97
72)	Diethyl phthalate	10.025	149	42533	0.900	ug/ml	98
73)	Fluorene	10.089	166	44259	0.972	ug/ml	94
74)	4-Chlorophenyl phenyl ...	10.110	204	23260	0.996	ug/ml#	87
75)	4-Nitroaniline	10.110	138	7418	0.725	ug/ml	89
76)	4,6-Dinitro-o-cresol	10.152	198	4129	0.778	ug/ml#	74
77)	NDPA/DPA	10.223	169	37114	0.945	ug/ml	94
78)	Azobenzene	10.258	77	35766	0.932	ug/ml#	90
80)	4-Bromophenyl phenyl e...	10.579	248	14376	0.993	ug/ml#	82
81)	Hexachlorobenzene	10.624	284	16882	1.030	ug/ml#	82
82)	Pentachlorophenol	10.821	266	7387	0.745	ug/ml	95
89)	Phenanthrene	11.010	178	71956	0.963	ug/ml	99
90)	Anthracene	11.063	178	68990	0.926	ug/ml	100
91)	Carbazole	11.230	167	63223	0.942	ug/ml	97
92)	Di-n-butylphthalate	11.624	149	62160	0.740	ug/ml	99
93)	Fluoranthene	12.163	202	80262	0.931	ug/ml#	93
94)	Benzidine	12.322	184	36898	0.747	ug/ml#	94
95)	Pyrene	12.379	202	86985	0.957	ug/ml	99
97)	Butyl benzyl phthalate	13.101	149	21312	0.603	ug/ml	90
105)	Benzo(a)anthracene	13.609	228	81287	0.882	ug/ml	98
106)	3,3'-Dichlorobenzidine	13.609	252	27345	0.903	ug/ml#	96
107)	Chrysene	13.641	228	84840	0.959	ug/ml	99
108)	Bis(2-ethylhexyl)phtha...	13.744	149	33606	0.607	ug/ml	96
109)	Di-n-octylphthalate	14.418	149	50346	0.548	ug/ml#	80
110)	Benzo(b)fluoranthene	14.713	252	96705	1.087	ug/ml#	88
111)	Benzo(k)fluoranthene	14.737	252	73904	0.892	ug/ml#	89
112)	Benzo(a)pyrene	15.024	252	76360	0.989	ug/ml#	93
114)	Indeno(1,2,3-cd)pyrene	16.046	276	73157M6	0.824	ug/mL	
115)	Dibenzo(a,h)anthracene	16.069	278	78578	0.931	ug/ml#	88
116)	Benzo(ghi)perylene	16.283	276	78721	0.996	ug/ml#	85

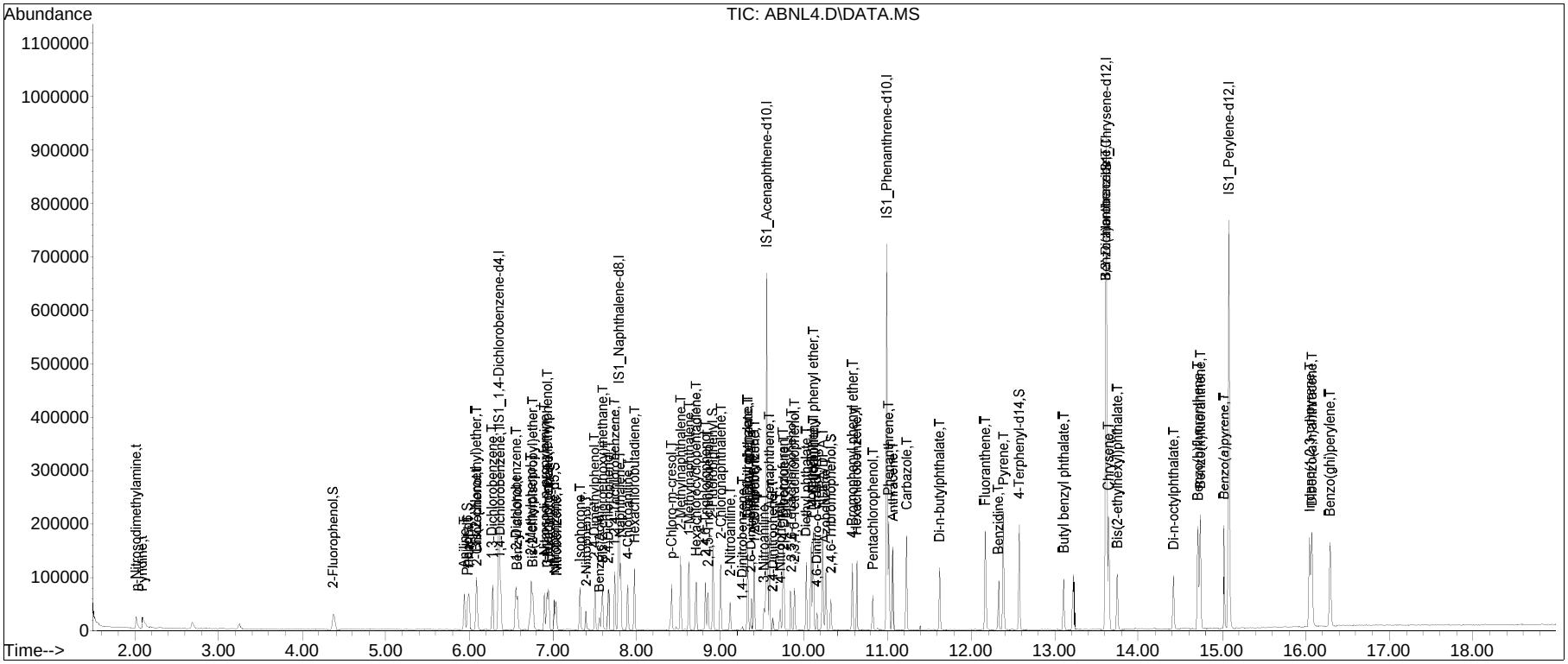
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNL4.D
Acq On : 11 Mar 2025 6:48 pm
Operator : SV106:ljg
Sample : IL7,32,,ABNL1 Lot# 11430
Misc : WG2039658,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 12 06:23:42 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 06:11:40 2025
Response via : Initial Calibration

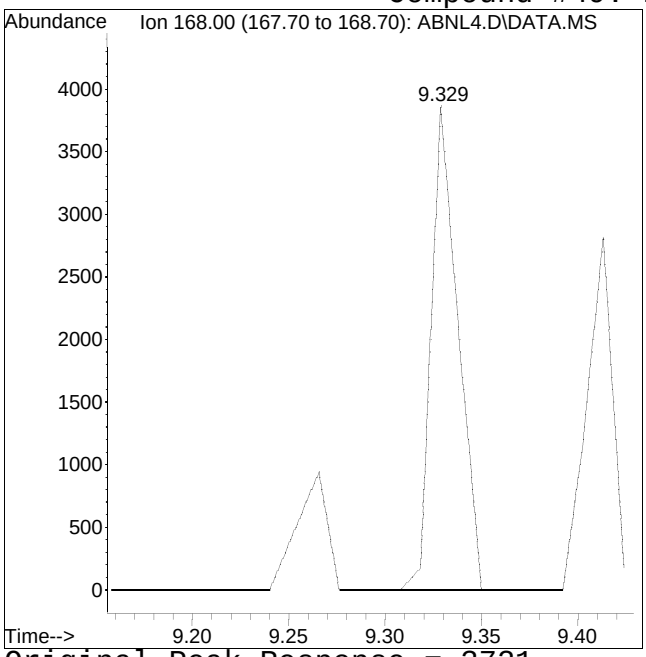
Sub List : ABNical - ABN ical sublistTical\AP9L6.D•

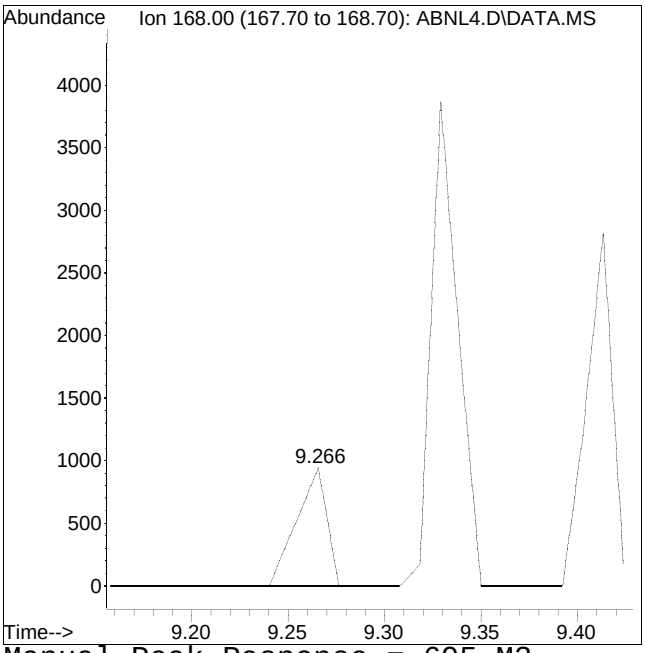


Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL4.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 6:48 pm Instrument : SV 106
Sample : IL7,32,,ABNL1 Lot# 11430 Quant Date : 3/12/2025 6:14 am

Compound #49: 1,4-Dinitrobenzene





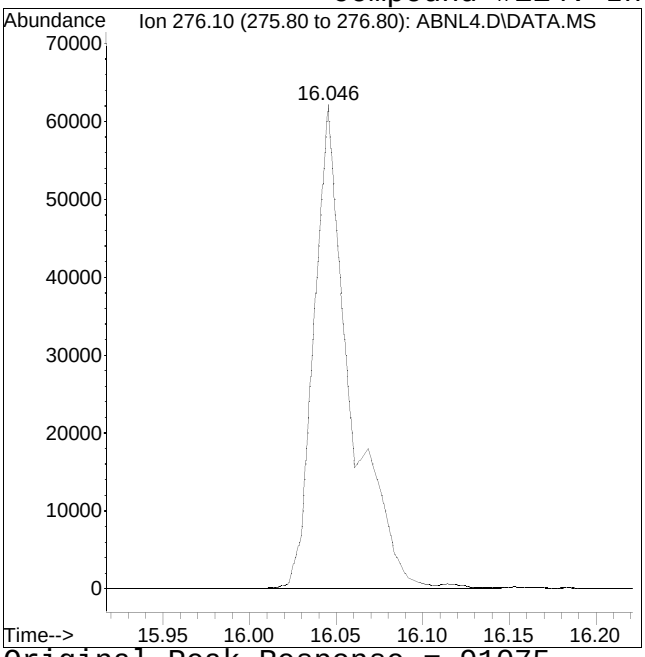
Original Peak Response = 3721 Manual Peak Response = 695 M3

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

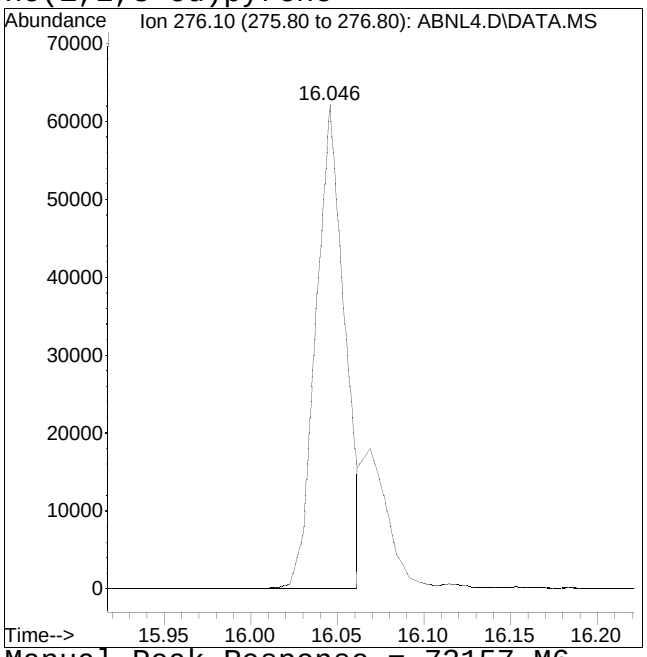
Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL4.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 6:48 pm Instrument : SV 106
Sample : IL7,32,,ABNL1 Lot# 11430 Quant Date : 3/12/2025 6:14 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 91075



Manual Peak Response = 73157 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNL3.D
Acq On : 11 Mar 2025 7:11 pm
Operator : SV106:ljg
Sample : IL8,32,,ABNL0.5 Lot# 11431
Misc : WG2039658,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 12 06:22:46 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 06:11:40 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.351	152	56768	4.000	ug/ml	0.00
Standard Area 1 = 55857			Recovery = 101.63%			
35) IS1_Naphthalene-d8	7.790	136	206416	4.000	ug/ml	# 0.00
Standard Area 1 = 204785			Recovery = 100.80%			
63) IS1_Acenaphthene-d10	9.550	164	129170	4.000	ug/ml	0.00
Standard Area 1 = 132560			Recovery = 97.44%			
88) IS1_Phenanthrene-d10	10.988	188	261176	4.000	ug/ml	0.00
Standard Area 1 = 260564			Recovery = 100.23%			
104) IS1_Chrysene-d12	13.617	240	273347	4.000	ug/ml	0.00
Standard Area 1 = 281321			Recovery = 97.17%			
113) IS1_Perylene-d12	15.079	264	292012	4.000	ug/ml	0.00
Standard Area 1 = 300591			Recovery = 97.15%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.377	112	8605	0.487	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 24.35%			
7) Phenol-d6	5.985	99	10059	0.473	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 23.65%			
19) Nitrobenzene-d5	7.018	82	7977	0.414	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 41.40%			
46) 2-Fluorobiphenyl	8.911	172	26250	0.549	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 54.90%			
79) 2,4,6-Tribromophenol	10.321	330	3362	0.460	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 23.00%			
96) 4-Terphenyl-d14	12.576	244	36870	0.526	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 52.60%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.026	74	5717	0.530	ug/ml#	91
3) Pyridine	2.112	79	10850M1	0.627	ug/ml	
5) Aniline	5.943	93	13620	0.542	ug/ml	97
6) 2-Chlorophenol	6.087	128	9341	0.482	ug/ml	94
8) Phenol	5.994	94	10999	0.499	ug/ml	99
9) Bis(2-chloroethyl)ether	6.079	93	9284	0.511	ug/ml#	78
10) 1,3-Dichlorobenzene	6.274	146	12313	0.520	ug/ml	97
11) 1,4-Dichlorobenzene	6.376	146	12376	0.513	ug/ml	99
12) 1,2-Dichlorobenzene	6.555	146	12396	0.536	ug/ml	93

Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNL3.D
Acq On : 11 Mar 2025 7:11 pm
Operator : SV106:ljg
Sample : IL8,32,,ABNL0.5 Lot# 11431
Misc : WG2039658,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 12 06:22:46 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 06:11:40 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.572	79	6554	0.436	ug/ml	97
14) Bis(2-chloroisopropyl)...	6.755	45	22270	0.779	ug/ml#	72
15) 2-Methylphenol	6.740	108	10300	0.646	ug/ml	91
16) Hexachloroethane	6.942	117	3941	0.452	ug/ml#	47
17) n-Nitrosodi-n-propylamine	6.897	70	6527	0.489	ug/ml#	85
18) 3-Methylphenol/4-Methy...	6.927	108	8045	0.463	ug/ml	94
20) Nitrobenzene	7.040	77	7841	0.398	ug/ml	97
21) Isophorone	7.325	82	17496	0.510	ug/ml	98
22) 2-Nitrophenol	7.401	139	3677	0.364	ug/ml	90
23) 2,4-Dimethylphenol	7.506	107	8665	0.546	ug/ml	97
24) Bis(2-chloroethoxy)met...	7.596	93	13281	0.580	ug/ml#	98
25) 2,4-Dichlorophenol	7.660	162	8010	0.452	ug/ml	90
26) 1,2,4-Trichlorobenzene	7.739	180	11248	0.547	ug/ml	95
36) Naphthalene	7.804	128	30818	0.529	ug/ml	99
37) Benzoic Acid	7.558	105	3715	1.539	ug/ml	97
38) 4-Chloroaniline	7.898	65	3476	0.532	ug/ml#	77
39) Hexachlorobutadiene	7.977	225	6885	0.559	ug/ml	98
40) p-Chloro-m-cresol	8.424	107	8955	0.586	ug/ml	96
41) 2-Methylnaphthalene	8.529	142	18288	0.471	ug/ml	98
42) 1-Methylnaphthalene	8.626	115	7282	0.580	ug/ml	92
43) Hexachlorocyclopentadiene	8.708	237	8140	0.602	ug/ml	94
44) 2,4,6-Trichlorophenol	8.828	196	6438	0.453	ug/ml	94
45) 2,4,5-Trichlorophenol	8.858	196	5999	0.408	ug/ml	98
47) 2-Chloronaphthalene	9.008	162	21654	0.535	ug/ml	95
48) 2-Nitroaniline	9.120	138	3851	0.334	ug/ml	92
49) 1,4-Dinitrobenzene	9.266	168	286M3	0.049	ug/ml	
50) 1,3-Dinitrobenzene	9.329	168	2083	0.323	ug/ml#	1
51) Dimethyl phthalate	9.329	163	24657	0.522	ug/ml#	96
52) Acenaphthylene	9.403	152	32837	0.544	ug/ml	99
53) 2,6-Dinitrotoluene	9.371	165	3640	0.379	ug/ml#	78
54) 1,2-Dinitrobenzene	9.413	168	1331	0.320	ug/ml#	1
64) 3-Nitroaniline	9.519	138	3348	0.321	ug/ml#	64
65) Acenaphthene	9.582	154	18780	0.503	ug/ml	89
66) 2,4-Dinitrophenol	9.624	184	1538	1.381	ug/ml#	60
67) Dibenzofuran	9.751	168	33741	0.558	ug/ml	93
68) 2,4-Dinitrotoluene	9.761	165	4190	0.310	ug/ml#	74
69) 4-Nitrophenol	9.719	65	2869	0.372	ug/ml#	1
70) 2,3,5,6-Tetrachlorophenol	9.842	232	5851	0.464	ug/ml	92

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNL3.D
Acq On : 11 Mar 2025 7:11 pm
Operator : SV106:ljg
Sample : IL8,32,,ABNL0.5 Lot# 11431
Misc : WG2039658,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 12 06:22:46 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 06:11:40 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71)	2,3,4,6-Tetrachlorophenol	9.884	232	5525	0.444	ug/ml	98
72)	Diethyl phthalate	10.025	149	23409	0.478	ug/ml	97
73)	Fluorene	10.089	166	24293	0.515	ug/ml	93
74)	4-Chlorophenyl phenyl ...	10.110	204	13304	0.549	ug/ml#	87
75)	4-Nitroaniline	10.110	138	3664	0.345	ug/ml	90
76)	4,6-Dinitro-o-cresol	10.152	198	2275	0.574	ug/ml#	74
77)	NDPA/DPA	10.223	169	20258	0.497	ug/ml	92
78)	Azobenzene	10.258	77	19388	0.487	ug/ml#	90
80)	4-Bromophenyl phenyl e...	10.579	248	8102	0.540	ug/ml#	80
81)	Hexachlorobenzene	10.624	284	10638	0.626	ug/ml#	78
82)	Pentachlorophenol	10.821	266	3967	0.386	ug/ml	95
89)	Phenanthrene	11.010	178	40108	0.523	ug/ml	99
90)	Anthracene	11.056	178	39771	0.520	ug/ml	99
91)	Carbazole	11.230	167	34443	0.501	ug/ml	97
92)	Di-n-butylphthalate	11.624	149	34005	0.395	ug/ml	99
93)	Fluoranthene	12.163	202	45315	0.513	ug/ml#	93
94)	Benzidine	12.323	184	16881	0.333	ug/ml#	93
95)	Pyrene	12.379	202	48506	0.520	ug/ml	99
97)	Butyl benzyl phthalate	13.101	149	11761	0.325	ug/ml	92
105)	Benzo(a)anthracene	13.610	228	46327	0.492	ug/ml	98
106)	3,3'-Dichlorobenzidine	13.610	252	13986	0.452	ug/ml	99
107)	Chrysene	13.641	228	50130	0.554	ug/ml	99
108)	Bis(2-ethylhexyl)phtha...	13.736	149	18181	0.321	ug/ml	95
109)	Di-n-octylphthalate	14.418	149	26903	0.287	ug/ml#	81
110)	Benzo(b)fluoranthene	14.713	252	45567	0.501	ug/ml#	94
111)	Benzo(k)fluoranthene	14.737	252	48838	0.576	ug/ml#	93
112)	Benzo(a)pyrene	15.024	252	41546	0.526	ug/ml#	94
114)	Indeno(1,2,3-cd)pyrene	16.046	276	39000M6	0.441	ug/mL	
115)	Dibenzo(a,h)anthracene	16.069	278	40856	0.485	ug/ml#	89
116)	Benzo(ghi)perylene	16.283	276	40710	0.516	ug/ml#	85

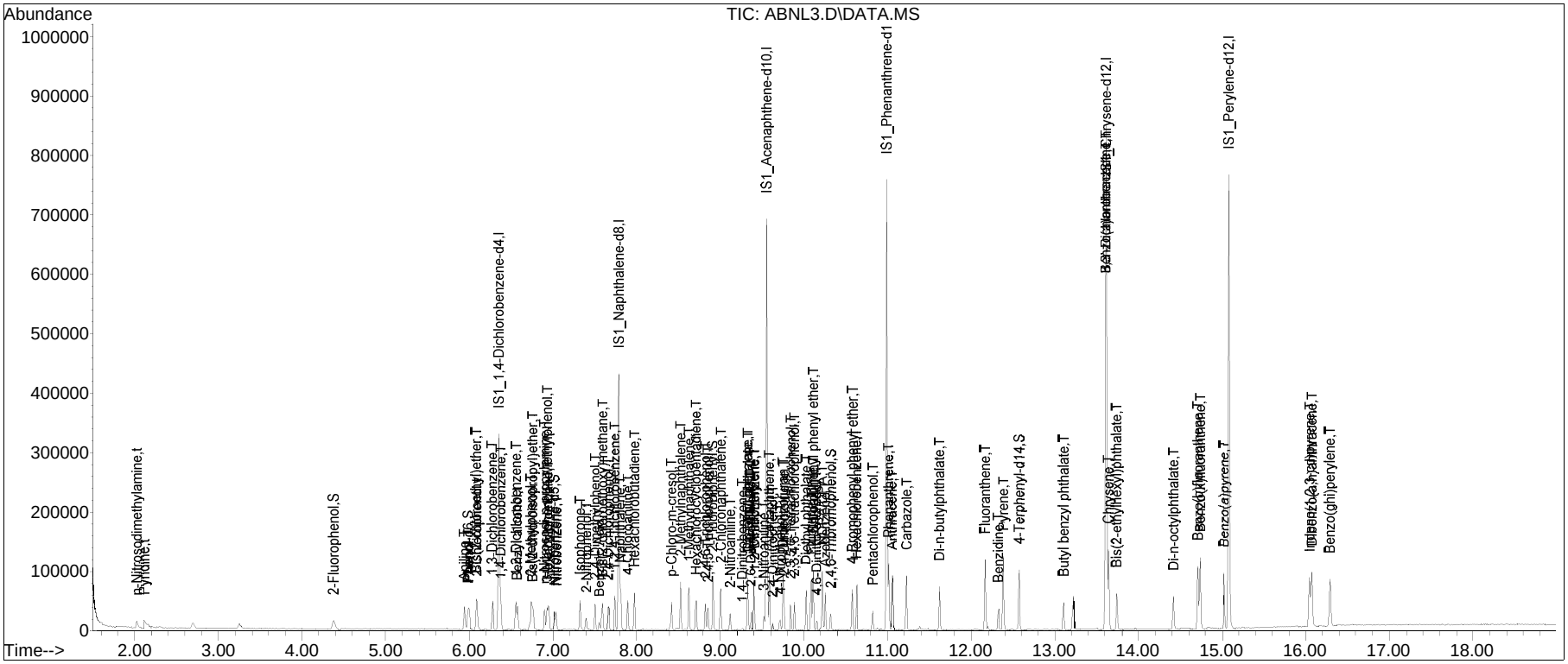
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNL3.D
Acq On : 11 Mar 2025 7:11 pm
Operator : SV106:ljg
Sample : IL8,32,,ABNL0.5 Lot# 11431
Misc : WG2039658,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 12 06:22:46 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 06:11:40 2025
Response via : Initial Calibration

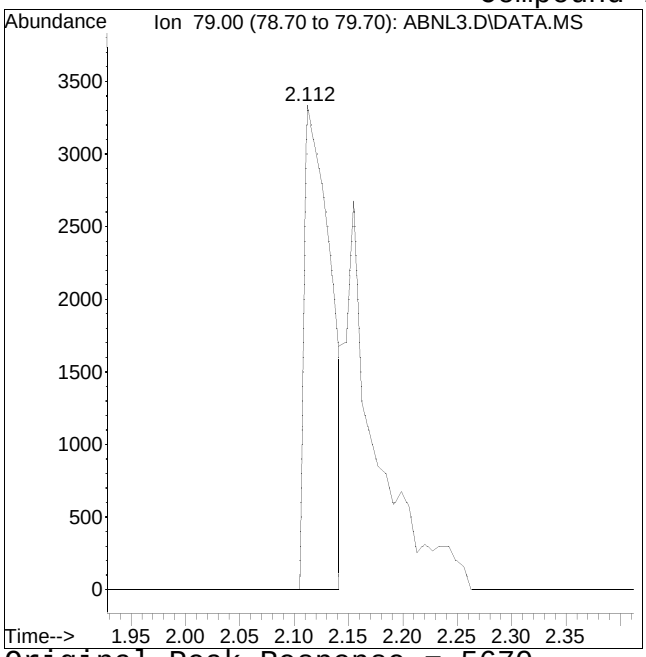
Sub List : ABNical - ABN ical sublistTical\AP9L6.D•



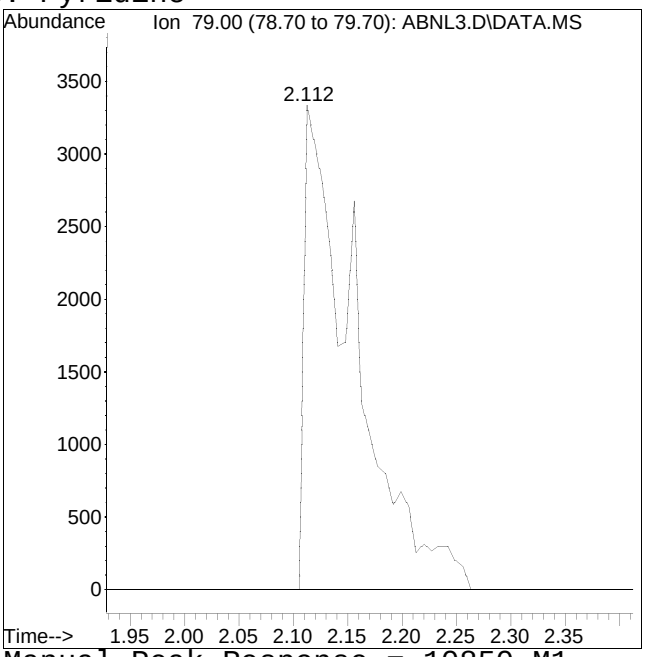
Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL3.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 7:11 pm Instrument : SV 106
Sample : IL8,32,,ABNL0.5 Lot# 11431Quant Date : 3/12/2025 6:14 am

Compound #3: Pyridine



Original Peak Response = 5670



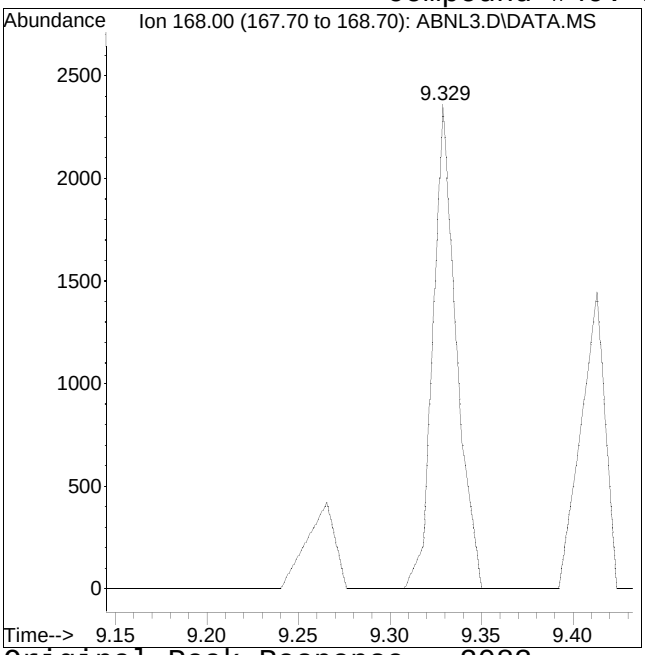
Manual Peak Response = 10850 M1

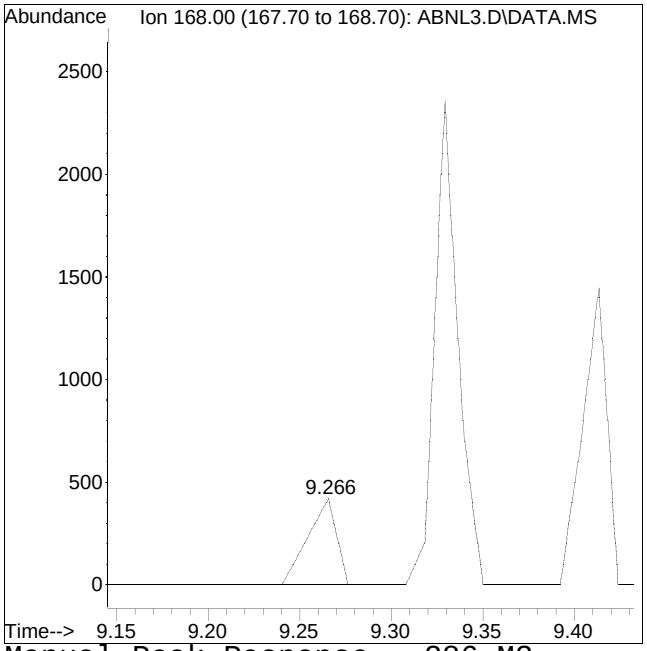
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL3.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 7:11 pm Instrument : SV 106
Sample : IL8,32,,ABNL0.5 Lot# 11431Quant Date : 3/12/2025 6:14 am

Compound #49: 1,4-Dinitrobenzene





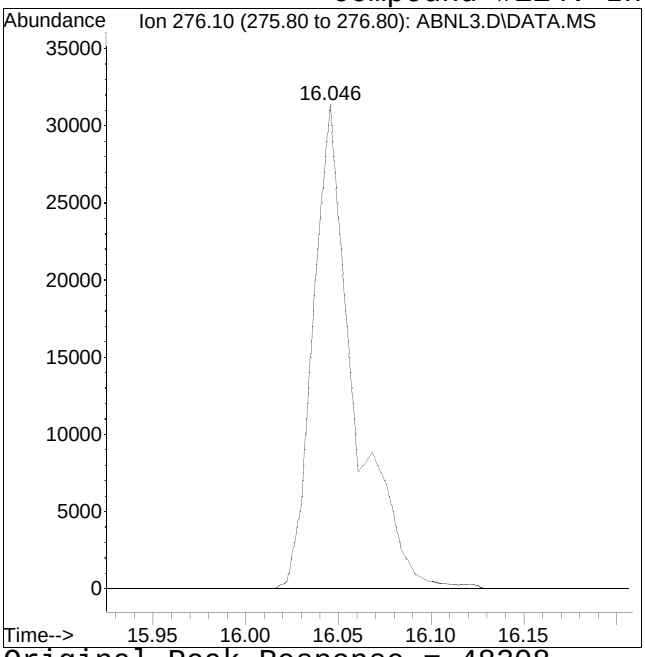
Original Peak Response = 2083 Manual Peak Response = 286 M3

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

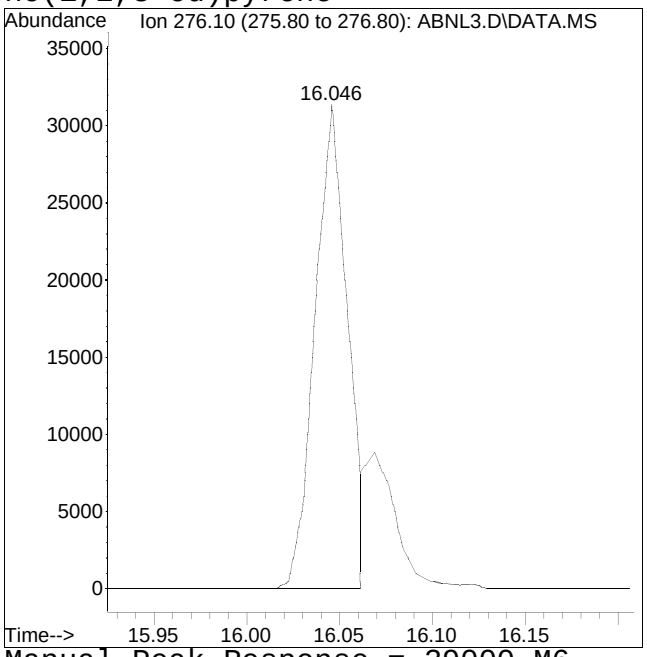
Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL3.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 7:11 pm Instrument : SV 106
Sample : IL8,32,,ABNL0.5 Lot# 11431Quant Date : 3/12/2025 6:14 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 48308



Manual Peak Response = 39000 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNL2.D
Acq On : 11 Mar 2025 7:34 pm
Operator : SV106:ljg
Sample : IL9,32,,ABNL0.2 Lot# 11432
Misc : WG2039658,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 12 06:21:39 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 06:11:40 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.351	152	53891	4.000	ug/ml	0.00
Standard Area 1 = 55857			Recovery = 96.48%			
35) IS1_Naphthalene-d8	7.790	136	195073	4.000	ug/ml	# 0.00
Standard Area 1 = 204785			Recovery = 95.26%			
63) IS1_Acenaphthene-d10	9.551	164	120815	4.000	ug/ml	0.00
Standard Area 1 = 132560			Recovery = 91.14%			
88) IS1_Phenanthrene-d10	10.988	188	241512	4.000	ug/ml	0.00
Standard Area 1 = 260564			Recovery = 92.69%			
104) IS1_Chrysene-d12	13.618	240	246822	4.000	ug/ml	0.00
Standard Area 1 = 281321			Recovery = 87.74%			
113) IS1_Perylene-d12	15.080	264	268265	4.000	ug/ml	0.00
Standard Area 1 = 300591			Recovery = 89.25%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.377	112	2881	0.172	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 8.60%#			
7) Phenol-d6	5.977	99	3219	0.160	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 8.00%#			
19) Nitrobenzene-d5	7.018	82	2618	0.143	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 14.30%#			
46) 2-Fluorobiphenyl	8.911	172	8991	0.199	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 19.90%#			
79) 2,4,6-Tribromophenol	10.322	330	991	0.145	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 7.25%#			
96) 4-Terphenyl-d14	12.576	244	12609	0.195	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 19.50%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.026	74	1723	0.168	ug/ml#	88
3) Pyridine	2.141	79	2944	0.179	ug/ml	98
5) Aniline	5.943	93	3970	0.166	ug/ml	96
6) 2-Chlorophenol	6.088	128	3052	0.166	ug/ml	92
8) Phenol	5.994	94	3640	0.174	ug/ml	91
9) Bis(2-chloroethyl)ether	6.079	93	2916	0.169	ug/ml#	75
10) 1,3-Dichlorobenzene	6.274	146	3922	0.174	ug/ml	93
11) 1,4-Dichlorobenzene	6.368	146	4232M3	0.185	ug/ml	
12) 1,2-Dichlorobenzene	6.555	146	4309	0.196	ug/ml	92

Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNL2.D
Acq On : 11 Mar 2025 7:34 pm
Operator : SV106:ljg
Sample : IL9,32,,ABNL0.2 Lot# 11432
Misc : WG2039658,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 12 06:21:39 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 06:11:40 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
13) Benzyl alcohol	6.572	79	2115	0.148 ug/ml	98
14) Bis(2-chloroisopropyl)...	6.755	45	7357	0.271 ug/ml#	74
15) 2-Methylphenol	6.740	108	3260	0.215 ug/ml#	89
16) Hexachloroethane	6.942	117	1462	0.177 ug/ml#	59
17) n-Nitrosodi-n-propylamine	6.905	70	2061	0.163 ug/ml#	59
18) 3-Methylphenol/4-Methy...	6.927	108	2734	0.166 ug/ml#	97
20) Nitrobenzene	7.040	77	2740	0.146 ug/ml#	84
21) Isophorone	7.326	82	5492	0.169 ug/ml#	93
22) 2-Nitrophenol	7.401	139	1078	0.112 ug/ml#	81
23) 2,4-Dimethylphenol	7.498	107	2852	0.189 ug/ml	91
24) Bis(2-chloroethoxy)met...	7.596	93	4429	0.204 ug/ml#	87
25) 2,4-Dichlorophenol	7.660	162	2842	0.169 ug/ml#	93
26) 1,2,4-Trichlorobenzene	7.740	180	4103	0.210 ug/ml	93
36) Naphthalene	7.804	128	10315	0.187 ug/ml	98
37) Benzoic Acid	7.558	105	996	1.364 ug/ml#	49
38) 4-Chloroaniline	7.898	65	1298	0.210 ug/ml#	85
39) Hexachlorobutadiene	7.977	225	2316	0.199 ug/ml	90
40) p-Chloro-m-cresol	8.424	107	3265	0.226 ug/ml	93
41) 2-Methylnaphthalene	8.529	142	5962	0.162 ug/ml	91
42) 1-Methylnaphthalene	8.619	115	2560	0.216 ug/ml	88
43) Hexachlorocyclopentadiene	8.709	237	2688	0.210 ug/ml#	94
44) 2,4,6-Trichlorophenol	8.828	196	2186	0.163 ug/ml	99
45) 2,4,5-Trichlorophenol	8.858	196	2087	0.150 ug/ml	95
47) 2-Chloronaphthalene	9.008	162	7024	0.184 ug/ml	95
48) 2-Nitroaniline	9.121	138	1349	0.124 ug/ml	88
49) 1,4-Dinitrobenzene	9.266	168	137M3	0.025 ug/ml	
50) 1,3-Dinitrobenzene	9.329	168	645	0.106 ug/ml#	1
51) Dimethyl phthalate	9.329	163	8707	0.195 ug/ml#	94
52) Acenaphthylene	9.403	152	11483	0.201 ug/ml	99
53) 2,6-Dinitrotoluene	9.371	165	1069	0.118 ug/ml#	84
54) 1,2-Dinitrobenzene	9.414	168	452M3	0.115 ug/ml	
64) 3-Nitroaniline	9.519	138	1116	0.114 ug/ml#	8
65) Acenaphthene	9.582	154	7199	0.206 ug/ml	97
66) 2,4-Dinitrophenol	9.624	184	453M2	1.253 ug/ml	
67) Dibenzofuran	9.751	168	11345	0.201 ug/ml	95
68) 2,4-Dinitrotoluene	9.761	165	1526	0.121 ug/ml	91
69) 4-Nitrophenol	9.719	65	802	0.111 ug/ml#	1
70) 2,3,5,6-Tetrachlorophenol	9.842	232	1709	0.145 ug/ml	94

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNL2.D
Acq On : 11 Mar 2025 7:34 pm
Operator : SV106:ljg
Sample : IL9,32,,ABNL0.2 Lot# 11432
Misc : WG2039658,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 12 06:21:39 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 06:11:40 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) 2,3,4,6-Tetrachlorophenol	9.884	232	1630	0.140	ug/ml	91
72) Diethyl phthalate	10.025	149	8034	0.175	ug/ml	98
73) Fluorene	10.082	166	8807	0.199	ug/ml	99
74) 4-Chlorophenyl phenyl ...	10.110	204	4689	0.207	ug/ml#	84
75) 4-Nitroaniline	10.110	138	1132	0.114	ug/ml	96
76) 4,6-Dinitro-o-cresol	10.152	198	708	0.419	ug/ml#	1
77) NDPA/DPA	10.223	169	6818	0.179	ug/ml	92
78) Azobenzene	10.258	77	6249	0.168	ug/ml#	86
80) 4-Bromophenyl phenyl e...	10.579	248	2810	0.200	ug/ml#	77
81) Hexachlorobenzene	10.624	284	3625	0.228	ug/ml#	78
82) Pentachlorophenol	10.821	266	1195	0.124	ug/ml	96
89) Phenanthrene	11.011	178	14503	0.205	ug/ml	98
90) Anthracene	11.056	178	13619	0.193	ug/ml	100
91) Carbazole	11.230	167	11418	0.179	ug/ml	96
92) Di-n-butylphthalate	11.624	149	10617	0.133	ug/ml#	92
93) Fluoranthene	12.163	202	15327	0.188	ug/ml#	93
94) Benzidine	12.323	184	2662	0.057	ug/ml#	68
95) Pyrene	12.379	202	15850	0.184	ug/ml	99
97) Butyl benzyl phthalate	13.101	149	3705	0.111	ug/ml	89
105) Benzo(a)anthracene	13.610	228	15401	0.181	ug/ml	97
106) 3,3'-Dichlorobenzidine	13.610	252	4031	0.144	ug/ml#	94
107) Chrysene	13.641	228	16544	0.203	ug/ml	97
108) Bis(2-ethylhexyl)phtha...	13.736	149	5363	0.105	ug/ml#	98
109) Di-n-octylphthalate	14.418	149	8598	0.101	ug/ml#	93
110) Benzo(b)fluoranthene	14.713	252	14819	0.180	ug/ml	99
111) Benzo(k)fluoranthene	14.737	252	15180M3	0.198	ug/ml	
112) Benzo(a)pyrene	15.024	252	13140	0.184	ug/ml#	95
114) Indeno(1,2,3-cd)pyrene	16.046	276	13369M6	0.164	ug/mL	
115) Dibenzo(a,h)anthracene	16.069	278	12895	0.167	ug/ml	98
116) Benzo(ghi)perylene	16.283	276	14447	0.199	ug/ml#	85

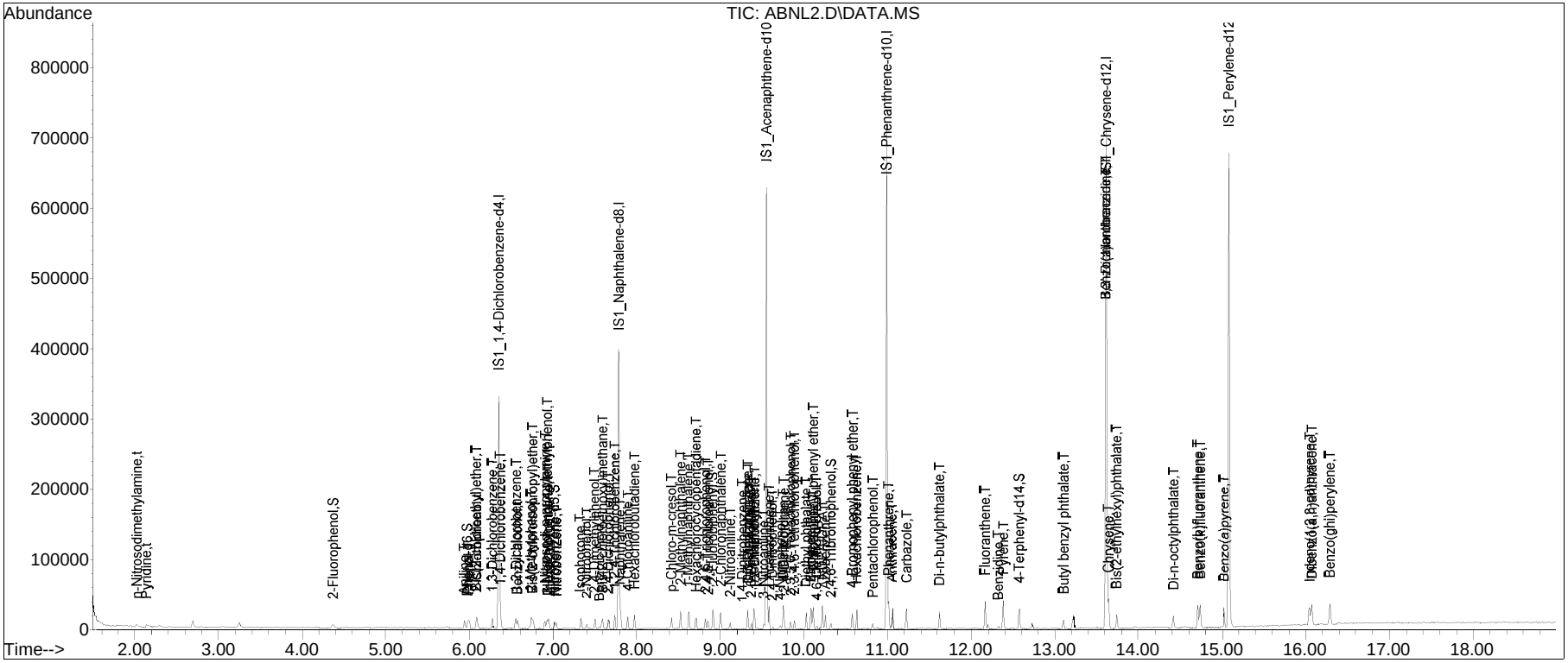
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNL2.D
Acq On : 11 Mar 2025 7:34 pm
Operator : SV106:ljg
Sample : IL9,32,,ABNL0.2 Lot# 11432
Misc : WG2039658,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 12 06:21:39 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 06:11:40 2025
Response via : Initial Calibration

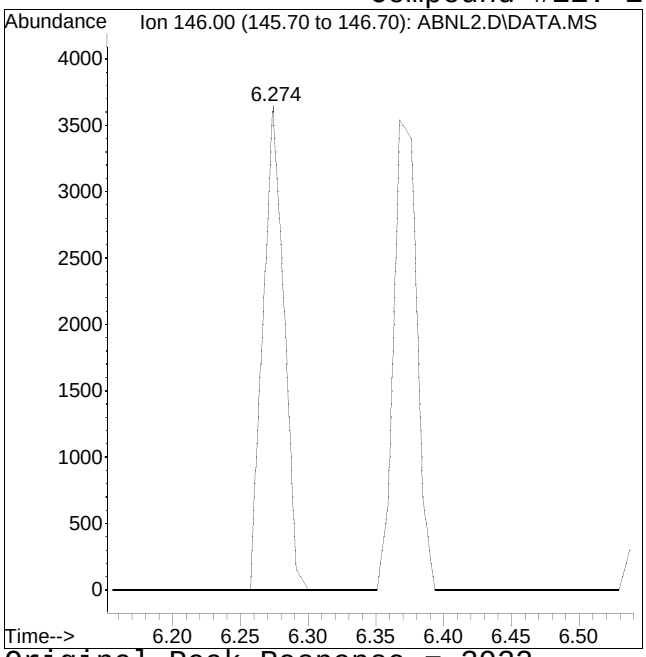
Sub List : ABNical - ABN ical sublistTical\AP9L6.D•

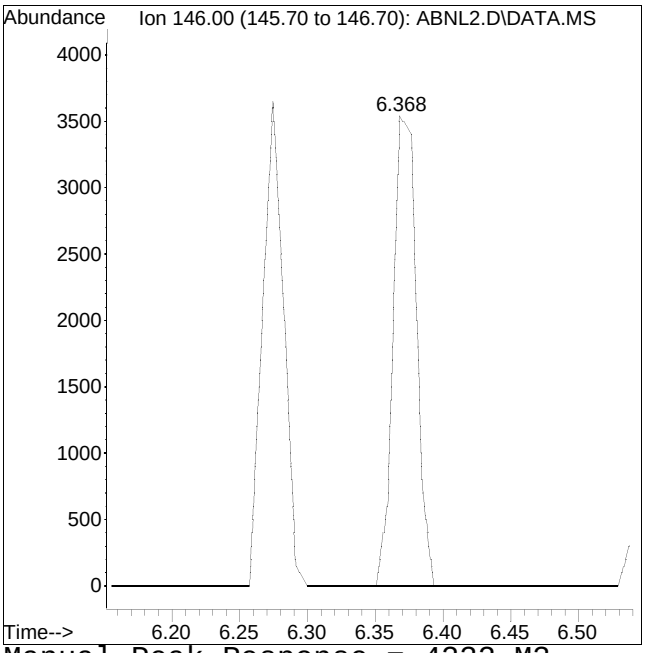


Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL2.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 7:34 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.2 Lot# 11432Quant Date : 3/12/2025 6:14 am

Compound #11: 1,4-Dichlorobenzene





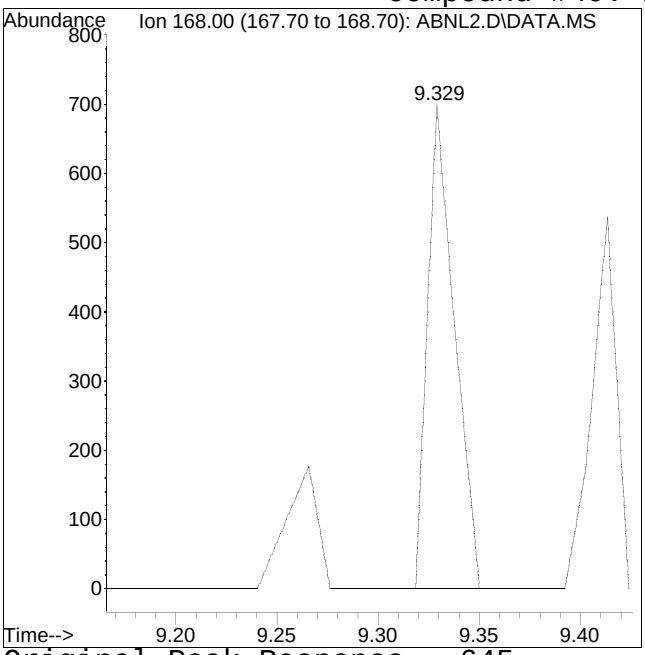
Original Peak Response = 3922 Manual Peak Response = 4232 M3

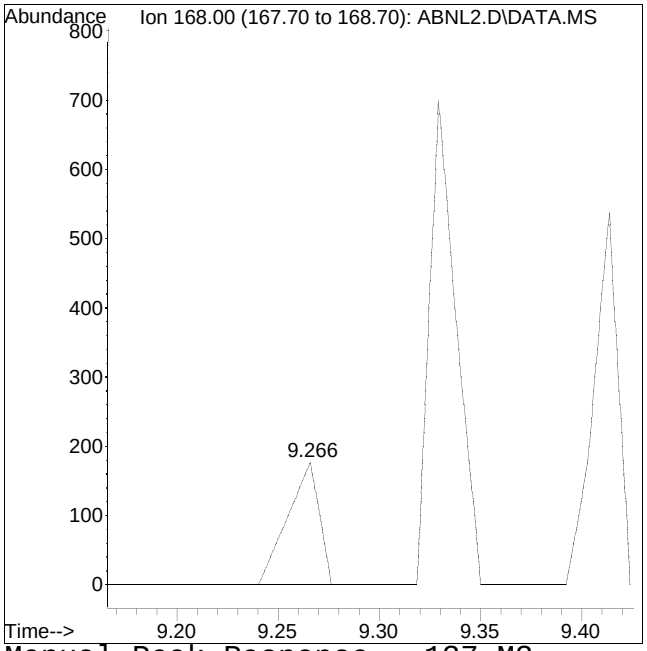
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL2.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 7:34 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.2 Lot# 11432Quant Date : 3/12/2025 6:14 am

Compound #49: 1,4-Dinitrobenzene





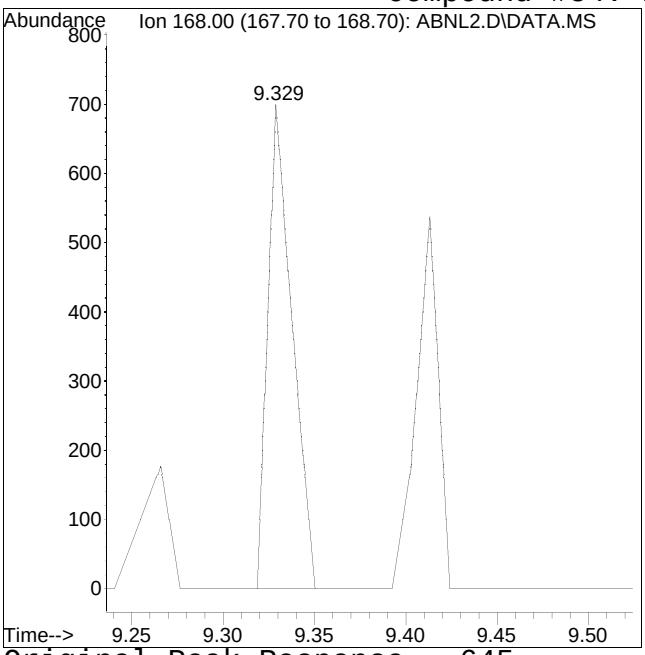
Original Peak Response = 645 Manual Peak Response = 137 M3

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

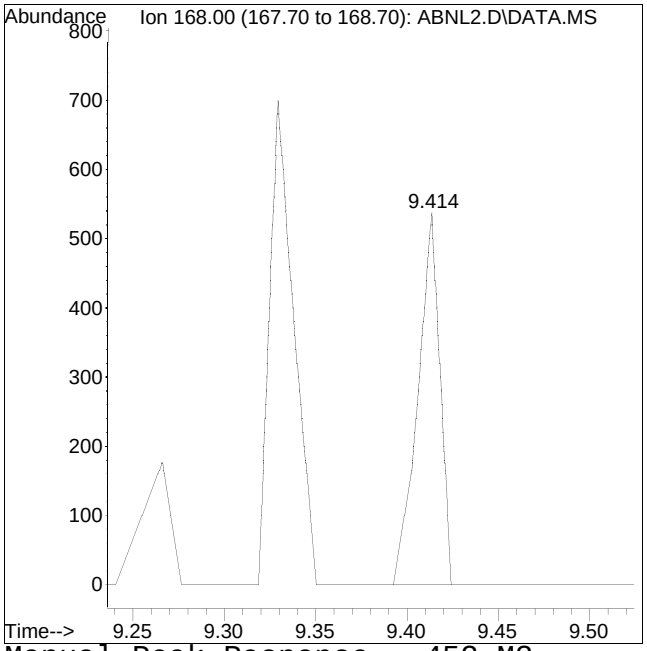
Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL2.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 7:34 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.2 Lot# 11432Quant Date : 3/12/2025 6:14 am

Compound #54: 1,2-Dinitrobenzene



Original Peak Response = 645



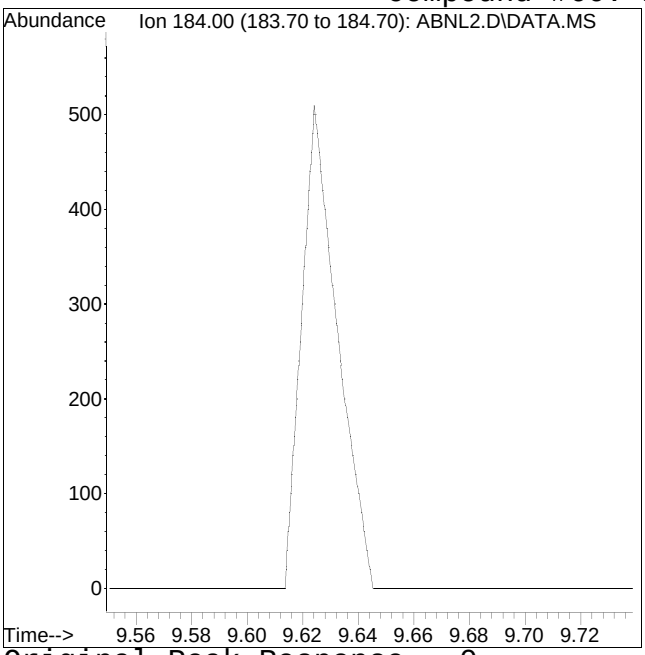
Manual Peak Response = 452 M3

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

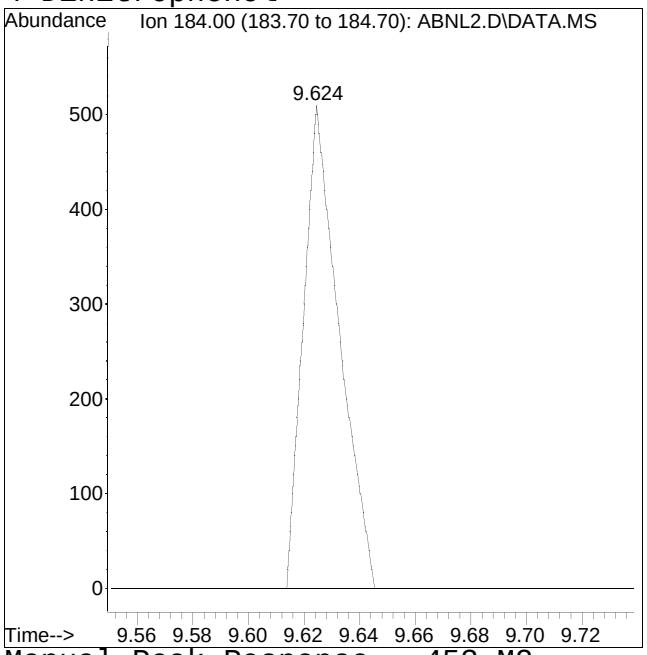
Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL2.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 7:34 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.2 Lot# 11432Quant Date : 3/12/2025 6:14 am

Compound #66: 2,4-Dinitrophenol



Original Peak Response = 0



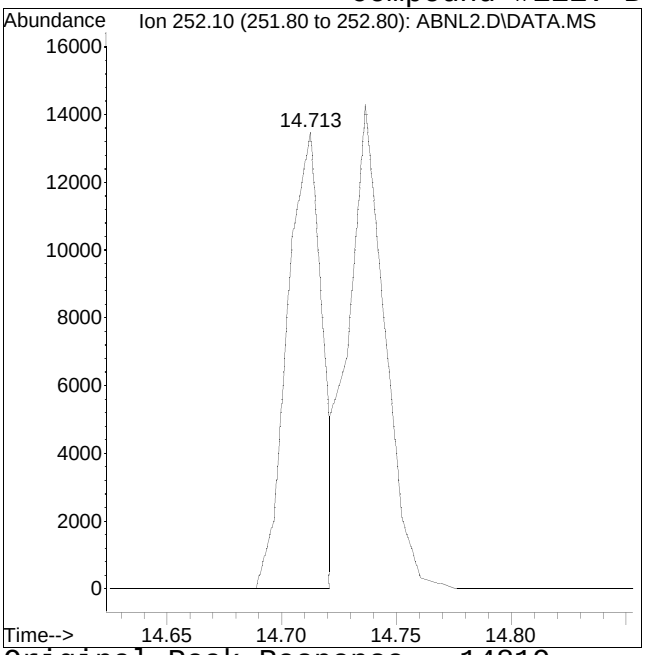
Manual Peak Response = 453 M2

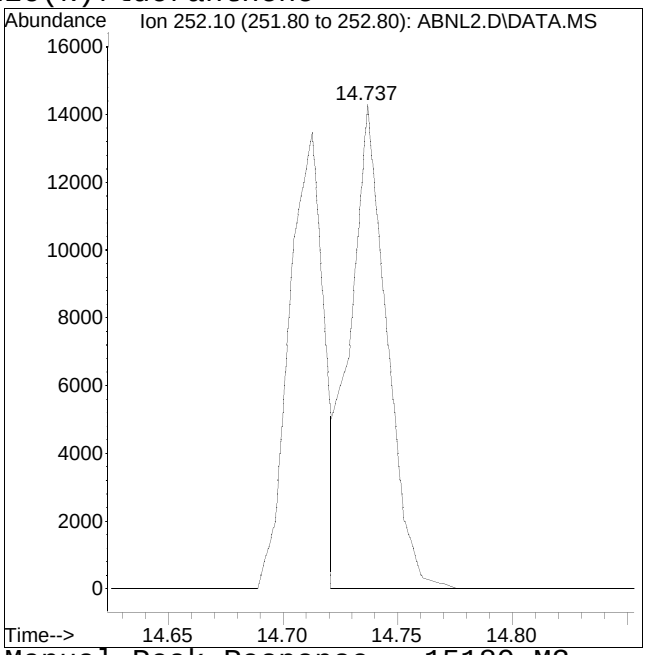
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL2.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 7:34 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.2 Lot# 11432Quant Date : 3/12/2025 6:14 am

Compound #111: Benzo(k)fluoranthene





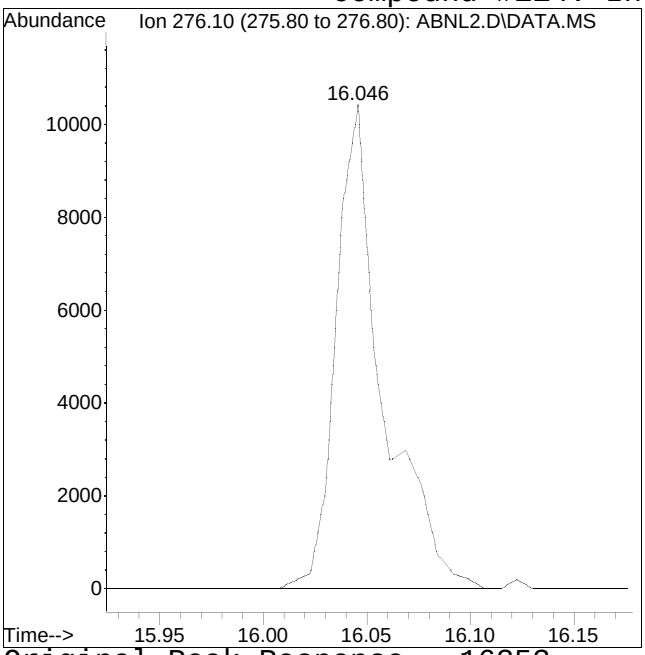
Original Peak Response = 14819 Manual Peak Response = 15180 M3

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

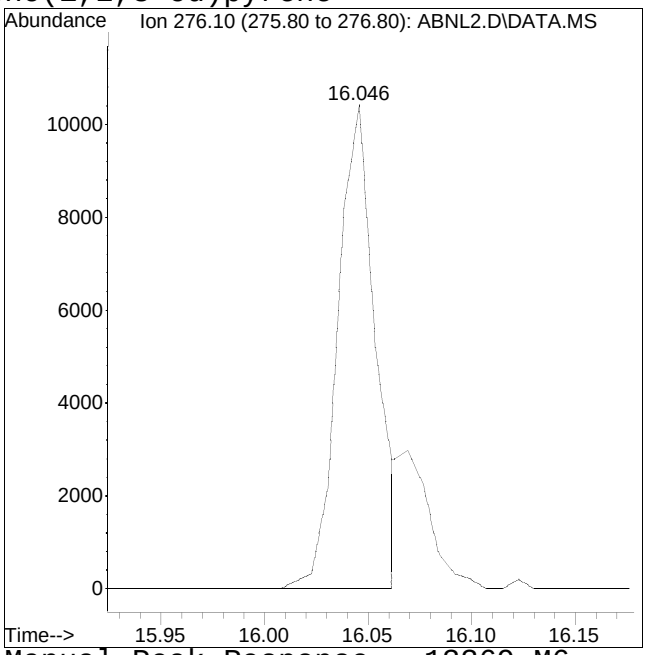
Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL2.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 7:34 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.2 Lot# 11432Quant Date : 3/12/2025 6:14 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 16353



Manual Peak Response = 13369 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNL1.D
Acq On : 11 Mar 2025 7:58 pm
Operator : SV106:ljg
Sample : IL10,32,,ABNL0.1 Lot# 11433
Misc : WG2039658,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 12 06:20:26 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 06:11:40 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	6.351	152	58866	4.000 ug/ml	0.00
Standard Area 1 = 55857			Recovery = 105.39%		
35) IS1_Naphthalene-d8	7.783	136	211995	4.000 ug/ml	# 0.00
Standard Area 1 = 204785			Recovery = 103.52%		
63) IS1_Acenaphthene-d10	9.550	164	131728	4.000 ug/ml	0.00
Standard Area 1 = 132560			Recovery = 99.37%		
88) IS1_Phenanthrene-d10	10.988	188	265789	4.000 ug/ml	0.00
Standard Area 1 = 260564			Recovery = 102.01%		
104) IS1_Chrysene-d12	13.617	240	266677	4.000 ug/ml	0.00
Standard Area 1 = 281321			Recovery = 94.79%		
113) IS1_Perylene-d12	15.079	264	284137	4.000 ug/ml	0.00
Standard Area 1 = 300591			Recovery = 94.53%		
System Monitoring Compounds					
4) 2-Fluorophenol	4.377	112	1801	0.098 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 4.90%#		
7) Phenol-d6	5.985	99	2079	0.094 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 4.70%#		
19) Nitrobenzene-d5	7.017	82	1581	0.079 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 7.90%#		
46) 2-Fluorobiphenyl	8.911	172	5700	0.116 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 11.60%#		
79) 2,4,6-Tribromophenol	10.321	330	617	0.083 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 4.15%#		
96) 4-Terphenyl-d14	12.576	244	7960	0.112 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 11.20%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	2.033	74	1152	0.103 ug/ml#	93
3) Pyridine	2.163	79	1971	0.110 ug/ml	87
5) Aniline	5.943	93	2112	0.081 ug/ml#	75
6) 2-Chlorophenol	6.087	128	1763	0.088 ug/ml#	88
8) Phenol	5.994	94	2485	0.109 ug/ml	95
9) Bis(2-chloroethyl)ether	6.079	93	1859	0.099 ug/ml#	68
10) 1,3-Dichlorobenzene	6.274	146	2673	0.109 ug/ml#	85
11) 1,4-Dichlorobenzene	6.376	146	2612M3	0.104 ug/ml	
12) 1,2-Dichlorobenzene	6.555	146	2175	0.091 ug/ml	94

Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNL1.D
Acq On : 11 Mar 2025 7:58 pm
Operator : SV106:ljg
Sample : IL10,32,,ABNL0.1 Lot# 11433
Misc : WG2039658,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 12 06:20:26 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 06:11:40 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
13) Benzyl alcohol	6.572	79	1377	0.088 ug/ml	89
14) Bis(2-chloroisopropyl)...	6.755	45	4549	0.154 ug/ml#	73
15) 2-Methylphenol	6.739	108	2091	0.126 ug/ml#	72
16) Hexachloroethane	6.942	117	876	0.097 ug/ml#	56
17) n-Nitrosodi-n-propylamine	6.905	70	1302	0.094 ug/ml#	59
18) 3-Methylphenol/4-Methy...	6.927	108	1706	0.095 ug/ml#	88
20) Nitrobenzene	7.040	77	1600	0.078 ug/ml#	83
21) Isophorone	7.325	82	3452	0.097 ug/ml#	65
22) 2-Nitrophenol	7.400	139	662	0.063 ug/ml#	31
23) 2,4-Dimethylphenol	7.506	107	1843	0.112 ug/ml	92
24) Bis(2-chloroethoxy)met...	7.595	93	2981	0.125 ug/ml#	87
25) 2,4-Dichlorophenol	7.660	162	1605	0.087 ug/ml	91
26) 1,2,4-Trichlorobenzene	7.739	180	2501	0.117 ug/ml#	78
36) Naphthalene	7.804	128	6568	0.110 ug/ml	98
37) Benzoic Acid	7.558	105	392M2	1.319 ug/ml	
38) 4-Chloroaniline	7.898	65	710	0.106 ug/ml#	88
39) Hexachlorobutadiene	7.977	225	1521	0.120 ug/ml	96
40) p-Chloro-m-cresol	8.424	107	1871	0.119 ug/ml#	87
41) 2-Methylnaphthalene	8.529	142	3751	0.094 ug/ml	96
42) 1-Methylnaphthalene	8.626	115	1491	0.116 ug/ml	96
43) Hexachlorocyclopentadiene	8.708	237	1772	0.128 ug/ml#	88
44) 2,4,6-Trichlorophenol	8.828	196	1481	0.102 ug/ml#	76
45) 2,4,5-Trichlorophenol	8.858	196	1369	0.091 ug/ml#	75
47) 2-Chloronaphthalene	9.008	162	4847	0.117 ug/ml	92
48) 2-Nitroaniline	9.120	138	704	0.059 ug/ml	95
49) 1,4-Dinitrobenzene	0.000		0	N.D.	
50) 1,3-Dinitrobenzene	9.329	168	219M2	0.033 ug/ml	
51) Dimethyl phthalate	9.329	163	5746	0.119 ug/ml#	77
52) Acenaphthylene	9.403	152	7353	0.119 ug/ml	98
53) 2,6-Dinitrotoluene	9.371	165	592	0.060 ug/ml#	1
54) 1,2-Dinitrobenzene	9.413	168	183M2	0.043 ug/ml	
64) 3-Nitroaniline	9.519	138	814	0.077 ug/ml#	22
65) Acenaphthene	9.582	154	4932	0.129 ug/ml	96
66) 2,4-Dinitrophenol	9.624	184	150M2	1.212 ug/ml	
67) Dibenzofuran	9.751	168	7145	0.116 ug/ml	92
68) 2,4-Dinitrotoluene	9.761	165	775	0.056 ug/ml#	63
69) 4-Nitrophenol	9.719	65	592	0.075 ug/ml#	1
70) 2,3,5,6-Tetrachlorophenol	9.849	232	1159	0.090 ug/ml#	68

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNL1.D
Acq On : 11 Mar 2025 7:58 pm
Operator : SV106:ljg
Sample : IL10,32,,ABNL0.1 Lot# 11433
Misc : WG2039658,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 12 06:20:26 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 06:11:40 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71)	2,3,4,6-Tetrachlorophenol	9.884	232	1124	0.089	ug/ml#	61
72)	Diethyl phthalate	10.025	149	4618	0.092	ug/ml#	94
73)	Fluorene	10.089	166	5307	0.110	ug/ml	97
74)	4-Chlorophenyl phenyl ...	10.110	204	2986	0.121	ug/ml#	84
75)	4-Nitroaniline	10.117	138	711	0.066	ug/ml#	57
76)	4,6-Dinitro-o-cresol	10.152	198	502	0.392	ug/ml#	1
77)	NDPA/DPA	10.223	169	4368	0.105	ug/ml	92
78)	Azobenzene	10.258	77	3937	0.097	ug/ml	97
80)	4-Bromophenyl phenyl e...	10.579	248	1839	0.120	ug/ml#	76
81)	Hexachlorobenzene	10.624	284	1943	0.112	ug/ml#	82
82)	Pentachlorophenol	10.821	266	603	0.057	ug/ml#	19
89)	Phenanthrene	11.010	178	9748M3	0.125	ug/ml	
90)	Anthracene	11.056	178	8461	0.109	ug/ml	98
91)	Carbazole	11.230	167	6688	0.096	ug/ml#	93
92)	Di-n-butylphthalate	11.624	149	6922	0.079	ug/ml#	92
93)	Fluoranthene	12.163	202	10090	0.112	ug/ml#	92
94)	Benzidine	12.322	184	897	0.017	ug/ml#	68
95)	Pyrene	12.379	202	10786	0.114	ug/ml	96
97)	Butyl benzyl phthalate	13.101	149	2130	0.058	ug/ml#	87
105)	Benzo(a)anthracene	13.609	228	9892	0.108	ug/ml	97
106)	3,3'-Dichlorobenzidine	13.609	252	2443	0.081	ug/ml#	89
107)	Chrysene	13.641	228	10423	0.118	ug/ml	94
108)	Bis(2-ethylhexyl)phtha...	13.736	149	3322	0.060	ug/ml#	94
109)	Di-n-octylphthalate	14.418	149	5178	0.057	ug/ml#	88
110)	Benzo(b)fluoranthene	14.713	252	9140	0.103	ug/ml#	96
111)	Benzo(k)fluoranthene	14.737	252	9658	0.117	ug/ml#	93
112)	Benzo(a)pyrene	15.024	252	8002	0.104	ug/ml#	94
114)	Indeno(1,2,3-cd)pyrene	16.046	276	7771M6	0.090	ug/mL	
115)	Dibenzo(a,h)anthracene	16.069	278	8096	0.099	ug/ml#	92
116)	Benzo(ghi)perylene	16.283	276	8031	0.105	ug/ml#	89

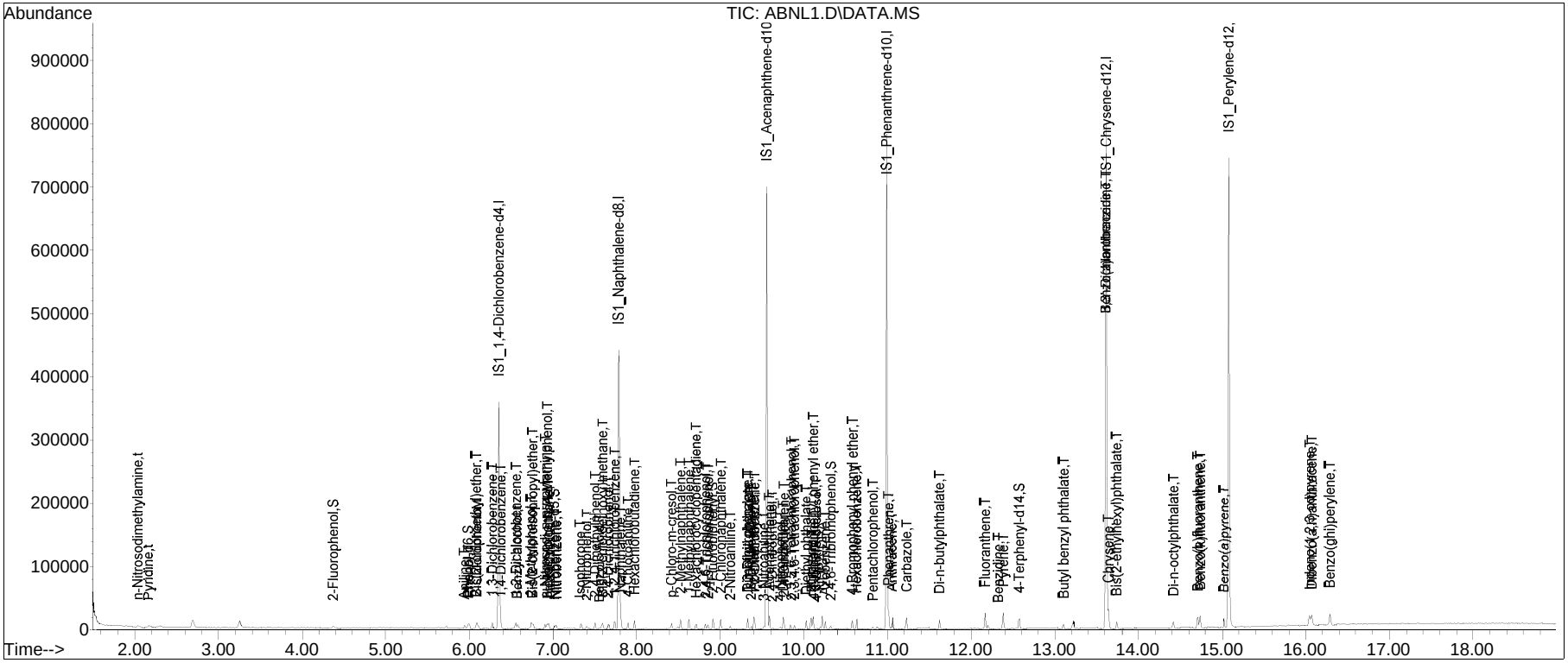
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNL1.D
Acq On : 11 Mar 2025 7:58 pm
Operator : SV106:ljg
Sample : IL10,32,,ABNL0.1 Lot# 11433
Misc : WG2039658,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 12 06:20:26 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 06:11:40 2025
Response via : Initial Calibration

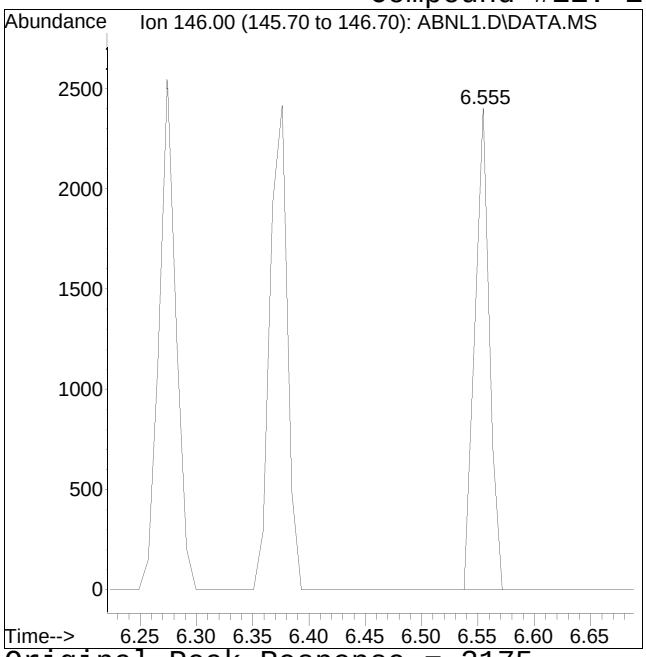
Sub List : ABNical - ABN ical sublistTical\AP9L6.D•

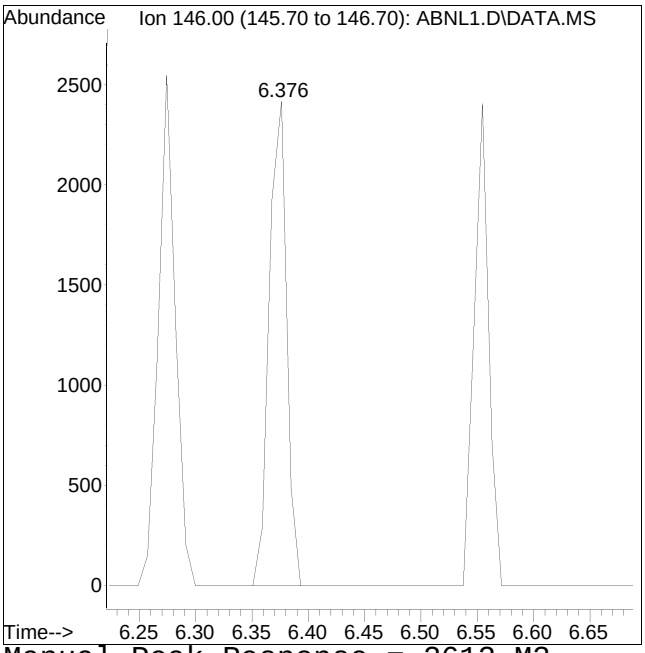


Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL1.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 7:58 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1143Quant Date : 3/12/2025 6:14 am

Compound #11: 1,4-Dichlorobenzene





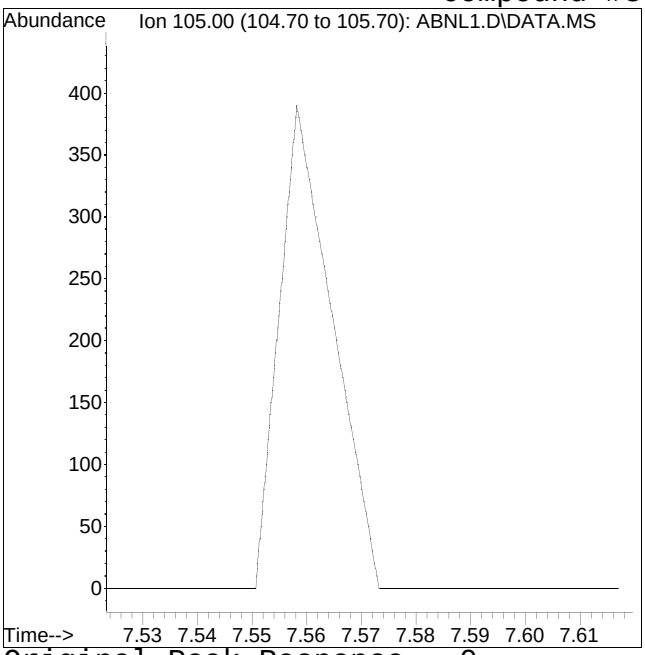
Original Peak Response = 2175 Manual Peak Response = 2612 M3

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

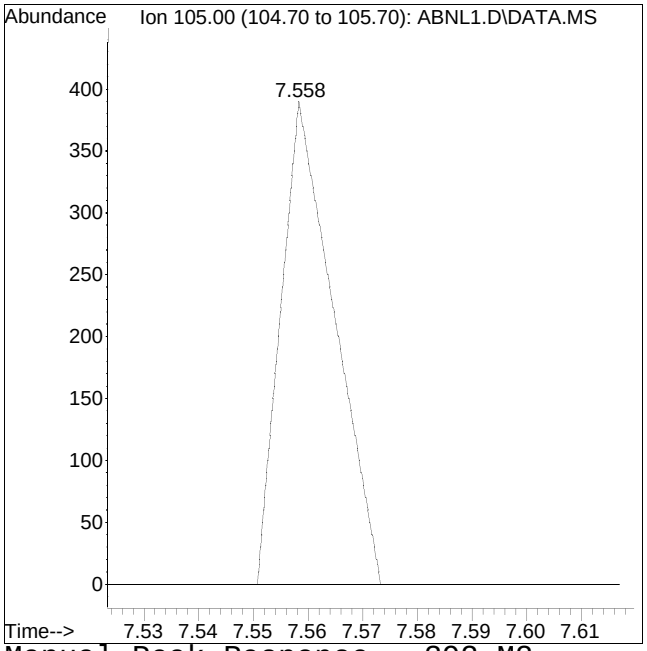
Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL1.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 7:58 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1143Quant Date : 3/12/2025 6:14 am

Compound #37: Benzoic Acid



Original Peak Response = 0



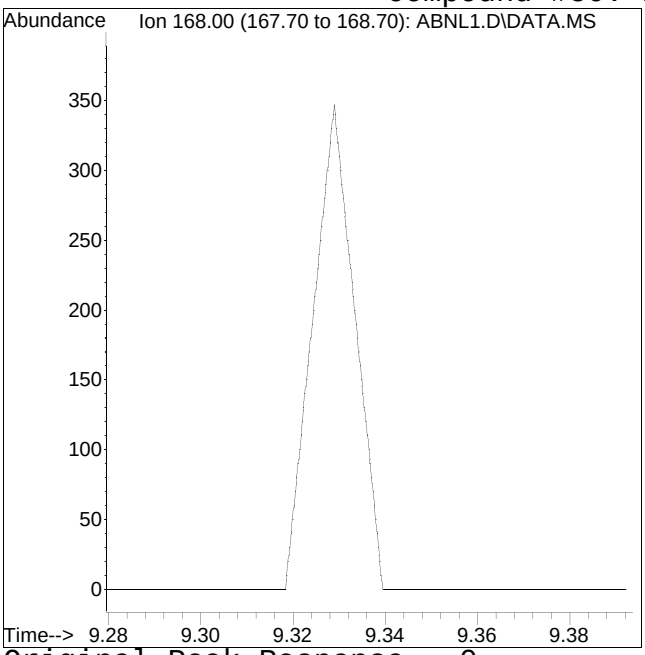
Manual Peak Response = 392 M2

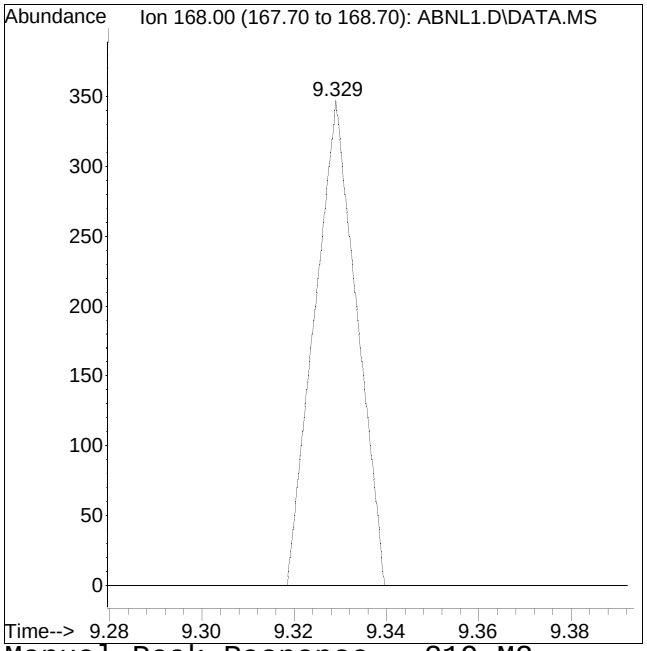
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL1.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 7:58 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1143Quant Date : 3/12/2025 6:14 am

Compound #50: 1,3-Dinitrobenzene



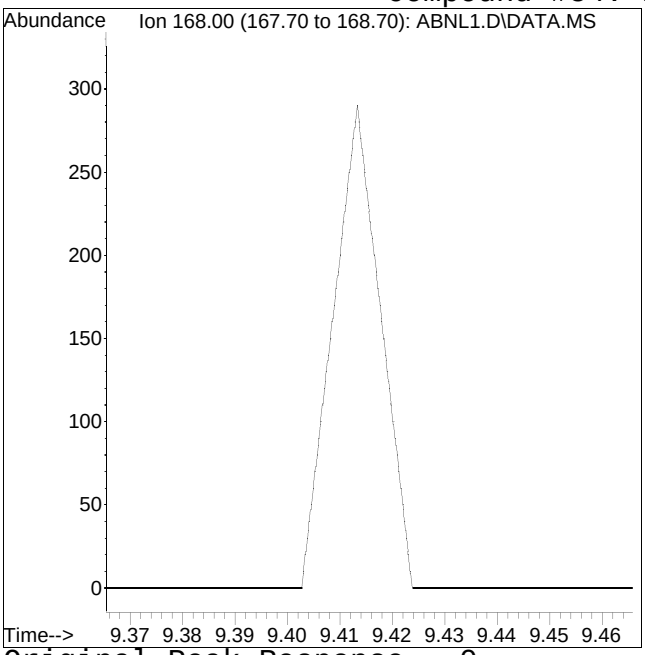


Original Peak Response = 0 Manual Peak Response = 219 M2
M2 = Peak not found by automatic integration algorithm.

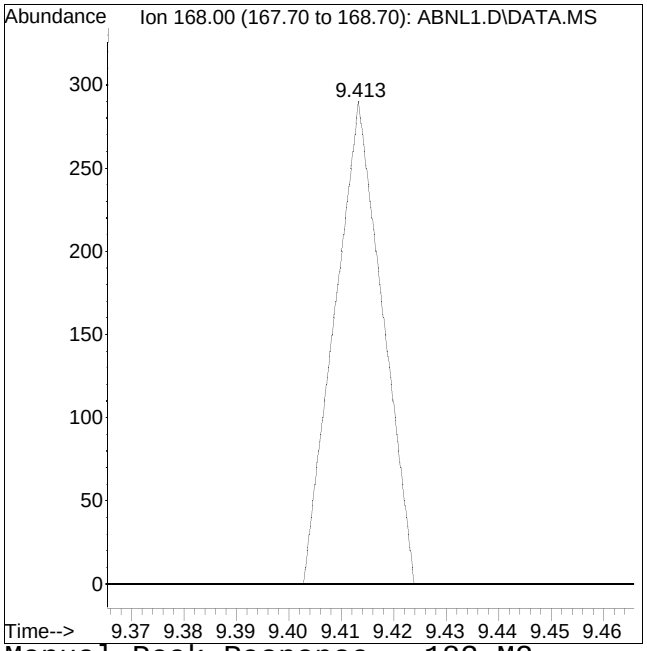
Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL1.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 7:58 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1143Quant Date : 3/12/2025 6:14 am

Compound #54: 1,2-Dinitrobenzene



Original Peak Response = 0



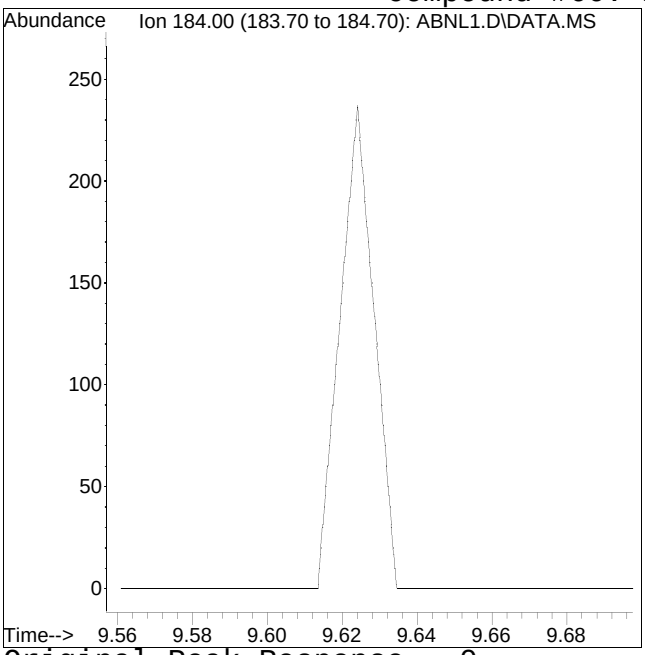
Manual Peak Response = 183 M2

M2 = Peak not found by automatic integration algorithm.

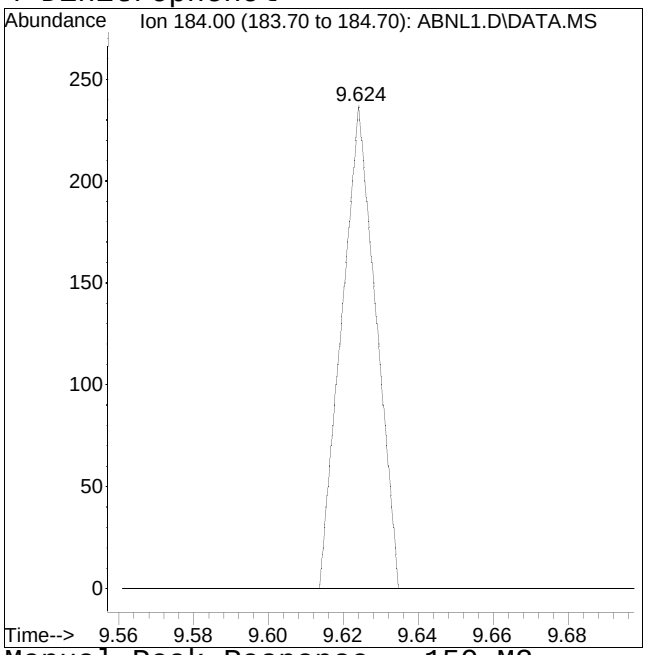
Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL1.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 7:58 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1143Quant Date : 3/12/2025 6:14 am

Compound #66: 2,4-Dinitrophenol



Original Peak Response = 0



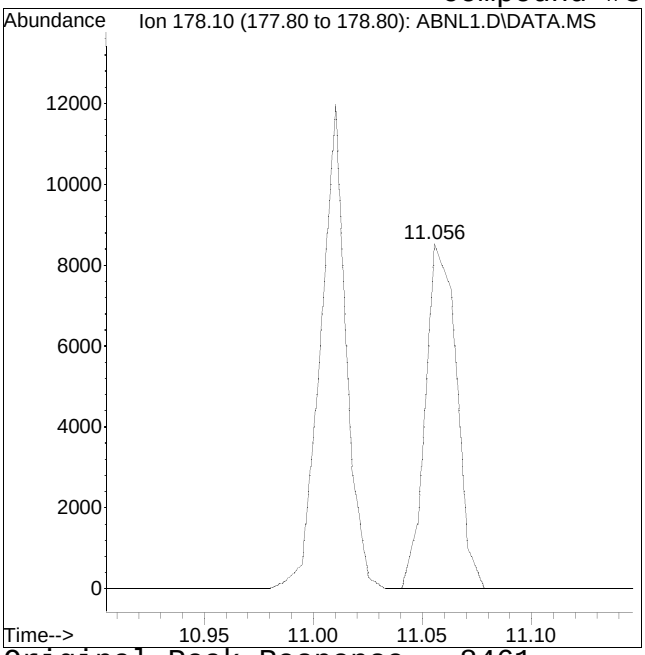
Manual Peak Response = 150 M2

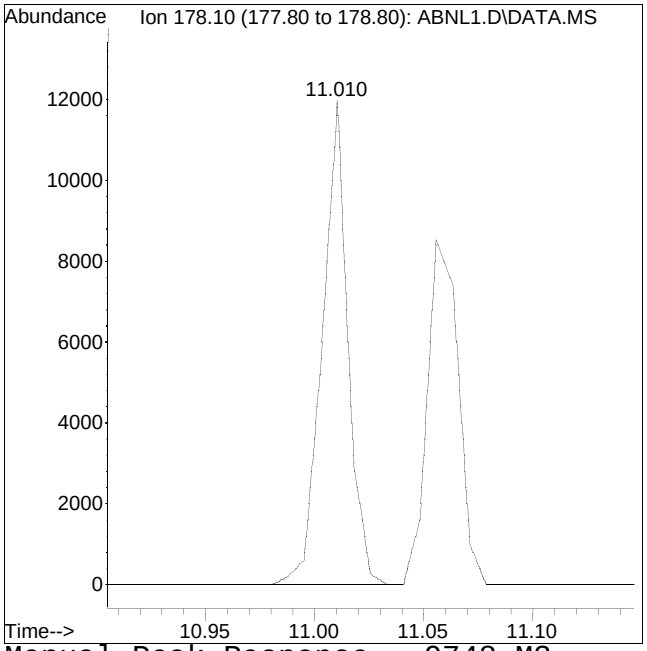
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL1.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 7:58 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1143Quant Date : 3/12/2025 6:14 am

Compound #89: Phenanthrene





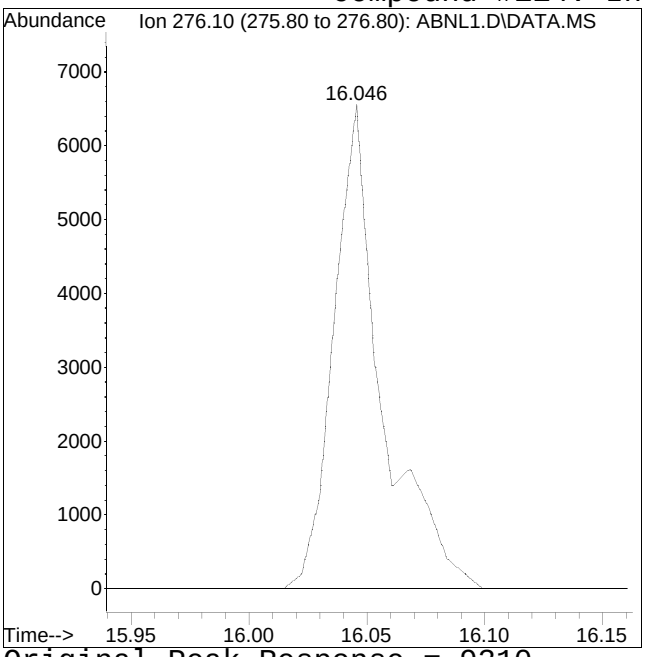
Original Peak Response = 8461 Manual Peak Response = 9748 M3

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

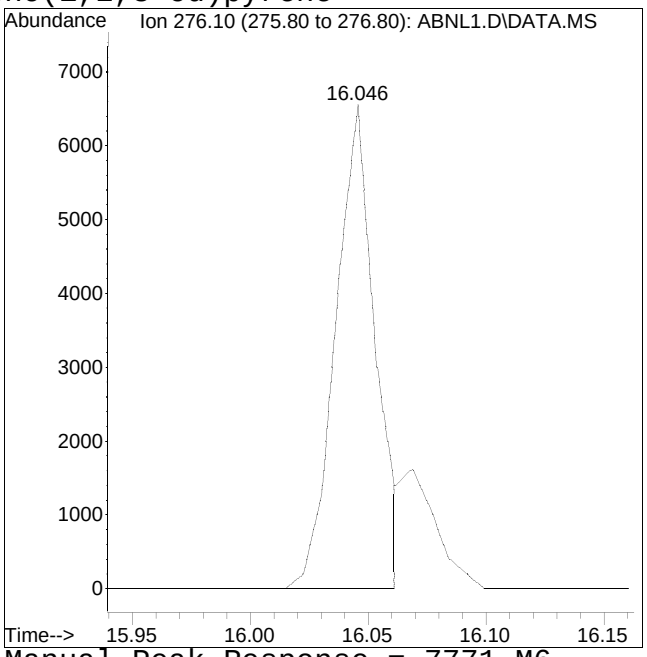
Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNL1.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 7:58 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1143Quant Date : 3/12/2025 6:14 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 9310



Manual Peak Response = 7771 M6

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNICV.D
Acq On : 11 Mar 2025 10:18 pm
Operator : SV106:ljg
Sample : CQICV1,32,,ABNICV Lot# 11452
Misc : WG2039658,,ical
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 12 12:20:40 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 12:21:40 2025
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	100	0.00
2	t	n-Nitrosodimethylamine		0.718	0.747	-4.0	106	0.00
3	t	Pyridine		1.251	0.932	25.5#	81	0.00
4	S	2-Fluorophenol		1.128	1.179	-4.5	106	0.00
5	T	Aniline		1.738	1.870	-7.6	103	0.00
6	t	2-Chlorophenol		1.218	1.291	-6.0	107	0.00
7	S	Phenol-d6		1.323	1.425	-7.7	109	0.00
8	T	Phenol		1.459	1.543	-5.8	108	0.00
9	T	Bis(2-chloroethyl)ether		1.159	1.236	-6.6	109	0.00
10	T	1,3-Dichlorobenzene		1.540	1.642	-6.6	112	0.00
11	T	1,4-Dichlorobenzene		1.574	1.637	-4.0	106	0.00
12	T	1,2-Dichlorobenzene		1.490	1.575	-5.7	110	0.00
13	t	Benzyl alcohol		0.910	0.940	-3.3	103	0.00
14	T	Bis(2-chloroisopropyl)ether		2.704	3.081	-13.9	118	0.00
15	T	2-Methylphenol		1.283	1.331	-3.7	108	0.00
16	T	Hexachloroethane		0.546	0.580	-6.2	107	0.00
17	T	n-Nitrosodi-n-propylamine		0.855	0.900	-5.3	106	0.00
18	T	3-Methylphenol/4-Methylphen		1.110	1.198	-7.9	108	0.00
19	S	Nitrobenzene-d5		1.096	1.092	0.4	99	0.00
20	T	Nitrobenzene		1.118	1.119	-0.1	98	0.00
21	T	Isophorone		2.296	2.405	-4.7	105	0.00
22	T	2-Nitrophenol		0.509	0.472	7.3	92	0.00
23	T	2,4-Dimethylphenol		1.198	1.282	-7.0	104	0.00
24	T	Bis(2-chloroethoxy)methane		1.639	1.372	16.3	93	0.00
25	T	2,4-Dichlorophenol		1.137	1.215	-6.9	105	0.00
26	T	1,2,4-Trichlorobenzene		1.457	1.484	-1.9	107	0.00
35	I	IS1_Naphthalene-d8		1.000	1.000	0.0	101	0.00
36	T	Naphthalene		1.066	1.108	-3.9	110	0.00
37	T	Benzoic Acid	*	5.000	3.503	29.9#	92	0.00
38	T	4-Chloroaniline		0.132	0.141	-6.8	107	0.00
39	T	Hexachlorobutadiene		0.244	0.243	0.4	102	0.00
40	T	p-Chloro-m-cresol		0.325	0.320	1.5	104	0.00
41	T	2-Methylnaphthalene		0.638	0.686	-7.5	111	0.00
42	T	1-Methylnaphthalene		0.245	0.250	-2.0	108	0.00
43	T	Hexachlorocyclopentadiene		0.300	0.289	3.7	98	0.00
44	T	2,4,6-Trichlorophenol		0.251	0.240	4.4	96	0.00
45	T	2,4,5-Trichlorophenol		0.255	0.288	-12.9	110	0.00
46	S	2-Fluorobiphenyl		0.923	0.949	-2.8	107	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNICV.D
Acq On : 11 Mar 2025 10:18 pm
Operator : SV106:ljg
Sample : CQICV1,32,,ABNICV Lot# 11452
Misc : WG2039658,,ical
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 12 12:20:40 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 12:21:40 2025
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
47	T	2-Chloronaphthalene		0.756	0.785	-3.8	108	0.00
48	T	2-Nitroaniline		0.166	0.168	-1.2	97	0.00
49	T	1,4-Dinitrobenzene	*	5.000	3.021	39.6#	51	0.00
50	T	1,3-Dinitrobenzene		0.104	0.094	9.6	95	0.00
51	T	Dimethyl phthalate		0.908	0.951	-4.7	106	0.00
52	T	Acenaphthylene		1.201	1.287	-7.2	110	0.00
53	T	2,6-Dinitrotoluene		0.151	0.172	-13.9	97	0.00
54	T	1,2-Dinitrobenzene		0.063	0.066	-4.8	96	0.00
63	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	98	0.00
64	T	3-Nitroaniline		0.252	0.271	-7.5	100	-0.01
65	T	Acenaphthene		1.101	1.095	0.5	105	0.00
66	T	2,4-Dinitrophenol	*	5.000	4.704	5.9	103	0.00
67	T	Dibenzofuran		1.914	1.878	1.9	109	0.00
68	T	2,4-Dinitrotoluene	*	5.000	4.642	7.2	95	0.00
69	T	4-Nitrophenol		0.192	0.209	-8.9	103	-0.01
70	T	2,3,5,6-Tetrachlorophenol		0.365	0.509	-39.5#	141	0.00
71	T	2,3,4,6-Tetrachlorophenol		0.344	0.373	-8.4	105	0.00
72	T	Diethyl phthalate		1.359	1.427	-5.0	104	0.00
73	T	Fluorene		1.410	1.469	-4.2	107	0.00
74	T	4-Chlorophenyl phenyl ether		0.738	0.743	-0.7	106	0.00
75	T	4-Nitroaniline		0.246	0.258	-4.9	97	0.00
76	T	4,6-Dinitro-o-cresol	*	5.000	4.140	17.2	95	0.00
77	T	NDPA/DPA		1.176	1.247	-6.0	108	0.00
78	T	Azobenzene		1.121	1.217	-8.6	108	0.00
79	S	2,4,6-Tribromophenol		0.206	0.221	-7.3	101	0.00
80	T	4-Bromophenyl phenyl ether		0.463	0.455	1.7	102	0.00
81	T	Hexachlorobenzene		0.543	0.542	0.2	106	0.00
82	T	Pentachlorophenol		0.282	0.268	5.0	95	0.00
88	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	98	0.00
89	T	Phenanthrene		1.135	1.174	-3.4	108	0.00
90	T	Anthracene		1.107	1.189	-7.4	107	0.00
91	T	Carbazole		0.989	1.081	-9.3	106	0.00
92	T	Di-n-butylphthalate		1.116	1.329	-19.1	117	0.00
93	T	Fluoranthene		1.298	1.388	-6.9	108	0.00
94	T	Benzidine		0.704	0.825	-17.2	109	0.00
95	T	Pyrene		1.359	1.446	-6.4	107	0.00
96	S	4-Terphenyl-d14		1.038	1.111	-7.0	109	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNICV.D
Acq On : 11 Mar 2025 10:18 pm
Operator : SV106:ljg
Sample : CQICV1,32,,ABNICV Lot# 11452
Misc : WG2039658,,ical
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 12 12:20:40 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 12:21:40 2025
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
97	T	Butyl benzyl phthalate	*	5.000	4.295	14.1	96	0.00
104	I	IS1_Chrysene-d12		1.000	1.000	0.0	100	0.00
105	T	Benzo(a)anthracene		1.278	1.357	-6.2	111	0.00
106	T	3,3'-Dichlorobenzidine		0.429	0.511	-19.1	112	0.00
107	T	Chrysene		1.267	1.225	3.3	103	0.00
108	T	Bis(2-ethylhexyl)phthalate	*	5.000	4.614	7.7	102	0.00
109	T	Di-n-octylphthalate	*	5.000	4.265	14.7	99	0.00
110	T	Benzo(b)fluoranthene		1.314	1.500	-14.2	112	0.00
111	T	Benzo(k)fluoranthene		1.222	1.186	2.9	100	-0.02
112	T	Benzo(a)pyrene		1.157	1.260	-8.9	107	0.00
113	I	IS1_Perylene-d12		1.000	1.000	0.0	99	0.00
114	T	Indeno(1,2,3-cd)pyrene		1.068	1.151	-7.8	100	0.00
115	T	Dibenzo(a,h)anthracene		1.063	1.179	-10.9	106	-0.02
116	T	Benzo(ghi)perylene		1.047	1.128	-7.7	104	-0.02

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNICV.D
Acq On : 11 Mar 2025 10:18 pm
Operator : SV106:ljg
Sample : CQICV1,32,,ABNICV Lot# 11452
Misc : WG2039658,,ical
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 12 12:20:40 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 12:21:40 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.351	152	55635	4.000	ug/ml	0.00
Standard Area 1 = 55857			Recovery = 99.60%			
35) IS1_Naphthalene-d8	7.782	136	206444	4.000	ug/ml	# 0.00
Standard Area 1 = 204785			Recovery = 100.81%			
63) IS1_Acenaphthene-d10	9.550	164	130053	4.000	ug/ml	0.00
Standard Area 1 = 132560			Recovery = 98.11%			
88) IS1_Phenanthrene-d10	10.988	188	255579	4.000	ug/ml	# 0.00
Standard Area 1 = 260564			Recovery = 98.09%			
104) IS1_Chrysene-d12	13.609	240	280312	4.000	ug/ml	0.00
Standard Area 1 = 281321			Recovery = 99.64%			
113) IS1_Perylene-d12	15.071	264	296085	4.000	ug/ml	0.00
Standard Area 1 = 300591			Recovery = 98.50%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.377	112	81992	5.225	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 261.25%#			
7) Phenol-d6	5.977	99	99086	5.386	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 269.30%#			
19) Nitrobenzene-d5	7.017	82	75927	4.982	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 498.20%#			
46) 2-Fluorobiphenyl	8.911	172	244997	5.141	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 514.10%#			
79) 2,4,6-Tribromophenol	10.321	330	35854	5.362	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 268.10%#			
96) 4-Terphenyl-d14	12.566	244	354778	5.351	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 535.10%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.004	74	51950	5.201	ug/ml	88
3) Pyridine	2.062	79	64794	3.725	ug/ml	80
5) Aniline	5.943	93	130036	5.379	ug/ml	98
6) 2-Chlorophenol	6.079	128	89808	5.302	ug/ml	95
8) Phenol	5.994	94	107273	5.286	ug/ml	99
9) Bis(2-chloroethyl)ether	6.070	93	85977	5.332	ug/ml#	75
10) 1,3-Dichlorobenzene	6.274	146	114203	5.331	ug/ml	96
11) 1,4-Dichlorobenzene	6.368	146	113836	5.198	ug/ml	98
12) 1,2-Dichlorobenzene	6.554	146	109498	5.282	ug/ml	96

Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNICV.D
Acq On : 11 Mar 2025 10:18 pm
Operator : SV106:ljg
Sample : CQICV1,32,,ABNICV Lot# 11452
Misc : WG2039658,,ical
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 12 12:20:40 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 12:21:40 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
13) Benzyl alcohol	6.563	79	65361	5.162 ug/ml	95
14) Bis(2-chloroisopropyl)...	6.747	45	214270	5.697 ug/ml#	72
15) 2-Methylphenol	6.739	108	92542	5.188 ug/ml	97
16) Hexachloroethane	6.942	117	40367	5.314 ug/ml#	58
17) n-Nitrosodi-n-propylamine	6.897	70	62622	5.268 ug/ml	93
18) 3-Methylphenol/4-Methy...	6.927	108	83330	5.397 ug/ml	97
20) Nitrobenzene	7.032	77	77805	5.002 ug/ml	99
21) Isophorone	7.318	82	167265	5.239 ug/ml	98
22) 2-Nitrophenol	7.393	139	32856	4.641 ug/ml	90
23) 2,4-Dimethylphenol	7.498	107	89154	5.349 ug/ml	97
24) Bis(2-chloroethoxy)met...	7.595	93	95427	4.187 ug/ml	97
25) 2,4-Dichlorophenol	7.660	162	84500	5.343 ug/ml#	94
26) 1,2,4-Trichlorobenzene	7.739	180	103236	5.093 ug/ml	98
36) Naphthalene	7.804	128	286040	5.198 ug/ml	99
37) Benzoic Acid	7.573	105	23560	3.503 ug/ml	97
38) 4-Chloroaniline	7.890	65	36407	5.360 ug/ml	87
39) Hexachlorobutadiene	7.977	225	62724	4.984 ug/ml	99
40) p-Chloro-m-cresol	8.424	107	82686	4.929 ug/ml	95
41) 2-Methylnaphthalene	8.528	142	176905	5.375 ug/ml	95
42) 1-Methylnaphthalene	8.618	115	64481	5.104 ug/ml	97
43) Hexachlorocyclopentadiene	8.708	237	74521	4.815 ug/ml	97
44) 2,4,6-Trichlorophenol	8.828	196	61811	4.768 ug/ml	97
45) 2,4,5-Trichlorophenol	8.851	196	74264	5.646 ug/ml	96
47) 2-Chloronaphthalene	9.000	162	202516	5.187 ug/ml	95
48) 2-Nitroaniline	9.120	138	43241	5.040 ug/ml	87
49) 1,4-Dinitrobenzene	9.266	168	1972M3	3.021 ug/ml	
50) 1,3-Dinitrobenzene	9.329	168	24161	4.491 ug/ml#	1
51) Dimethyl phthalate	9.329	163	245370	5.233 ug/ml#	98
52) Acenaphthylene	9.403	152	332051	5.355 ug/ml	99
53) 2,6-Dinitrotoluene	9.371	165	44259	5.688 ug/ml#	76
54) 1,2-Dinitrobenzene	9.413	168	17122	5.256 ug/ml#	1
64) 3-Nitroaniline	9.519	138	44052	5.371 ug/ml#	92
65) Acenaphthene	9.582	154	177976	4.970 ug/ml	91
66) 2,4-Dinitrophenol	9.624	184	19873	4.704 ug/ml#	84
67) Dibenzofuran	9.751	168	305266	4.906 ug/ml#	81
68) 2,4-Dinitrotoluene	9.761	165	52324	4.642 ug/ml	89
69) 4-Nitrophenol	9.708	65	33937	5.424 ug/ml#	35
70) 2,3,5,6-Tetrachlorophenol	9.842	232	82818	6.974 ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNICV.D
Acq On : 11 Mar 2025 10:18 pm
Operator : SV106:ljg
Sample : CQICV1,32,,ABNICV Lot# 11452
Misc : WG2039658,,ical
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 12 12:20:40 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 12:21:40 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) 2,3,4,6-Tetrachlorophenol	9.884	232	60689	5.424	ug/ml	98
72) Diethyl phthalate	10.025	149	232030	5.252	ug/ml	98
73) Fluorene	10.082	166	238812	5.209	ug/ml	95
74) 4-Chlorophenyl phenyl ...	10.103	204	120770	5.036	ug/ml#	87
75) 4-Nitroaniline	10.110	138	42007M6	5.262	ug/ml	
76) 4,6-Dinitro-o-cresol	10.152	198	27559	4.140	ug/ml#	66
77) NDPA/DPA	10.223	169	202666	5.302	ug/ml	94
78) Azobenzene	10.258	77	197919	5.429	ug/ml#	92
80) 4-Bromophenyl phenyl e...	10.579	248	74019	4.916	ug/ml#	84
81) Hexachlorobenzene	10.624	284	88174	4.995	ug/ml#	81
82) Pentachlorophenol	10.821	266	43595	4.748	ug/ml	98
89) Phenanthrene	11.010	178	375117	5.171	ug/ml	99
90) Anthracene	11.056	178	379894	5.369	ug/ml	99
91) Carbazole	11.230	167	345386	5.467	ug/ml	99
92) Di-n-butylphthalate	11.624	149	424514	5.951	ug/ml#	97
93) Fluoranthene	12.163	202	443321	5.347	ug/ml#	93
94) Benzidine	12.313	184	263438	5.860	ug/ml#	94
95) Pyrene	12.379	202	461974	5.321	ug/ml	100
97) Butyl benzyl phthalate	13.092	149	138193	4.295	ug/ml	89
105) Benzo(a)anthracene	13.601	228	475634	5.311	ug/ml	99
106) 3,3'-Dichlorobenzidine	13.609	252	179178	5.960	ug/ml#	96
107) Chrysene	13.641	228	429359	4.836	ug/ml	99
108) Bis(2-ethylhexyl)phtha...	13.736	149	233680	4.614	ug/ml	95
109) Di-n-octylphthalate	14.410	149	361317	4.265	ug/ml#	78
110) Benzo(b)fluoranthene	14.705	252	525748	5.709	ug/ml#	92
111) Benzo(k)fluoranthene	14.728	252	415673	4.853	ug/ml#	93
112) Benzo(a)pyrene	15.015	252	441421	5.445	ug/ml#	93
114) Indeno(1,2,3-cd)pyrene	16.038	276	425828M6	5.388	ug/mL	
115) Dibenzo(a,h)anthracene	16.061	278	436195	5.546	ug/ml#	90
116) Benzo(ghi)perylene	16.275	276	417580	5.386	ug/ml#	87

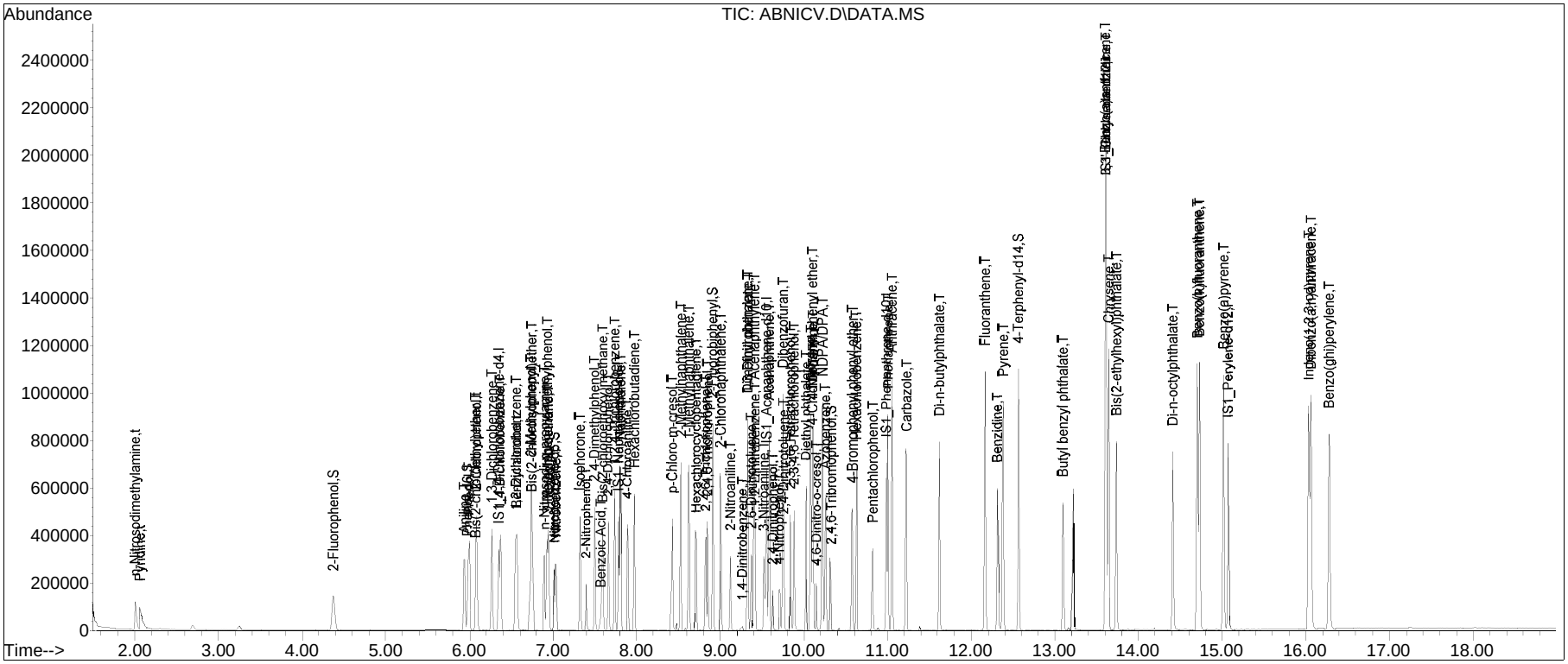
(#) = qualifier out of range (m) = manual integration (+) = signals summed

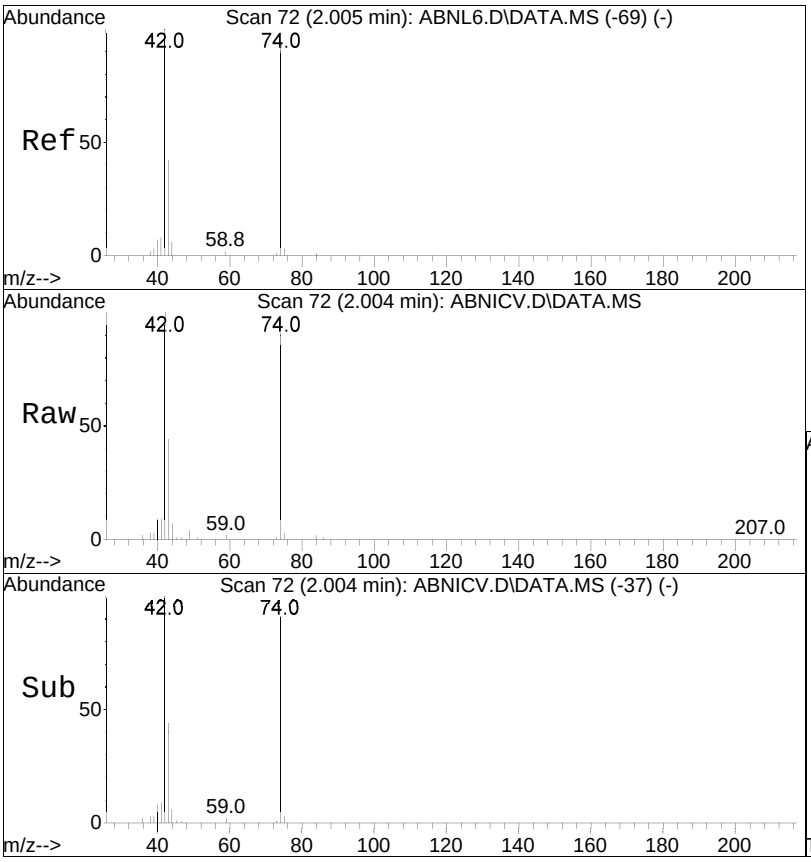
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ABNICV.D
Acq On : 11 Mar 2025 10:18 pm
Operator : SV106:ljg
Sample : CQICV1,32,,ABNICV Lot# 11452
Misc : WG2039658,,ical
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 12 12:20:40 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 12:21:40 2025
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistTical\AP9L6.D•

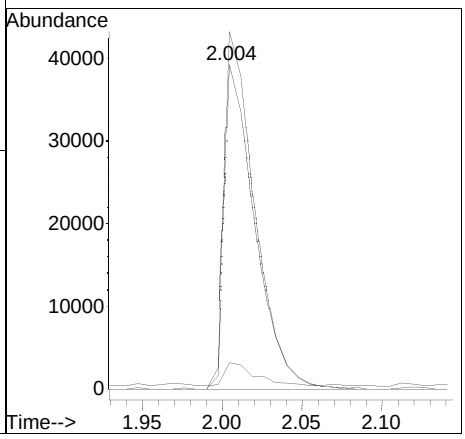


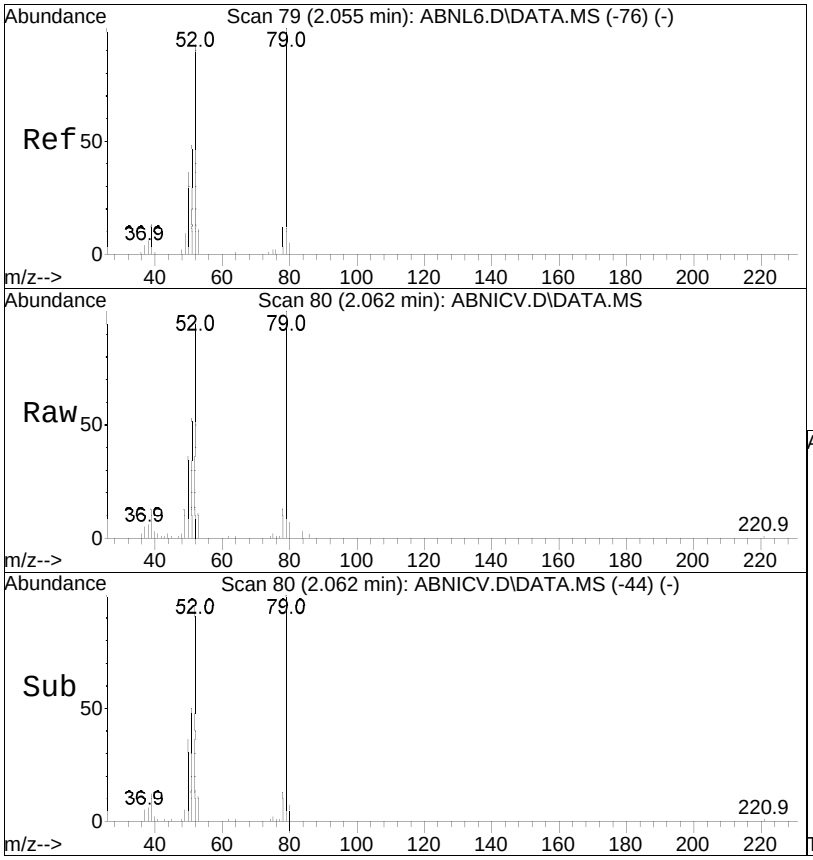


#2
n-Nitrosodimethylamine
Concen: 5.20 ug/ml
RT: 2.004 min Scan# 72
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion: 74 Resp: 51950

Ion	Ratio	Lower	Upper
74	100		
42	110.7	100.0	150.0
44	7.2	6.7	10.1

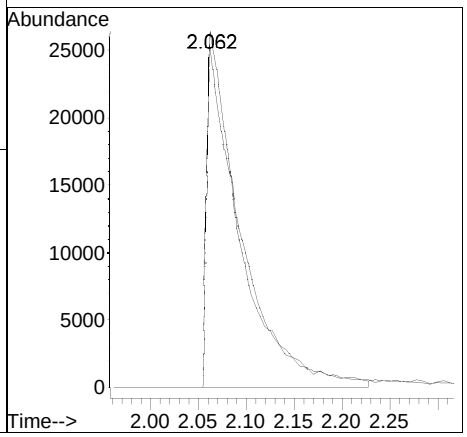


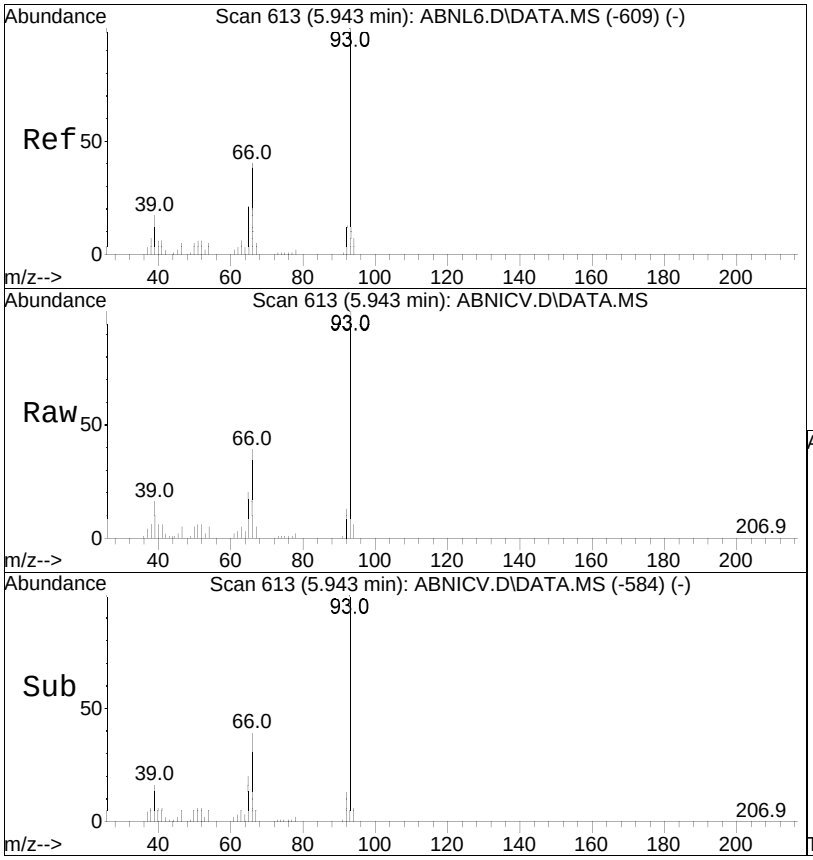


#3
Pyridine
Concen: 3.73 ug/ml
RT: 2.062 min Scan# 80
Delta R.T. 0.007 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion: 79 Resp: 64794

Ion	Ratio	Lower	Upper
79	100		
52	94.1	93.1	139.7

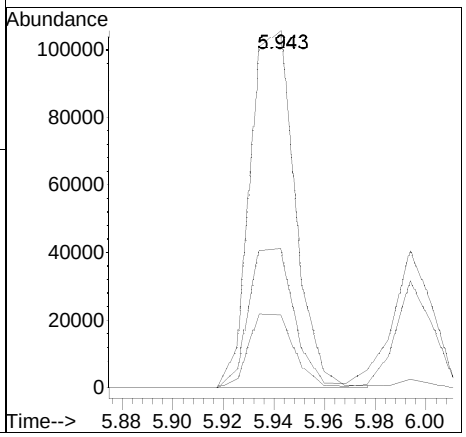


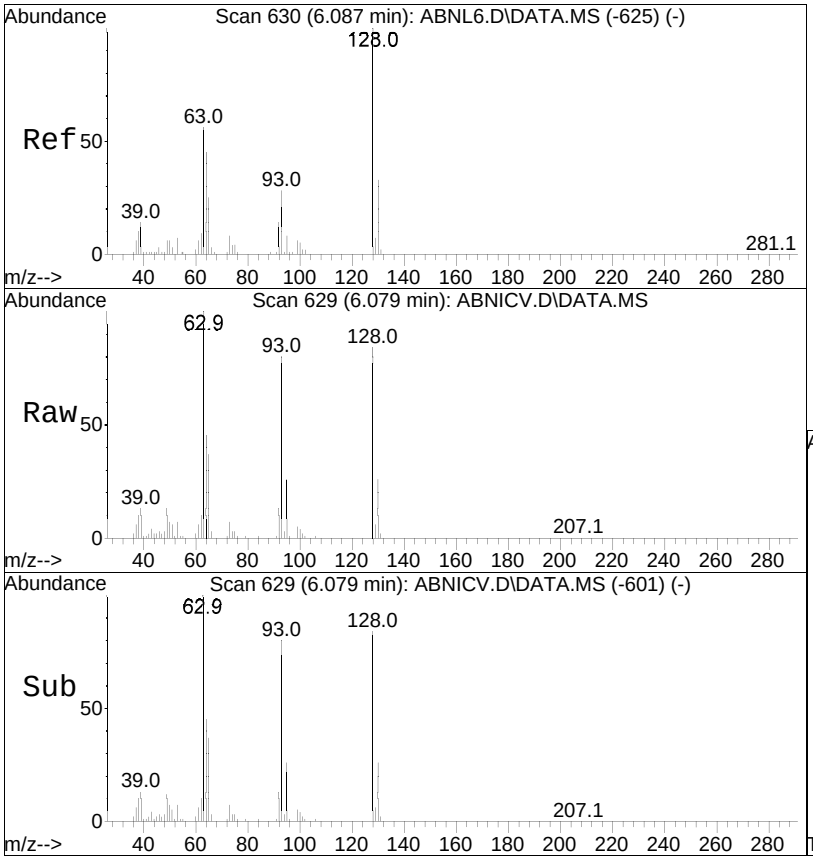


#5
Aniline
Concen: 5.38 ug/ml
RT: 5.943 min Scan# 613
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion: 93 Resp: 130036

Ion	Ratio	Lower	Upper
93	100		
66	40.0	32.6	49.0
65	21.0	17.6	26.4

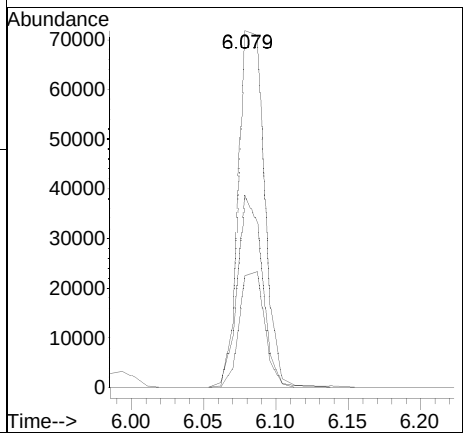


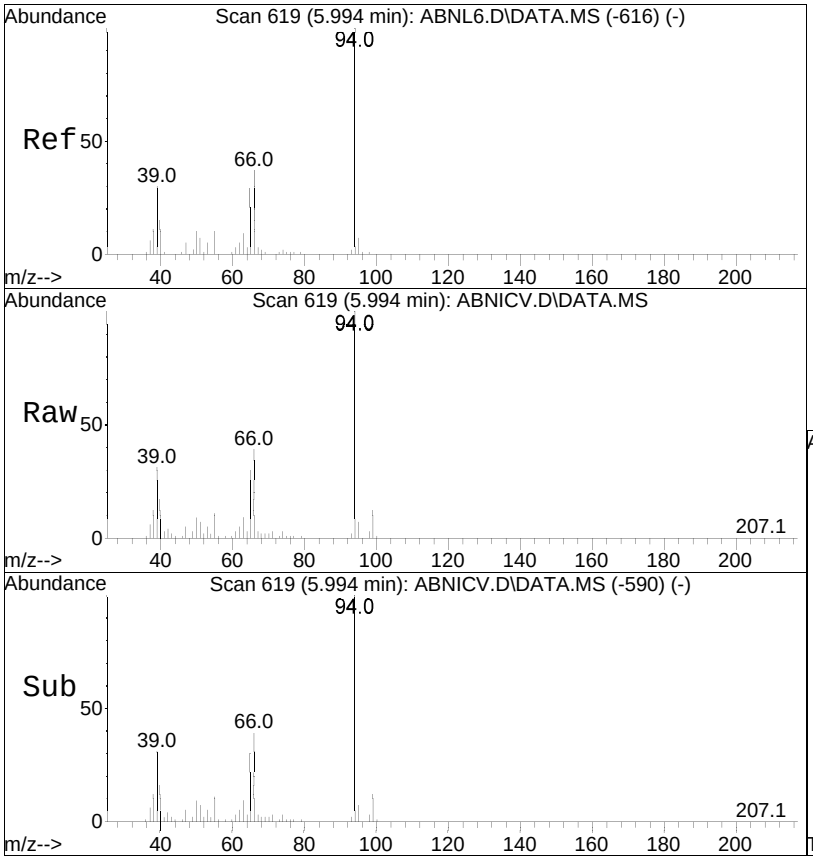


#6
2-Chlorophenol
Concen: 5.30 ug/ml
RT: 6.079 min Scan# 629
Delta R.T. -0.008 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:128 Resp: 89808

Ion	Ratio	Lower	Upper
128	100		
64	51.9	45.1	67.7
130	31.8	26.2	39.4

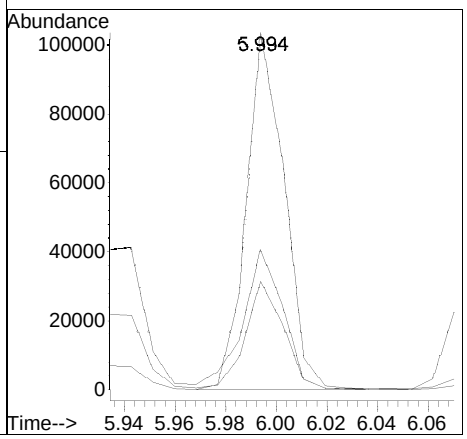


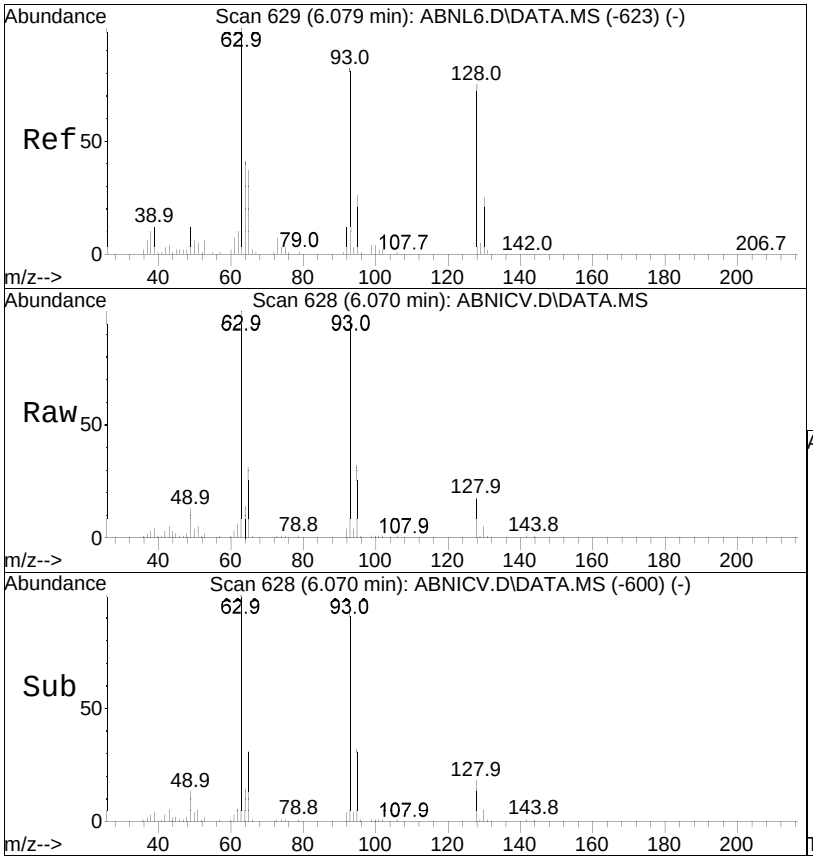


#8
Phenol
Concen: 5.29 ug/ml
RT: 5.994 min Scan# 619
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion: 94 Resp: 107273

Ion	Ratio	Lower	Upper
94	100		
65	30.9	26.0	39.0
66	42.3	33.8	50.8

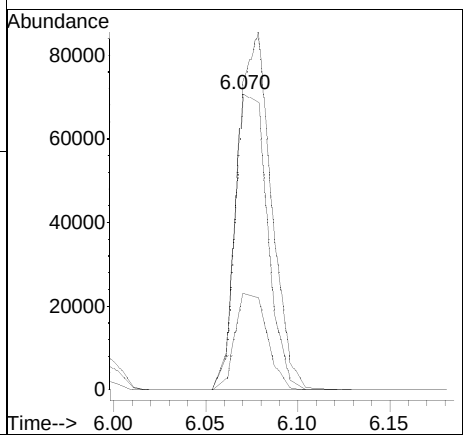


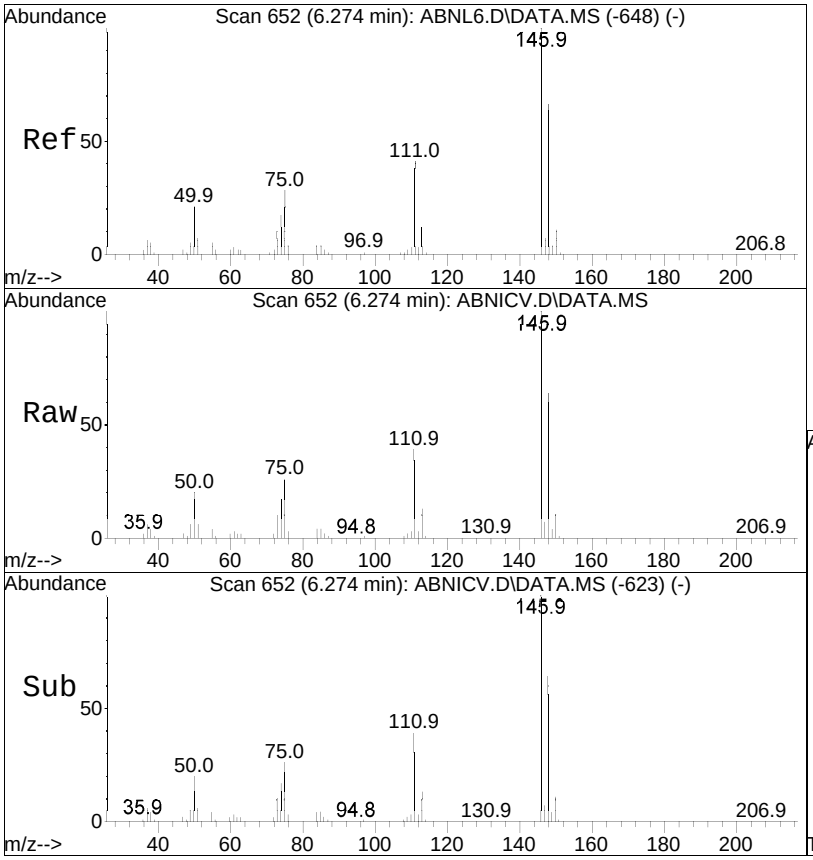


#9
Bis(2-chloroethyl)ether
Concen: 5.33 ug/ml
RT: 6.070 min Scan# 628
Delta R.T. -0.009 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion: 93 Resp: 85977

Ion	Ratio	Lower	Upper
93	100		
63	125.7	74.6	111.8#
95	32.3	25.9	38.9

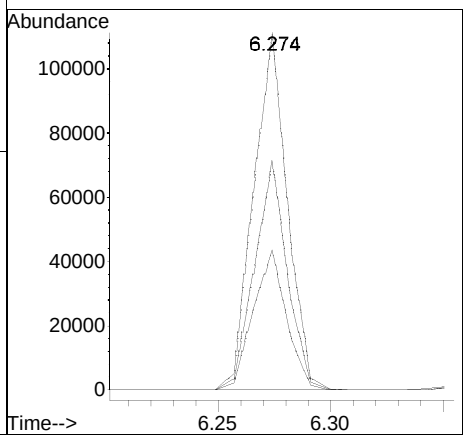


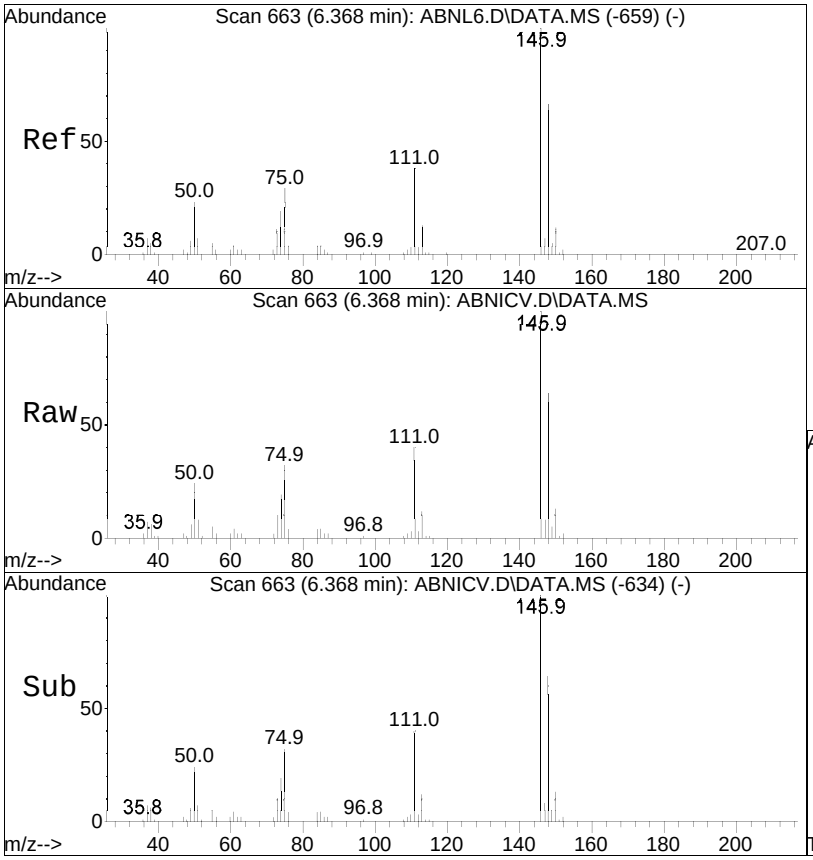


#10
1,3-Dichlorobenzene
Concen: 5.33 ug/ml
RT: 6.274 min Scan# 652
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:146 Resp: 114203

Ion	Ratio	Lower	Upper
146	100		
111	38.9	34.3	51.5
148	62.2	50.8	76.2

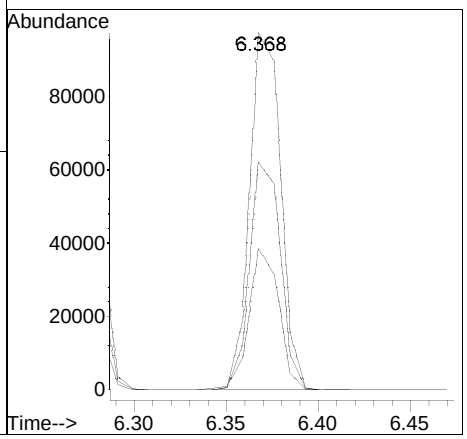


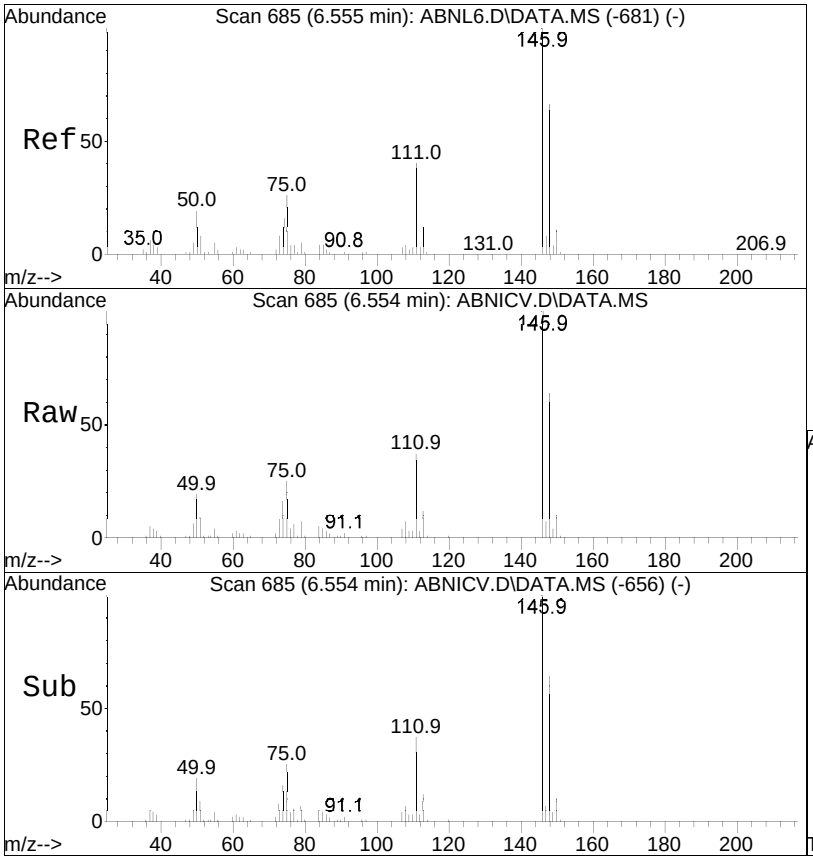


#11
1,4-Dichlorobenzene
Concen: 5.20 ug/ml
RT: 6.368 min Scan# 663
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:146 Resp: 113836

Ion	Ratio	Lower	Upper
146	100		
148	63.3	50.7	76.1
111	38.0	33.4	50.0

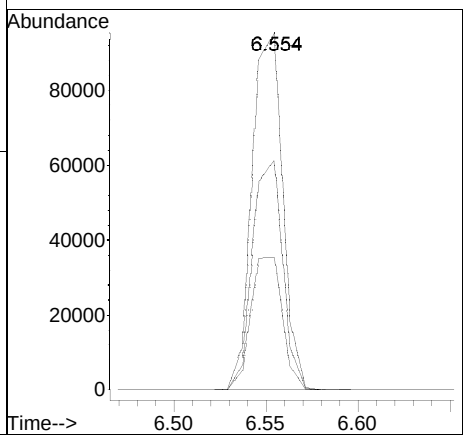


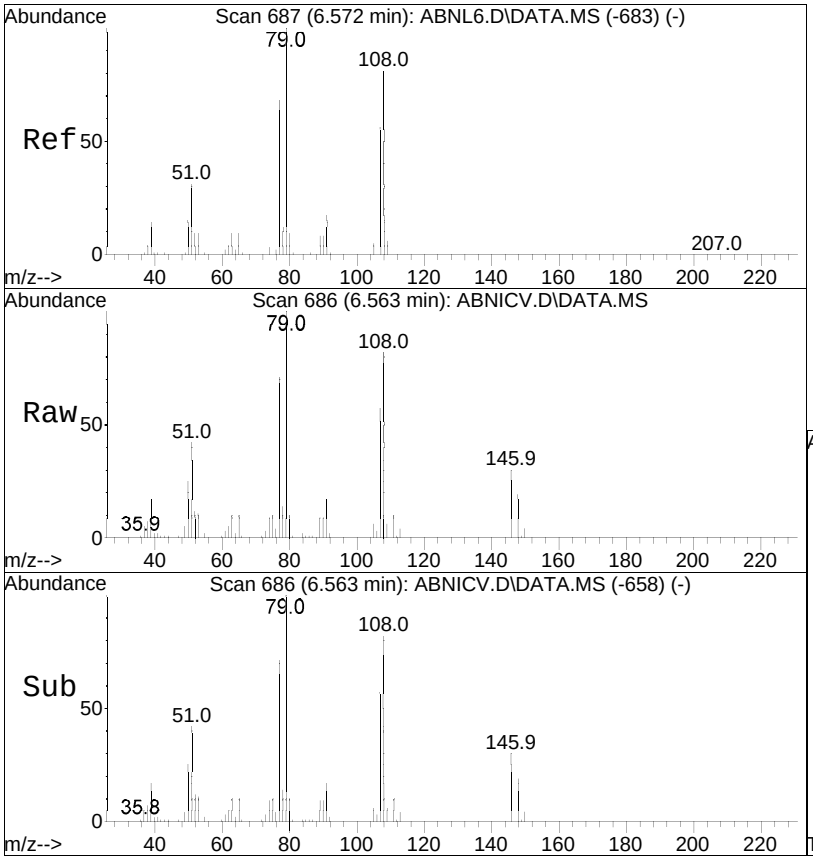


#12
1,2-Dichlorobenzene
Concen: 5.28 ug/ml
RT: 6.554 min Scan# 685
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:146 Resp: 109498

Ion	Ratio	Lower	Upper
146	100		
111	38.4	34.6	52.0
148	63.3	50.2	75.4

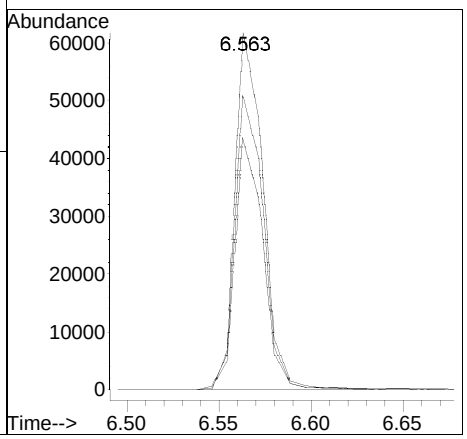


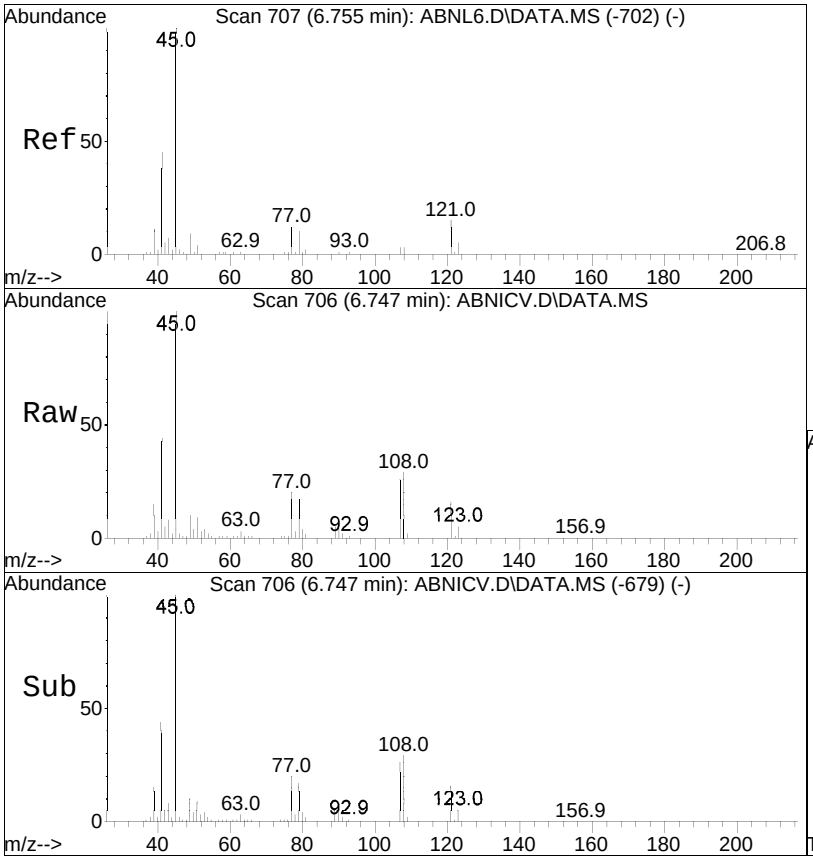


#13
Benzyl alcohol
Concen: 5.16 ug/ml
RT: 6.563 min Scan# 686
Delta R.T. -0.009 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion: 79 Resp: 65361

Ion	Ratio	Lower	Upper
79	100		
77	70.9	54.9	82.3
108	84.2	63.1	94.7

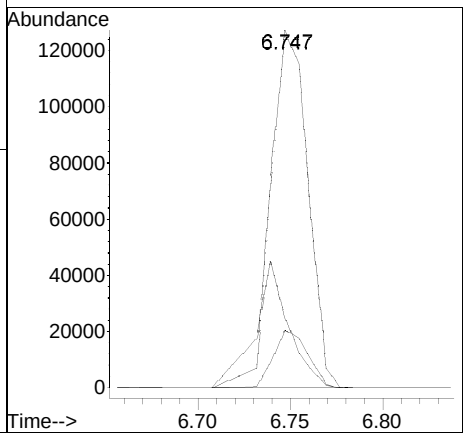


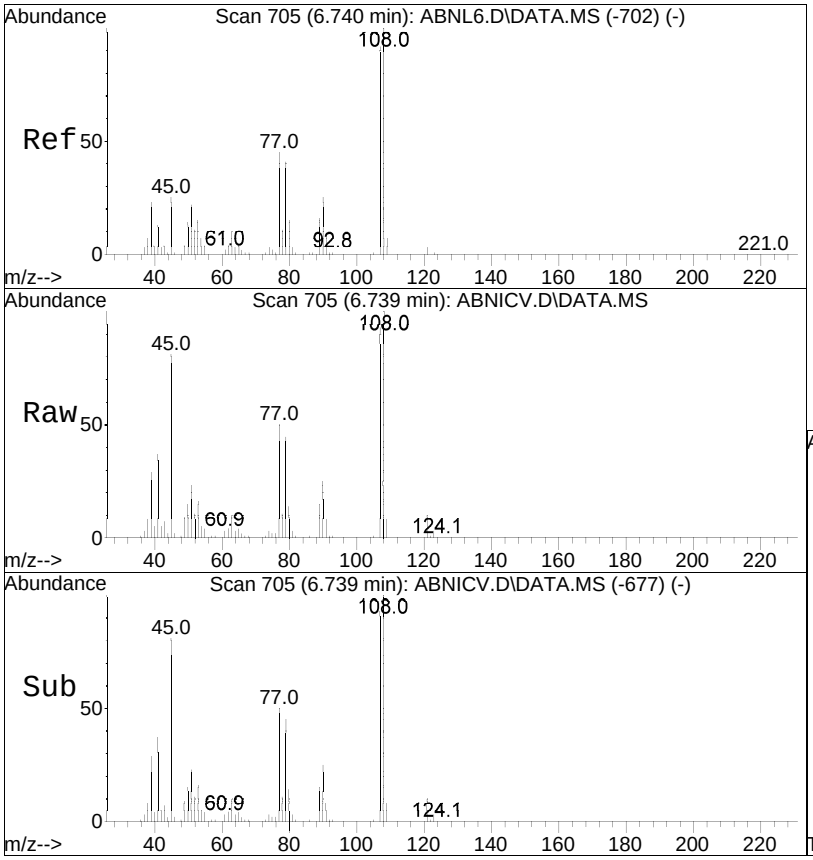


#14
Bis(2-chloroisopropyl)ether
Concen: 5.70 ug/ml
RT: 6.747 min Scan# 706
Delta R.T. -0.008 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion: 45 Resp: 214270

Ion	Ratio	Lower	Upper
45	100		
121	15.5	9.8	14.6#
77	28.2	6.1	9.1#

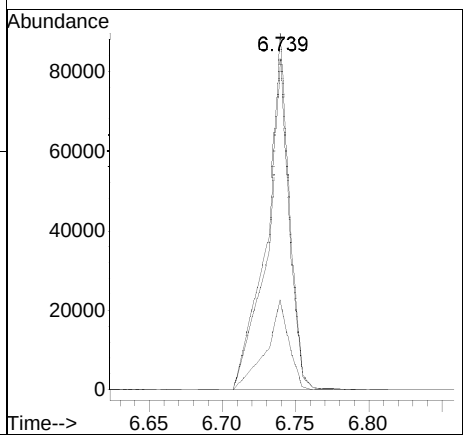


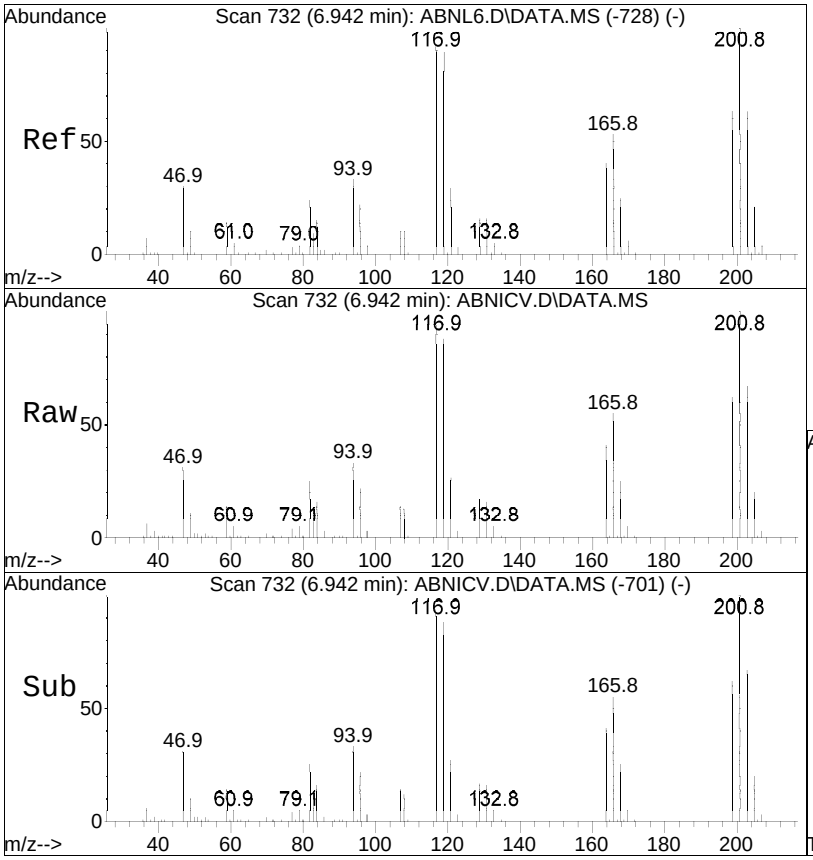


#15
2-Methylphenol
Concen: 5.19 ug/ml
RT: 6.739 min Scan# 705
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:108 Resp: 92542

Ion	Ratio	Lower	Upper
108	100		
107	90.8	70.7	106.1
90	26.6	18.7	28.1

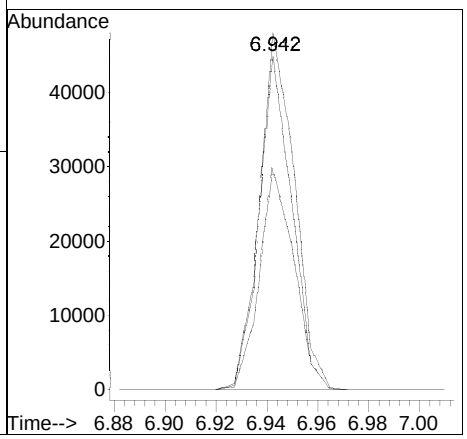


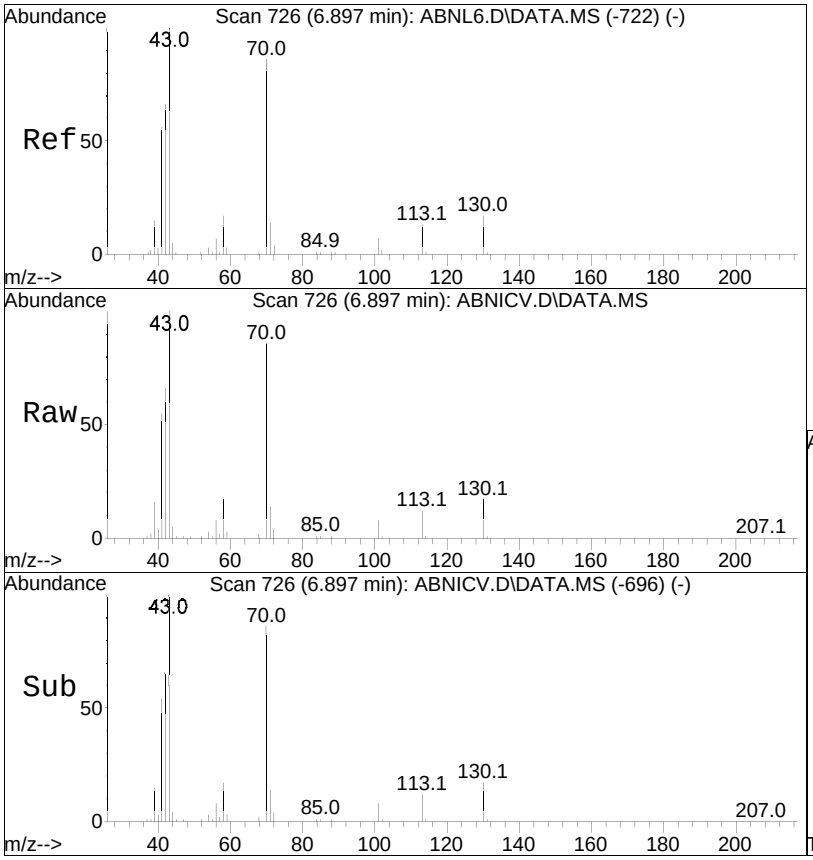


#16
Hexachloroethane
Concen: 5.31 ug/ml
RT: 6.942 min Scan# 732
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:117 Resp: 40367

Ion	Ratio	Lower	Upper
117	100		
201	112.5	58.6	87.8#
199	69.6	36.9	55.3#

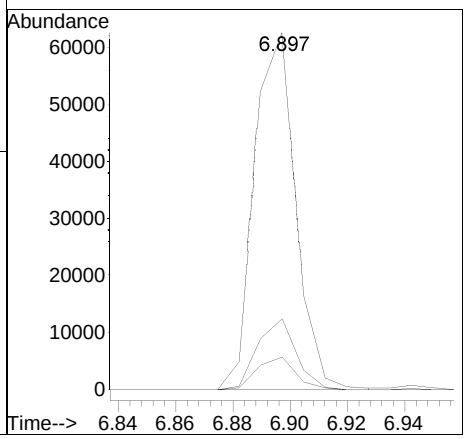


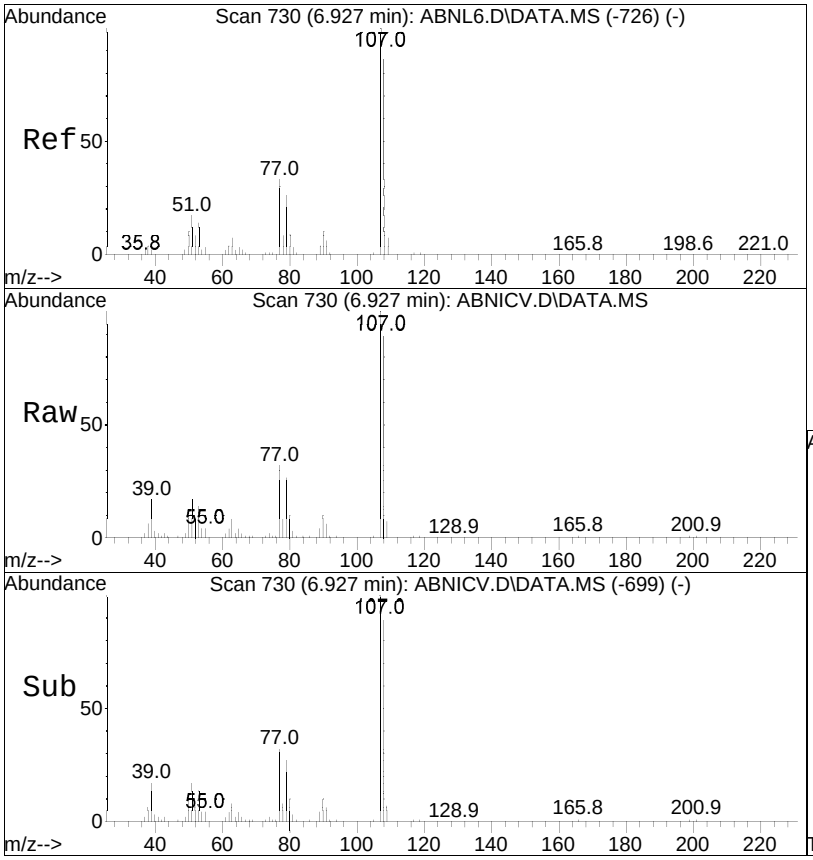


#17
n-Nitrosodi-n-propylamine
Concen: 5.27 ug/ml
RT: 6.897 min Scan# 726
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion: 70 Resp: 62622

Ion	Ratio	Lower	Upper
70	100		
130	18.5	18.2	27.4
101	8.6	7.8	11.8

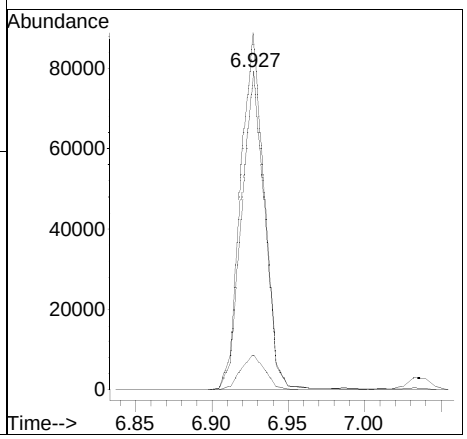


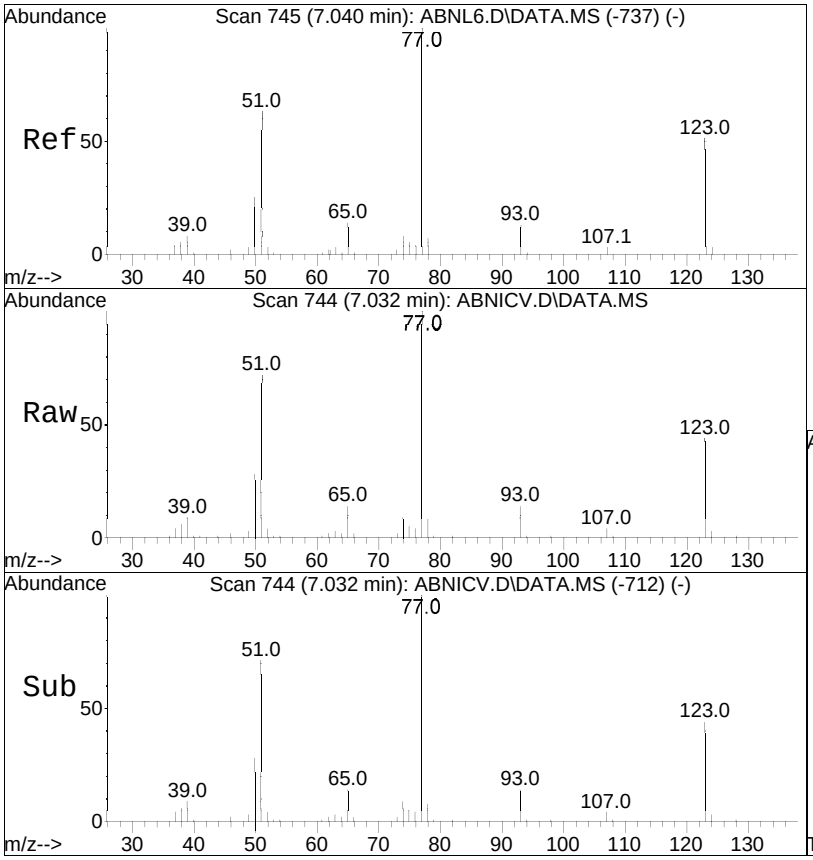


#18
3-Methylphenol/4-Methylphenol
Concen: 5.40 ug/ml
RT: 6.927 min Scan# 730
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:108 Resp: 83330

Ion	Ratio	Lower	Upper
108	100		
107	114.3	88.6	132.8
90	11.5	8.8	13.2

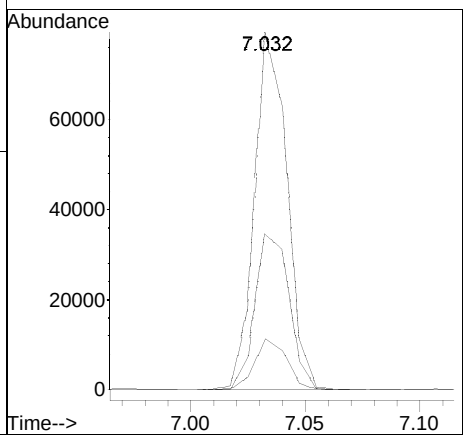


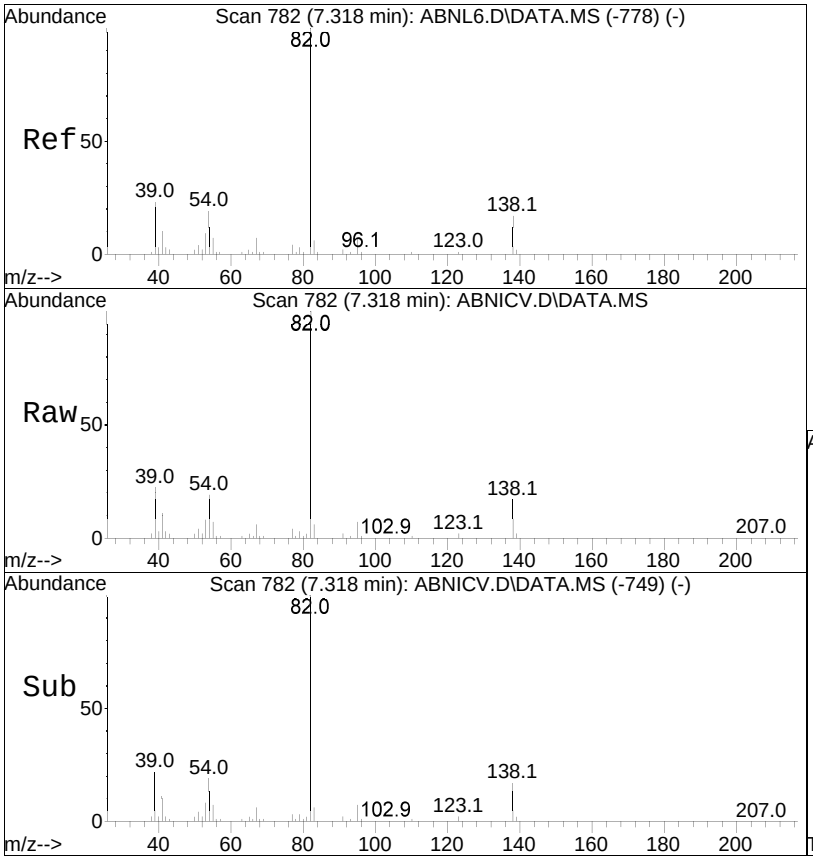


#20
Nitrobenzene
Concen: 5.00 ug/ml
RT: 7.032 min Scan# 744
Delta R.T. -0.008 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion: 77 Resp: 77805

Ion	Ratio	Lower	Upper
77	100		
123	46.2	36.3	54.5
65	14.7	11.6	17.4

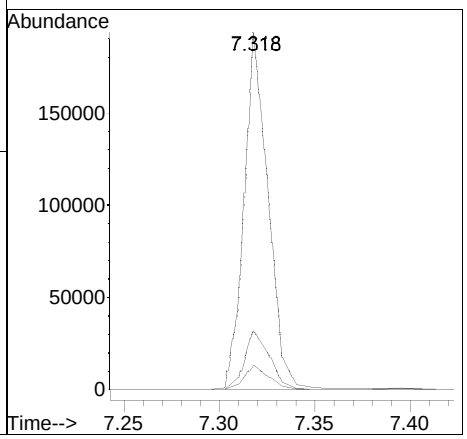


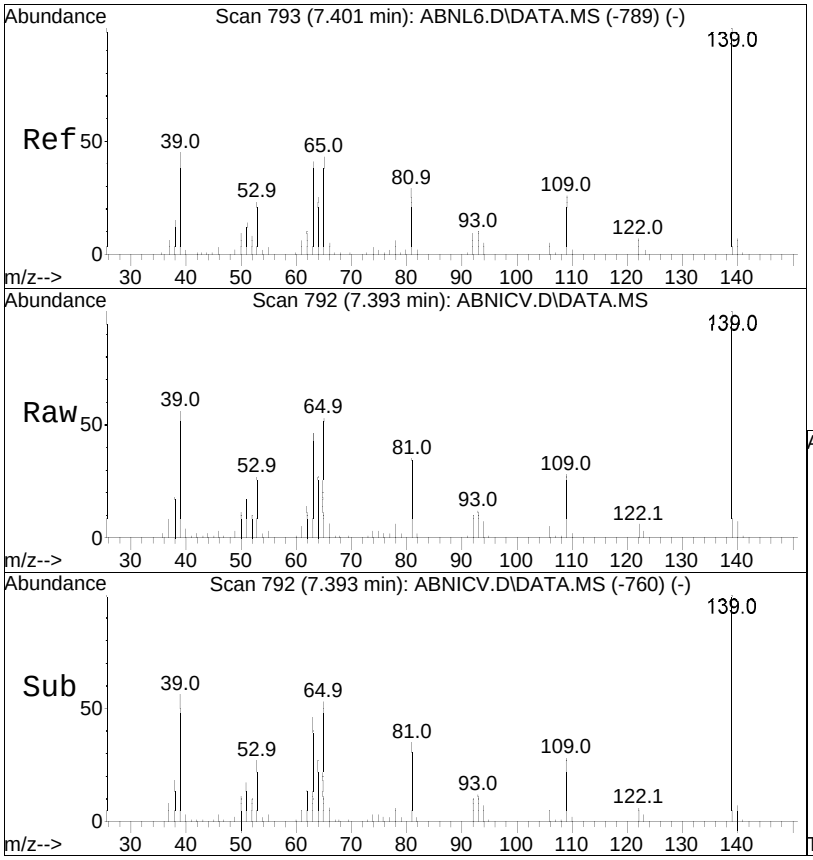


#21
Isophorone
Concen: 5.24 ug/ml
RT: 7.318 min Scan# 782
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion: 82 Resp: 167265

Ion	Ratio	Lower	Upper
82	100		
138	17.1	14.7	22.1
95	6.9	5.2	7.8

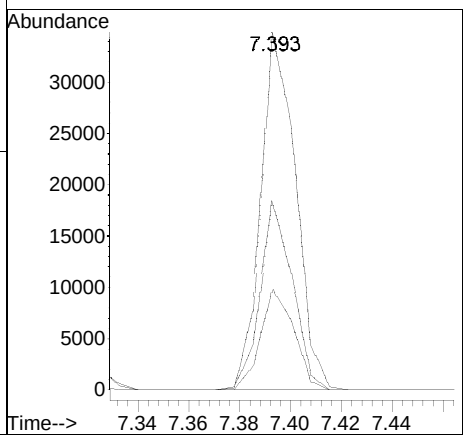


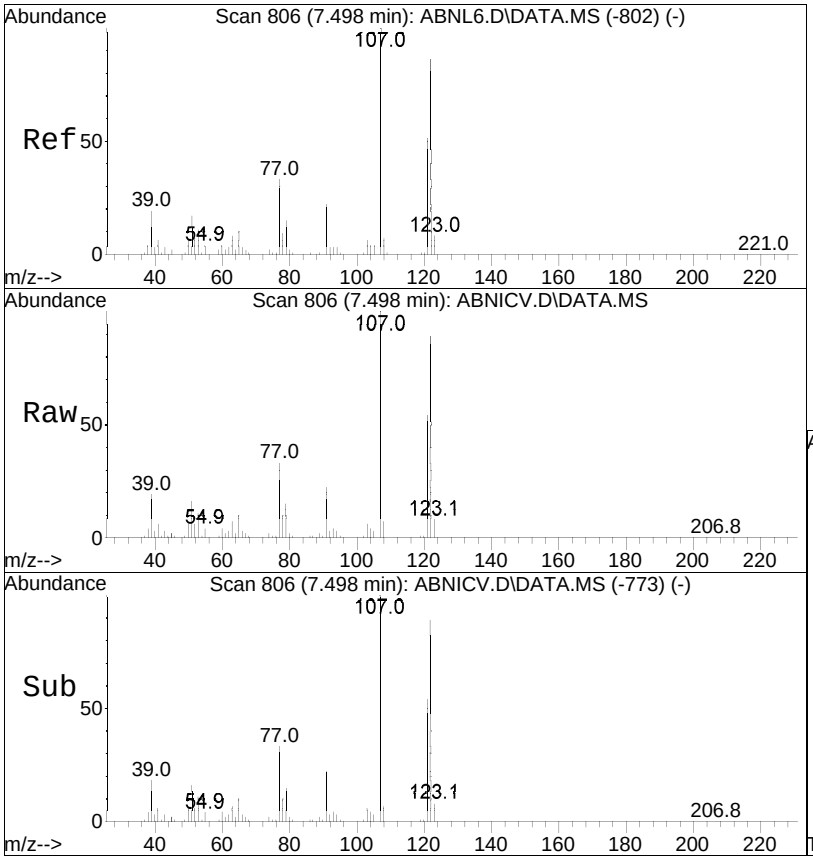


#22
2-Nitrophenol
Concen: 4.64 ug/ml
RT: 7.393 min Scan# 792
Delta R.T. -0.008 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:139 Resp: 32856

Ion	Ratio	Lower	Upper
139	100		
109	27.2	19.4	29.0
65	49.1	46.1	69.1

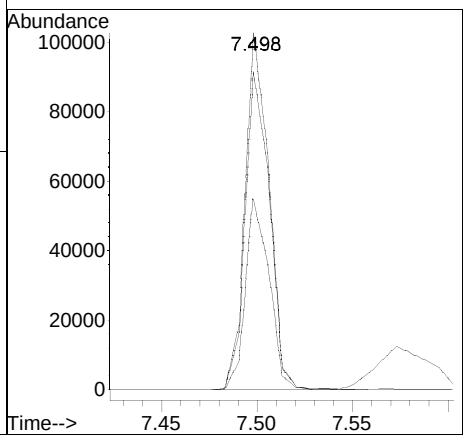


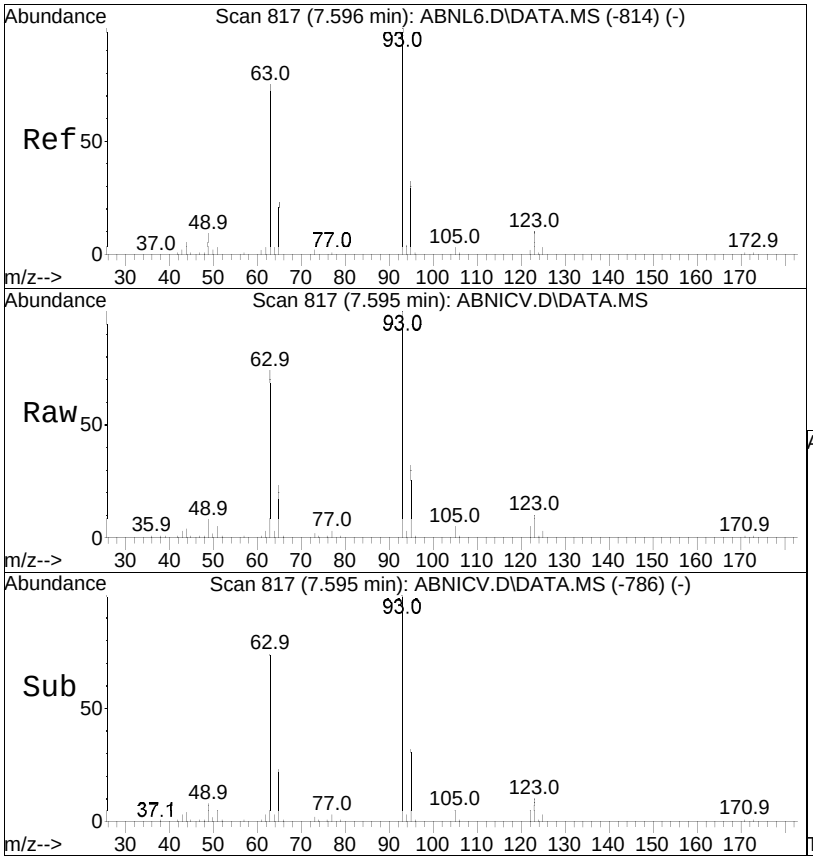


#23
2,4-Dimethylphenol
Concen: 5.35 ug/ml
RT: 7.498 min Scan# 806
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:107 Resp: 89154

Ion	Ratio	Lower	Upper
107	100		
121	53.4	40.0	60.0
122	90.2	70.2	105.4

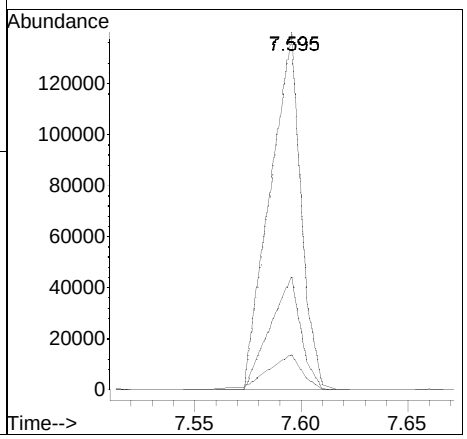


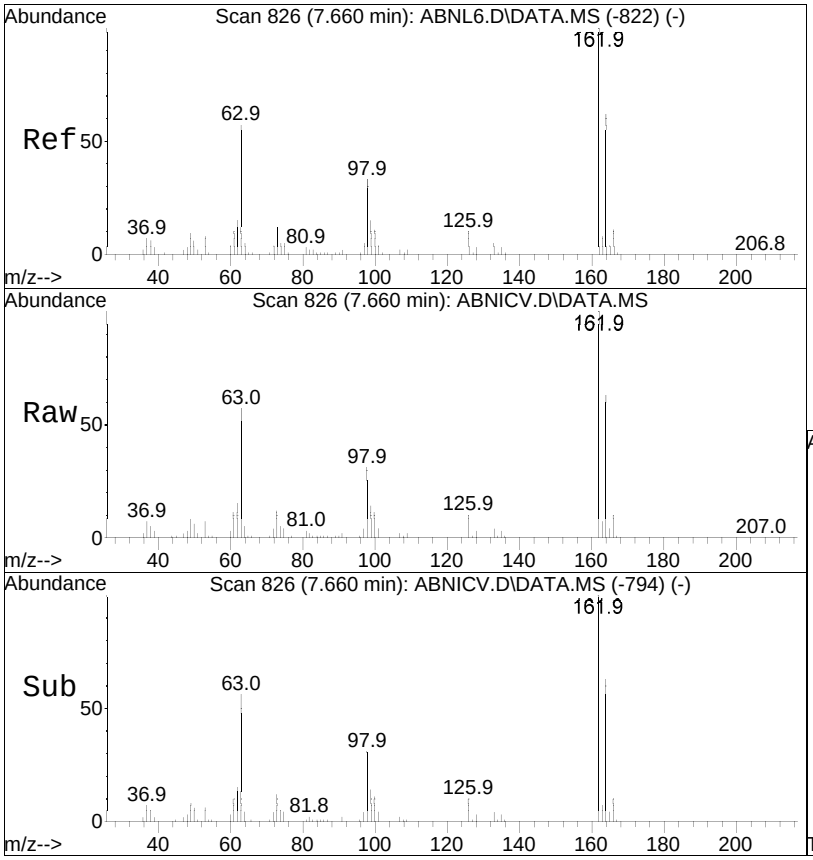


#24
Bis(2-chloroethoxy)methane
Concen: 4.19 ug/ml
RT: 7.595 min Scan# 817
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion: 93 Resp: 95427

Ion	Ratio	Lower	Upper
93	100		
95	34.3	25.8	38.8
123	11.8	10.1	15.1

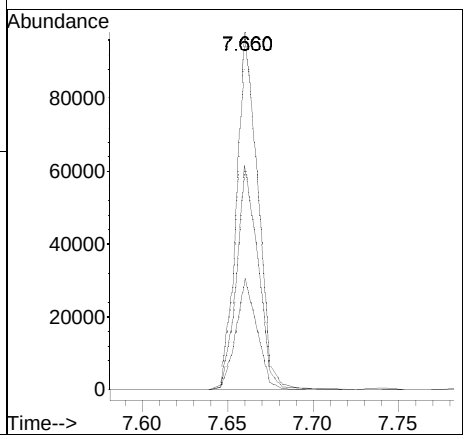


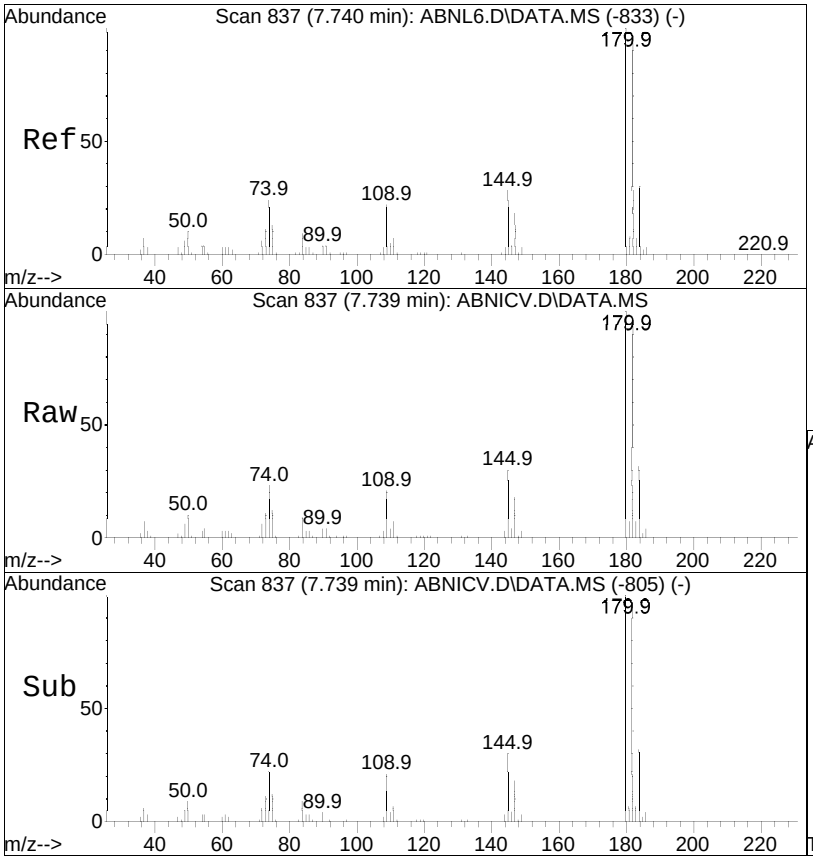


#25
2,4-Dichlorophenol
Concen: 5.34 ug/ml
RT: 7.660 min Scan# 826
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:162 Resp: 84500

Ion	Ratio	Lower	Upper
162	100		
164	63.7	51.0	76.4
98	30.9	32.2	48.2#

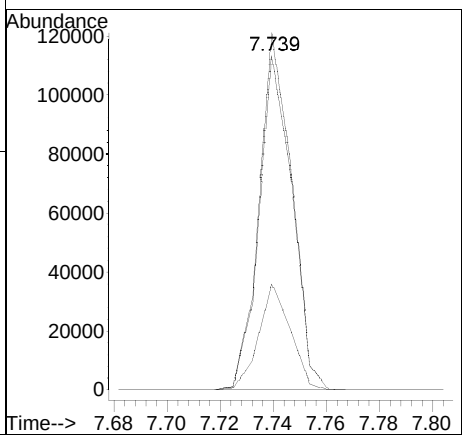


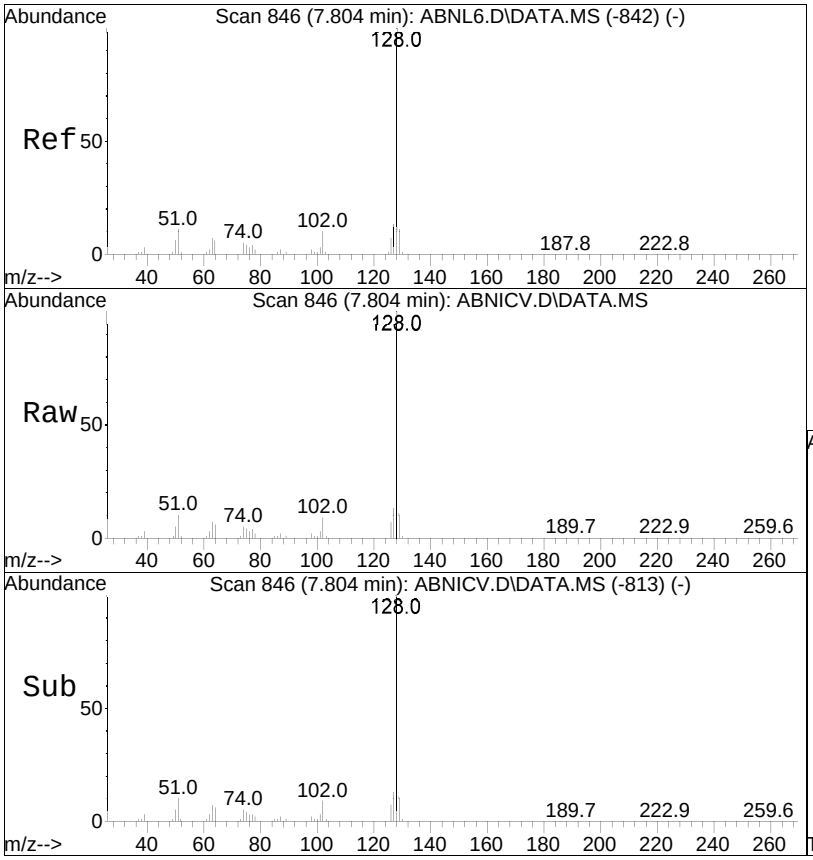


#26
1,2,4-Trichlorobenzene
Concen: 5.09 ug/ml
RT: 7.739 min Scan# 837
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:180 Resp: 103236

Ion	Ratio	Lower	Upper
180	100		
182	94.6	76.0	114.0
145	28.9	25.7	38.5

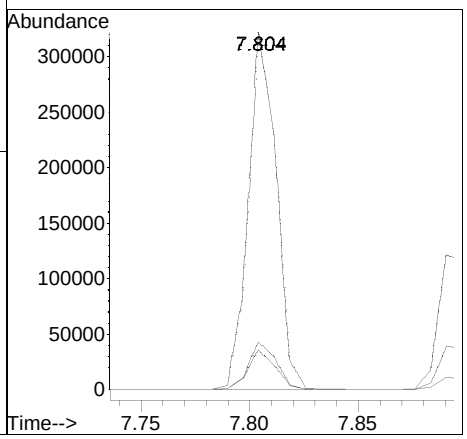


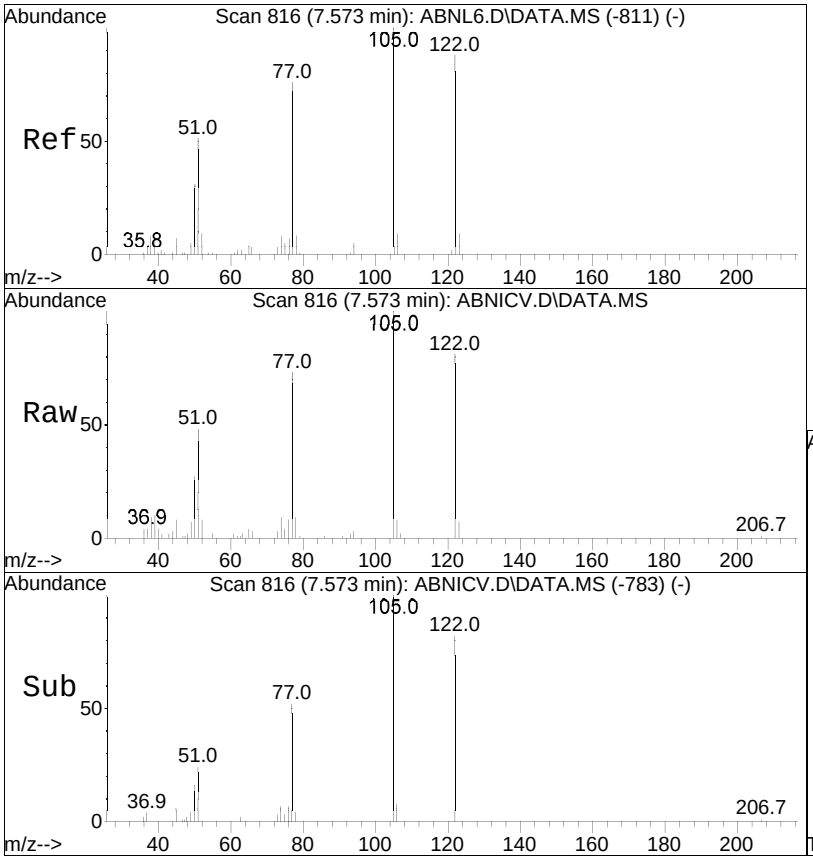


#36
Naphthalene
Concen: 5.20 ug/ml
RT: 7.804 min Scan# 846
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:128 Resp: 286040

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.7	13.1
127	13.3	10.3	15.5

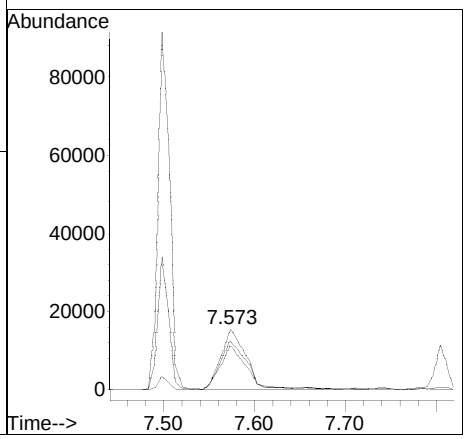


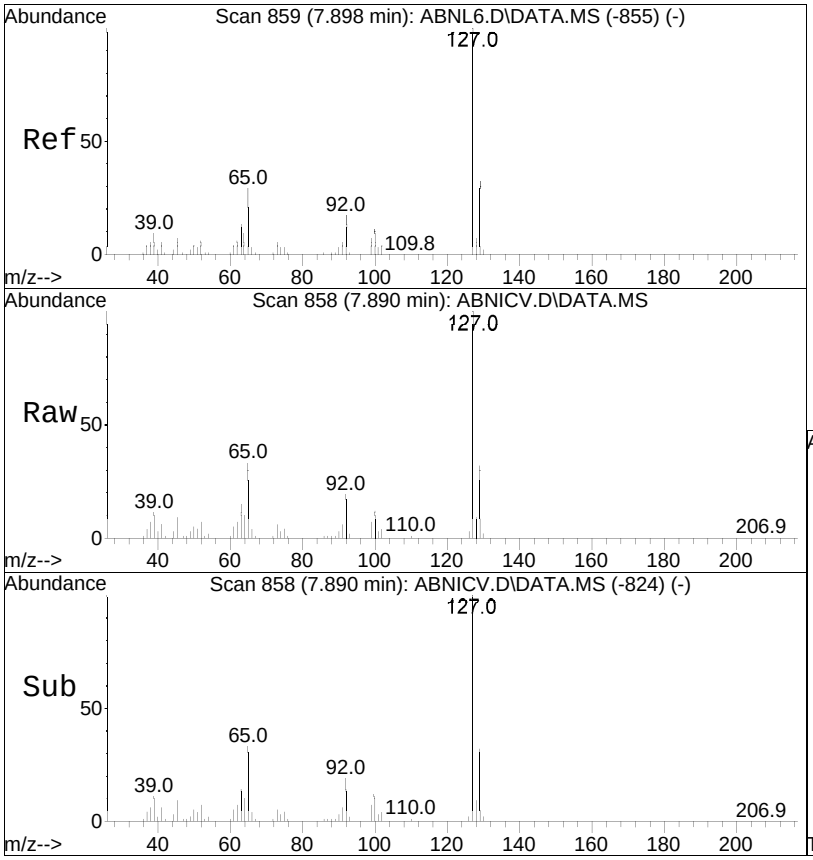


#37
Benzoic Acid
Concen: 3.50 ug/ml
RT: 7.573 min Scan# 816
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:105 Resp: 23560

Ion	Ratio	Lower	Upper
105	100		
122	80.2	59.9	89.9
77	74.8	60.1	90.1

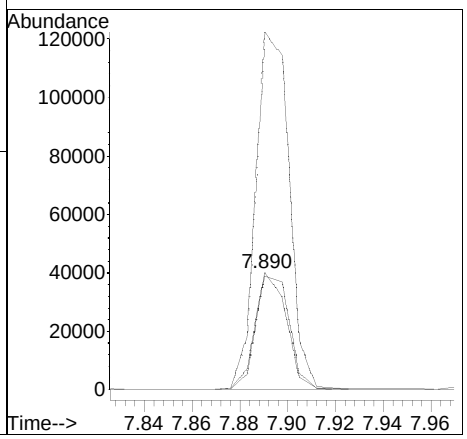


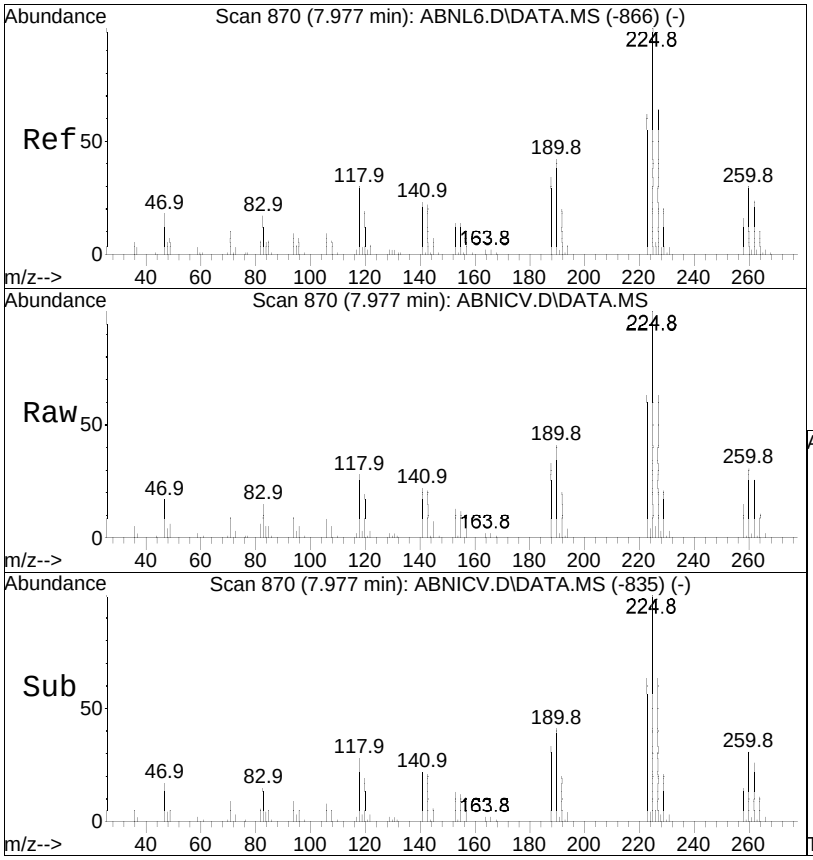


#38
4-Chloroaniline
Concen: 5.36 ug/ml
RT: 7.890 min Scan# 858
Delta R.T. -0.008 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion: 65 Resp: 36407

Ion	Ratio	Lower	Upper
65	100		
127	325.0	237.6	356.4
129	103.6	76.3	114.5

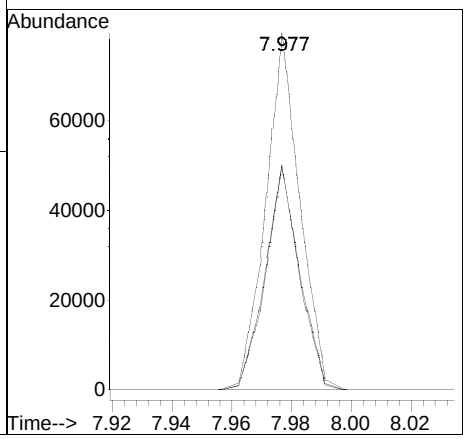


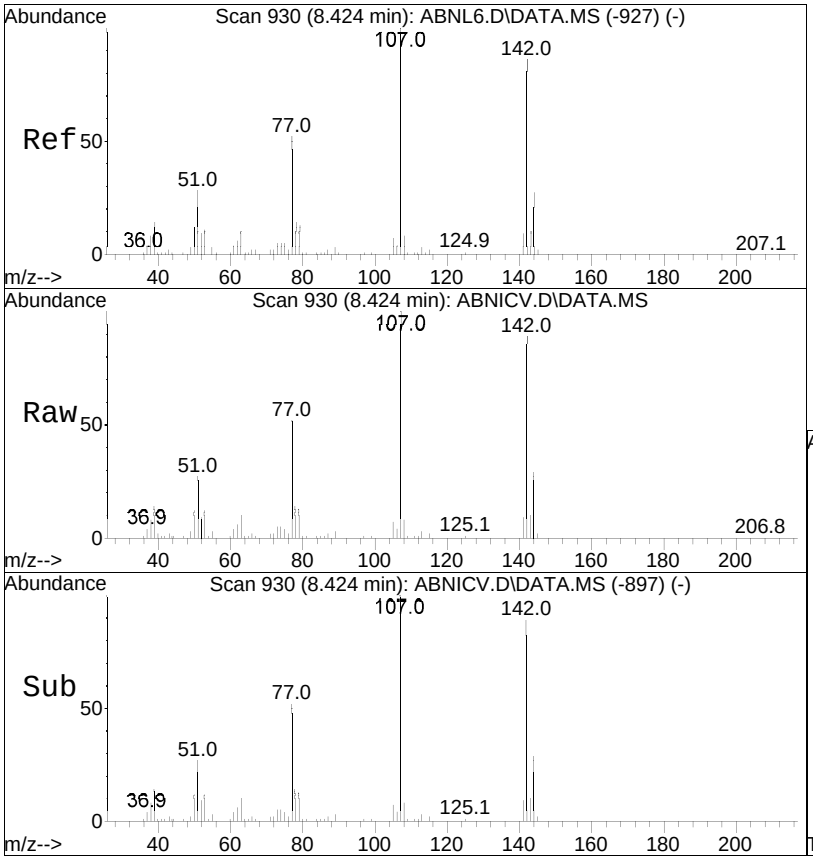


#39
Hexachlorobutadiene
Concen: 4.98 ug/ml
RT: 7.977 min Scan# 870
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:225 Resp: 62724

Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.3	75.5
227	63.0	52.2	78.2

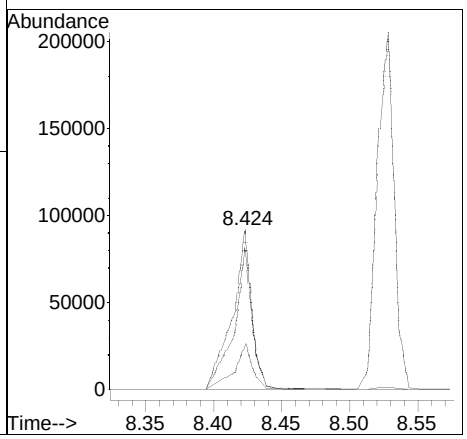


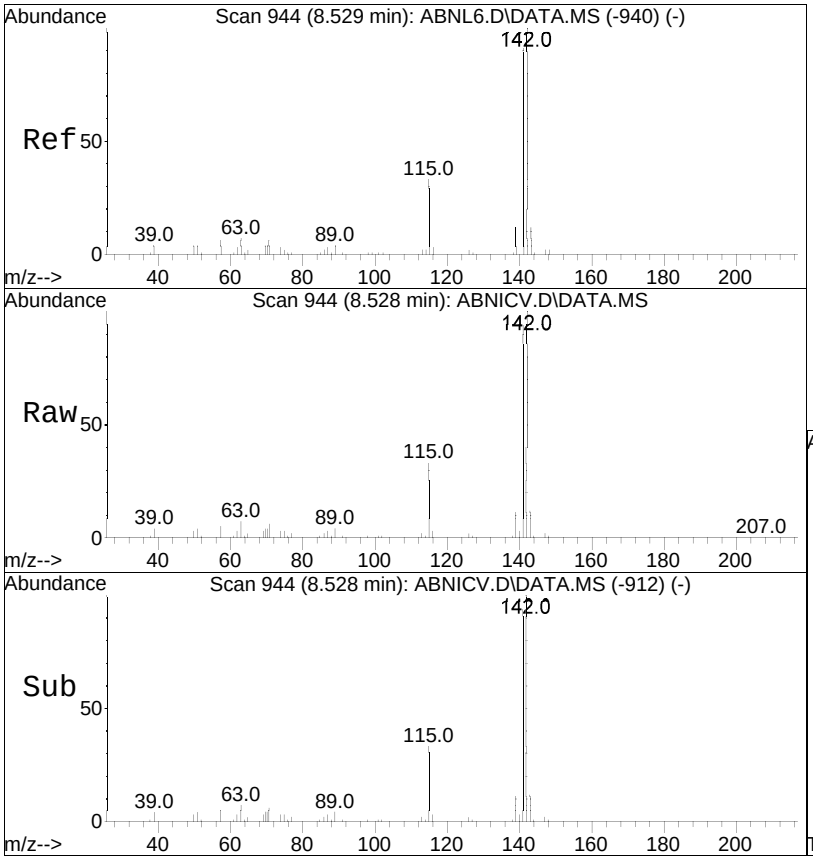


#40
p-Chloro-m-cresol
Concen: 4.93 ug/ml
RT: 8.424 min Scan# 930
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:107 Resp: 82686

Ion	Ratio	Lower	Upper
107	100		
144	29.2	20.9	31.3
142	86.8	66.1	99.1

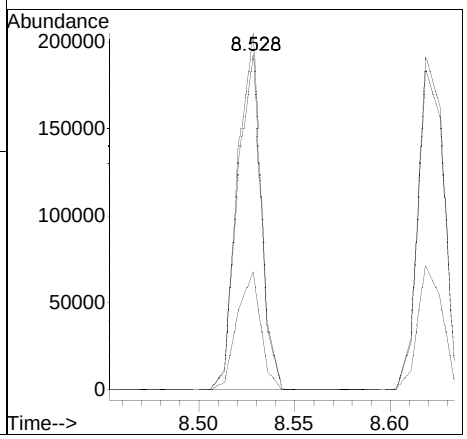


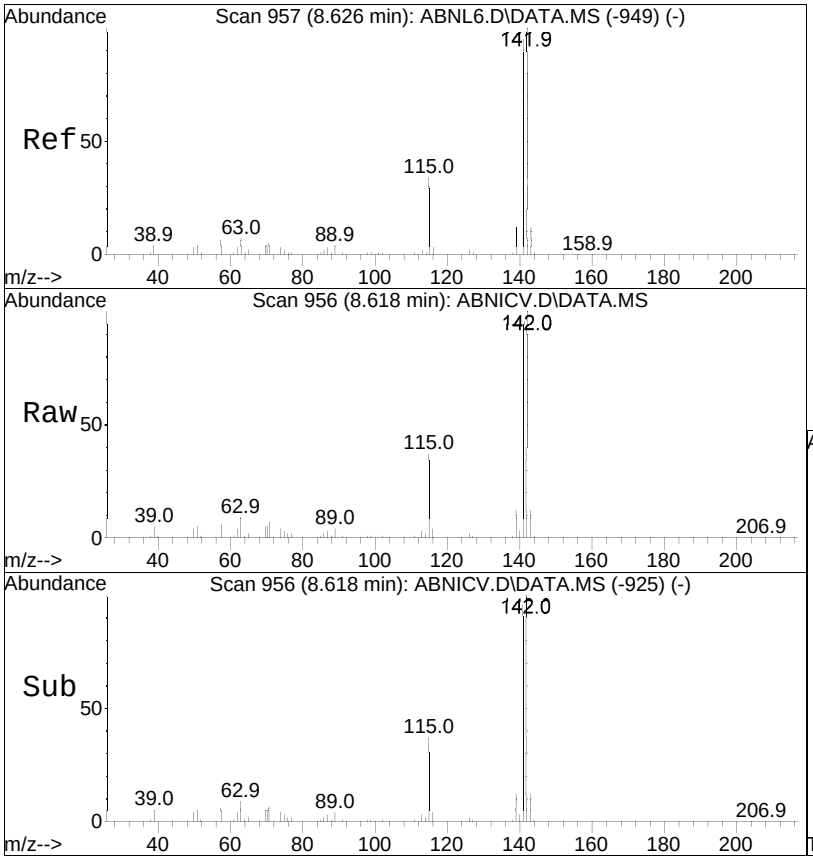


#41
2-Methylnaphthalene
Concen: 5.38 ug/ml
RT: 8.528 min Scan# 944
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:142 Resp: 176905

Ion	Ratio	Lower	Upper
142	100		
141	93.5	69.6	104.4
115	32.9	26.6	40.0

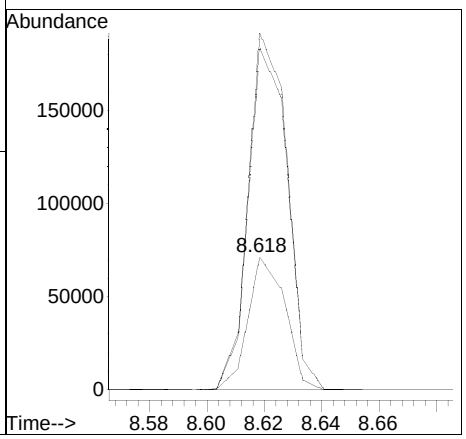


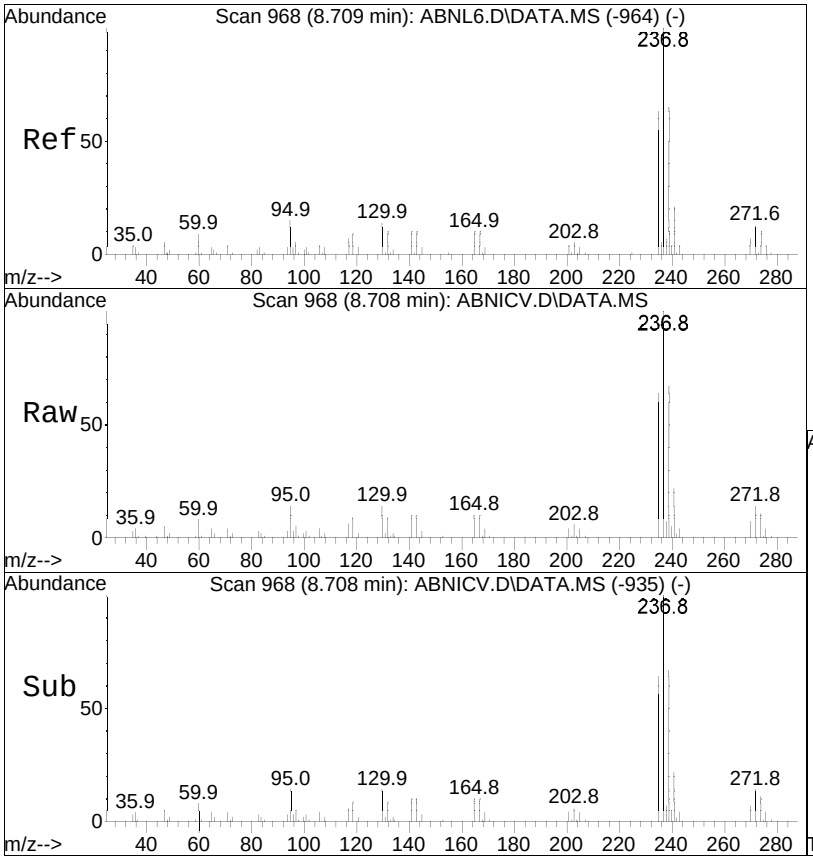


#42
1-Methylnaphthalene
Concen: 5.10 ug/ml
RT: 8.618 min Scan# 956
Delta R.T. -0.008 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:115 Resp: 64481

Ion	Ratio	Lower	Upper
115	100		
141	269.0	207.8	311.6
142	280.2	226.8	340.2

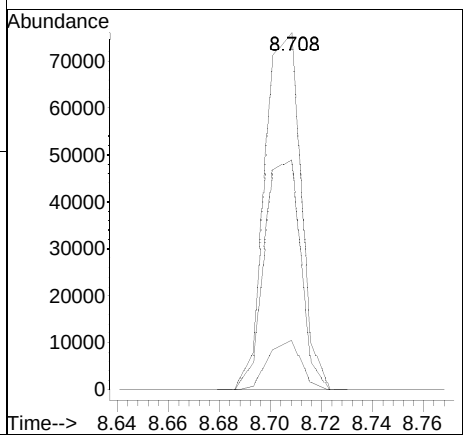


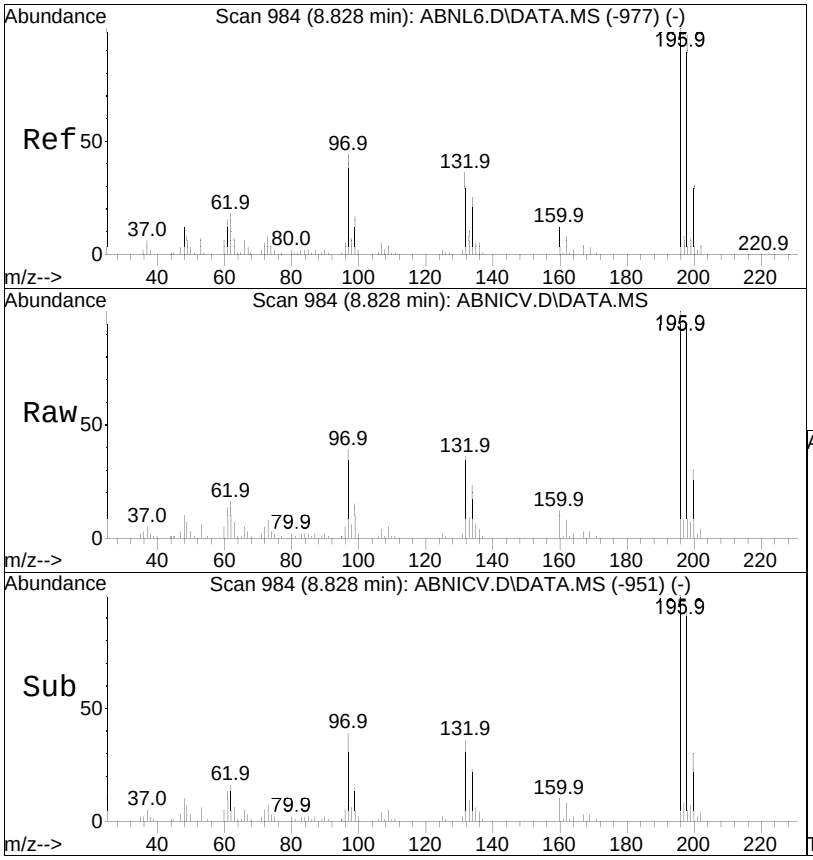


#43
Hexachlorocyclopentadiene
Concen: 4.82 ug/ml
RT: 8.708 min Scan# 968
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:237 Resp: 74521

Ion	Ratio	Lower	Upper
237	100		
235	64.8	49.7	74.5
272	12.9	9.8	14.6

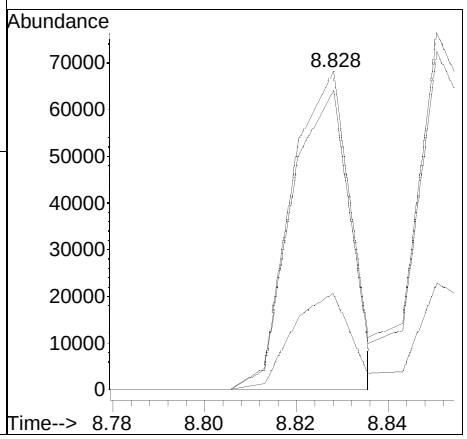


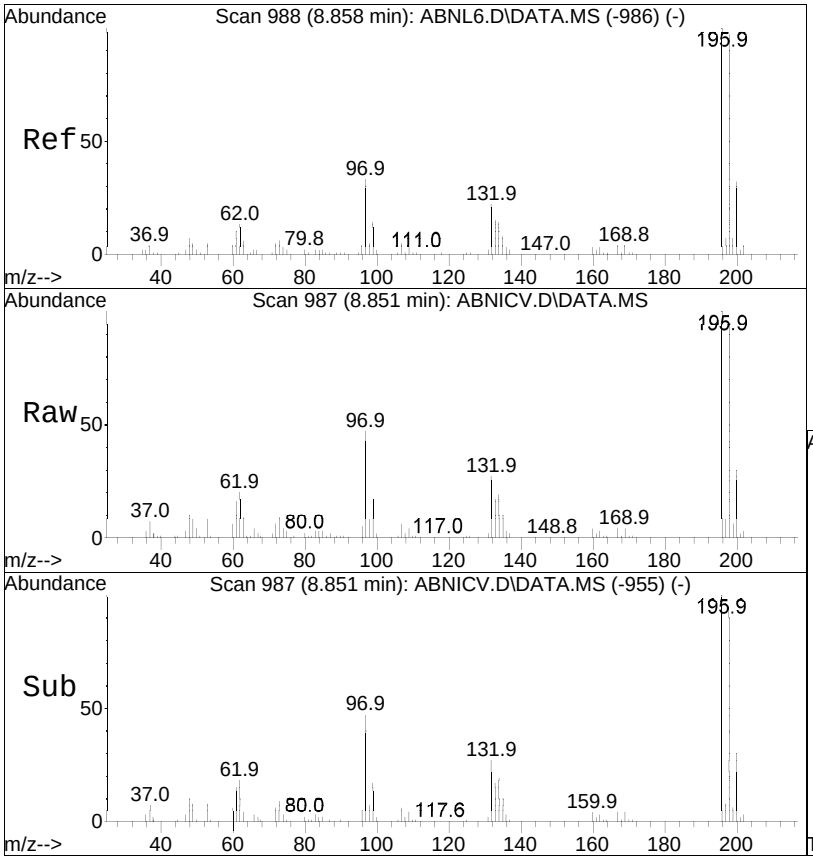


#44
2,4,6-Trichlorophenol
Concen: 4.77 ug/ml
RT: 8.828 min Scan# 984
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:196 Resp: 61811

Ion	Ratio	Lower	Upper
196	100		
198	93.5	77.5	116.3
200	30.0	23.8	35.6

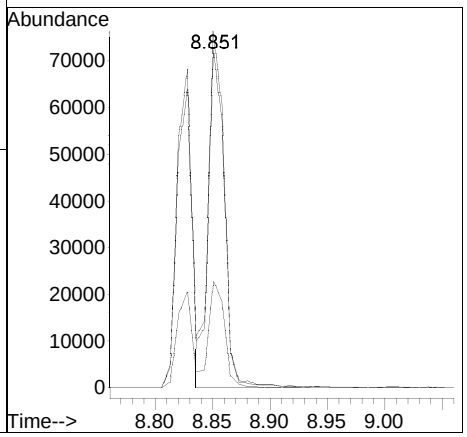


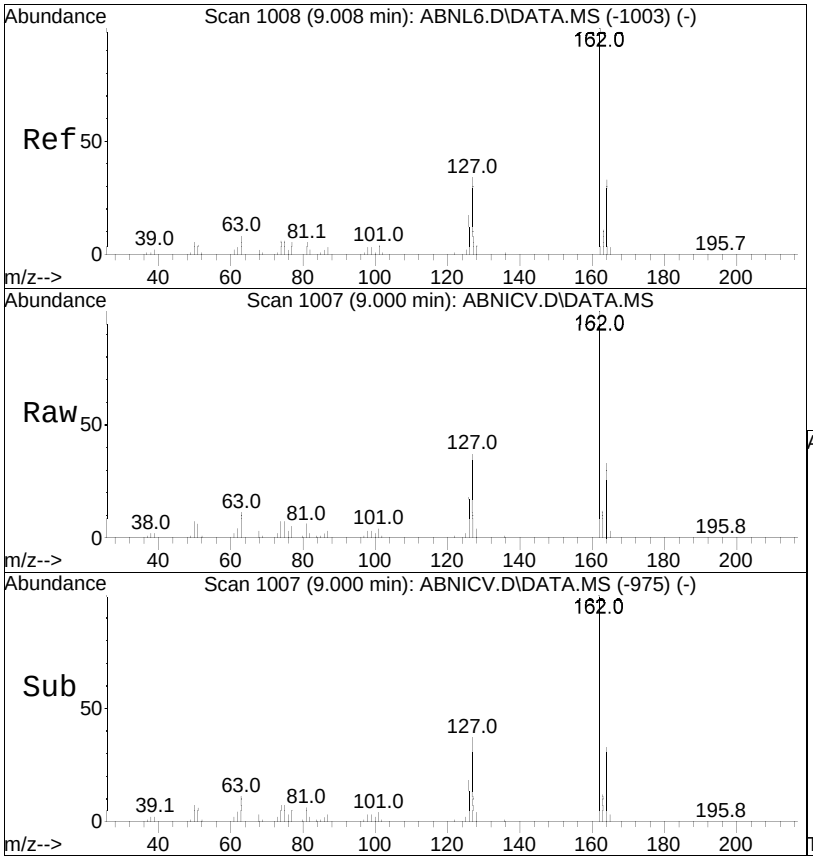


#45
2,4,5-Trichlorophenol
Concen: 5.65 ug/ml
RT: 8.851 min Scan# 987
Delta R.T. -0.007 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:196 Resp: 74264

Ion	Ratio	Lower	Upper
196	100		
200	29.9	25.4	38.0
198	93.0	78.0	117.0

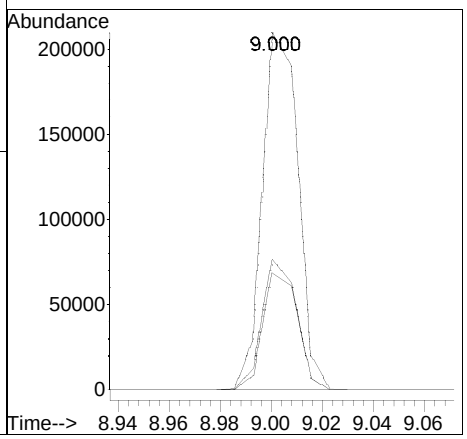


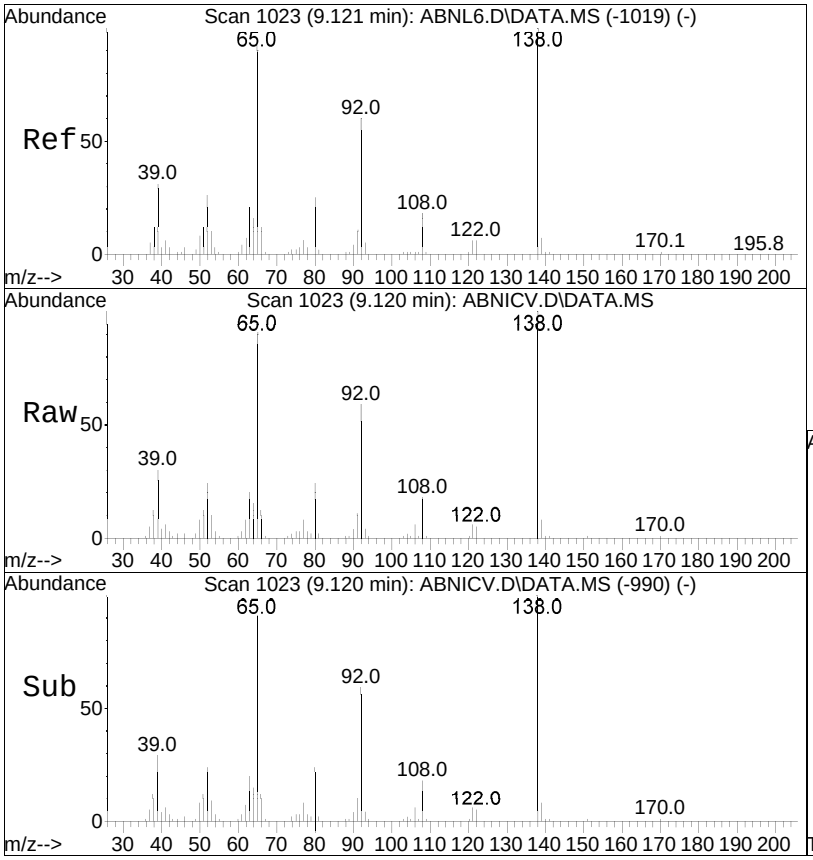


#47
2-Chloronaphthalene
Concen: 5.19 ug/ml
RT: 9.000 min Scan# 1007
Delta R.T. -0.008 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:162 Resp: 202516

Ion	Ratio	Lower	Upper
162	100		
127	35.4	32.2	48.4
164	32.2	25.7	38.5

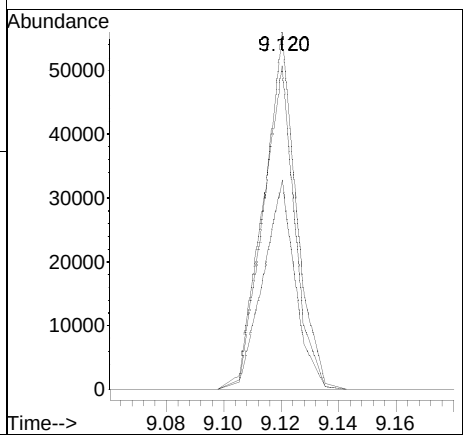


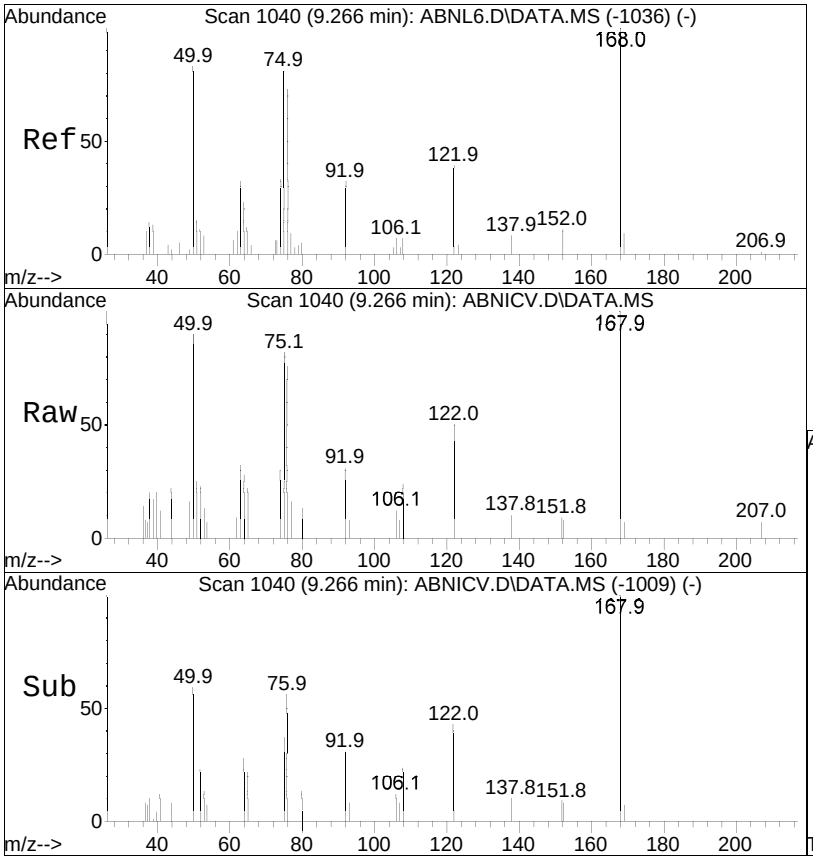


#48
2-Nitroaniline
Concen: 5.04 ug/ml
RT: 9.120 min Scan# 1023
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:138 Resp: 43241

Ion	Ratio	Lower	Upper
138	100		
92	58.8	53.5	80.3
65	92.2	86.3	129.5

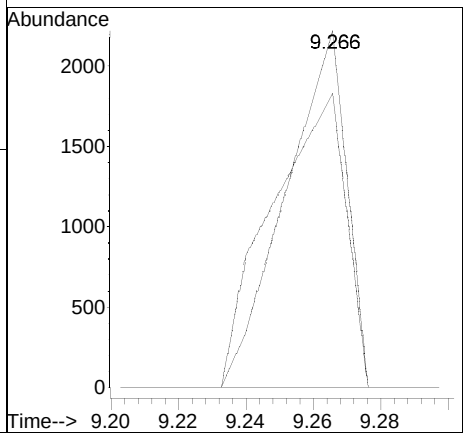


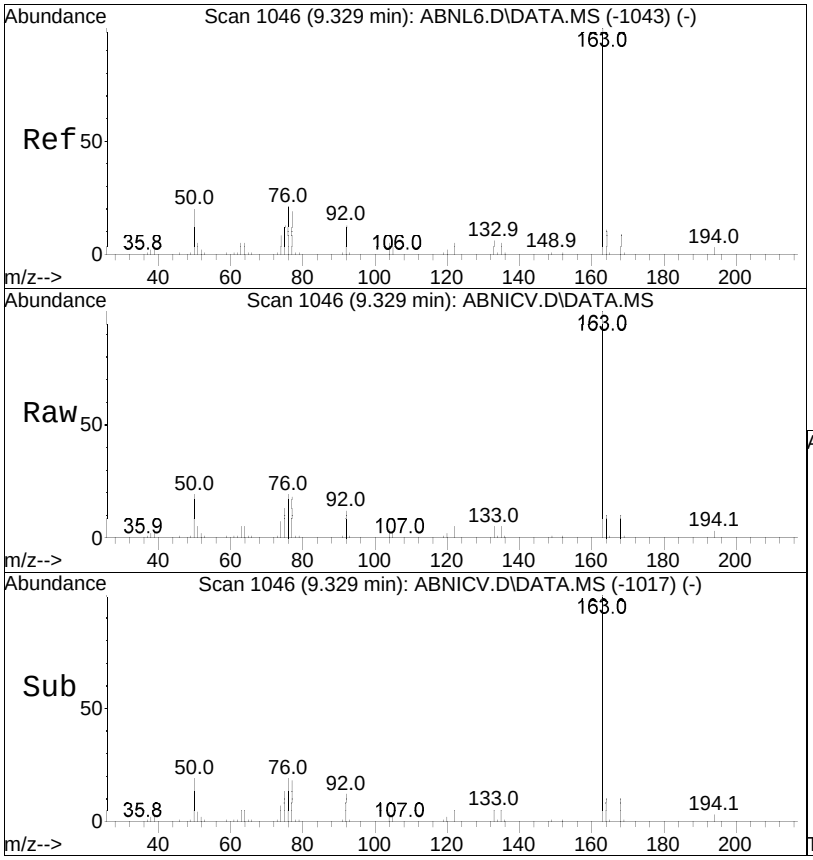


#49
1,4-Dinitrobenzene
Concen: 3.02 ug/ml M3
RT: 9.266 min Scan# 1040
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:168 Resp: 1972

Ion	Ratio	Lower	Upper
168	100		
75	1635.6	121.8	182.8#

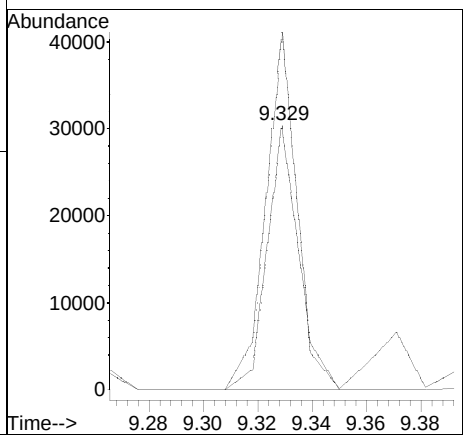


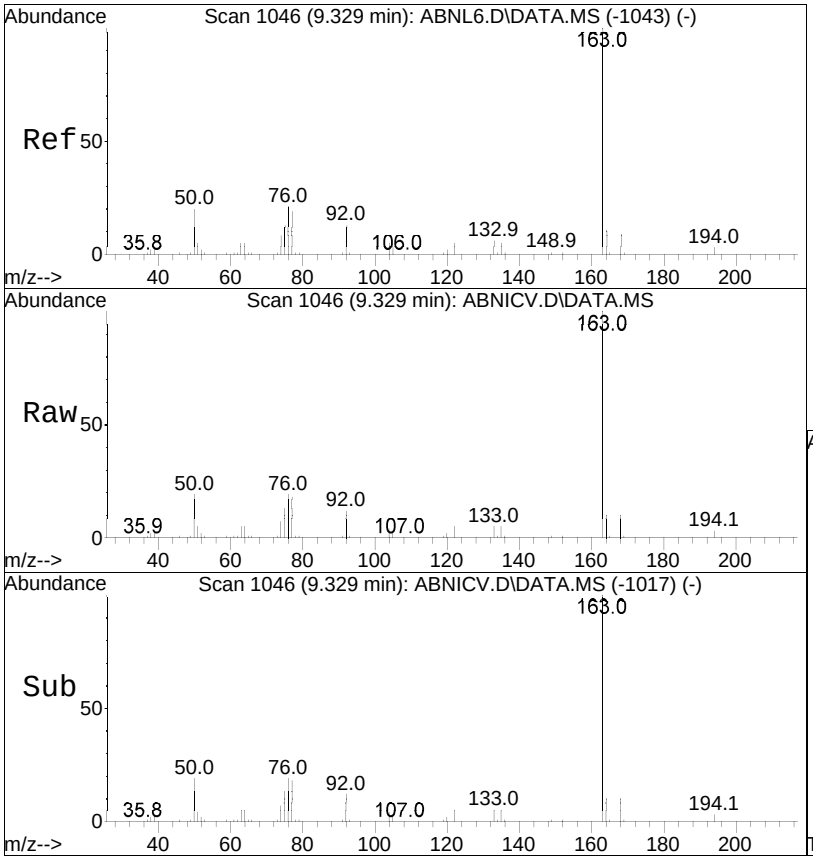


#50
1,3-Dinitrobenzene
Concen: 4.49 ug/ml
RT: 9.329 min Scan# 1046
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:168 Resp: 24161

Ion	Ratio	Lower	Upper
168	100		
75	133.5	22.7	34.1#

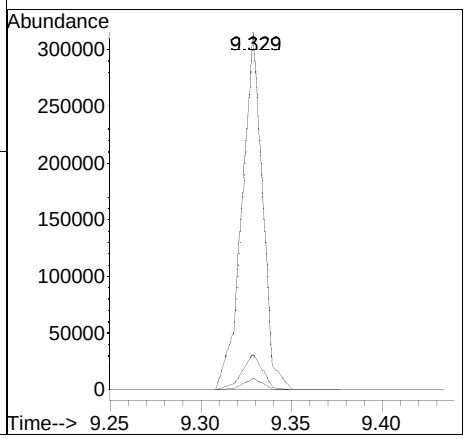


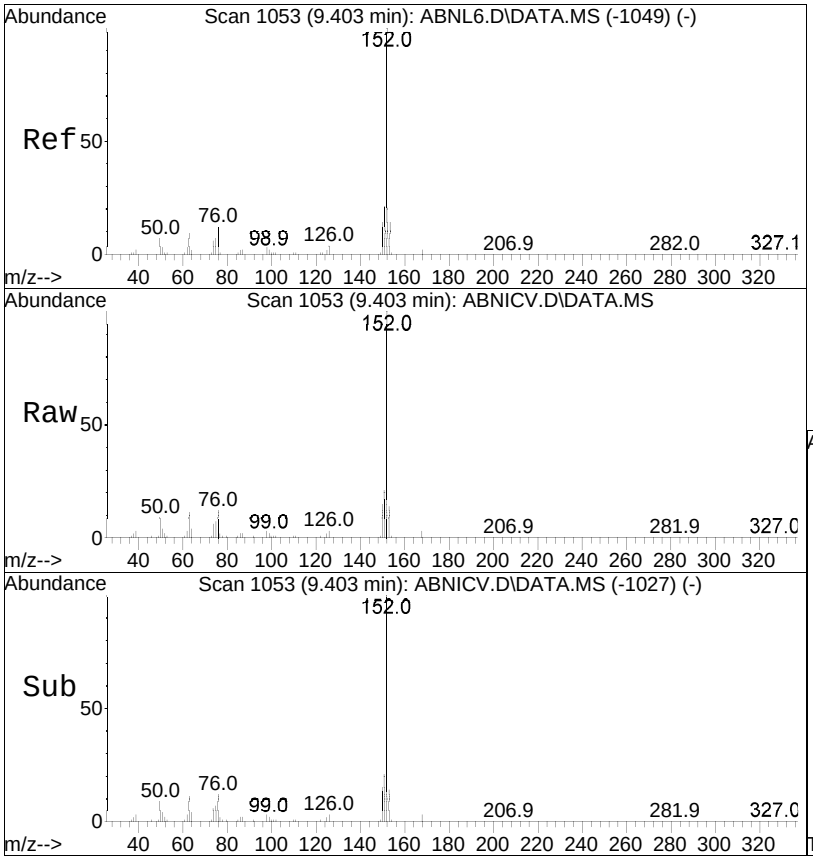


#51
Dimethyl phthalate
Concen: 5.23 ug/ml
RT: 9.329 min Scan# 1046
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:163 Resp: 245370

Ion	Ratio	Lower	Upper
163	100		
194	3.3	3.5	5.3#
164	10.3	7.9	11.9

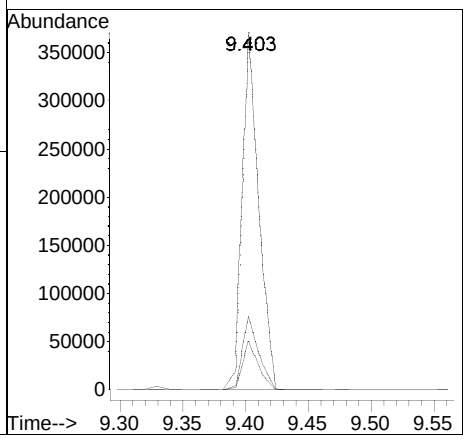


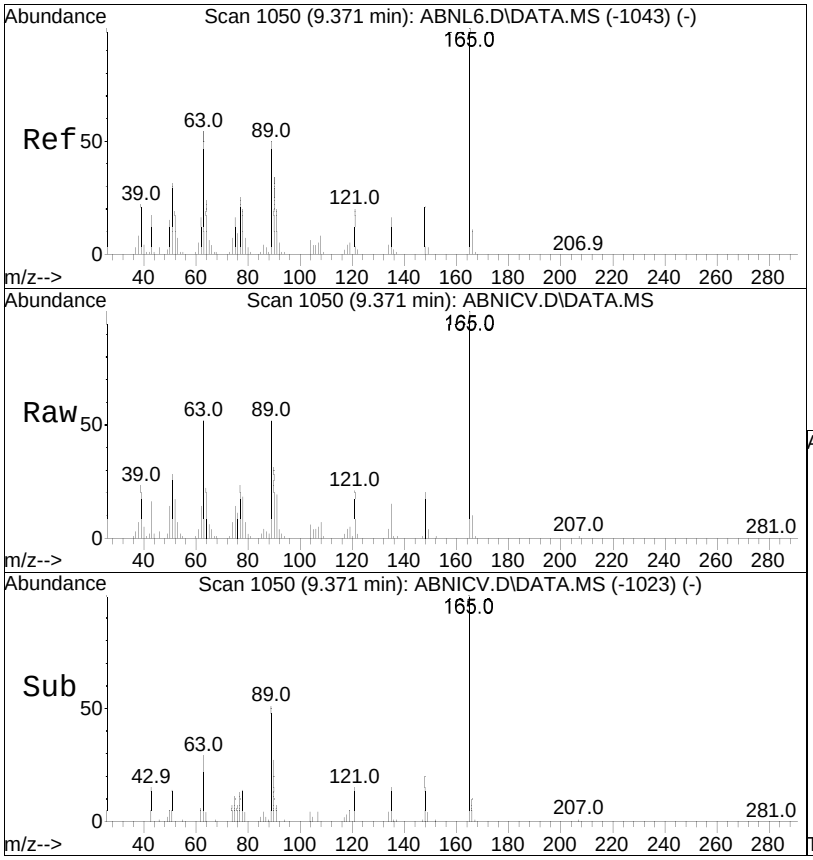


#52
Acenaphthylene
Concen: 5.36 ug/ml
RT: 9.403 min Scan# 1053
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:152 Resp: 332051

Ion	Ratio	Lower	Upper
152	100		
151	20.6	15.8	23.6
153	13.2	10.5	15.7

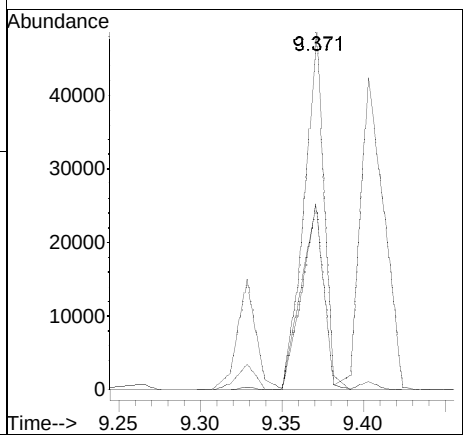


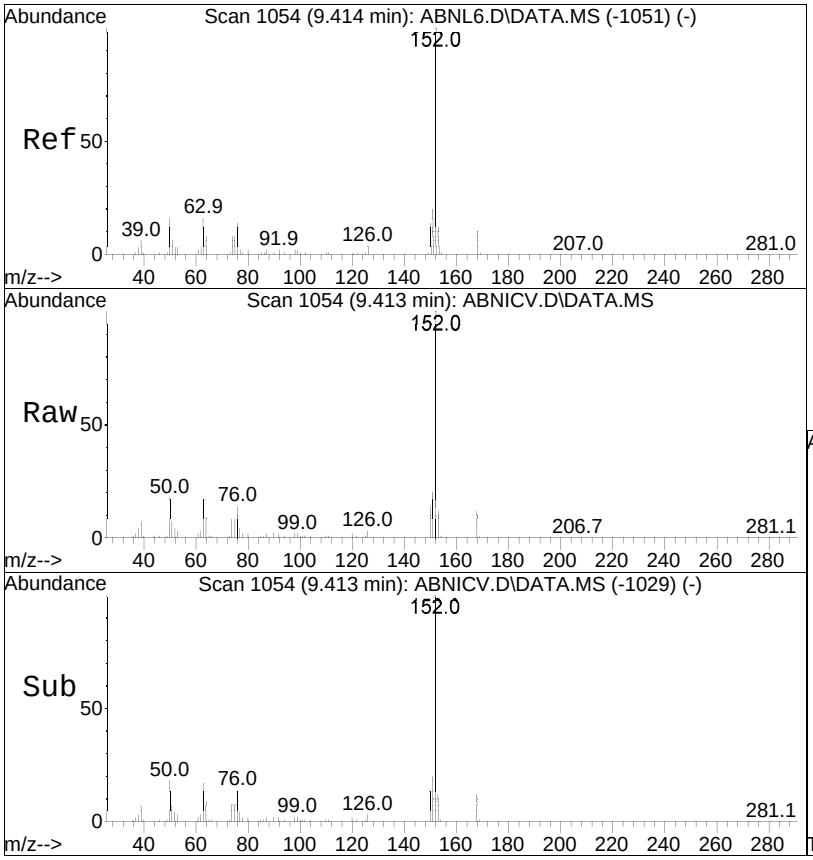


#53
2,6-Dinitrotoluene
Concen: 5.69 ug/ml
RT: 9.371 min Scan# 1050
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:165 Resp: 44259

Ion	Ratio	Lower	Upper
165	100		
89	53.5	54.2	81.2#
63	53.9	64.2	96.2#

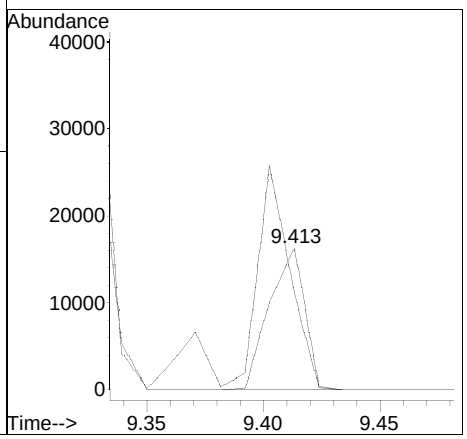


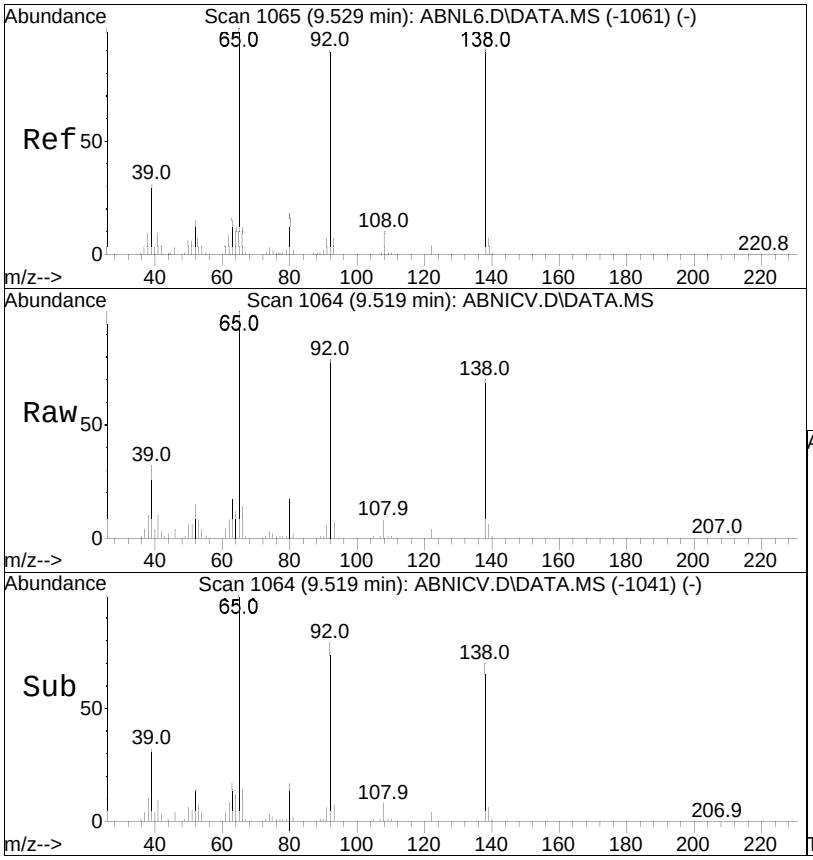


#54
1,2-Dinitrobenzene
Concen: 5.26 ug/ml
RT: 9.413 min Scan# 1054
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:168 Resp: 17122

Ion	Ratio	Lower	Upper
168	100		
75	180.9	30.9	46.3#

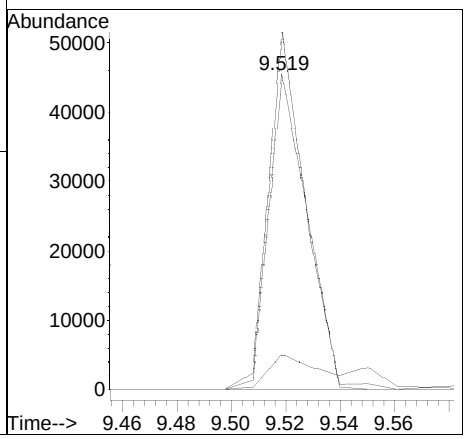


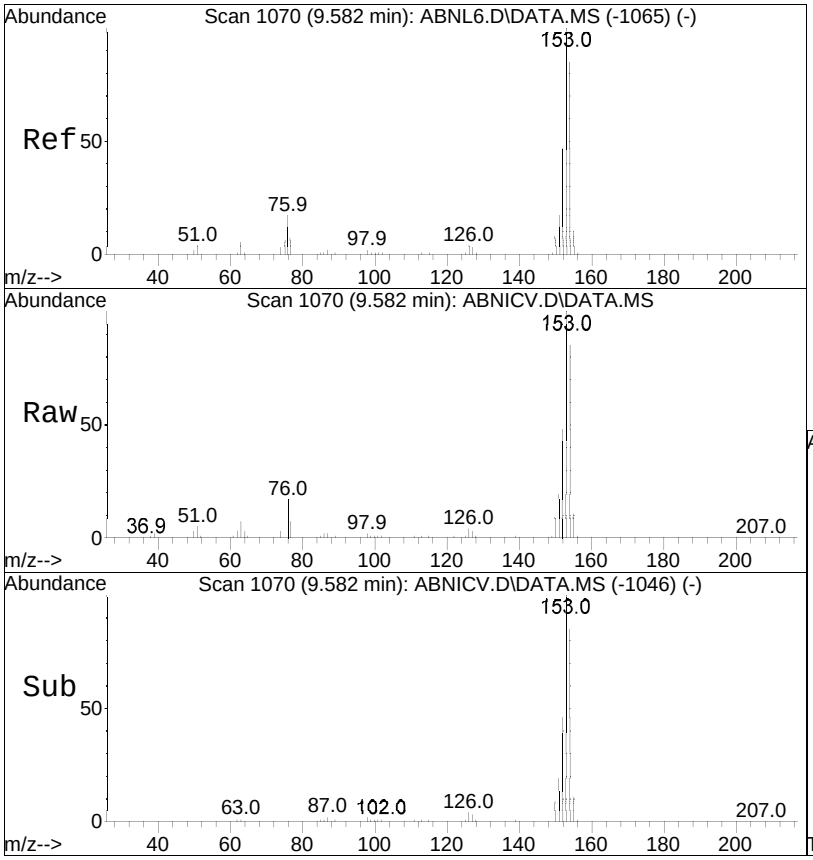


#64
3-Nitroaniline
Concen: 5.37 ug/ml
RT: 9.519 min Scan# 1064
Delta R.T. -0.010 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:138 Resp: 44052

Ion	Ratio	Lower	Upper
138	100		
92	110.1	93.4	140.2
108	22.0	9.5	14.3#

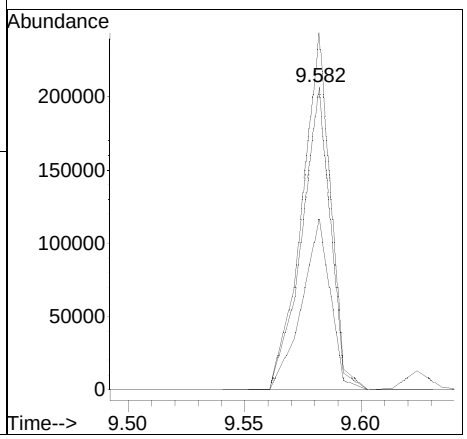


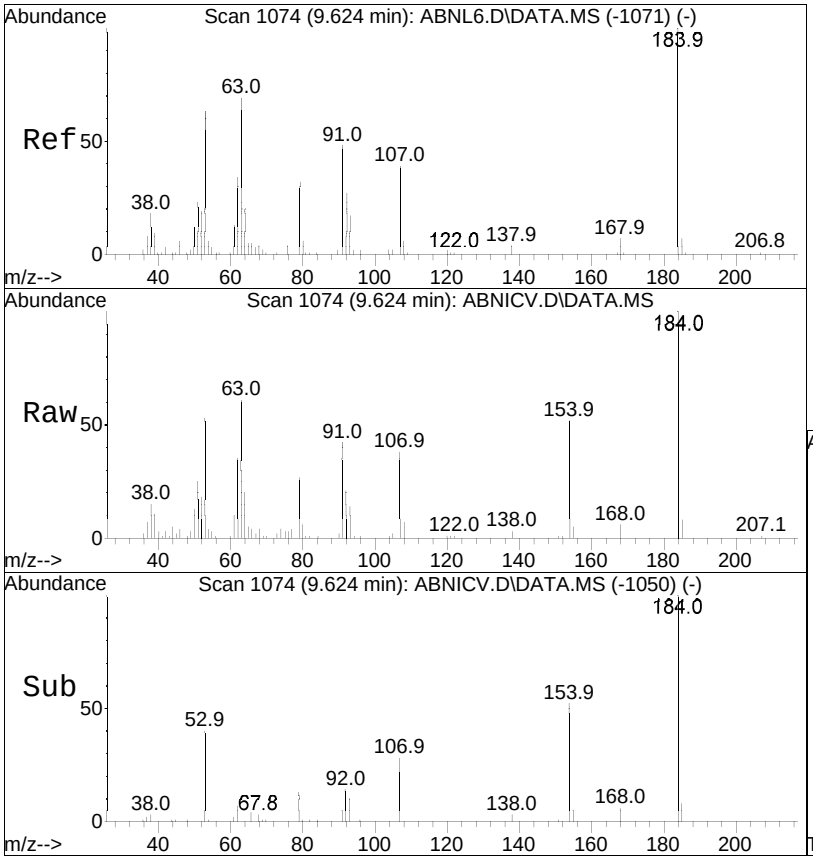


#65
Acenaphthene
Concen: 4.97 ug/ml
RT: 9.582 min Scan# 1070
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:154 Resp: 177976

Ion	Ratio	Lower	Upper
154	100		
153	117.0	85.3	127.9
152	56.4	41.4	62.0

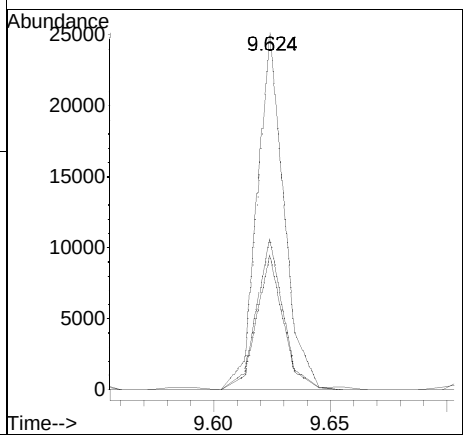


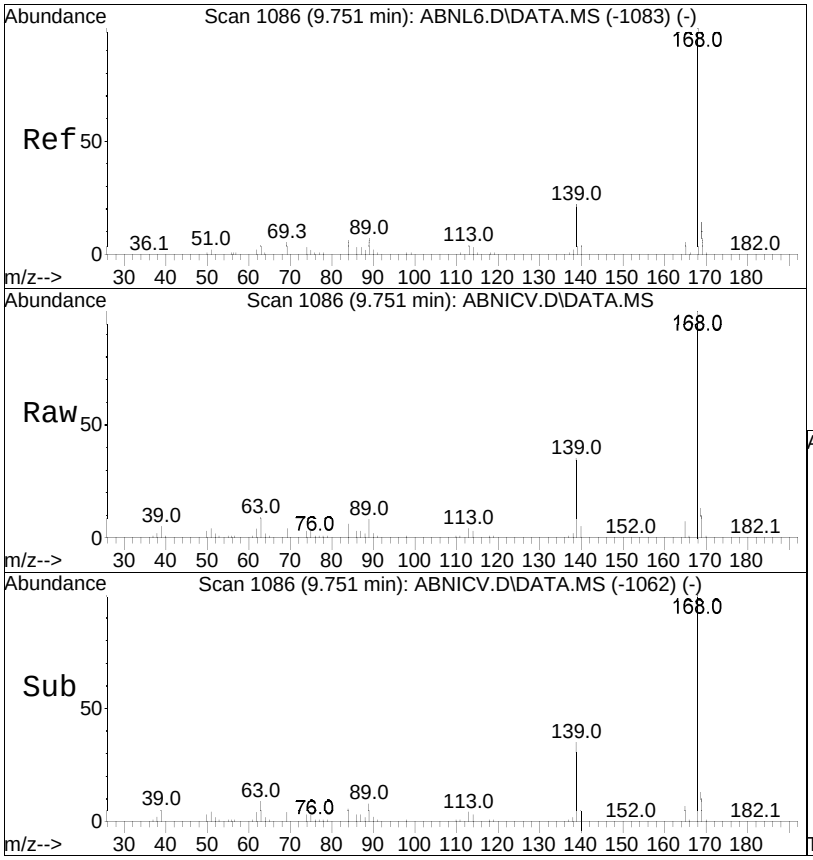


#66
2,4-Dinitrophenol
Concen: 4.70 ug/ml
RT: 9.624 min Scan# 1074
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:184 Resp: 19873

Ion	Ratio	Lower	Upper
184	100		
107	37.9	37.7	56.5
91	44.5	46.3	69.5#

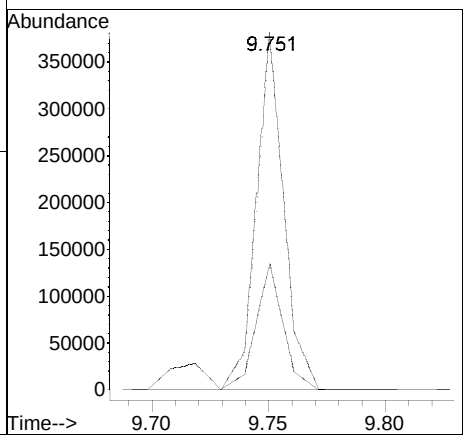


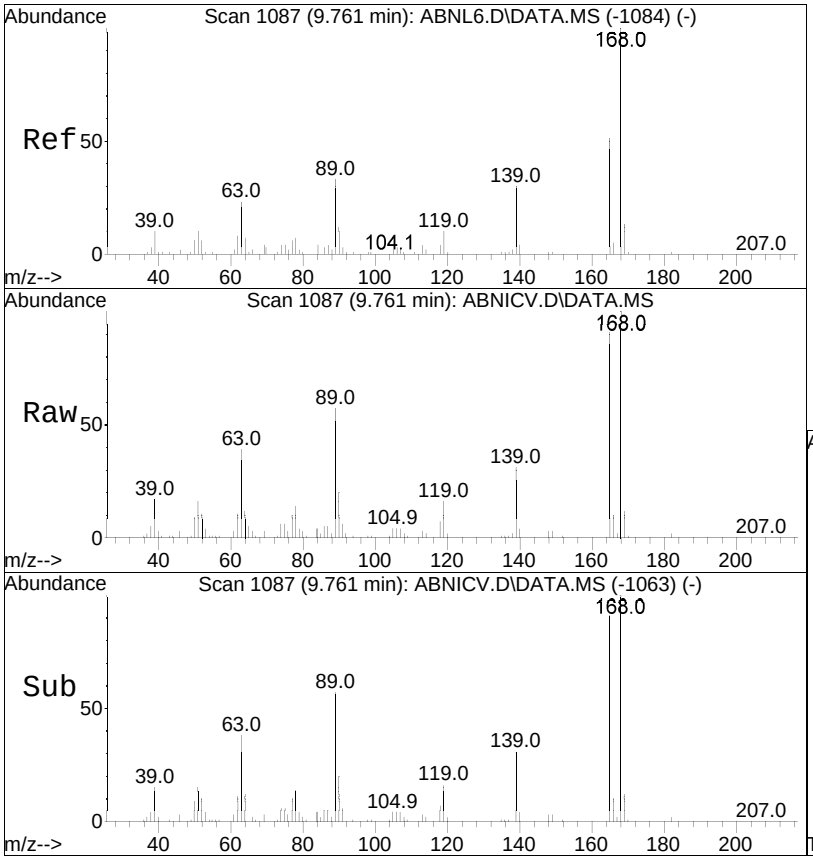


#67
Dibenzofuran
Concen: 4.91 ug/ml
RT: 9.751 min Scan# 1086
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:168 Resp: 305266

Ion	Ratio	Lower	Upper
168	100		
139	50.9	31.4	47.2#

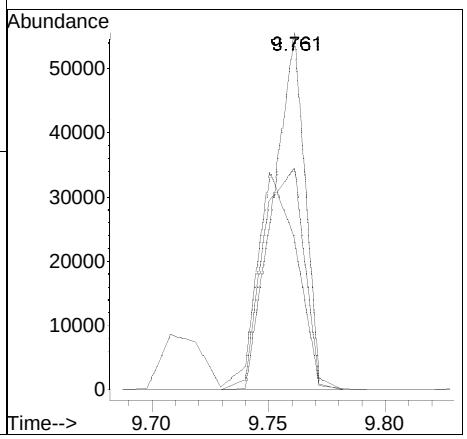


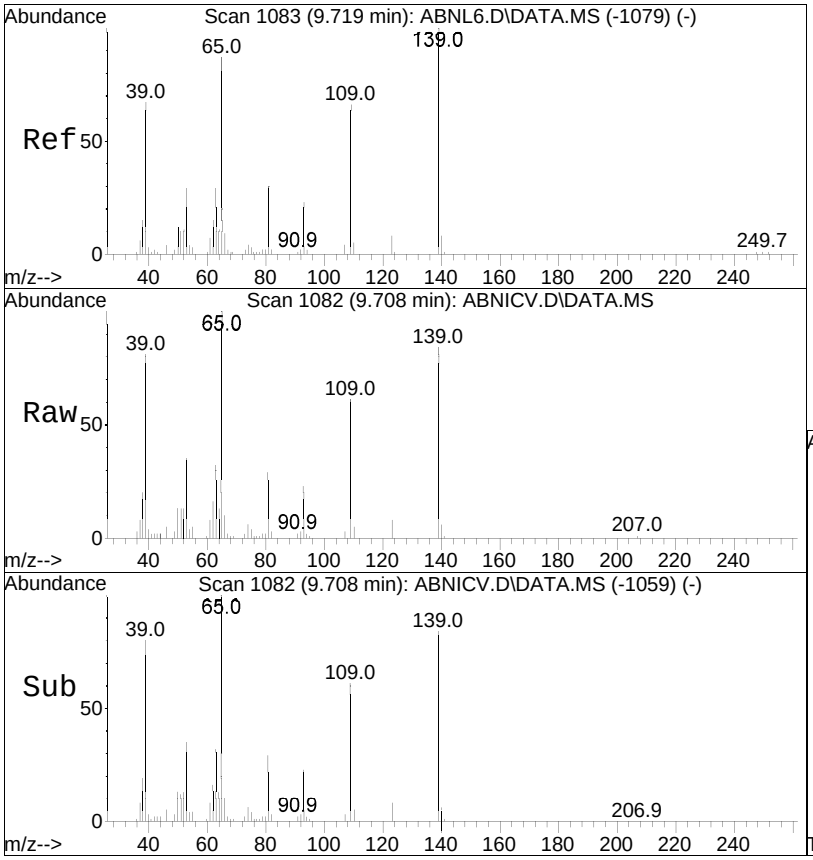


#68
2,4-Dinitrotoluene
Concen: 4.64 ug/ml
RT: 9.761 min Scan# 1087
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:165 Resp: 52324

Ion	Ratio	Lower	Upper
165	100		
89	80.3	72.0	108.0
63	75.2	52.7	79.1

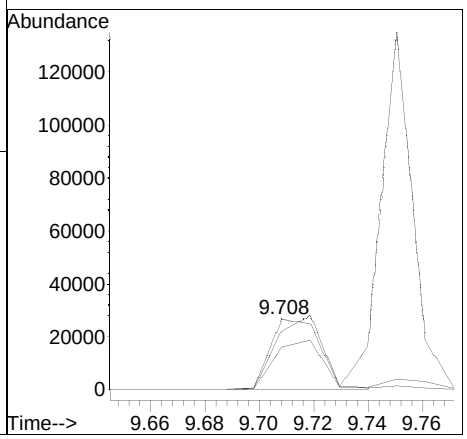


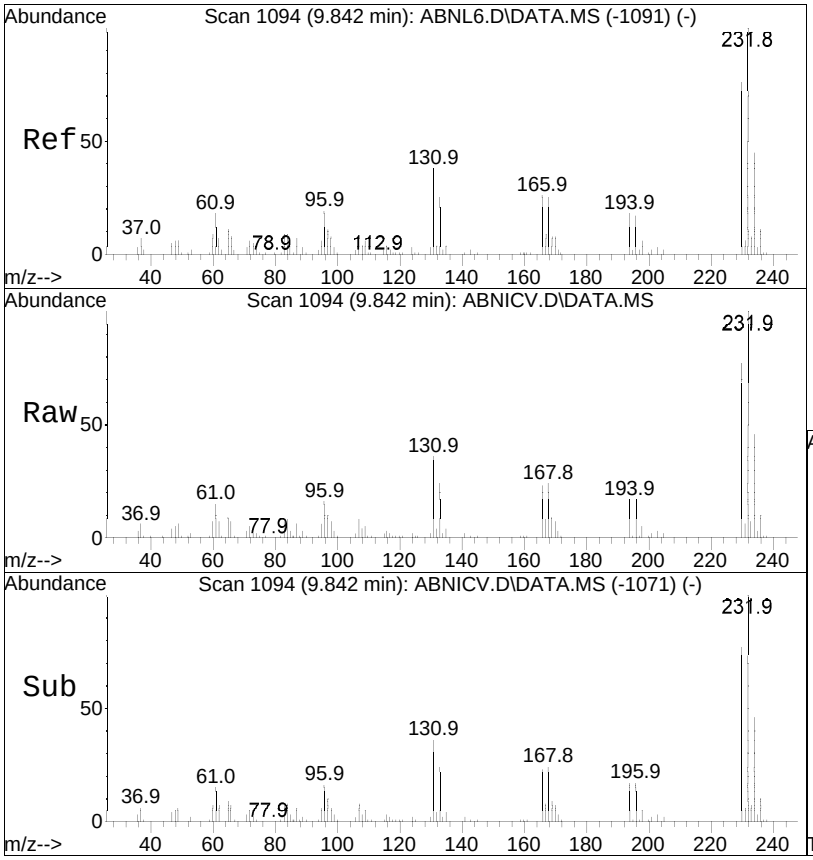


#69
4-Nitrophenol
Concen: 5.42 ug/ml
RT: 9.708 min Scan# 1082
Delta R.T. -0.011 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion: 65 Resp: 33937

Ion	Ratio	Lower	Upper
65	100		
109	67.6	47.4	71.2
139	0.0	76.6	115.0#

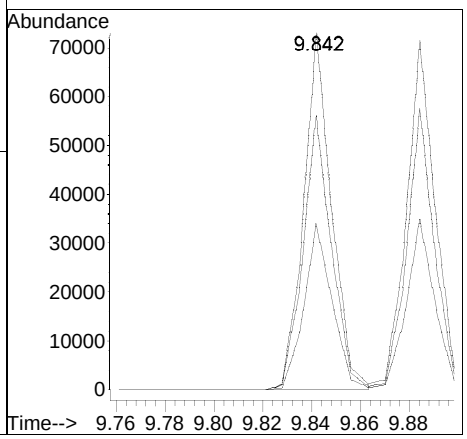


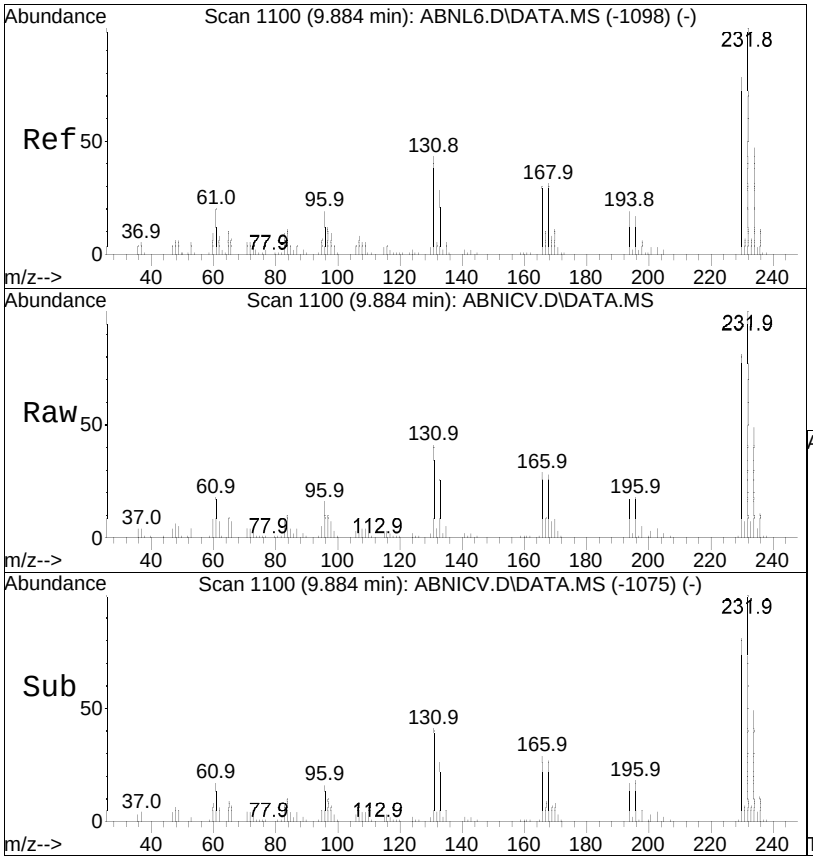


#70
2,3,5,6-Tetrachlorophenol
Concen: 6.97 ug/ml
RT: 9.842 min Scan# 1094
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:232 Resp: 82818

Ion	Ratio	Lower	Upper
232	100		
230	78.0	64.2	96.4
234	47.1	38.1	57.1

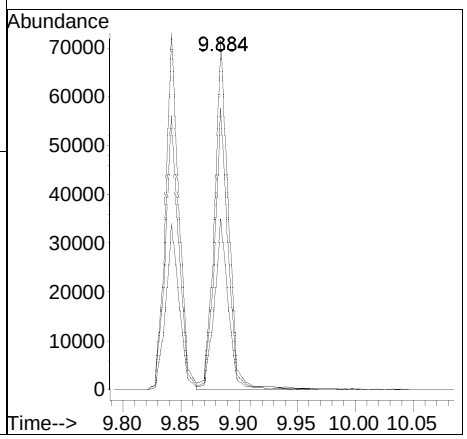


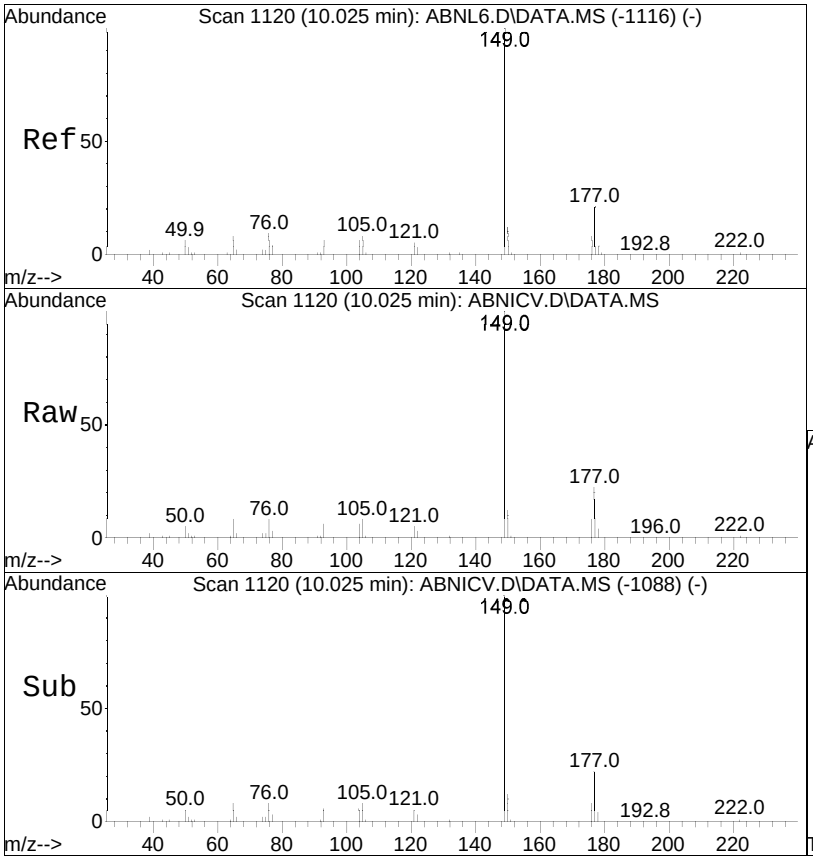


#71
2,3,4,6-Tetrachlorophenol
Concen: 5.42 ug/ml
RT: 9.884 min Scan# 1100
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:232 Resp: 60689

Ion	Ratio	Lower	Upper
232	100		
230	77.3	61.8	92.8
234	47.9	36.2	54.2

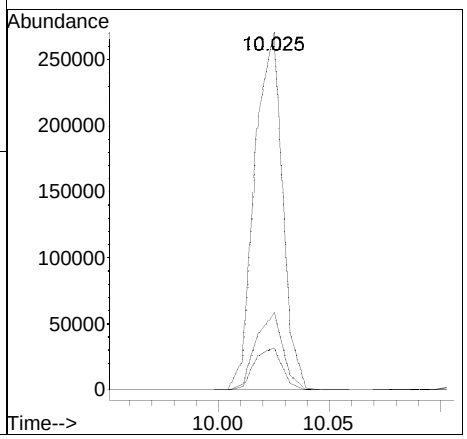


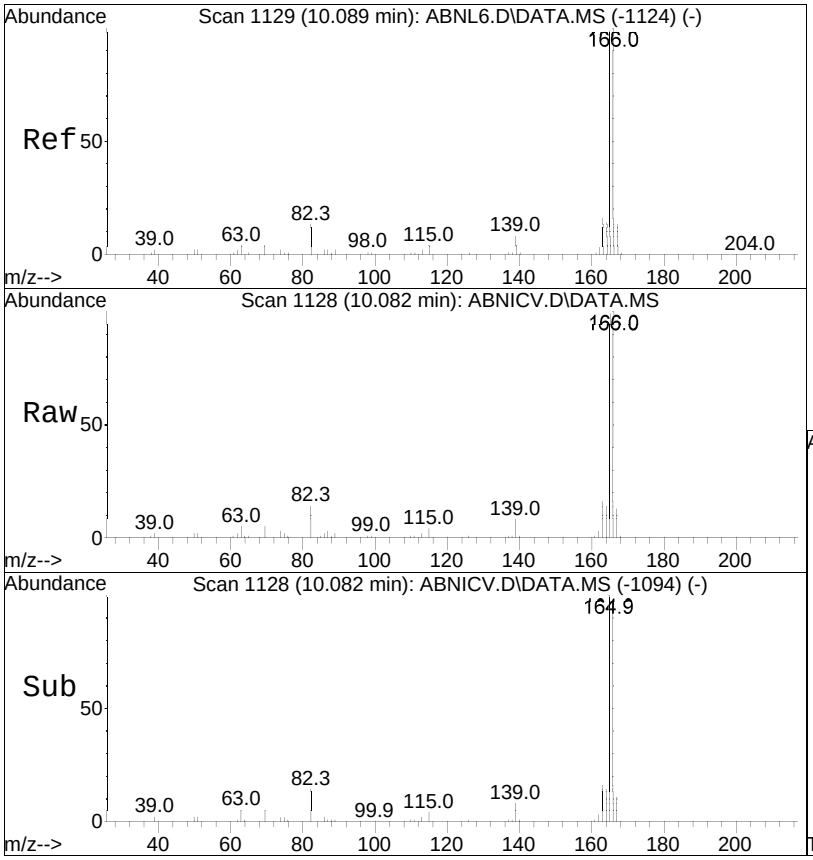


#72
Diethyl phthalate
Concen: 5.25 ug/ml
RT: 10.025 min Scan# 1120
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:149 Resp: 232030

Ion	Ratio	Lower	Upper
149	100		
177	21.2	16.1	24.1
150	12.0	9.4	14.2

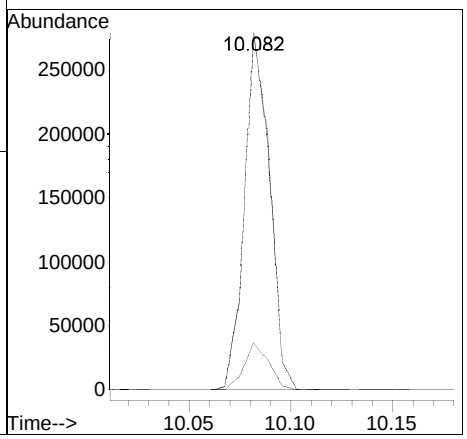


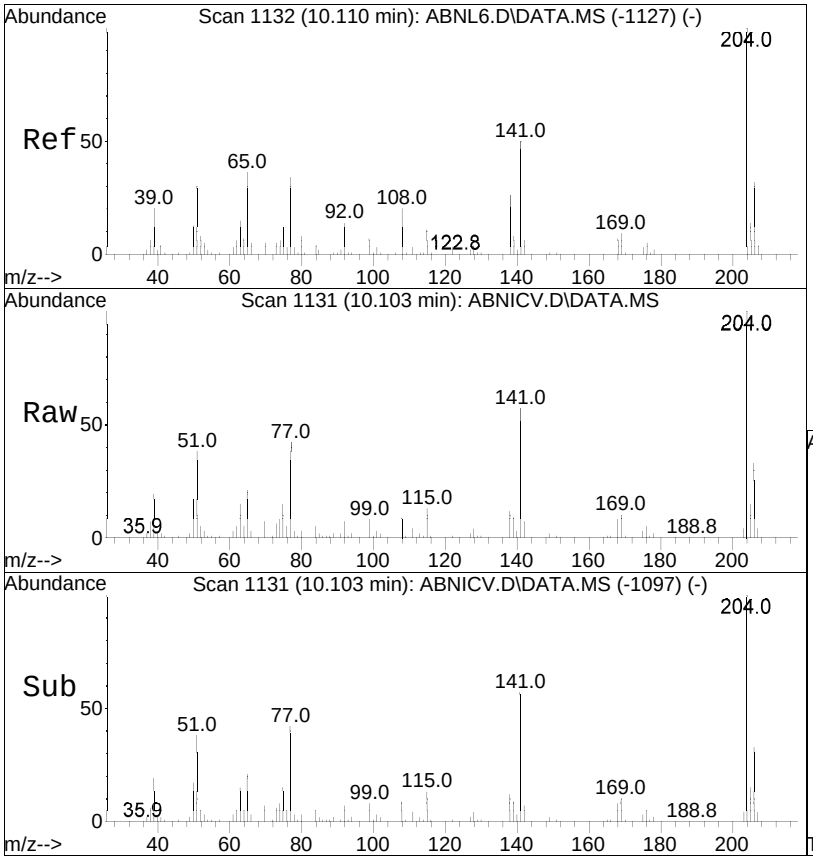


#73
Fluorene
Concen: 5.21 ug/ml
RT: 10.082 min Scan# 1128
Delta R.T. -0.007 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:166 Resp: 238812

Ion	Ratio	Lower	Upper
166	100		
165	101.0	76.2	114.2
167	13.3	10.6	15.8

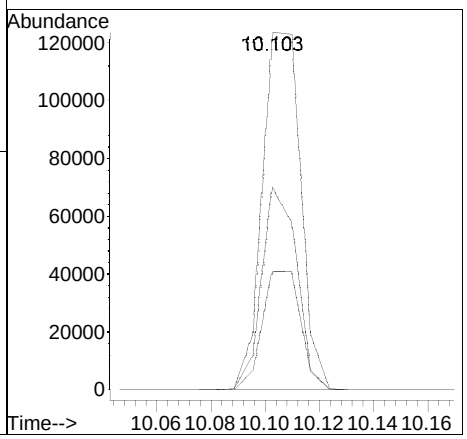


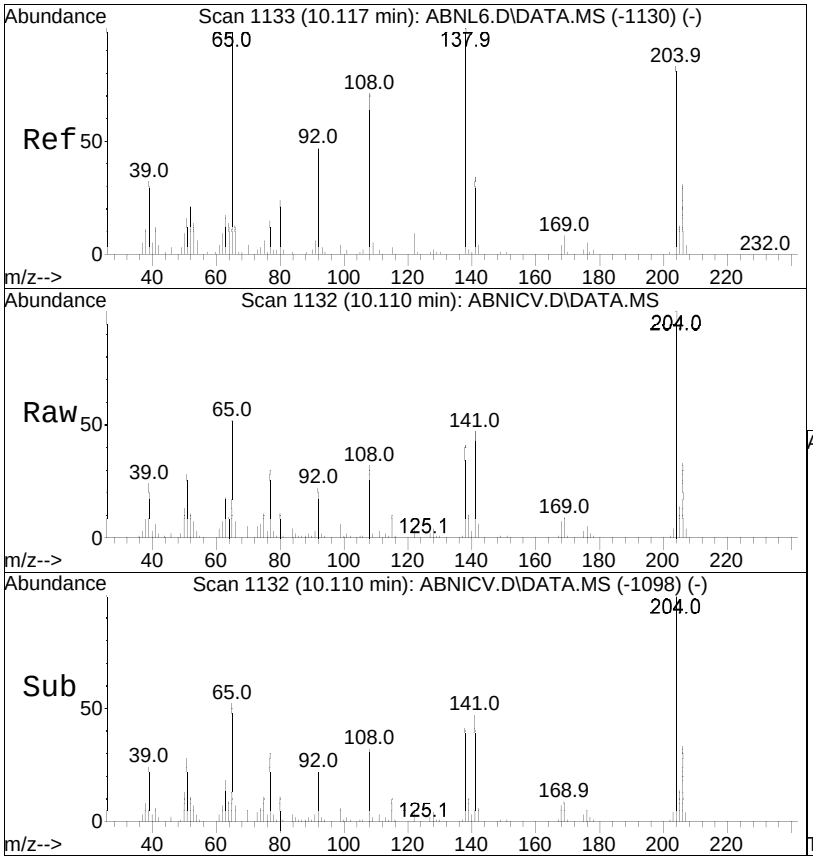


#74
4-Chlorophenyl phenyl ether
Concen: 5.04 ug/ml
RT: 10.103 min Scan# 1131
Delta R.T. -0.007 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:204 Resp: 120770

Ion	Ratio	Lower	Upper
204	100		
206	33.3	25.8	38.6
141	51.8	53.6	80.4#

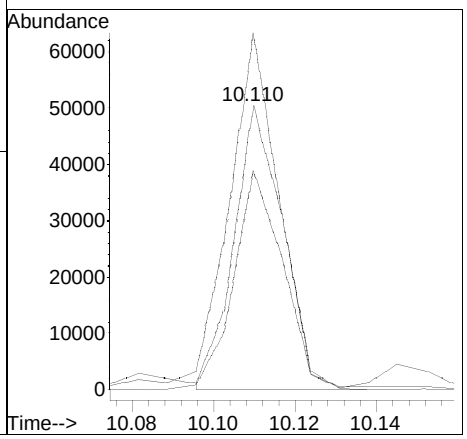


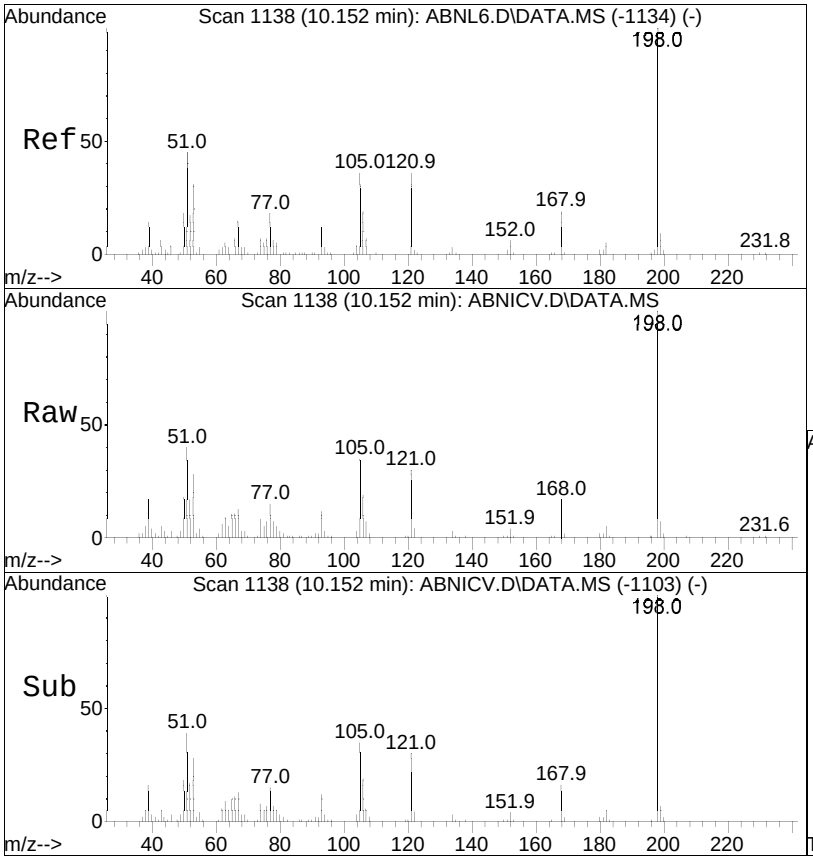


#75
4-Nitroaniline
Concen: 5.26 ug/ml M6
RT: 10.110 min Scan# 1132
Delta R.T. -0.007 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:138 Resp: 42007

Ion	Ratio	Lower	Upper
138	100		
108	80.5	52.1	78.1#
65	131.8	115.0	172.6

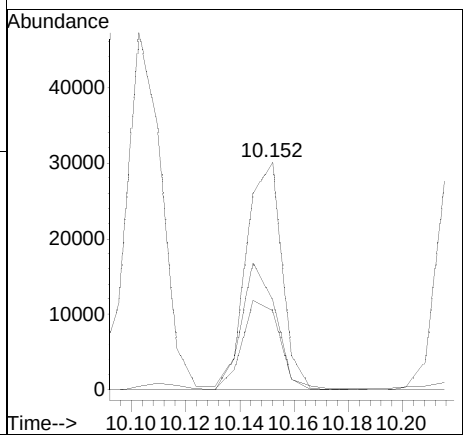


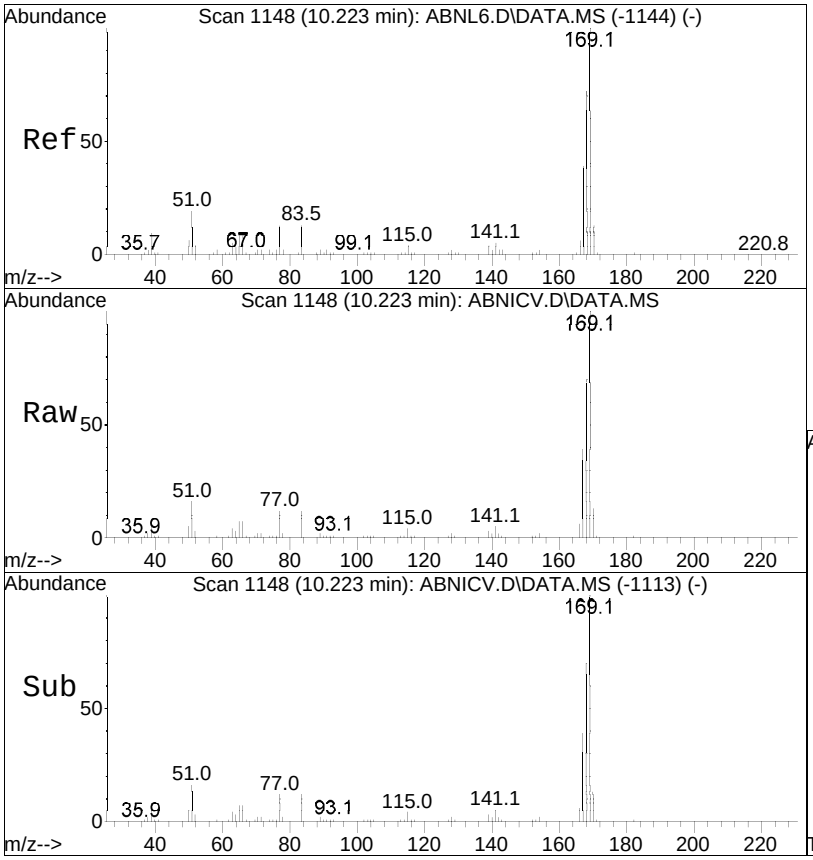


#76
4,6-Dinitro-o-cresol
Concen: 4.14 ug/ml
RT: 10.152 min Scan# 1138
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:198 Resp: 27559

Ion	Ratio	Lower	Upper
198	100		
51	54.9	76.0	114.0#
105	40.8	45.6	68.4#

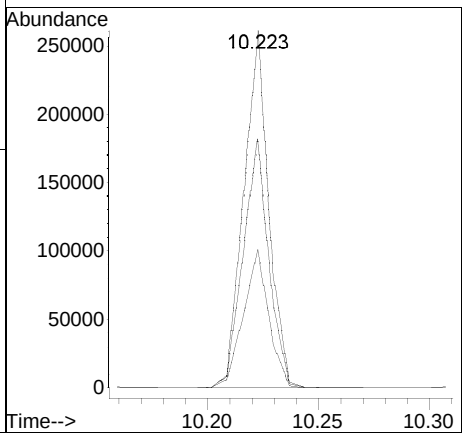


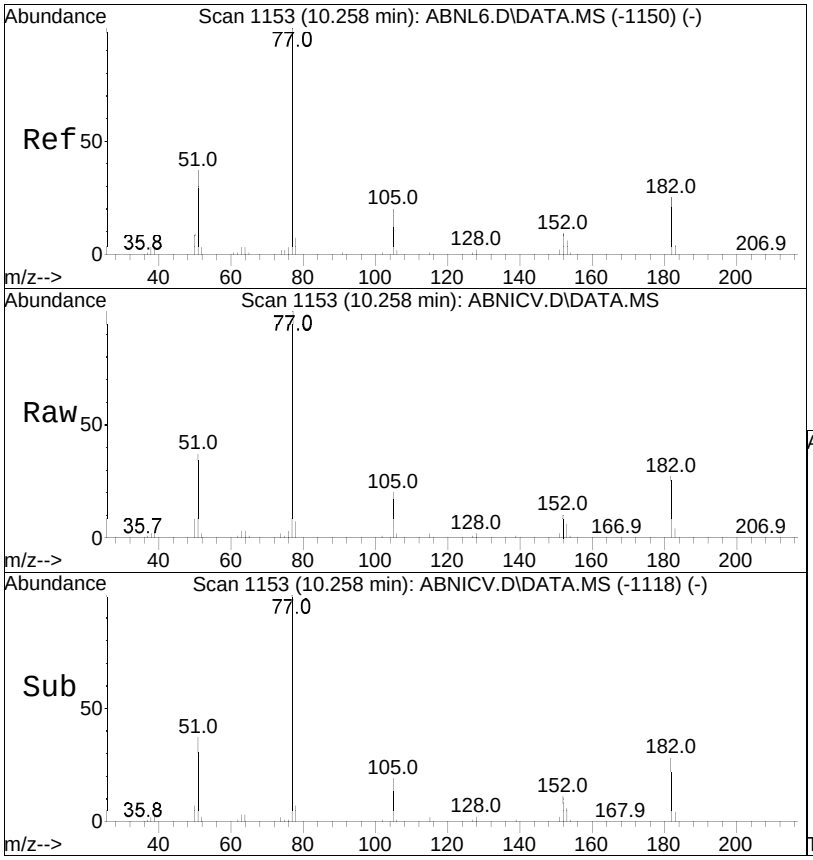


#77
NDPA/DPA
Concen: 5.30 ug/ml
RT: 10.223 min Scan# 1148
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:169 Resp: 202666

Ion	Ratio	Lower	Upper
169	100		
168	71.9	54.0	81.0
167	39.6	28.6	42.8

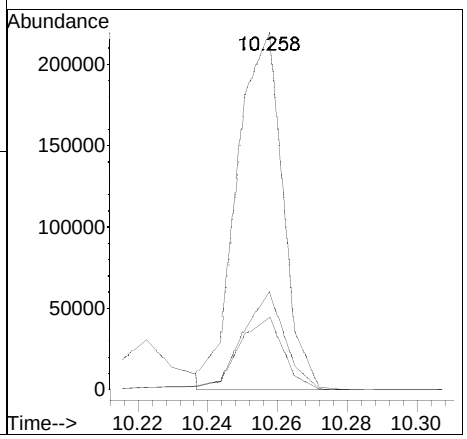


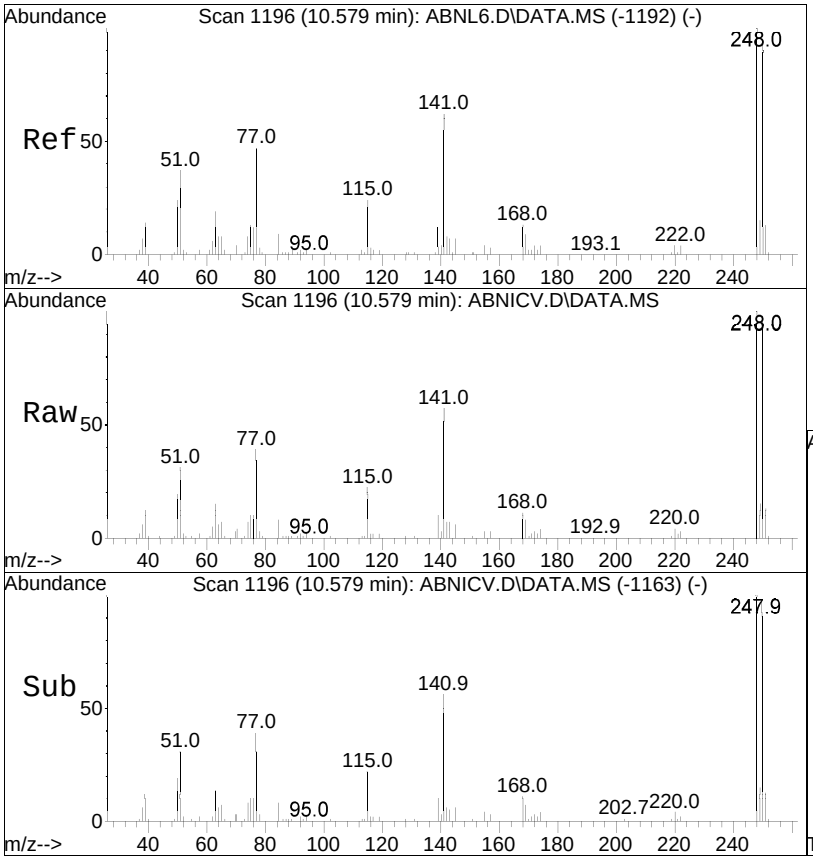


#78
Azobenzene
Concen: 5.43 ug/ml
RT: 10.258 min Scan# 1153
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion: 77 Resp: 197919

Ion	Ratio	Lower	Upper
77	100		
182	27.0	17.4	26.2#
105	21.4	15.4	23.2

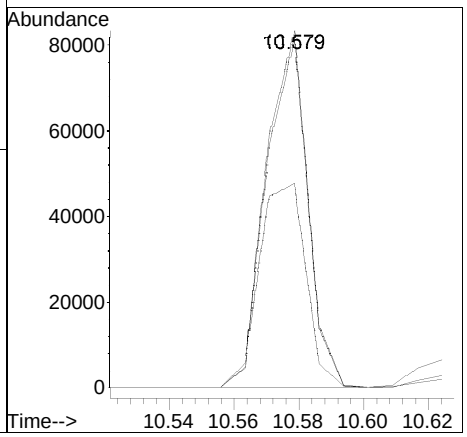


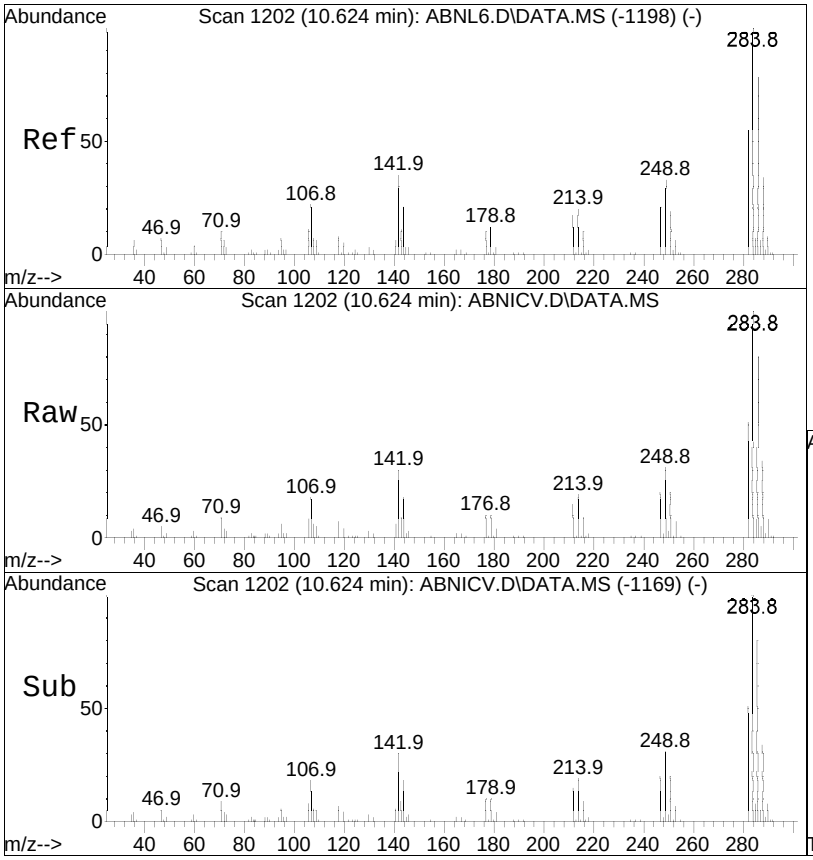


#80
4-Bromophenyl phenyl ether
Concen: 4.92 ug/ml
RT: 10.579 min Scan# 1196
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:248 Resp: 74019

Ion	Ratio	Lower	Upper
248	100		
141	64.1	76.6	114.8#
250	96.5	77.3	115.9

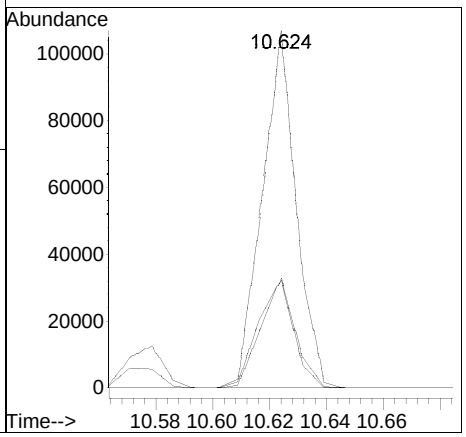


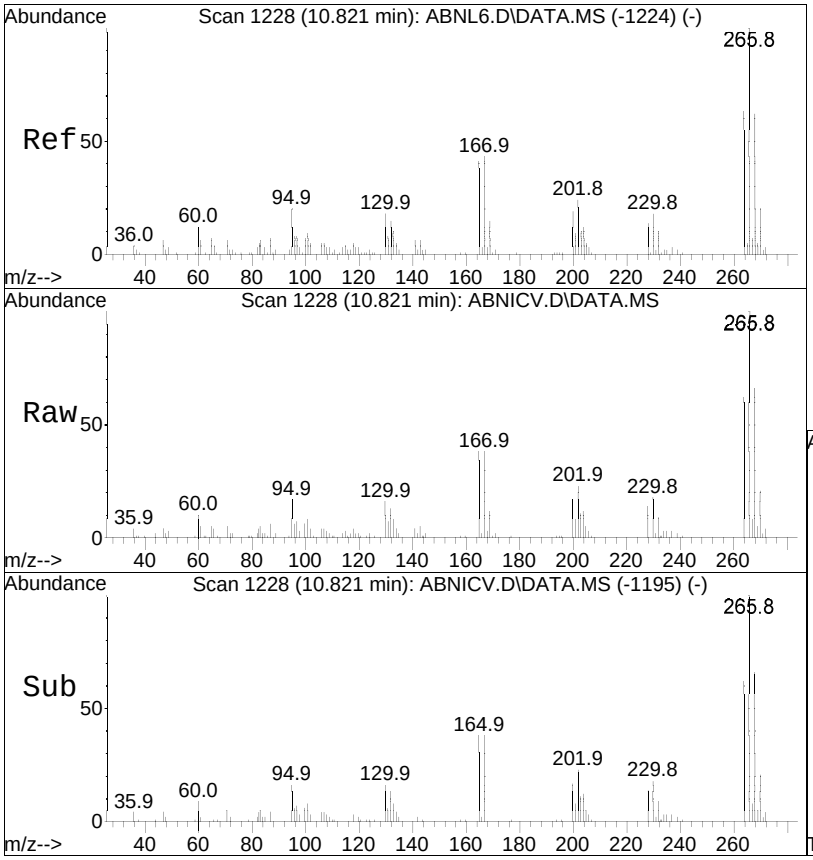


#81
Hexachlorobenzene
Concen: 4.99 ug/ml
RT: 10.624 min Scan# 1202
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:284 Resp: 88174

Ion	Ratio	Lower	Upper
284	100		
142	31.8	41.9	62.9#
249	31.2	24.1	36.1

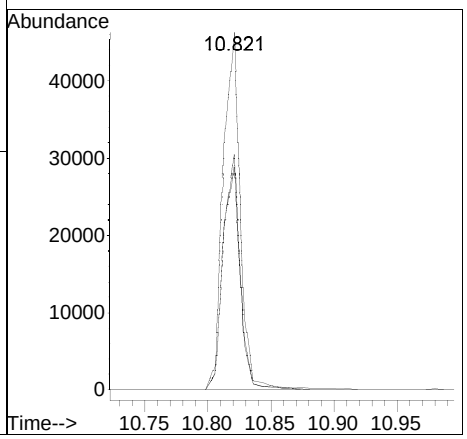


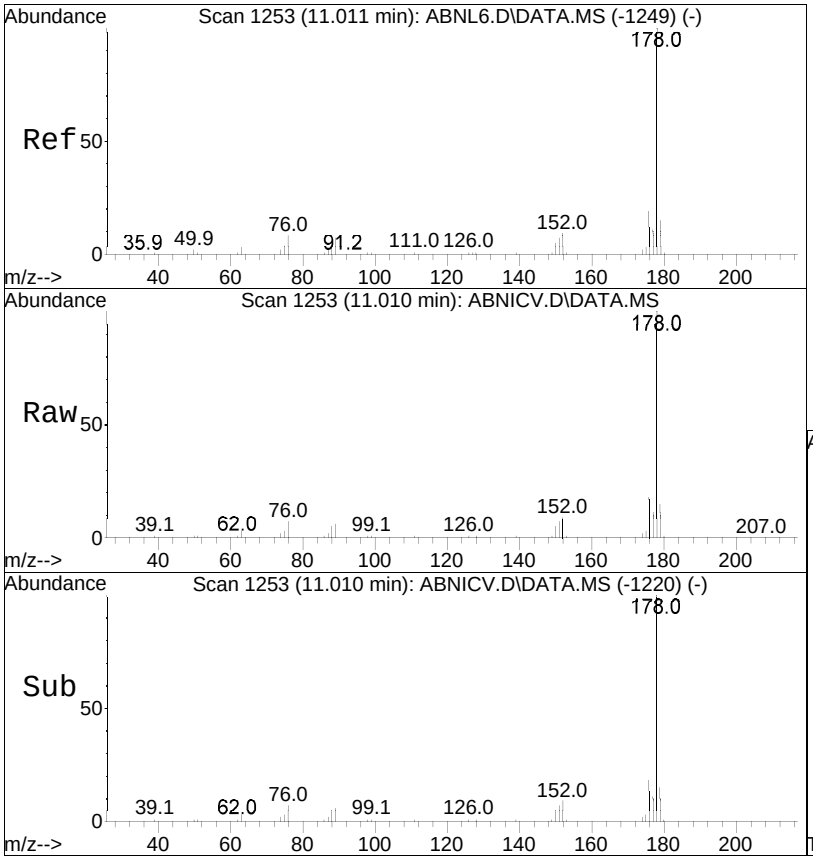


#82
Pentachlorophenol
Concen: 4.75 ug/ml
RT: 10.821 min Scan# 1228
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:266 Resp: 43595

Ion	Ratio	Lower	Upper
266	100		
264	62.9	49.7	74.5
268	65.0	50.5	75.7

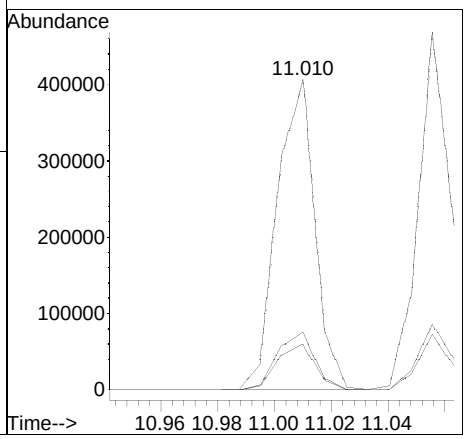


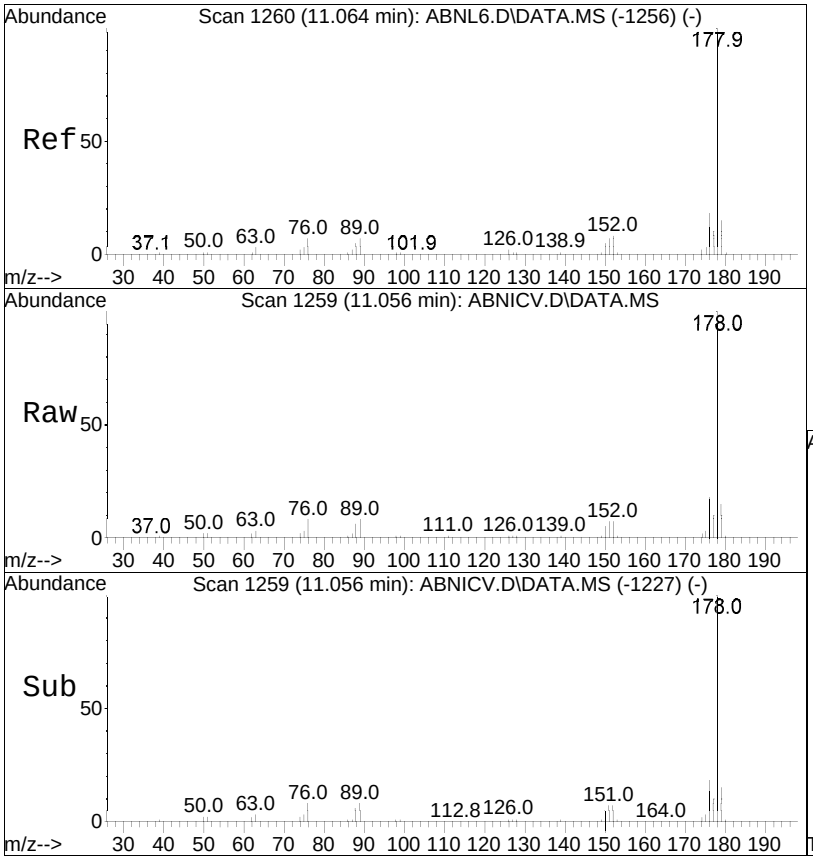


#89
Phenanthrene
Concen: 5.17 ug/ml
RT: 11.010 min Scan# 1253
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:178 Resp: 375117

Ion	Ratio	Lower	Upper
178	100		
179	14.8	12.2	18.2
176	18.5	15.4	23.2

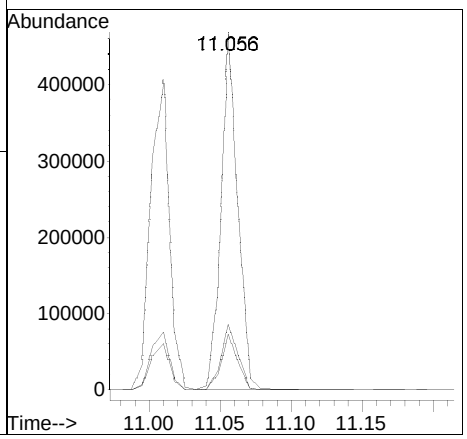


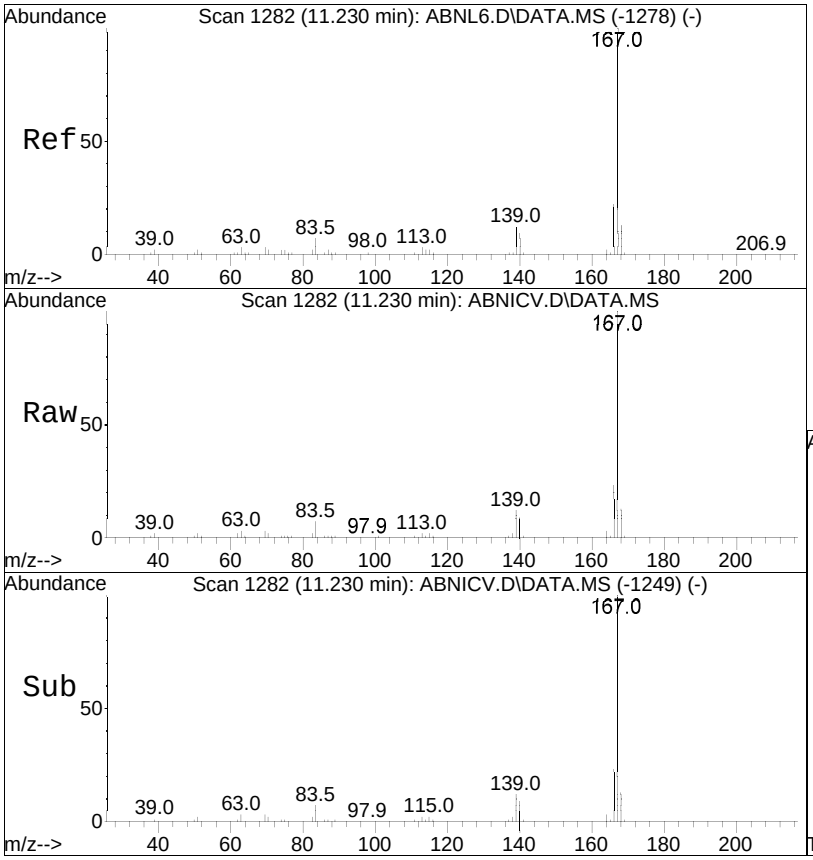


#90
Anthracene
Concen: 5.37 ug/ml
RT: 11.056 min Scan# 1259
Delta R.T. -0.008 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:178 Resp: 379894

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.0	18.0
176	18.7	14.6	22.0

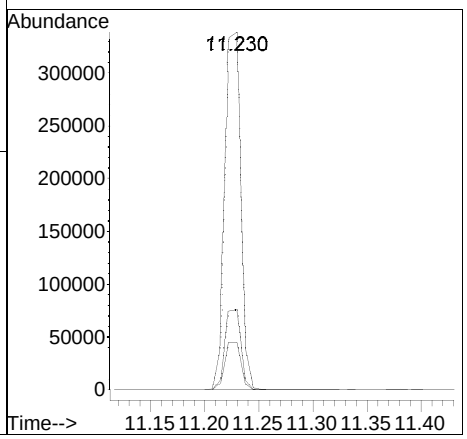


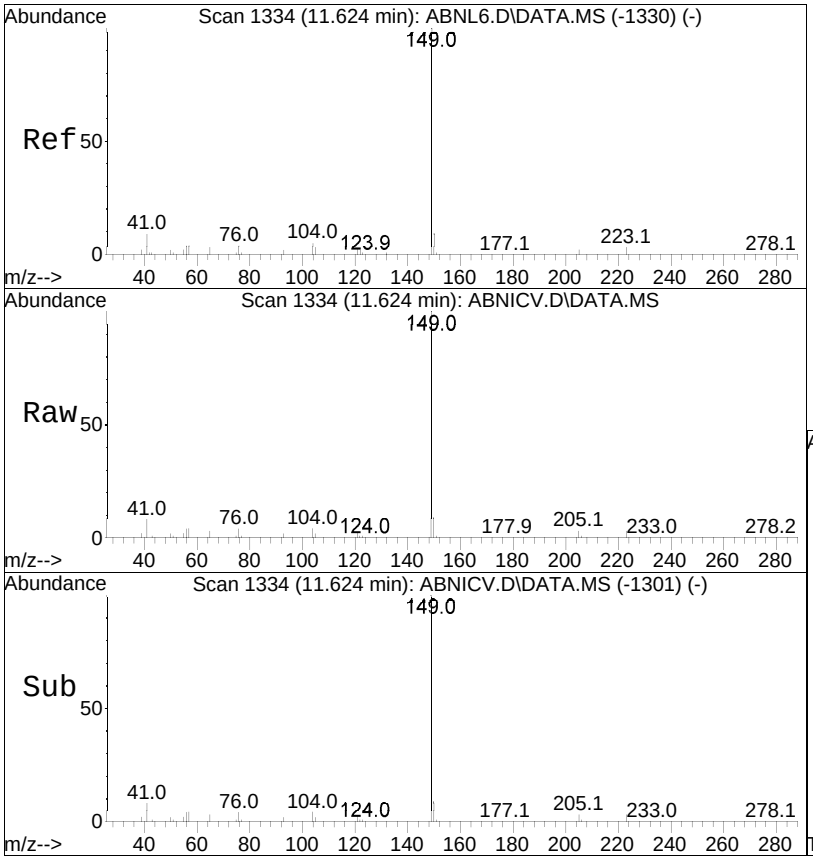


#91
Carbazole
Concen: 5.47 ug/ml
RT: 11.230 min Scan# 1282
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:167 Resp: 345386

Ion	Ratio	Lower	Upper
167	100		
168	13.5	10.6	15.8
166	22.4	17.4	26.0

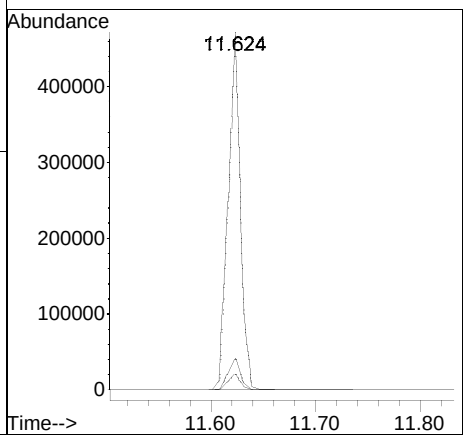


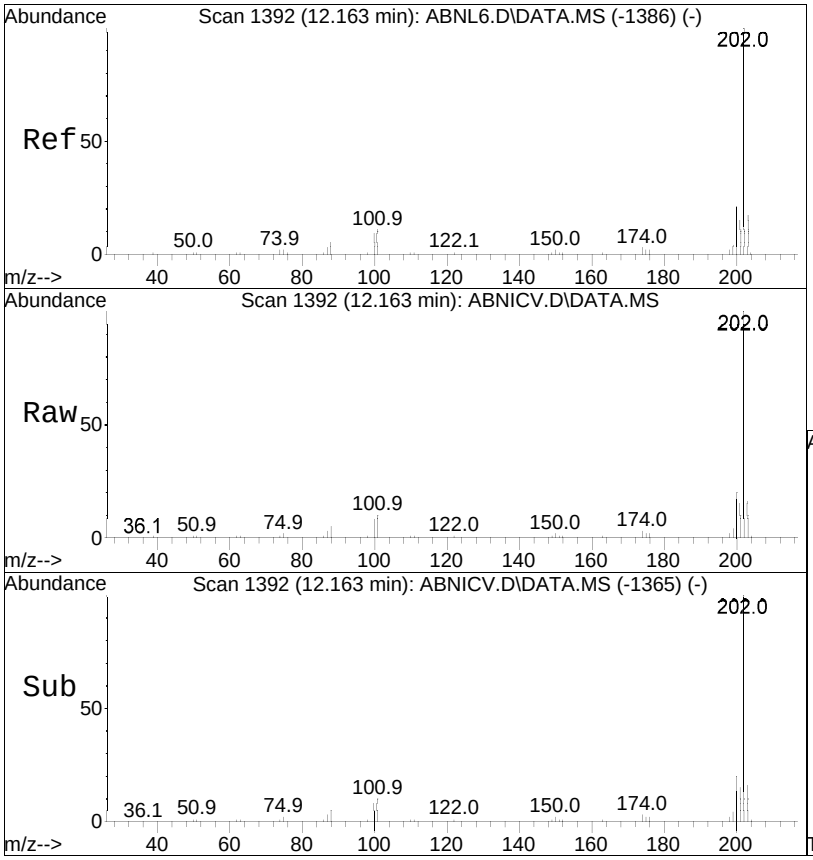


#92
Di-n-butylphthalate
Concen: 5.95 ug/ml
RT: 11.624 min Scan# 1334
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:149 Resp: 424514

Ion	Ratio	Lower	Upper
149	100		
150	7.8	7.0	10.6
104	4.1	4.5	6.7#

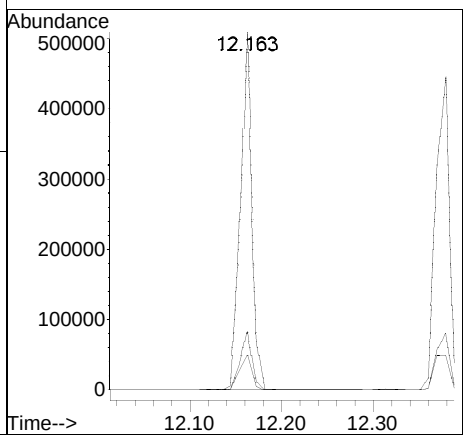


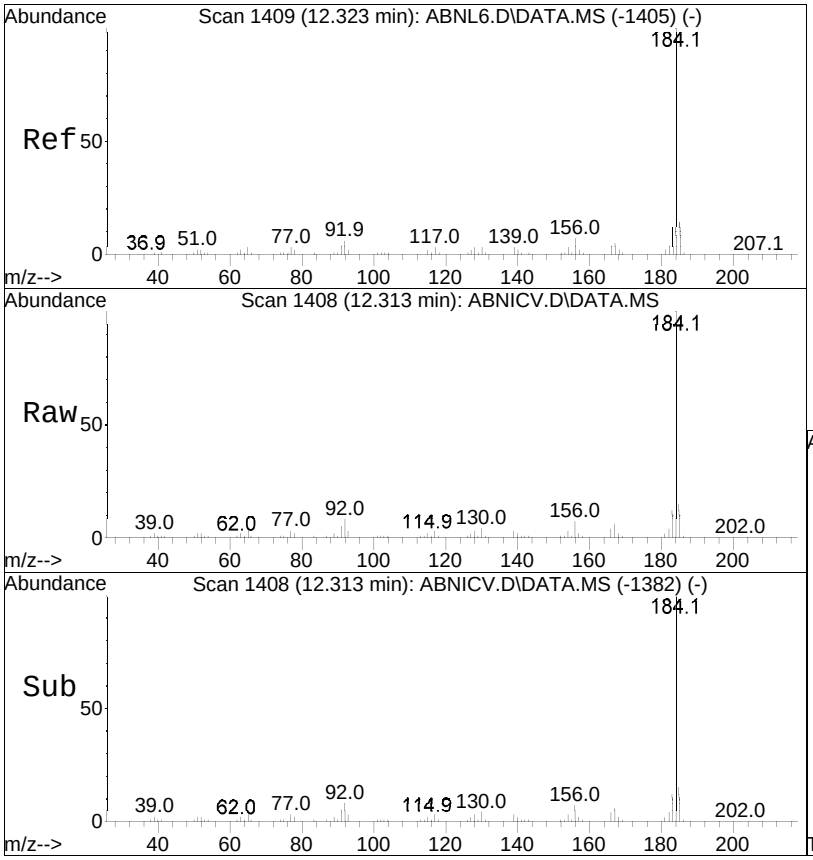


#93
Fluoranthene
Concen: 5.35 ug/ml
RT: 12.163 min Scan# 1392
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:202 Resp: 443321

Ion	Ratio	Lower	Upper
202	100		
101	10.6	13.5	20.3#
203	16.9	13.6	20.4

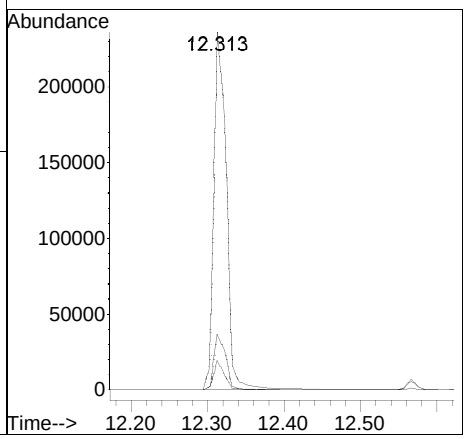


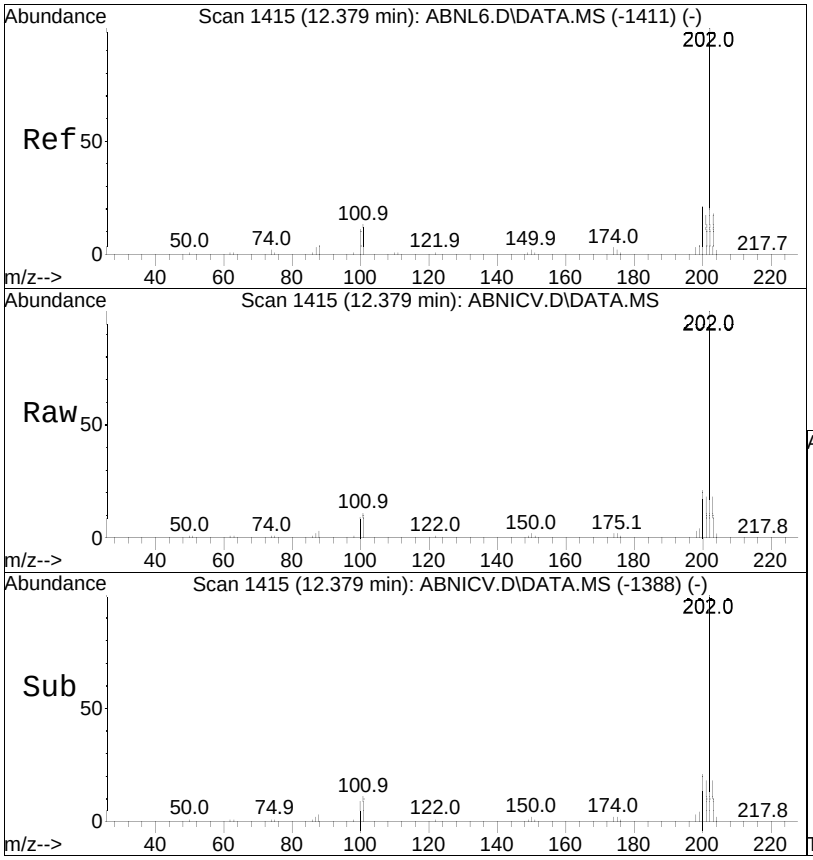


#94
Benzidine
Concen: 5.86 ug/ml
RT: 12.313 min Scan# 1408
Delta R.T. -0.010 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:184 Resp: 263438

Ion	Ratio	Lower	Upper
184	100		
92	7.2	9.1	13.7#
185	14.9	11.1	16.7

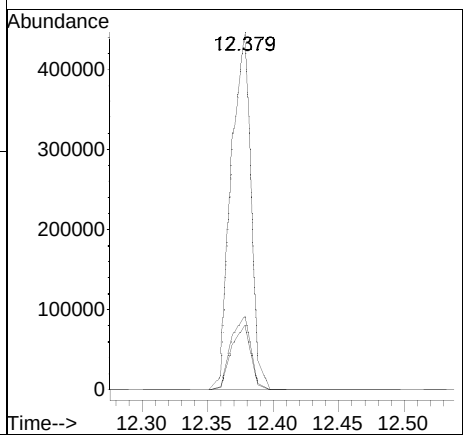


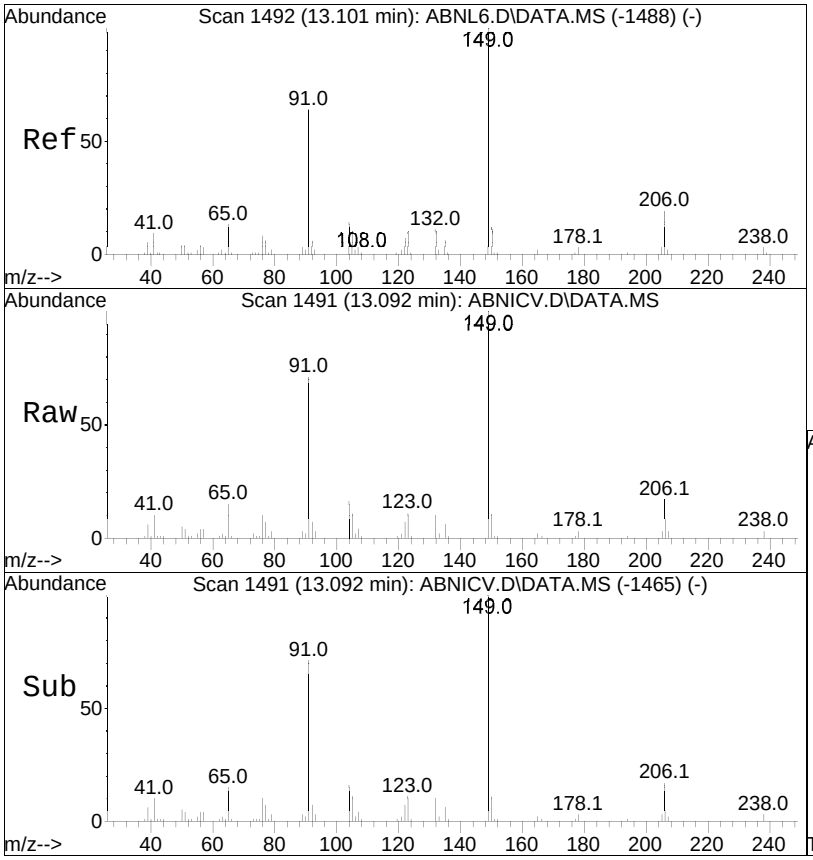


#95
Pyrene
Concen: 5.32 ug/ml
RT: 12.379 min Scan# 1415
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:202 Resp: 461974

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.7	25.1
203	17.8	14.2	21.4

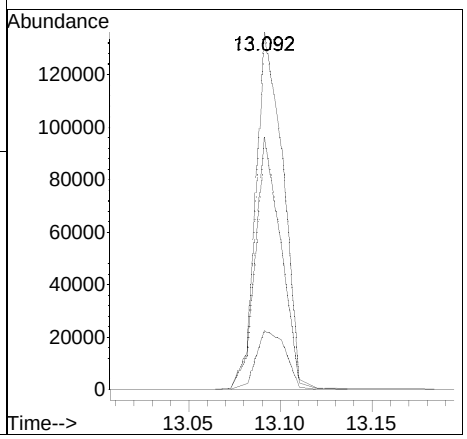


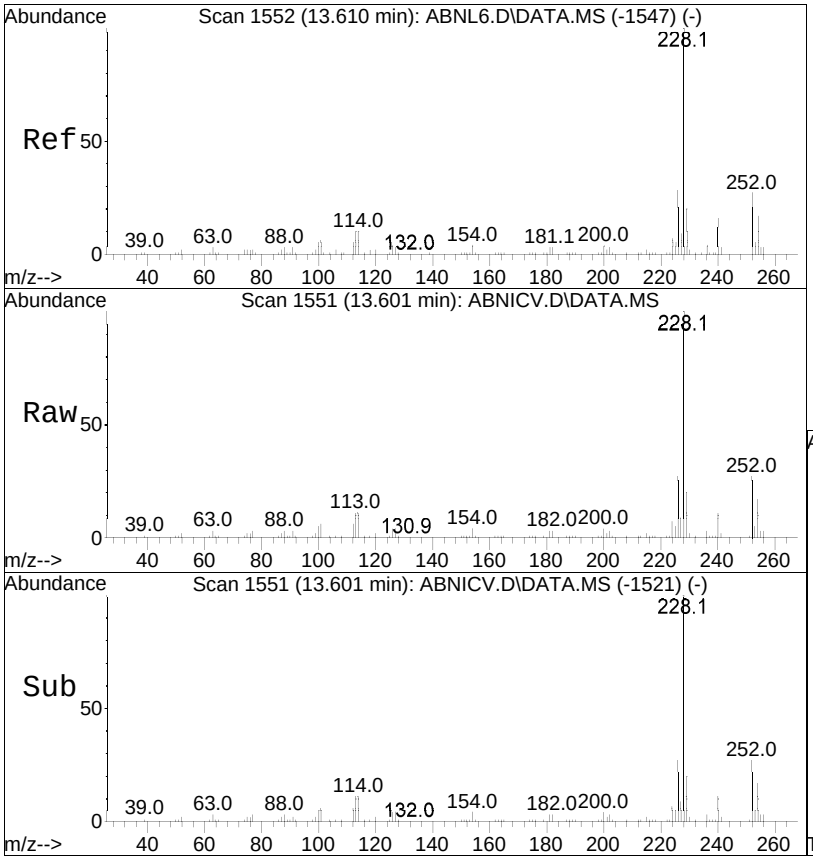


#97
Butyl benzyl phthalate
Concen: 4.30 ug/ml
RT: 13.092 min Scan# 1491
Delta R.T. -0.009 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:149 Resp: 138193

Ion	Ratio	Lower	Upper
149	100		
91	67.4	63.3	94.9
206	18.1	13.9	20.9

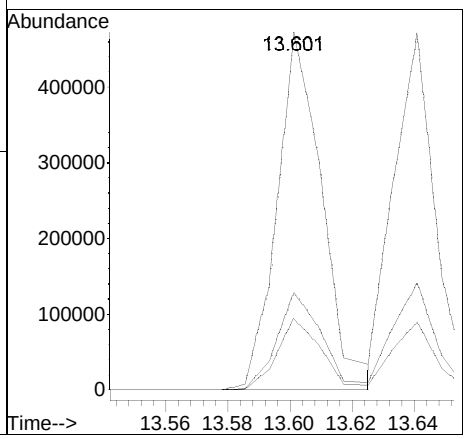


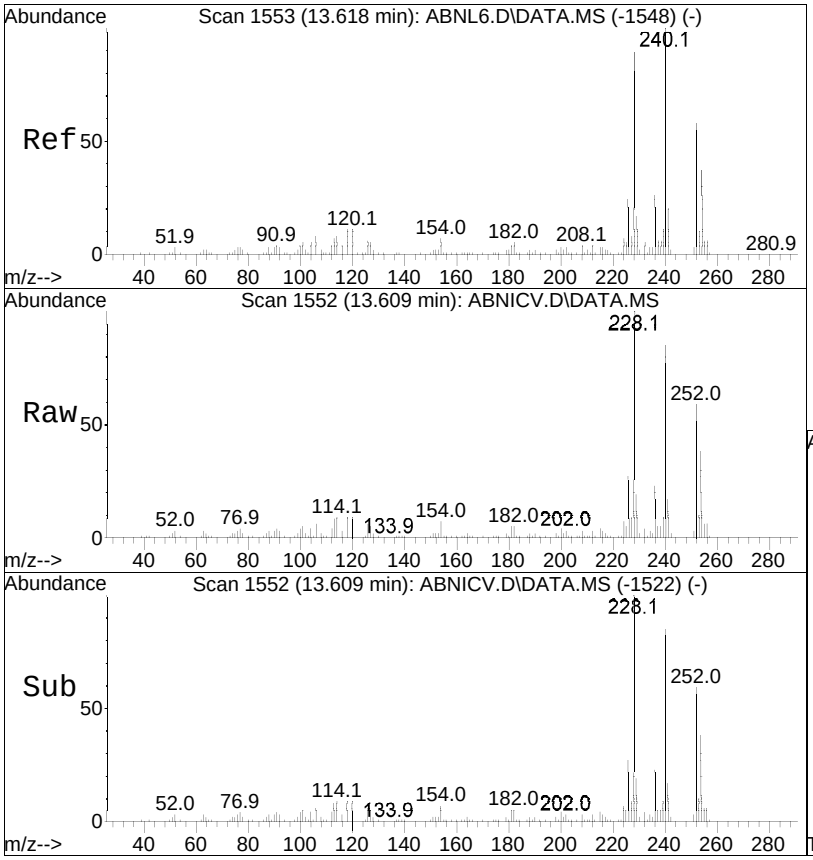


#105
Benzo(a)anthracene
Concen: 5.31 ug/ml
RT: 13.601 min Scan# 1551
Delta R.T. -0.009 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:228 Resp: 475634

Ion	Ratio	Lower	Upper
228	100		
226	27.5	22.2	33.4
229	19.9	15.6	23.4

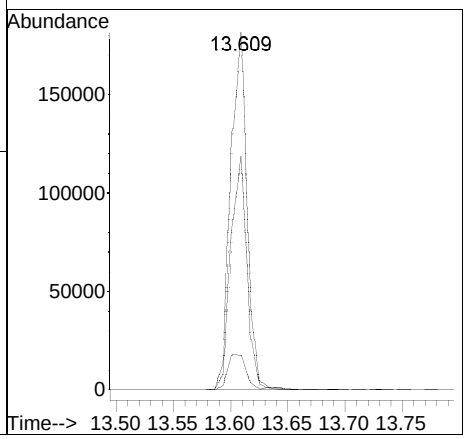


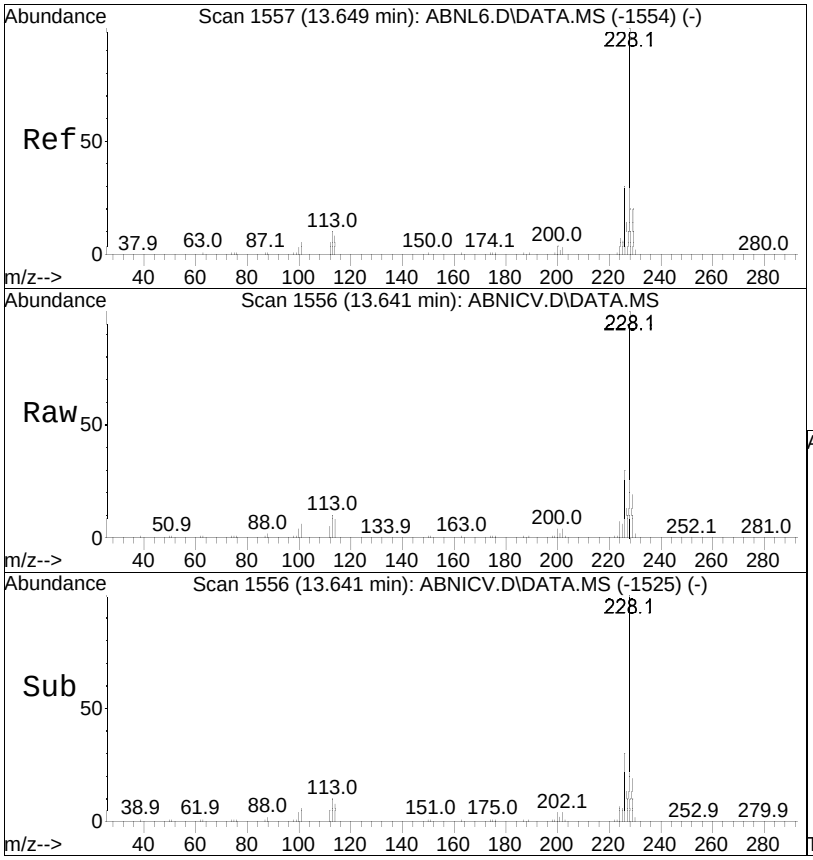


#106
3,3'-Dichlorobenzidine
Concen: 5.96 ug/ml
RT: 13.609 min Scan# 1552
Delta R.T. -0.009 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:252 Resp: 179178

Ion	Ratio	Lower	Upper
252	100		
126	12.4	14.5	21.7#
254	64.7	51.2	76.8

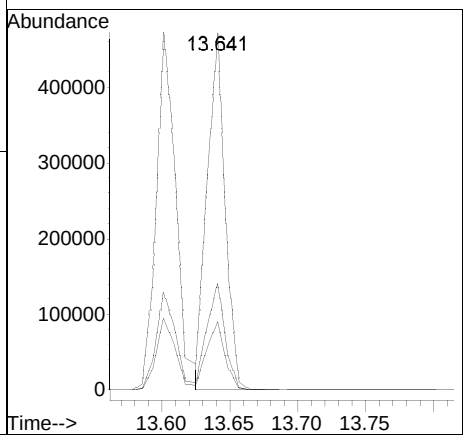


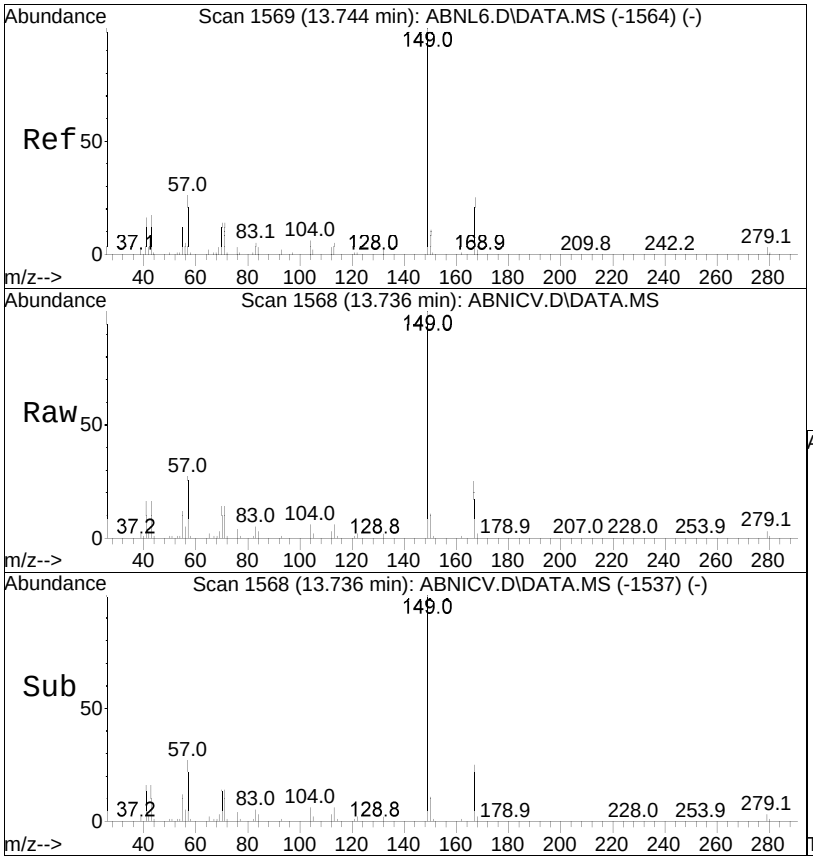


#107
Chrysene
Concen: 4.84 ug/ml
RT: 13.641 min Scan# 1556
Delta R.T. -0.008 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:228 Resp: 429359

Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.0	36.0
229	19.3	15.8	23.8

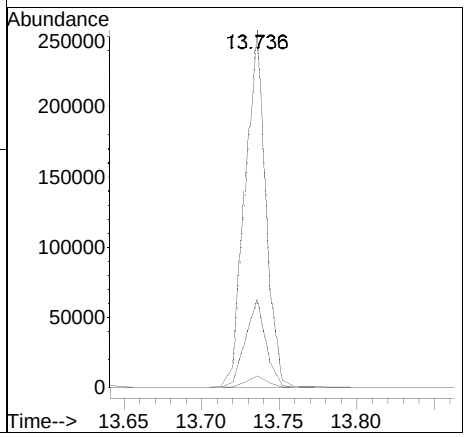


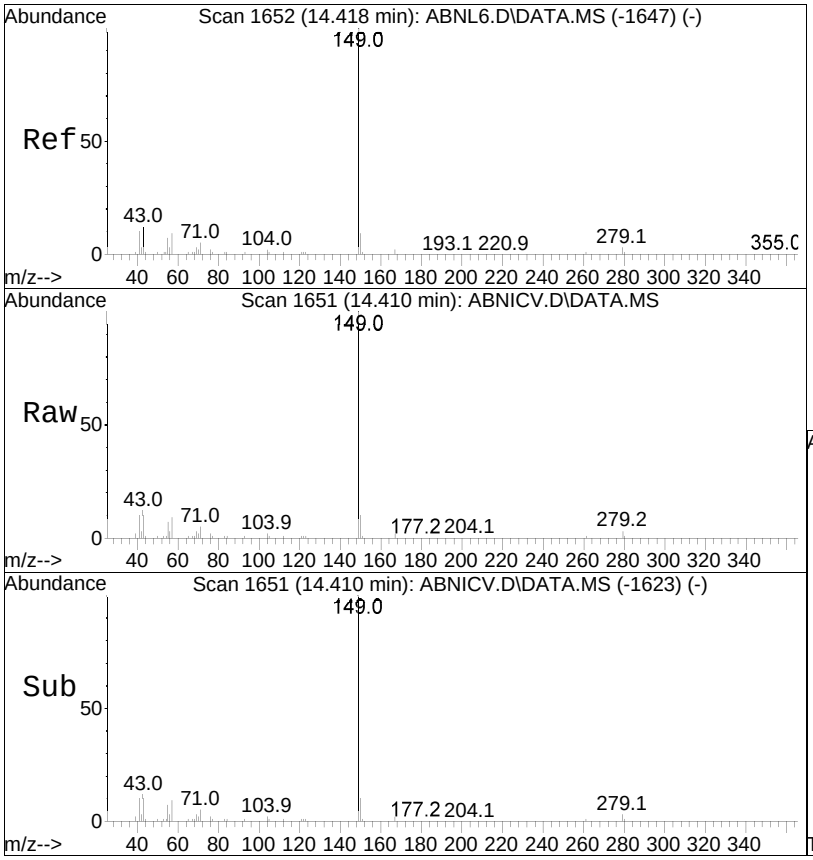


#108
Bis(2-ethylhexyl)phthalate
Concen: 4.61 ug/ml
RT: 13.736 min Scan# 1568
Delta R.T. -0.008 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:149 Resp: 233680

Ion	Ratio	Lower	Upper
149	100		
167	24.6	22.1	33.1
279	3.0	3.0	4.4

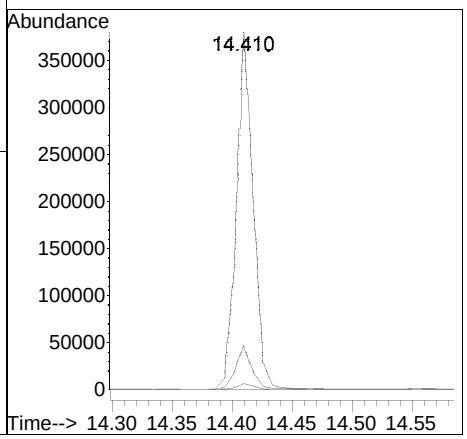


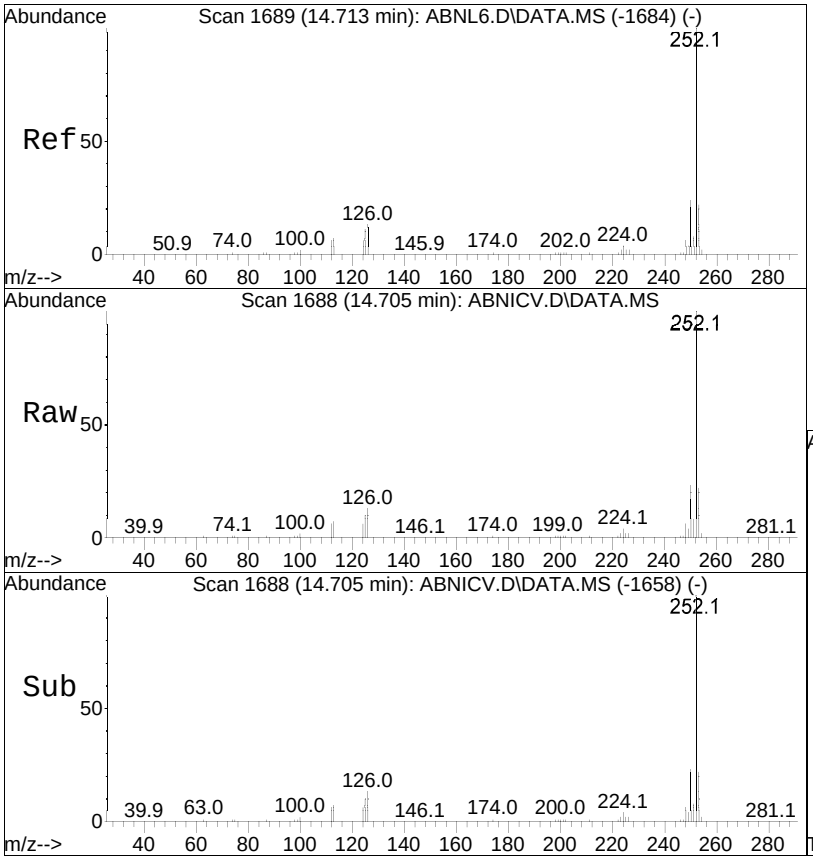


#109
Di-n-octylphthalate
Concen: 4.27 ug/ml
RT: 14.410 min Scan# 1651
Delta R.T. -0.008 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:149 Resp: 361317

Ion	Ratio	Lower	Upper
149	100		
43	12.1	18.8	28.2#
167	1.5	1.3	1.9

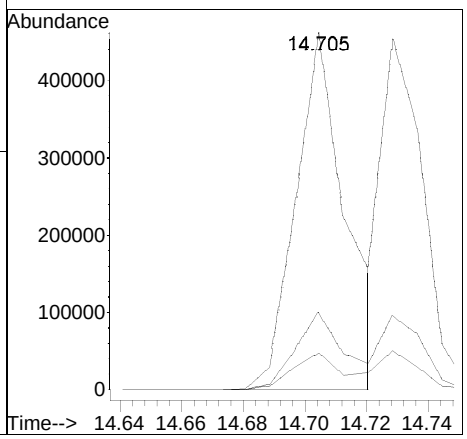


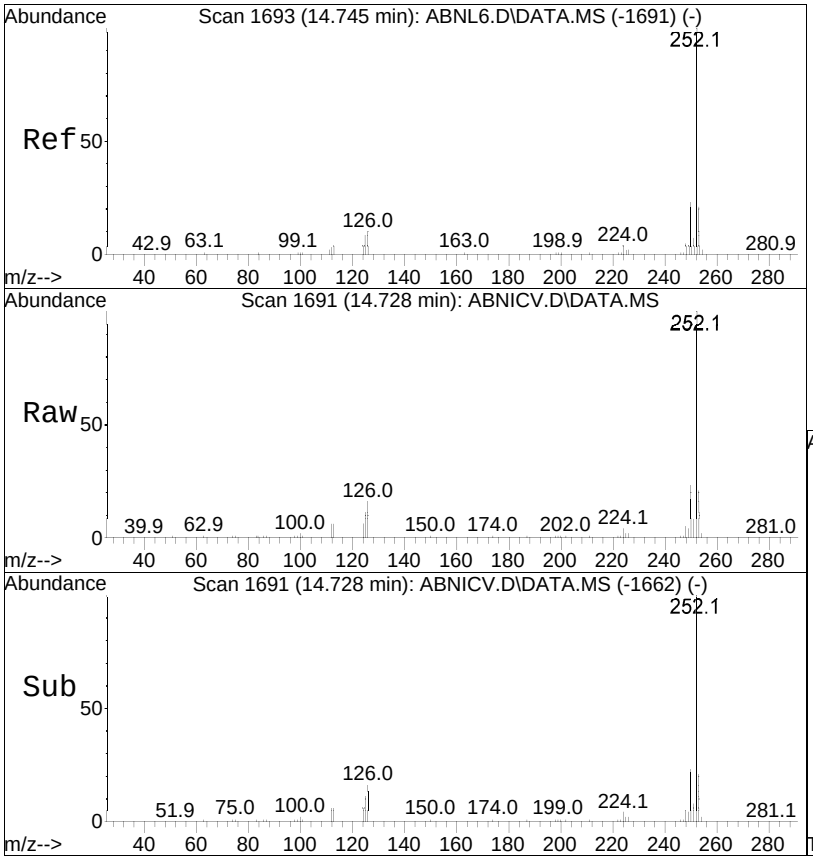


#110
Benzo(b)fluoranthene
Concen: 5.71 ug/ml
RT: 14.705 min Scan# 1688
Delta R.T. -0.008 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:252 Resp: 525748

Ion	Ratio	Lower	Upper
252	100		
125	9.1	13.3	19.9#
253	21.7	17.1	25.7

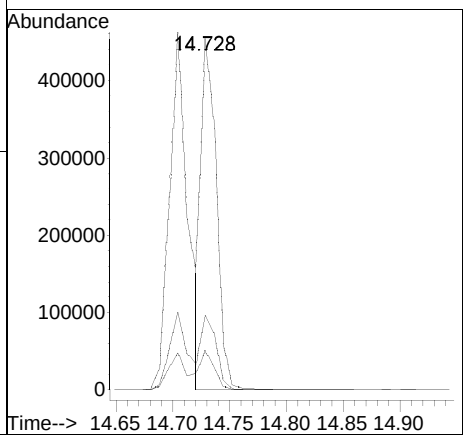


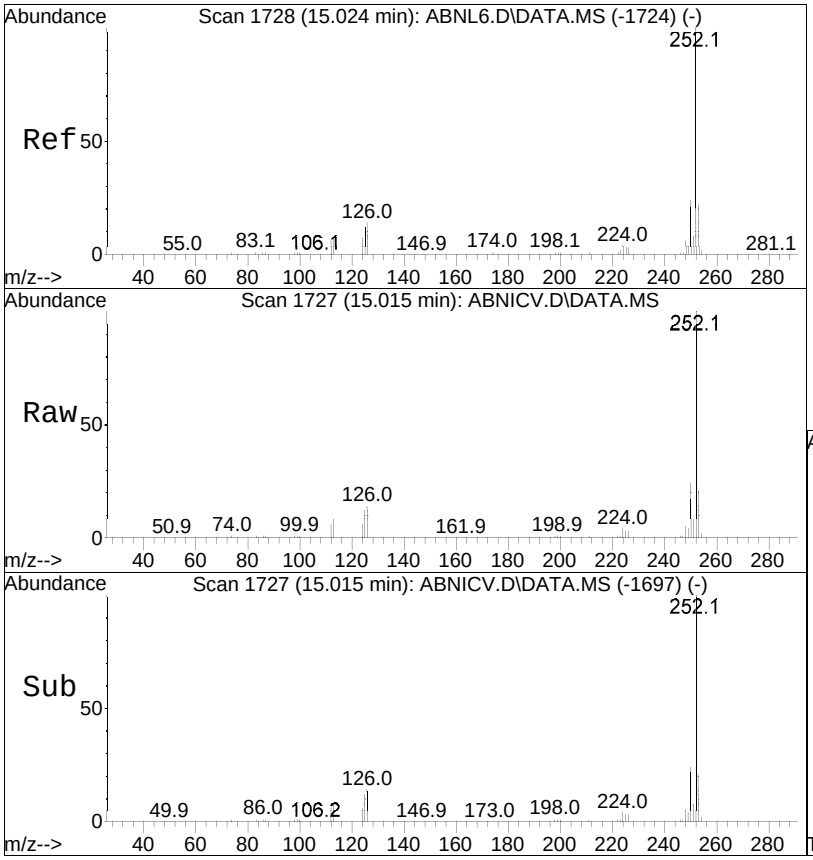


#111
Benzo(k)fluoranthene
Concen: 4.85 ug/ml
RT: 14.728 min Scan# 1691
Delta R.T. -0.017 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:252 Resp: 415673

Ion	Ratio	Lower	Upper
252	100		
125	9.9	13.0	19.6#
253	21.2	16.8	25.2

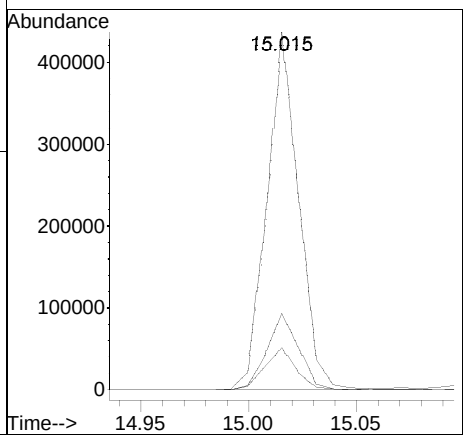


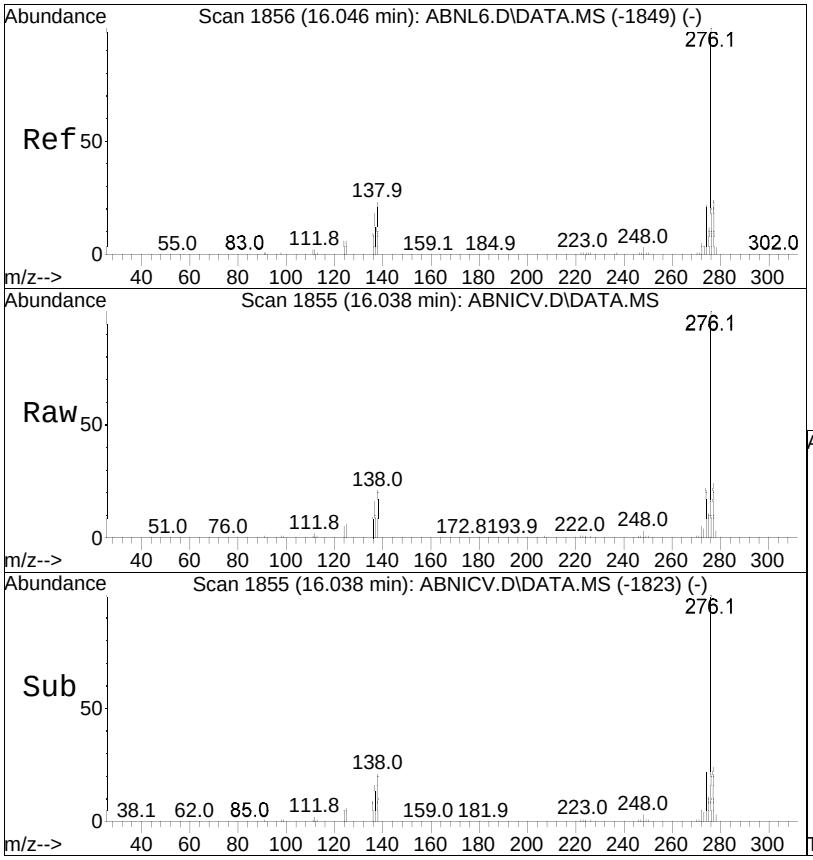


#112
Benzo(a)pyrene
Concen: 5.45 ug/ml
RT: 15.015 min Scan# 1727
Delta R.T. -0.009 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:252 Resp: 441421

Ion	Ratio	Lower	Upper
252	100		
125	11.9	14.2	21.2#
253	21.6	16.9	25.3

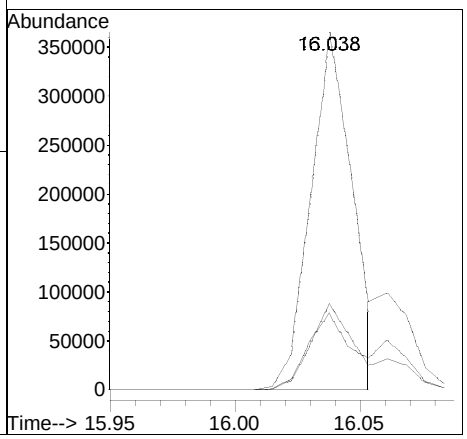


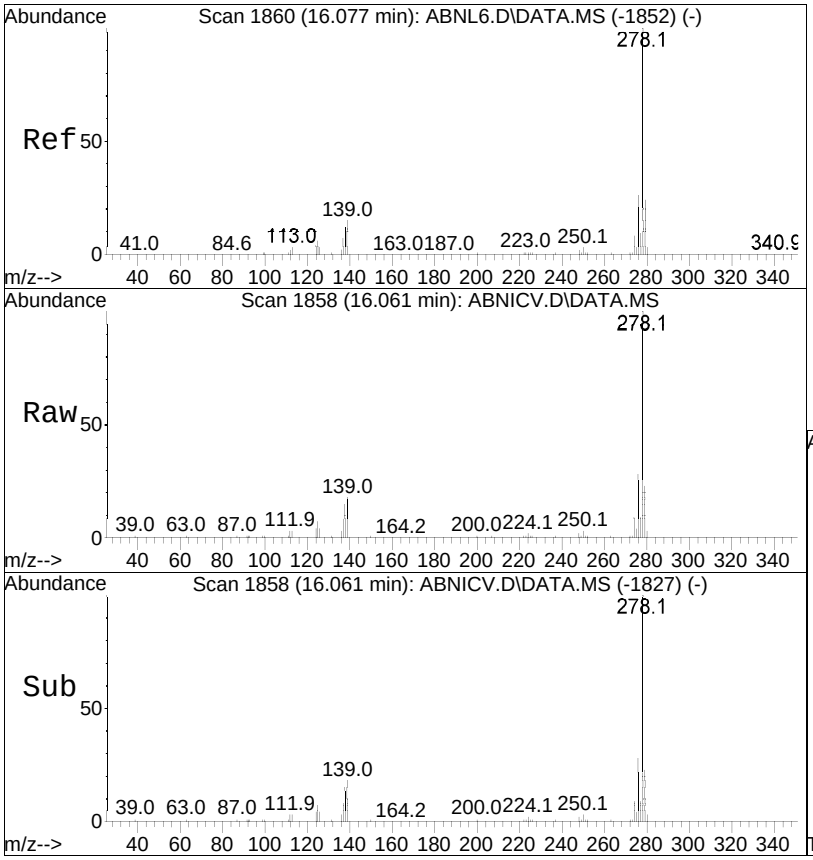


#114
Indeno(1,2,3-cd)pyrene
Concen: 5.39 ug/mL M6
RT: 16.038 min Scan# 1855
Delta R.T. -0.008 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:276 Resp: 425828

Ion	Ratio	Lower	Upper
276	100		
138	33.9	25.1	37.7
277	31.9	18.6	28.0#

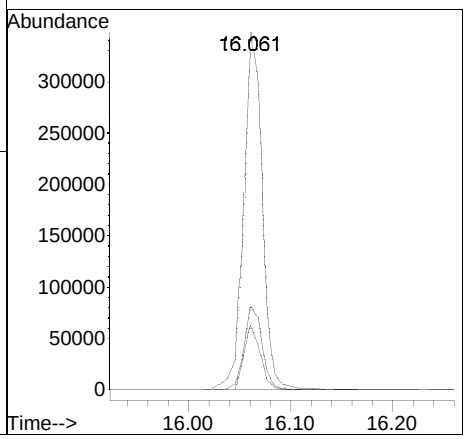


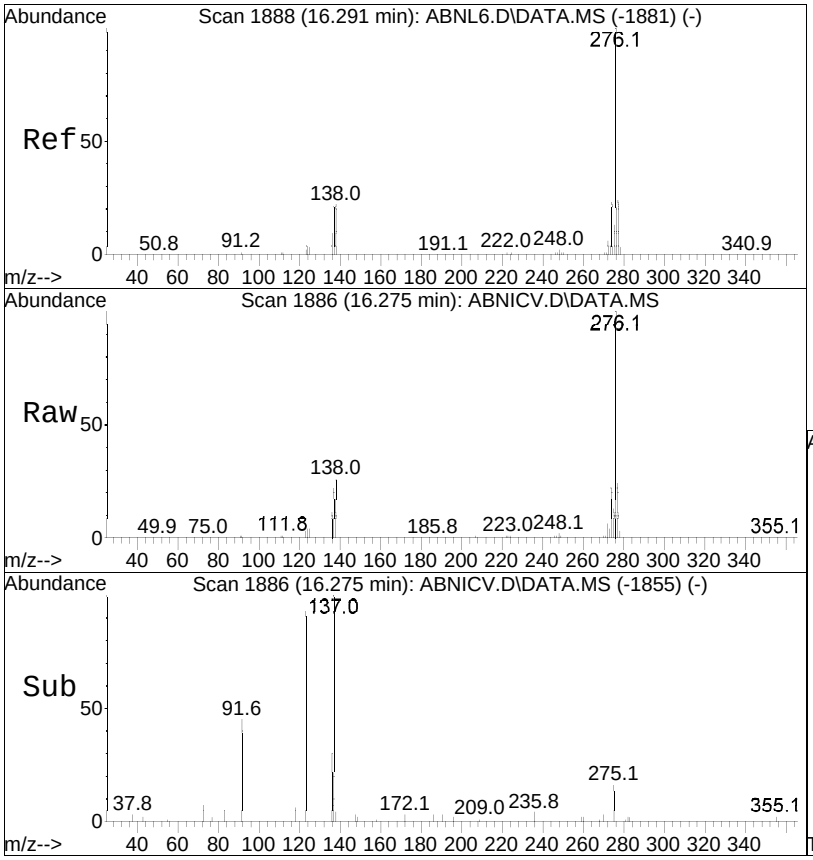


#115
Dibenzo(a,h)anthracene
Concen: 5.55 ug/ml
RT: 16.061 min Scan# 1858
Delta R.T. -0.016 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:278 Resp: 436195

Ion	Ratio	Lower	Upper
278	100		
139	16.1	20.8	31.2#
279	23.0	18.3	27.5

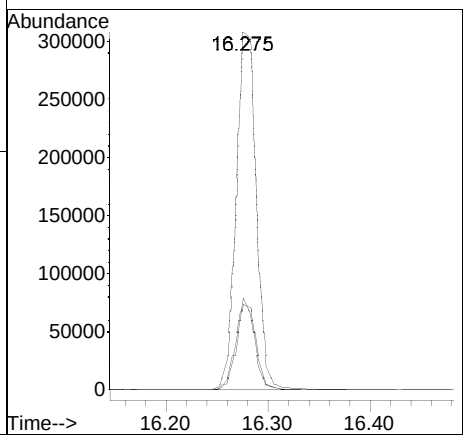




#116
Benzo(ghi)perylene
Concen: 5.39 ug/ml
RT: 16.275 min Scan# 1886
Delta R.T. -0.016 min
Lab File: ABNICV.D
Acq: 11 Mar 2025 10:18 pm

Tgt Ion:276 Resp: 417580

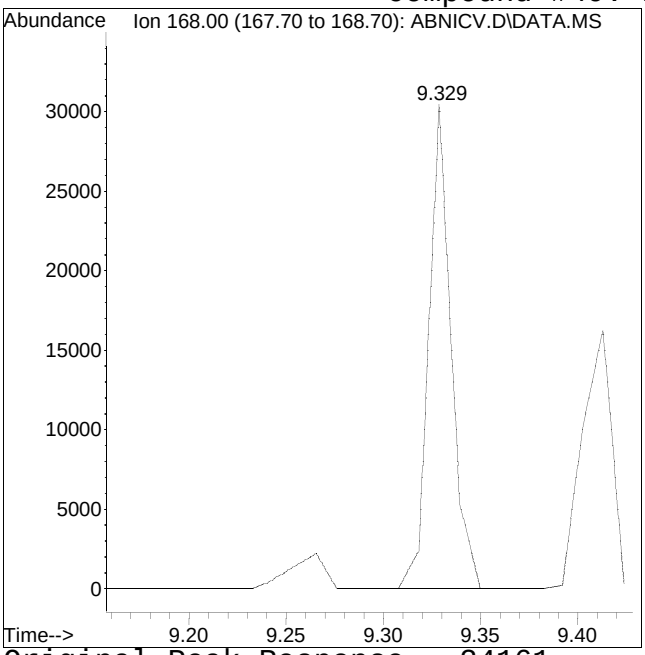
Ion	Ratio	Lower	Upper
276	100		
138	24.2	29.2	43.8#
277	23.8	18.8	28.2

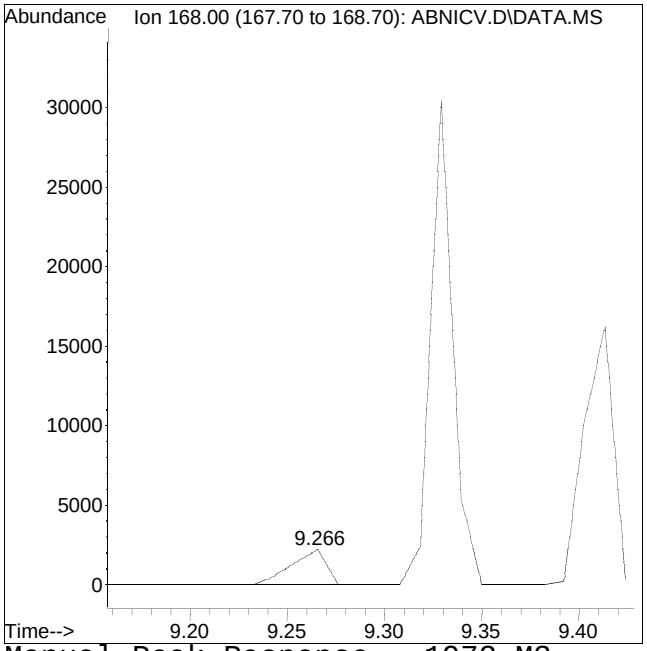


Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNICV.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 10:18 pm Instrument : SV 106
Sample : CQICV1,32,,ABNICV Lot# 114Quant Date : 3/12/2025 12:21 pm

Compound #49: 1,4-Dinitrobenzene





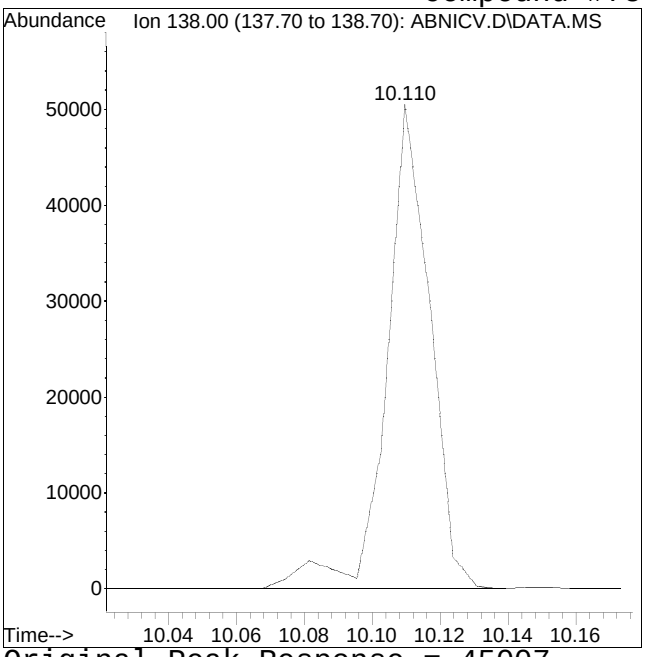
Original Peak Response = 24161 Manual Peak Response = 1972 M3

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

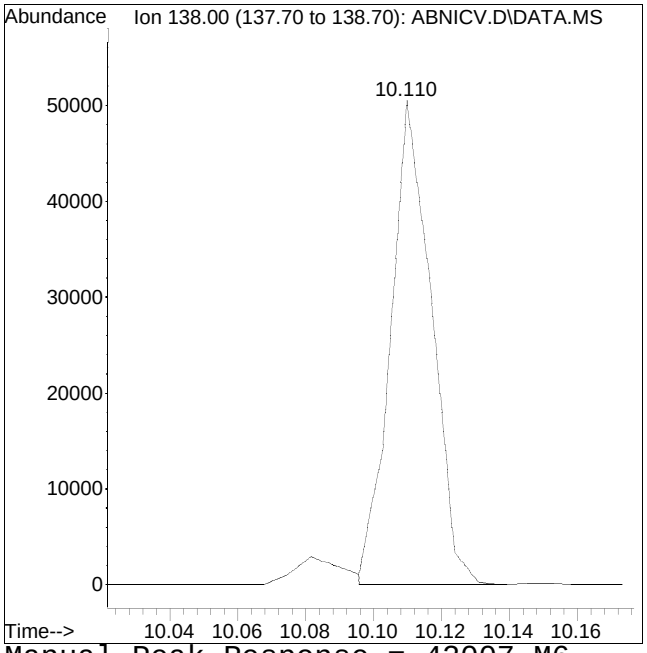
Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNICV.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 10:18 pm Instrument : SV 106
Sample : CQICV1,32,,ABNICV Lot# 114Quant Date : 3/12/2025 12:21 pm

Compound #75: 4-Nitroaniline



Original Peak Response = 45007



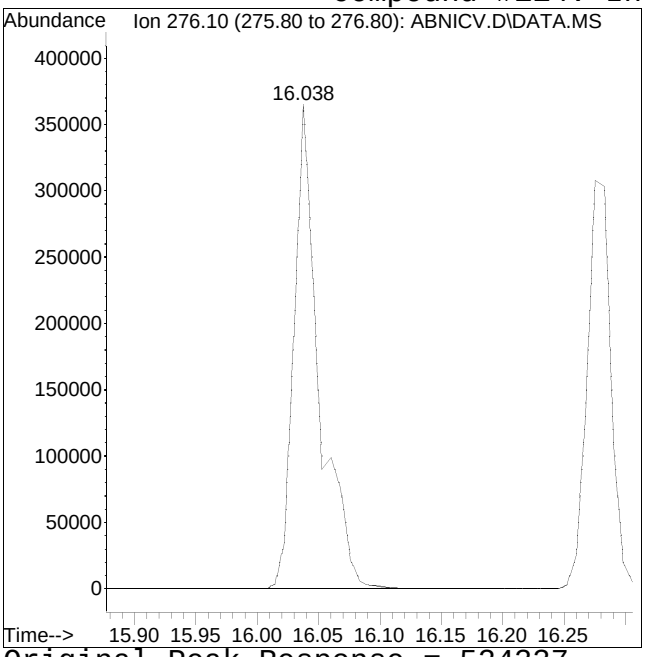
Manual Peak Response = 42007 M6

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

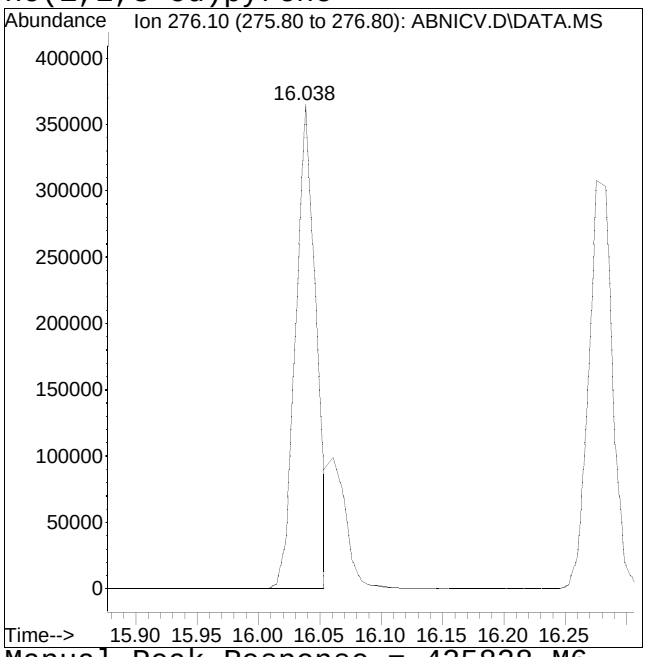
Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ABNICV.D Operator : SV106:ljg
Date Inj'd : 3/11/2025 10:18 pm Instrument : SV 106
Sample : CQICV1,32,,ABNICV Lot# 114Quant Date : 3/12/2025 12:21 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 524337



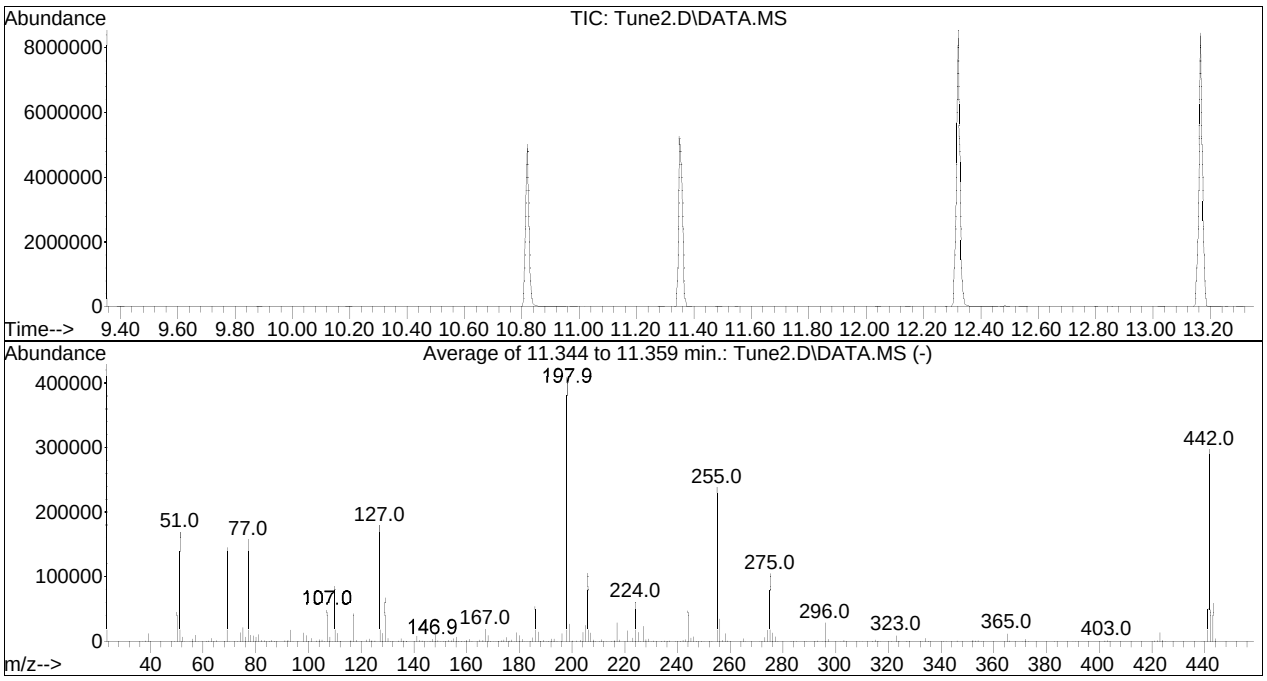
Manual Peak Response = 425828 M6

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

Data Path : I:\8270\SV106\250311RVTical\
Data File : Tune2.D
Acq On : 11 Mar 2025 11:05 pm
Operator : SV106:ljg
Sample : Tune2 Lot# 11459
Misc : WG2039658,,ical
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Mar 12 12:21:00 2025



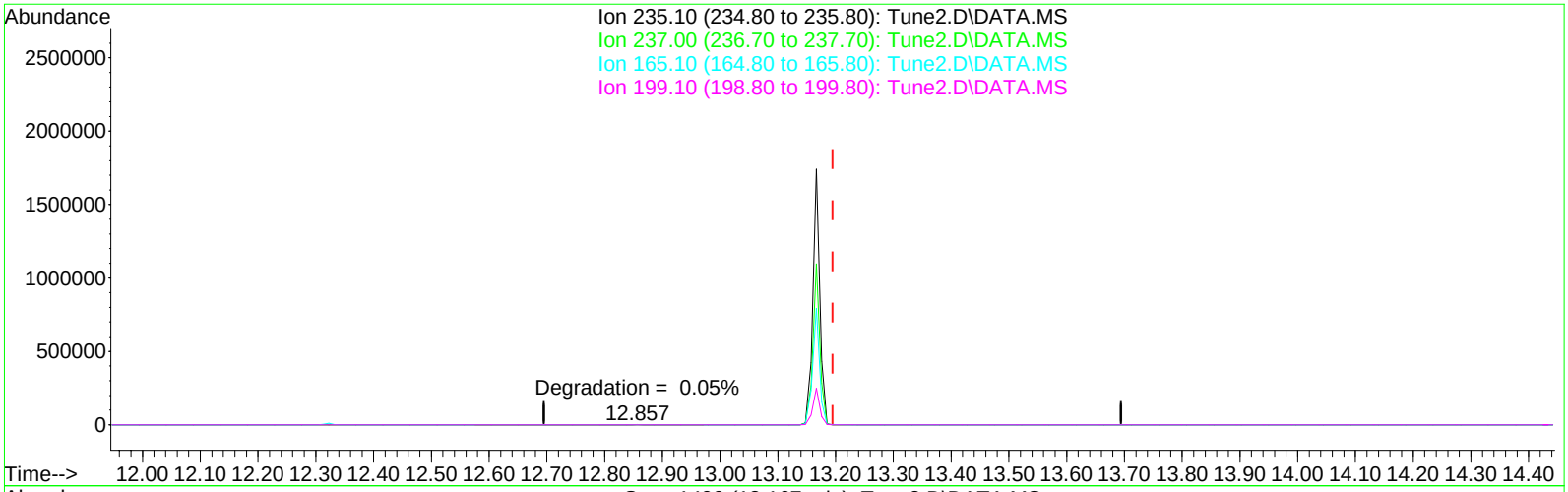
Spectrum Information: Average of 11.344 to 11.359 min.

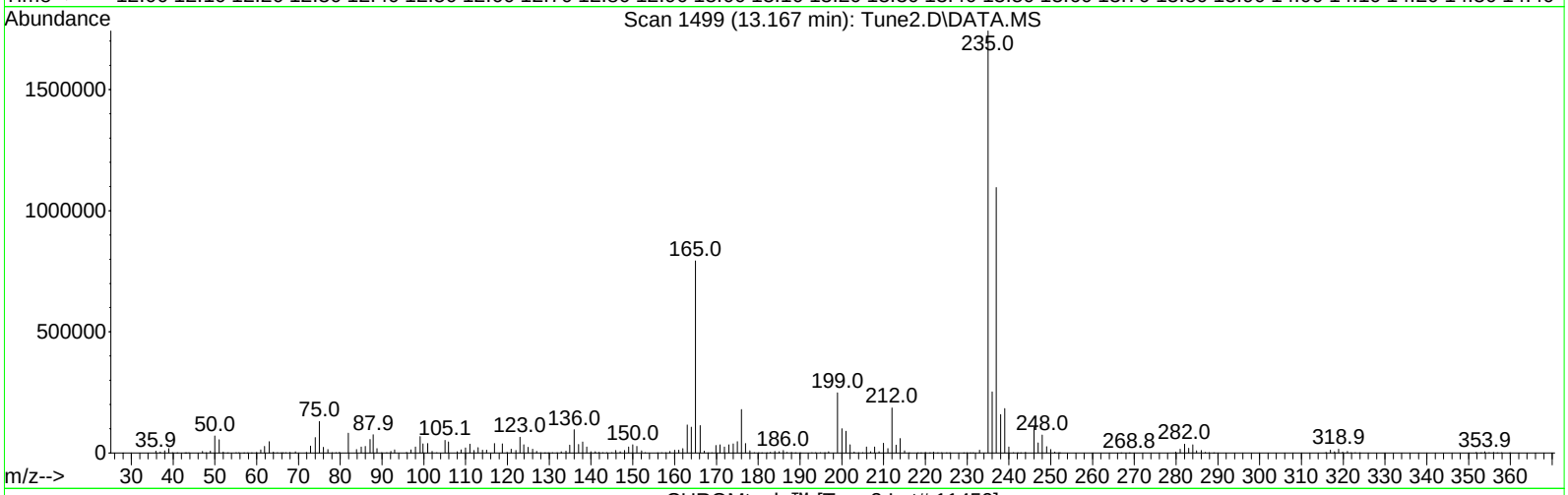
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	41.4	169072	PASS
68	69	0.00	2	0.7	1091	PASS
69	69	100	100	100.0	145803	PASS
70	69	0.00	2	0.5	719	PASS
127	198	10	80	43.7	178635	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	408317	PASS
199	198	5	9	6.6	27143	PASS
275	198	10	60	25.6	104515	PASS
365	198	1	100	3.0	12385	PASS
441	442	0.01	24	16.9	50261	PASS
442	198	50	100	72.8	297117	PASS
443	442	15	24	19.6	58130	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\250311RVTical\
Data File : Tune2.D
Acq On : 11 Mar 2025 11:05 pm
Operator : SV106:ljg
Sample : Tune2 Lot# 11459
Misc : WG2039658,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Mar 12 06:03:23 2025
Quant Method : I:\8270\SV106\250311RVTical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 06 00:46:17 2025
Response via : Initial Calibration





CHROMtools™ [Tune2 Lot# 11459]

(6) DDT (T)

13.167min (-0.028) 266.44

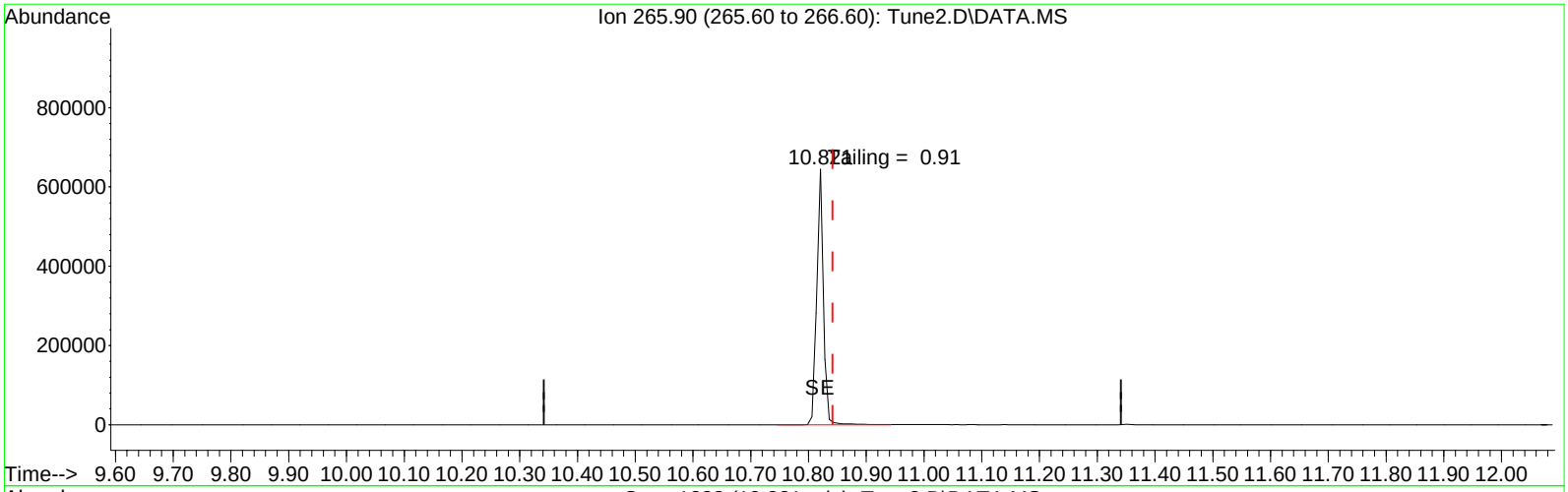
response 1624133

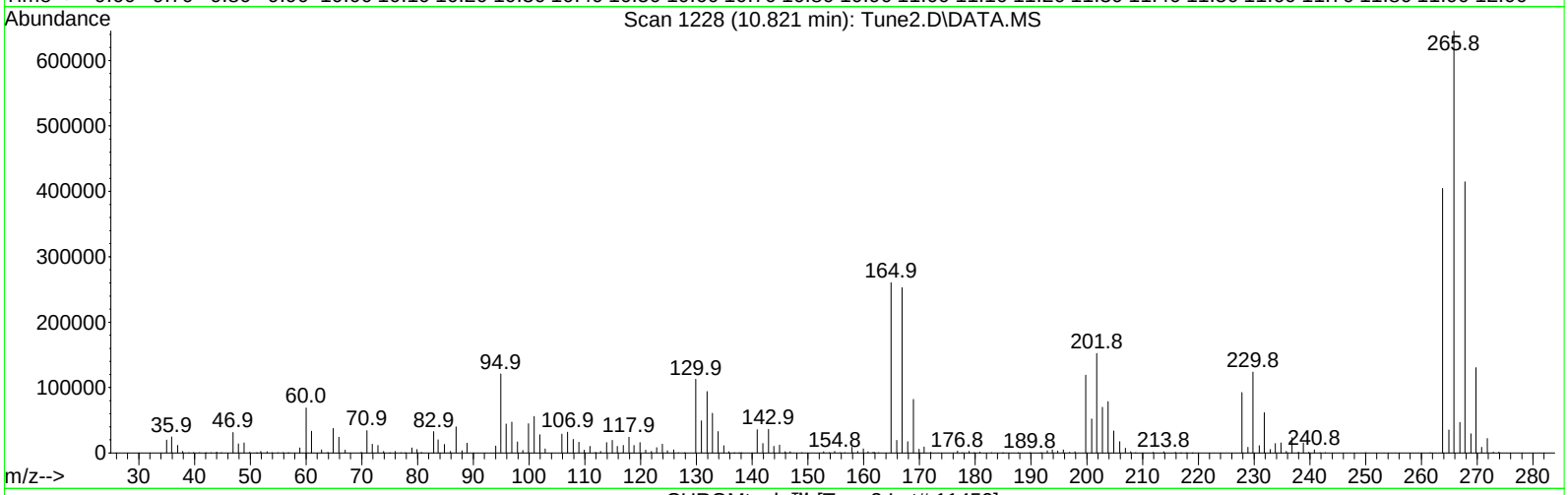
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.30	64.60
165.10	44.50	47.70
199.10	14.80	15.39

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\250311RVTical\
Data File : Tune2.D
Acq On : 11 Mar 2025 11:05 pm
Operator : SV106:ljg
Sample : Tune2 Lot# 11459
Misc : WG2039658,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Mar 12 06:03:23 2025
Quant Method : I:\8270\SV106\250311RVTical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 06 00:46:17 2025
Response via : Initial Calibration





CHROMtools™ [Tune2 Lot# 11459]

(1) Pentachlorophenol (T)

10.821min (-0.021) 249.67

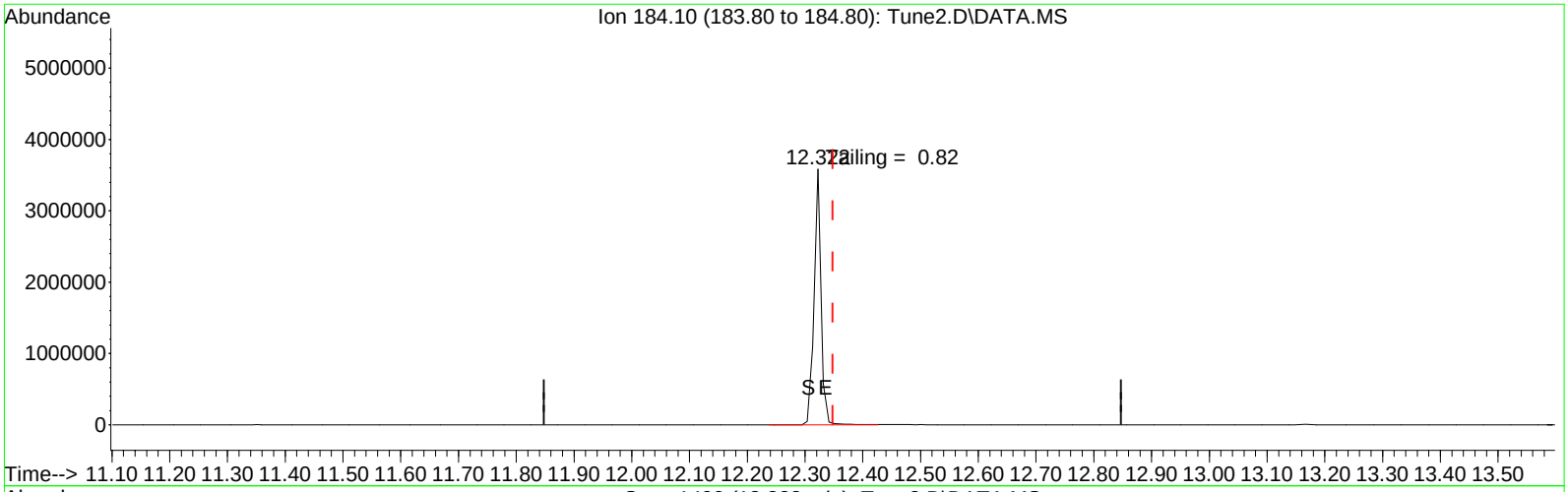
response 524399

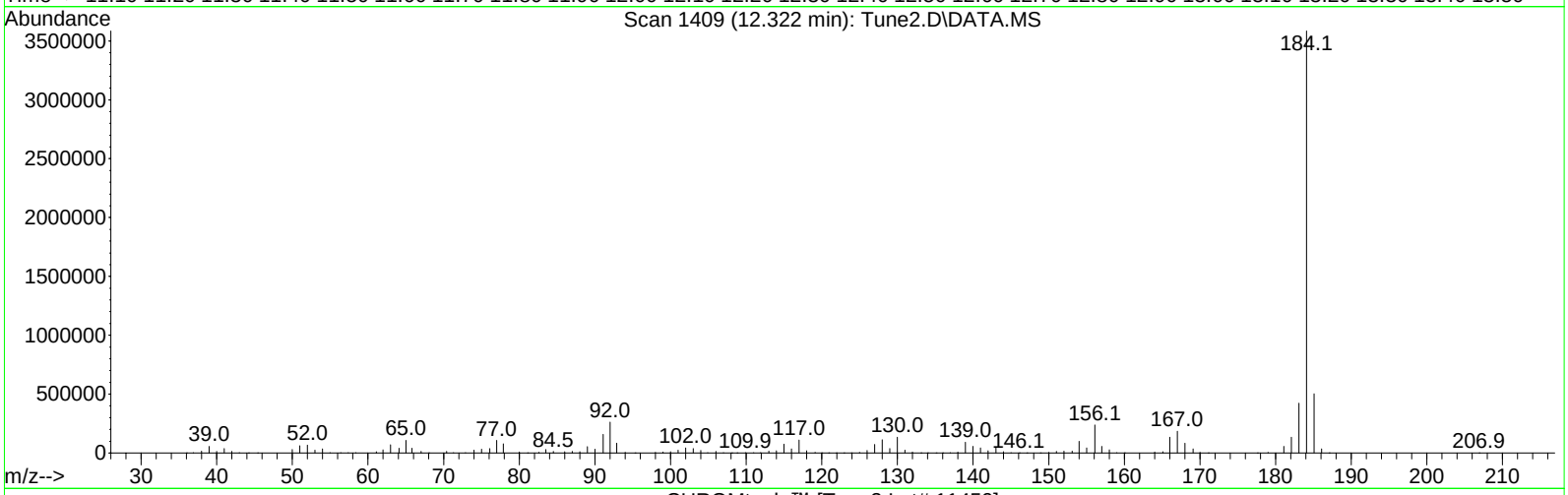
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\250311RVTical\
Data File : Tune2.D
Acq On : 11 Mar 2025 11:05 pm
Operator : SV106:ljg
Sample : Tune2 Lot# 11459
Misc : WG2039658,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Mar 12 06:03:23 2025
Quant Method : I:\8270\SV106\250311RVTical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 06 00:46:17 2025
Response via : Initial Calibration





CHROMtools™ [Tune2 Lot# 11459]

(3) Benzidine (T)

12.322min (-0.026) 299.48

response 3048761

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : AP9L9.D
Acq On : 11 Mar 2025 11:29 pm
Operator : SV106:ljg
Sample : IL2,32,,AP9L50 Lot# 11434
Misc : WG2039658,,ical
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 12 11:30:27 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 10:34:57 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.351	152	56507	4.000	ug/ml	0.00
Standard Area 3 = 56555			Recovery = 99.92%			
55) IS2_Naphthalene-d8	7.783	136	207695	4.000	ug/ml	# 0.00
Standard Area 3 = 212446			Recovery = 97.76%			
83) IS2_Acenaphthene-d10	9.550	164	128104	4.000	ug/ml	0.00
Standard Area 3 = 130976			Recovery = 97.81%			
98) IS2_Phenanthrene-d10	10.988	188	264496	4.000	ug/ml	0.00
Standard Area 3 = 265623			Recovery = 99.58%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.765	105	692346	51.385	ug/ml	94
29) Acetophenone	6.852	105	1206217	51.886	ug/ml#	86
30) m-Toluidine	6.957	106	1177895	55.063	ug/ml	95
31) 2-Chloroaniline	7.363	127	1081318	51.693	ug/ml#	93
56) a-Terpineol	7.869	59	792895	55.569	ug/ml	90
57) 3-Chloroaniline	7.876	65	377672	52.155	ug/ml	90
58) 2,6-Dichlorophenol	7.905	162	765728	54.607	ug/ml	99
59) 1-chloro-2-nitrobenzene	8.171	111	327148	58.347	ug/ml#	1
60) Caprolactam	8.229	55	477174	55.833	ug/ml#	85
61) 1,2,4,5-Tetrachloroben...	8.701	216	1008535	48.377	ug/ml	97
62) Biphenyl	9.001	154	2201044	47.879	ug/ml	99
84) Dichloran	10.692	206	266944	49.857	ug/ml#	67
85) Pentachloronitrobenzene	10.836	237	288429	62.594	ug/ml#	79
99) Diphenamid	11.900	167	1638112	60.017	ug/ml#	79

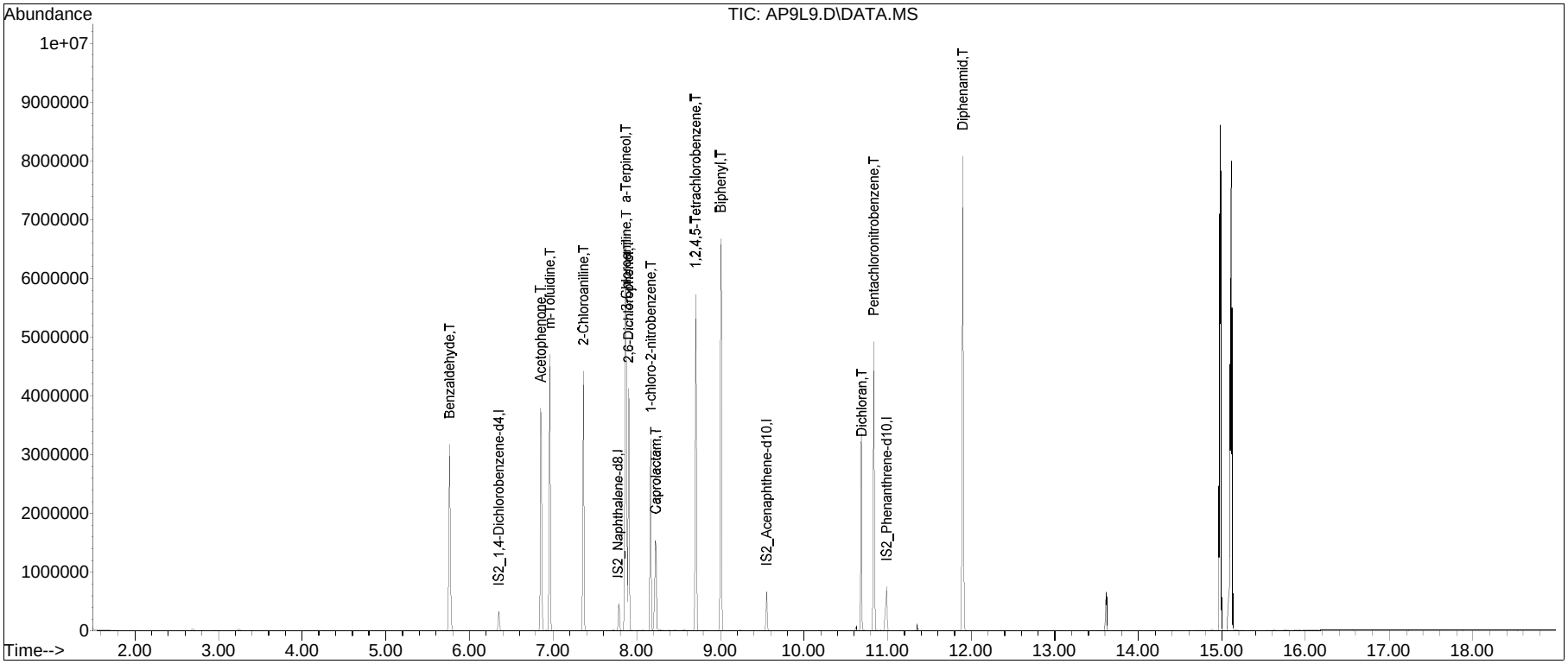
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : AP9L9.D
Acq On : 11 Mar 2025 11:29 pm
Operator : SV106:ljg
Sample : IL2,32,,AP9L50 Lot# 11434
Misc : WG2039658,,ical
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 12 11:30:27 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 10:34:57 2025
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\250311RVTica	QMethod	: FS250311SV106.m
Data File	: AP9L9.D	Operator	: SV106:ljg
Date Inj'd	: 3/11/2025 11:29 pm	Instrument	: SV 106
Sample	: IL2,32,,AP9L50 Lot# 11434	Quant Date	: 3/12/2025 11:31 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : AP9L8.D
Acq On : 11 Mar 2025 11:52 pm
Operator : SV106:ljg
Sample : IL3,32,,AP9L25 Lot# 11435
Misc : WG2039658,,ical
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 12 11:30:17 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 10:34:57 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.351	152	55563	4.000	ug/ml	0.00
Standard Area 3 = 56555			Recovery = 98.25%			
55) IS2_Naphthalene-d8	7.783	136	210049	4.000	ug/ml	# 0.00
Standard Area 3 = 212446			Recovery = 98.87%			
83) IS2_Acenaphthene-d10	9.550	164	131615	4.000	ug/ml	0.00
Standard Area 3 = 130976			Recovery = 100.49%			
98) IS2_Phenanthrene-d10	10.988	188	268349	4.000	ug/ml	0.00
Standard Area 3 = 265623			Recovery = 101.03%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.765	105	378349	28.558	ug/ml	96
29) Acetophenone	6.852	105	656452	28.717	ug/ml#	87
30) m-Toluidine	6.957	106	644657	30.648	ug/ml	95
31) 2-Chloroaniline	7.363	127	605573	29.442	ug/ml#	93
56) a-Terpineol	7.862	59	426099	29.528	ug/ml	89
57) 3-Chloroaniline	7.876	65	209786	28.646	ug/ml	91
58) 2,6-Dichlorophenol	7.898	162	418336	29.499	ug/ml	99
59) 1-chloro-2-nitrobenzene	8.171	111	175202	30.897	ug/ml#	1
60) Caprolactam	8.222	55	263008	30.429	ug/ml#	85
61) 1,2,4,5-Tetrachloroben...	8.701	216	559974	26.560	ug/ml	97
62) Biphenyl	9.001	154	1233086	26.523	ug/ml	99
84) Dichloran	10.685	206	136072	25.684	ug/ml#	68
85) Pentachloronitrobenzene	10.836	237	151819	32.068	ug/ml#	79
99) Diphenamid	11.900	167	902672	32.597	ug/ml#	79

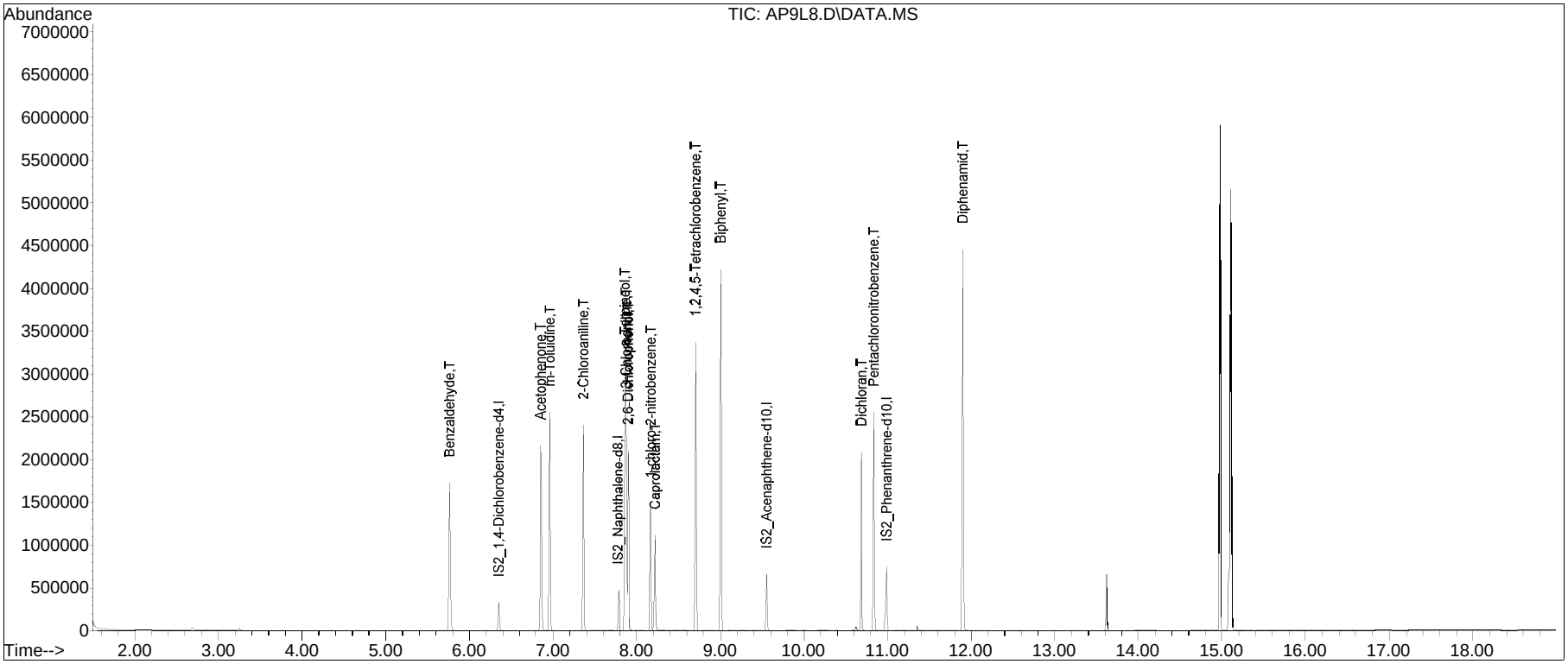
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : AP9L8.D
Acq On : 11 Mar 2025 11:52 pm
Operator : SV106:ljg
Sample : IL3,32,,AP9L25 Lot# 11435
Misc : WG2039658,,ical
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Mar 12 11:30:17 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 10:34:57 2025
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\250311RVTica	QMethod	: FS250311SV106.m
Data File	: AP9L8.D	Operator	: SV106:ljg
Date Inj'd	: 3/11/2025 11:52 pm	Instrument	: SV 106
Sample	: IL3,32,,AP9L25 Lot# 11435	Quant Date	: 3/12/2025 11:31 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : AP9L7.D
Acq On : 12 Mar 2025 12:15 am
Operator : SV106:ljg
Sample : IL4,32,,AP9L10 Lot# 11436
Misc : WG2039658,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 12 11:30:08 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 10:34:57 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.351	152	55037	4.000	ug/ml		0.00
Standard Area 3 = 56555			Recovery = 97.32%				
55) IS2_Naphthalene-d8	7.782	136	200736	4.000	ug/ml	#	0.00
Standard Area 3 = 212446			Recovery = 94.49%				
83) IS2_Acenaphthene-d10	9.550	164	125270	4.000	ug/ml		0.00
Standard Area 3 = 130976			Recovery = 95.64%				
98) IS2_Phenanthrene-d10	10.988	188	258864	4.000	ug/ml		0.00
Standard Area 3 = 265623			Recovery = 97.46%				
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.764	105	127937	9.749	ug/ml		97
29) Acetophenone	6.852	105	221932	9.802	ug/ml	#	87
30) m-Toluidine	6.957	106	214835	10.311	ug/ml		95
31) 2-Chloroaniline	7.363	127	205777	10.100	ug/ml	#	93
56) a-Terpineol	7.862	59	138352	10.032	ug/ml		87
57) 3-Chloroaniline	7.869	65	70617	10.090	ug/ml		94
58) 2,6-Dichlorophenol	7.898	162	137362	10.135	ug/ml		97
59) 1-chloro-2-nitrobenzene	8.164	111	56147	10.361	ug/ml	#	1
60) Caprolactam	8.207	55	83234	10.077	ug/ml	#	85
61) 1,2,4,5-Tetrachloroben...	8.701	216	191058	9.482	ug/ml		97
62) Biphenyl	9.000	154	416182	9.367	ug/ml		98
84) Dichloran	10.685	206	37998	8.864	ug/ml	#	71
85) Pentachloronitrobenzene	10.836	237	45991	10.207	ug/ml	#	80
99) Diphenamid	11.900	167	286356	10.720	ug/ml	#	78

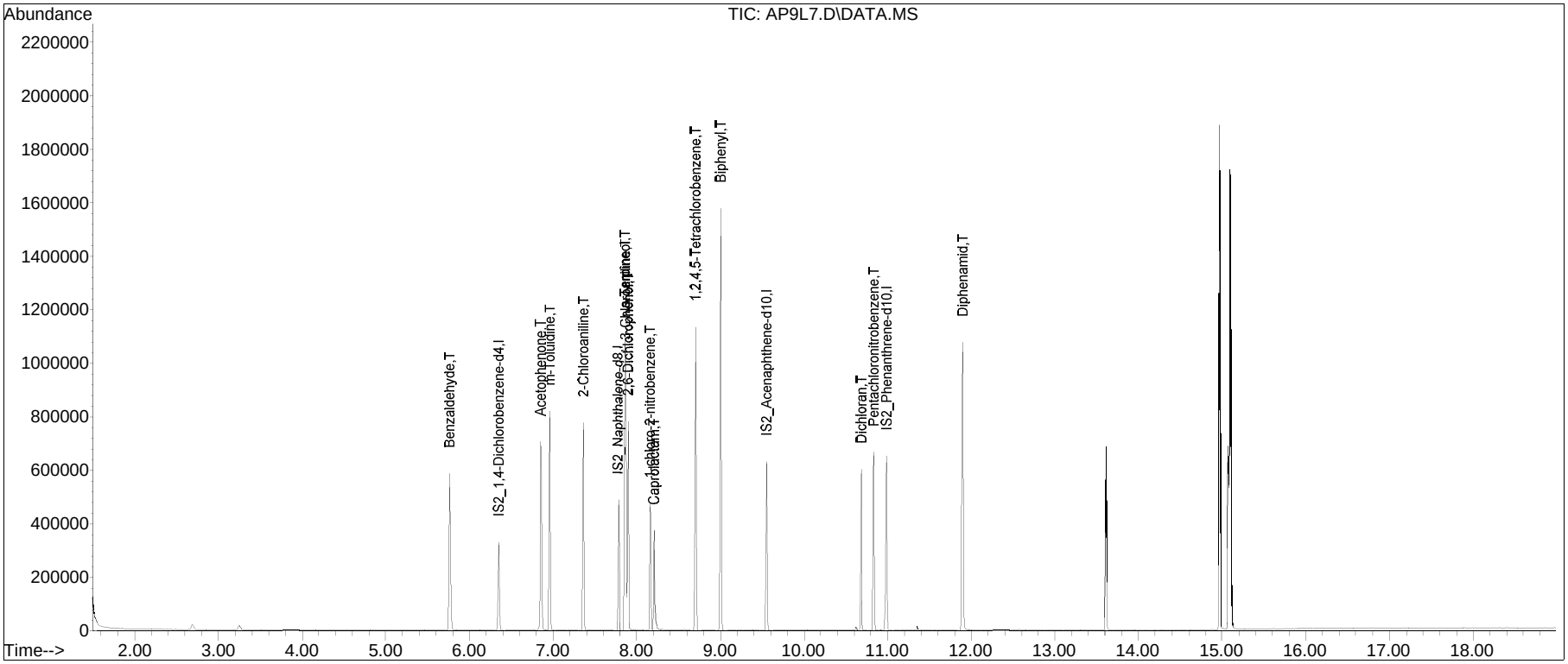
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : AP9L7.D
Acq On : 12 Mar 2025 12:15 am
Operator : SV106:ljg
Sample : IL4,32,,AP9L10 Lot# 11436
Misc : WG2039658,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 12 11:30:08 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 10:34:57 2025
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\250311RVTica	QMethod	: FS250311SV106.m
Data File	: AP9L7.D	Operator	: SV106:ljg
Date Inj'd	: 3/12/2025 12:15 am	Instrument	: SV 106
Sample	: IL4,32,,AP9L10 Lot# 11436	Quant Date	: 3/12/2025 11:31 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : AP9L6.D
Acq On : 12 Mar 2025 12:39 am
Operator : SV106:ljg
Sample : IL5,32,,AP9L5 Lot# 11437
Misc : WG2039658,,ical
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 12 11:29:58 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 10:34:57 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.351	152	56555	4.000	ug/ml		0.00
Standard Area 3 = 56555			Recovery =	100.00%			
55) IS2_Naphthalene-d8	7.782	136	212446	4.000	ug/ml	#	0.00
Standard Area 3 = 212446			Recovery =	100.00%			
83) IS2_Acenaphthene-d10	9.550	164	130976	4.000	ug/ml		0.00
Standard Area 3 = 130976			Recovery =	100.00%			
98) IS2_Phenanthrene-d10	10.988	188	265623	4.000	ug/ml		0.00
Standard Area 3 = 265623			Recovery =	100.00%			
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.764	105	66637	4.942	ug/ml		97
29) Acetophenone	6.860	105	117703	5.059	ug/ml	#	85
30) m-Toluidine	6.957	106	110078	5.141	ug/ml		94
31) 2-Chloroaniline	7.363	127	103893	4.962	ug/ml	#	94
56) a-Terpineol	7.862	59	72135	4.942	ug/ml		87
57) 3-Chloroaniline	7.876	65	37253	5.029	ug/ml		90
58) 2,6-Dichlorophenol	7.898	162	70130	4.889	ug/ml		97
59) 1-chloro-2-nitrobenzene	8.164	111	27639	4.819	ug/ml	#	1
60) Caprolactam	8.207	55	39331	4.499	ug/ml	#	85
61) 1,2,4,5-Tetrachloroben...	8.701	216	101229	4.747	ug/ml		97
62) Biphenyl	9.000	154	224028	4.764	ug/ml		97
84) Dichloran	10.685	206	17591	4.973	ug/ml	#	68
85) Pentachloronitrobenzene	10.836	237	21652	4.596	ug/ml	#	79
99) Diphenamid	11.900	167	141548	5.164	ug/ml	#	78

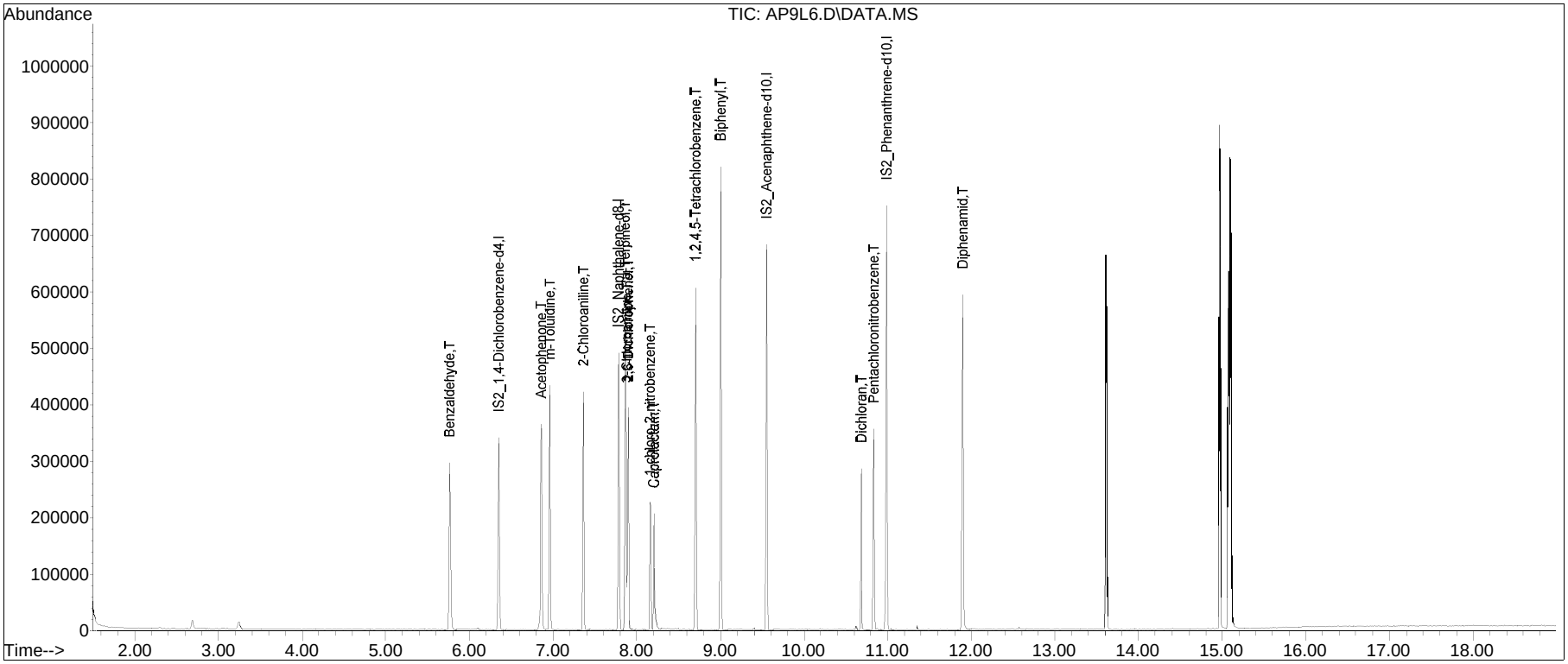
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : AP9L6.D
Acq On : 12 Mar 2025 12:39 am
Operator : SV106:ljg
Sample : IL5,32,,AP9L5 Lot# 11437
Misc : WG2039658,,ical
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 12 11:29:58 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 10:34:57 2025
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\250311RVTica	QMethod	: FS250311SV106.m
Data File	: AP9L6.D	Operator	: SV106:ljg
Date Inj'd	: 3/12/2025 12:39 am	Instrument	: SV 106
Sample	: IL5,32,,AP9L5 Lot# 11437	Quant Date	: 3/12/2025 11:30 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : AP9L5.D
Acq On : 12 Mar 2025 1:02 am
Operator : SV106:ljg
Sample : IL6,32,,AP9L2.5 Lot# 11438
Misc : WG2039658,,ical
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 12 11:29:48 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 10:34:57 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.351	152	58916	4.000	ug/ml		0.00
Standard Area 3 = 56555			Recovery = 104.17%				
55) IS2_Naphthalene-d8	7.783	136	212580	4.000	ug/ml	#	0.00
Standard Area 3 = 212446			Recovery = 100.06%				
83) IS2_Acenaphthene-d10	9.550	164	131775	4.000	ug/ml		0.00
Standard Area 3 = 130976			Recovery = 100.61%				
98) IS2_Phenanthrene-d10	10.988	188	271904	4.000	ug/ml		0.00
Standard Area 3 = 265623			Recovery = 102.36%				
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.773	105	31831	2.266	ug/ml		94
29) Acetophenone	6.860	105	55304	2.282	ug/ml	#	90
30) m-Toluidine	6.957	106	51347	2.302	ug/ml		92
31) 2-Chloroaniline	7.363	127	50423	2.312	ug/ml	#	93
56) a-Terpineol	7.862	59	33440	2.290	ug/ml	#	85
57) 3-Chloroaniline	7.869	65	17116	2.309	ug/ml		92
58) 2,6-Dichlorophenol	7.898	162	31326	2.183	ug/ml		95
59) 1-chloro-2-nitrobenzene	8.164	111	13125	2.287	ug/ml	#	1
60) Caprolactam	8.207	55	18027	2.061	ug/ml	#	87
61) 1,2,4,5-Tetrachloroben...	8.701	216	48940	2.294	ug/ml	#	97
62) Biphenyl	9.000	154	107255	2.280	ug/ml		98
84) Dichloran	10.685	206	7106	3.122	ug/ml	#	75
85) Pentachloronitrobenzene	10.836	237	9780	2.063	ug/ml	#	77
99) Diphenamid	11.891	167	60772	2.166	ug/ml	#	79

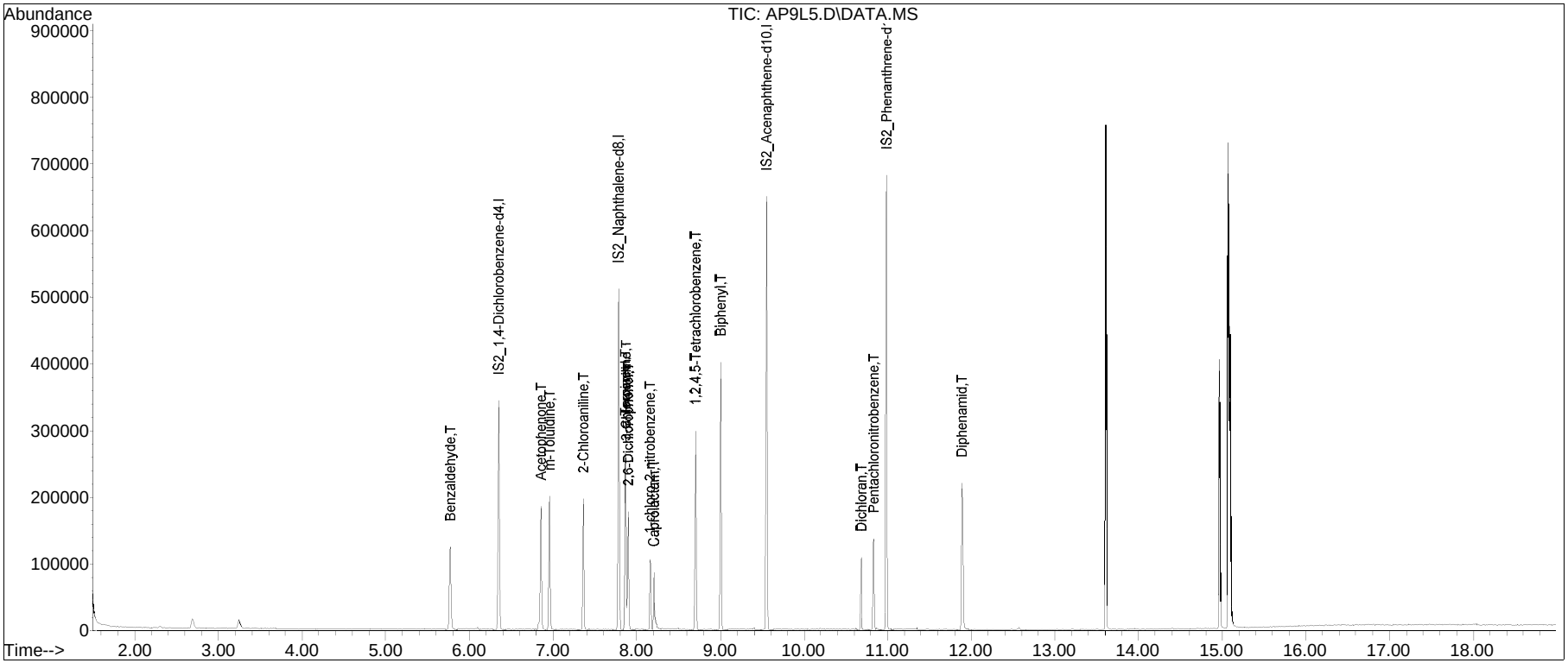
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : AP9L5.D
Acq On : 12 Mar 2025 1:02 am
Operator : SV106:ljg
Sample : IL6,32,,AP9L2.5 Lot# 11438
Misc : WG2039658,,ical
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 12 11:29:48 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 10:34:57 2025
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\250311RVTica	QMethod	: FS250311SV106.m
Data File	: AP9L5.D	Operator	: SV106:ljg
Date Inj'd	: 3/12/2025 1:02 am	Instrument	: SV 106
Sample	: IL6,32,,AP9L2.5 Lot# 11438	Quant Date	: 3/12/2025 11:30 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : AP9L4.D
Acq On : 12 Mar 2025 1:26 am
Operator : SV106:ljg
Sample : IL7,32,,AP9L1 Lot# 11439
Misc : WG2039658,,ical
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Mar 12 11:29:38 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 10:34:57 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.351	152	57343	4.000	ug/ml		0.00
Standard Area 3 = 56555			Recovery =	101.39%			
55) IS2_Naphthalene-d8	7.783	136	205569	4.000	ug/ml	#	0.00
Standard Area 3 = 212446			Recovery =	96.76%			
83) IS2_Acenaphthene-d10	9.550	164	126602	4.000	ug/ml		0.00
Standard Area 3 = 130976			Recovery =	96.66%			
98) IS2_Phenanthrene-d10	10.988	188	265494	4.000	ug/ml		0.00
Standard Area 3 = 265623			Recovery =	99.95%			
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.773	105	13710	1.003	ug/ml		97
29) Acetophenone	6.860	105	23481	0.995	ug/ml	#	90
30) m-Toluidine	6.957	106	18600	0.857	ug/ml		94
31) 2-Chloroaniline	7.363	127	21000	0.989	ug/ml	#	93
56) a-Terpineol	7.862	59	13409	0.949	ug/ml	#	84
57) 3-Chloroaniline	7.869	65	7717	1.077	ug/ml		81
58) 2,6-Dichlorophenol	7.898	162	13272	0.956	ug/ml		94
59) 1-chloro-2-nitrobenzene	8.164	111	5267	0.949	ug/ml	#	1
60) Caprolactam	8.215	55	7531	0.890	ug/ml	#	93
61) 1,2,4,5-Tetrachloroben...	8.701	216	21003	1.018	ug/ml	#	95
62) Biphenyl	9.001	154	45745	1.005	ug/ml		98
84) Dichloran	10.685	206	3236	2.469	ug/ml	#	61
85) Pentachloronitrobenzene	10.836	237	3515	0.772	ug/ml	#	79
99) Diphenamid	11.891	167	23335	0.852	ug/ml	#	77

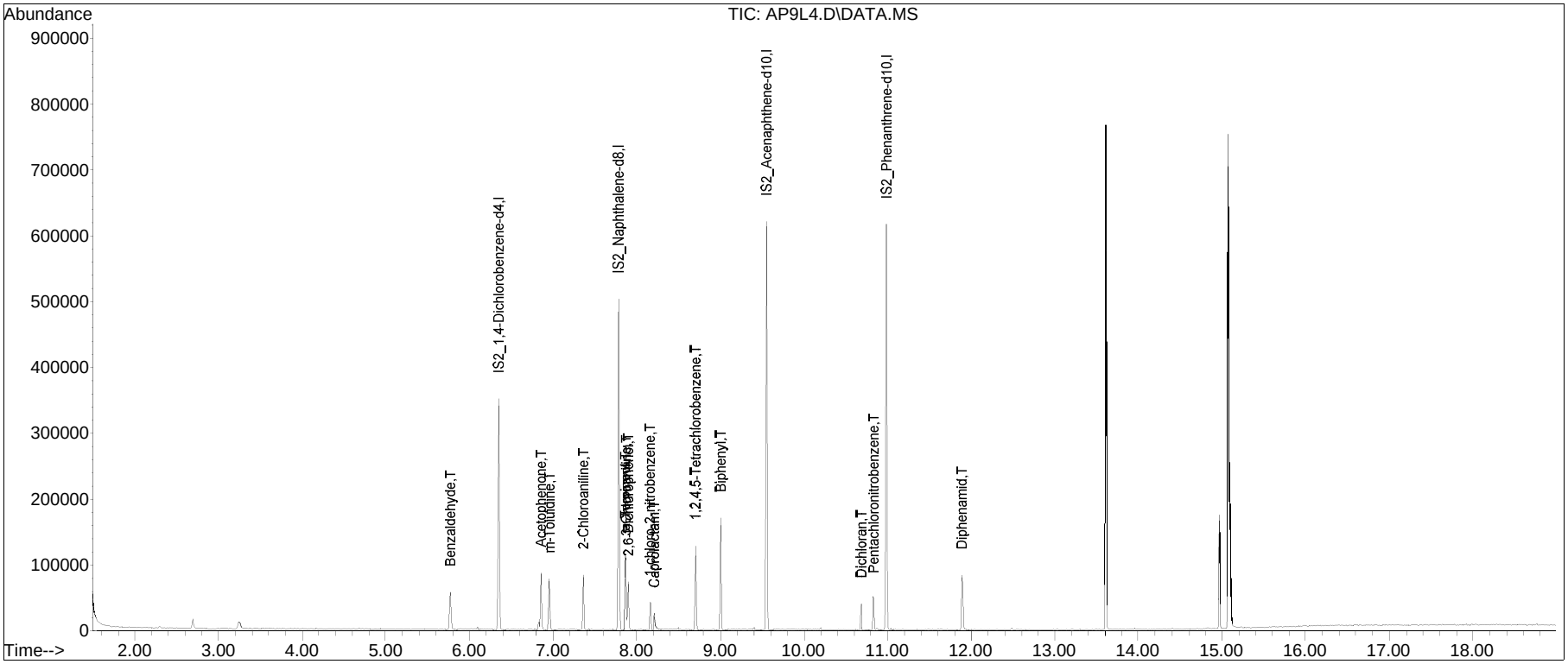
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : AP9L4.D
Acq On : 12 Mar 2025 1:26 am
Operator : SV106:ljg
Sample : IL7,32,,AP9L1 Lot# 11439
Misc : WG2039658,,ical
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Mar 12 11:29:38 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 10:34:57 2025
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\250311RVTica	QMethod	: FS250311SV106.m
Data File	: AP9L4.D	Operator	: SV106:ljg
Date Inj'd	: 3/12/2025 1:26 am	Instrument	: SV 106
Sample	: IL7,32,,AP9L1 Lot# 11439	Quant Date	: 3/12/2025 11:30 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : AP9L3.D
Acq On : 12 Mar 2025 1:49 am
Operator : SV106:ljg
Sample : IL8,32,,AP9L0.5 Lot# 11440
Misc : WG2039658,,ical
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Mar 12 11:29:29 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 10:34:57 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.351	152	56735	4.000	ug/ml		0.00
Standard Area 3 = 56555			Recovery =	100.32%			
55) IS2_Naphthalene-d8	7.783	136	208252	4.000	ug/ml	#	0.00
Standard Area 3 = 212446			Recovery =	98.03%			
83) IS2_Acenaphthene-d10	9.550	164	121699	4.000	ug/ml		0.00
Standard Area 3 = 130976			Recovery =	92.92%			
98) IS2_Phenanthrene-d10	10.980	188	259274	4.000	ug/ml		0.00
Standard Area 3 = 265623			Recovery =	97.61%			
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.773	105	7553	0.558	ug/ml		93
29) Acetophenone	6.860	105	12899	0.553	ug/ml	#	94
30) m-Toluidine	6.957	106	8975	0.418	ug/ml		94
31) 2-Chloroaniline	7.363	127	11732	0.559	ug/ml		93
56) a-Terpineol	7.862	59	7257	0.507	ug/ml	#	83
57) 3-Chloroaniline	7.869	65	3967	0.546	ug/ml		89
58) 2,6-Dichlorophenol	7.898	162	6905	0.491	ug/ml		96
59) 1-chloro-2-nitrobenzene	8.171	111	2807	0.499	ug/ml	#	1
60) Caprolactam	8.214	55	3878	0.453	ug/ml	#	90
61) 1,2,4,5-Tetrachloroben...	8.701	216	11496	0.550	ug/ml	#	96
62) Biphenyl	9.000	154	25184	0.546	ug/ml		99
84) Dichloran	10.685	206	1753	2.212	ug/ml	#	66
85) Pentachloronitrobenzene	10.829	237	2032	0.464	ug/ml	#	76
99) Diphenamid	11.891	167	12423	0.464	ug/ml	#	79

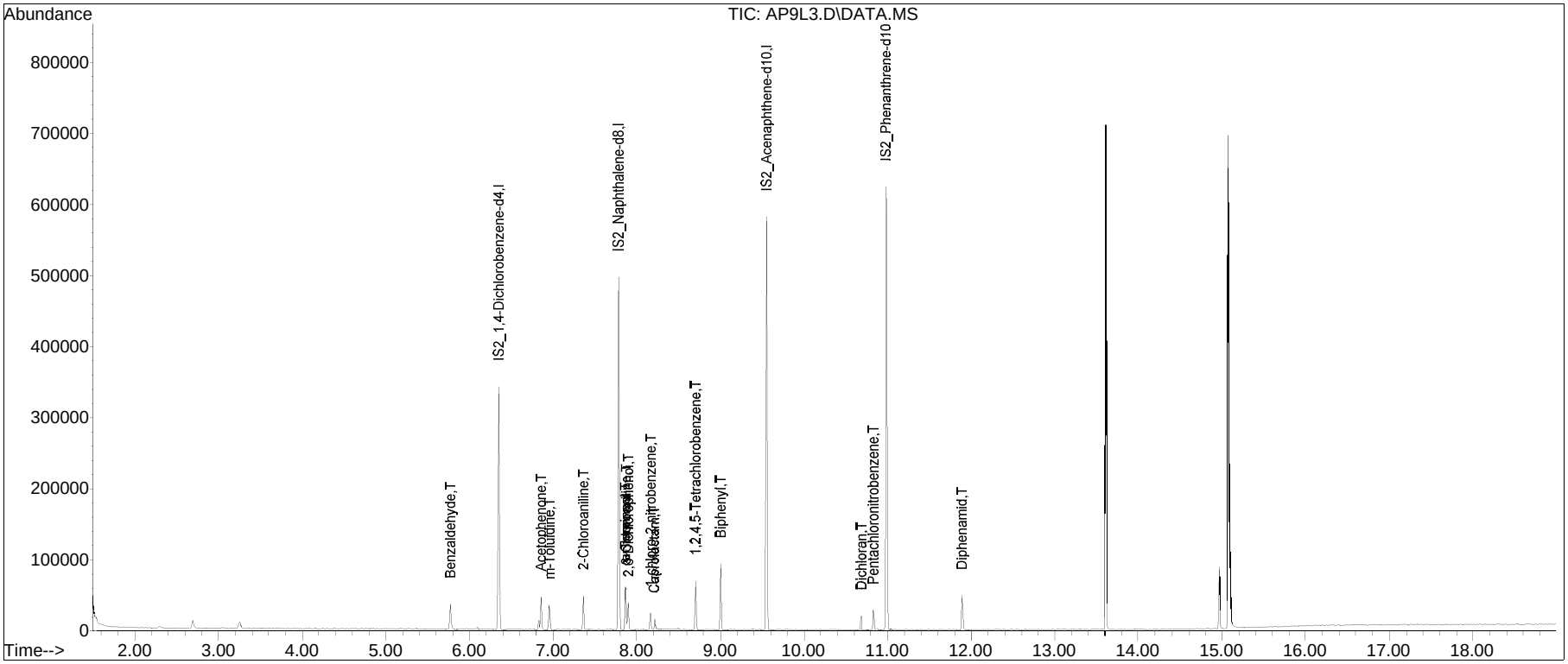
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : AP9L3.D
Acq On : 12 Mar 2025 1:49 am
Operator : SV106:ljg
Sample : IL8,32,,AP9L0.5 Lot# 11440
Misc : WG2039658,,ical
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Mar 12 11:29:29 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 10:34:57 2025
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\250311RVTica	QMethod	: FS250311SV106.m
Data File	: AP9L3.D	Operator	: SV106:ljg
Date Inj'd	: 3/12/2025 1:49 am	Instrument	: SV 106
Sample	: IL8,32,,AP9L0.5 Lot# 11440	Quant Date	: 3/12/2025 11:30 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : AP9L2.D
Acq On : 12 Mar 2025 2:12 am
Operator : SV106:ljg
Sample : IL9,32,,AP9L0.2 Lot# 11441
Misc : WG2039658,,ical
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Mar 12 11:29:21 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 10:34:57 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.351	152	60708	4.000	ug/ml	0.00
Standard Area 3 = 56555			Recovery =	107.34%		
55) IS2_Naphthalene-d8	7.783	136	216867	4.000	ug/ml	# 0.00
Standard Area 3 = 212446			Recovery =	102.08%		
83) IS2_Acenaphthene-d10	9.550	164	134033	4.000	ug/ml	0.00
Standard Area 3 = 130976			Recovery =	102.33%		
98) IS2_Phenanthrene-d10	10.988	188	266278	4.000	ug/ml	# 0.00
Standard Area 3 = 265623			Recovery =	100.25%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.773	105	2850	0.197	ug/ml	90
29) Acetophenone	6.860	105	4013M6	0.161	ug/ml	
30) m-Toluidine	6.965	106	1216	0.053	ug/ml#	90
31) 2-Chloroaniline	7.363	127	3801	0.169	ug/ml#	89
56) a-Terpineol	7.862	59	2392	0.161	ug/ml#	78
57) 3-Chloroaniline	7.876	65	1245	0.165	ug/ml	93
58) 2,6-Dichlorophenol	7.898	162	2563	0.175	ug/ml	99
59) 1-chloro-2-nitrobenzene	8.171	111	1002	0.171	ug/ml#	1
60) Caprolactam	8.222	55	1693	0.190	ug/ml#	76
61) 1,2,4,5-Tetrachloroben...	8.701	216	3878	0.178	ug/ml	96
62) Biphenyl	9.000	154	9139	0.190	ug/ml	99
84) Dichloran	10.685	206	503	1.967	ug/ml#	26
85) Pentachloronitrobenzene	10.836	237	539	0.112	ug/ml#	27
99) Diphenamid	11.900	167	4470	0.163	ug/ml#	69

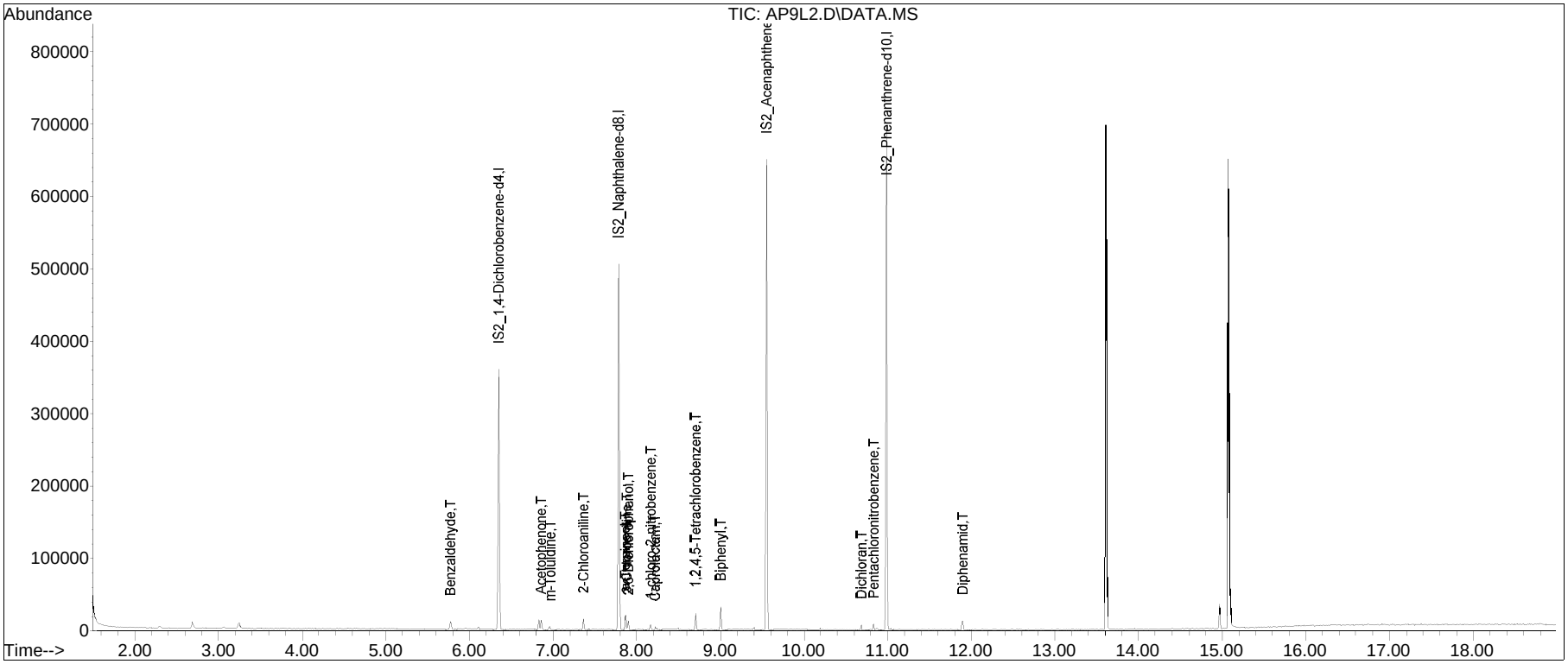
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : AP9L2.D
Acq On : 12 Mar 2025 2:12 am
Operator : SV106:ljg
Sample : IL9,32,,AP9L0.2 Lot# 11441
Misc : WG2039658,,ical
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Mar 12 11:29:21 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 10:34:57 2025
Response via : Initial Calibration

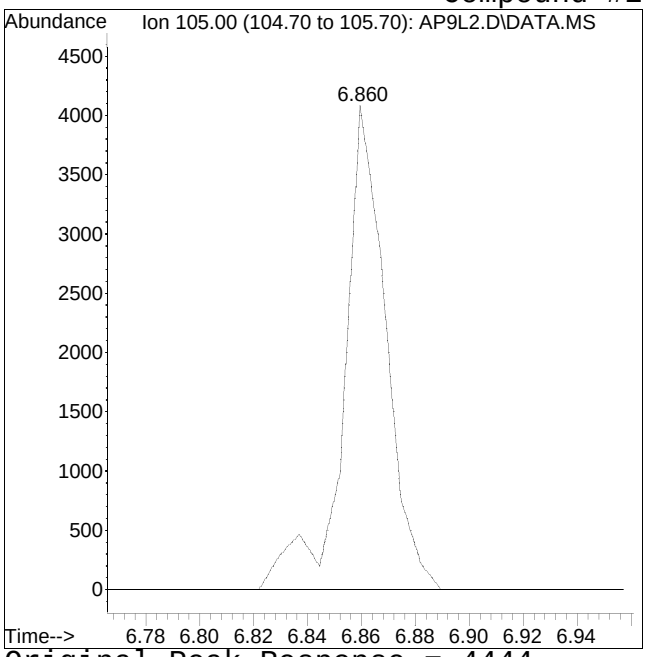
Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



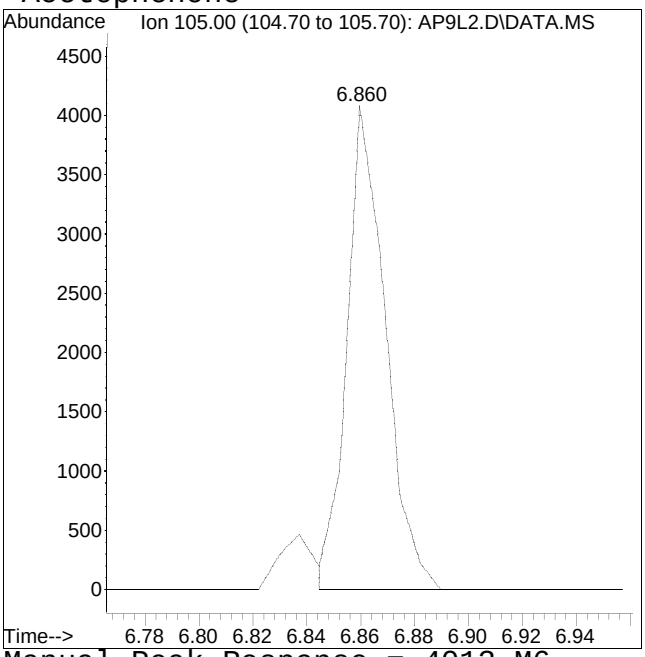
Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : AP9L2.D Operator : SV106:ljg
Date Inj'd : 3/12/2025 2:12 am Instrument : SV 106
Sample : IL9,32,,AP9L0.2 Lot# 11441Quant Date : 3/12/2025 11:30 am

Compound #29: Acetophenone



Original Peak Response = 4444



Manual Peak Response = 4013 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : AP9L1.D
Acq On : 12 Mar 2025 2:36 am
Operator : SV106:ljg
Sample : IL10,32,,AP9L0.1 Lot# 11442
Misc : WG2039658,,ical
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Mar 12 11:29:12 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 10:34:57 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.351	152	52482	4.000	ug/ml		0.00
Standard Area 3 = 56555			Recovery = 92.80%				
55) IS2_Naphthalene-d8	7.782	136	190067	4.000	ug/ml	#	0.00
Standard Area 3 = 212446			Recovery = 89.47%				
83) IS2_Acenaphthene-d10	9.550	164	112695	4.000	ug/ml		0.00
Standard Area 3 = 130976			Recovery = 86.04%				
98) IS2_Phenanthrene-d10	10.988	188	224443	4.000	ug/ml		0.00
Standard Area 3 = 265623			Recovery = 84.50%				
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.781	105	1072	0.086	ug/ml		96
29) Acetophenone	6.867	105	2170	0.101	ug/ml	#	76
30) m-Toluidine	0.000		0	N.D.			
31) 2-Chloroaniline	7.363	127	1766	0.091	ug/ml		96
56) a-Terpineol	7.862	59	1349	0.103	ug/ml	#	86
57) 3-Chloroaniline	7.876	65	583	0.088	ug/ml		94
58) 2,6-Dichlorophenol	7.898	162	1347	0.105	ug/ml	#	75
59) 1-chloro-2-nitrobenzene	8.171	111	451M2	0.088	ug/ml		
60) Caprolactam	8.236	55	931M1	0.119	ug/ml		
61) 1,2,4,5-Tetrachloroben...	8.701	216	2187	0.115	ug/ml	#	80
62) Biphenyl	9.000	154	4754	0.113	ug/ml		94
84) Dichloran	10.685	206	314M2	1.945	ug/ml		
85) Pentachloronitrobenzene	10.829	237	383M2	0.094	ug/ml		
99) Diphenamid	11.891	167	2156	0.093	ug/ml	#	81

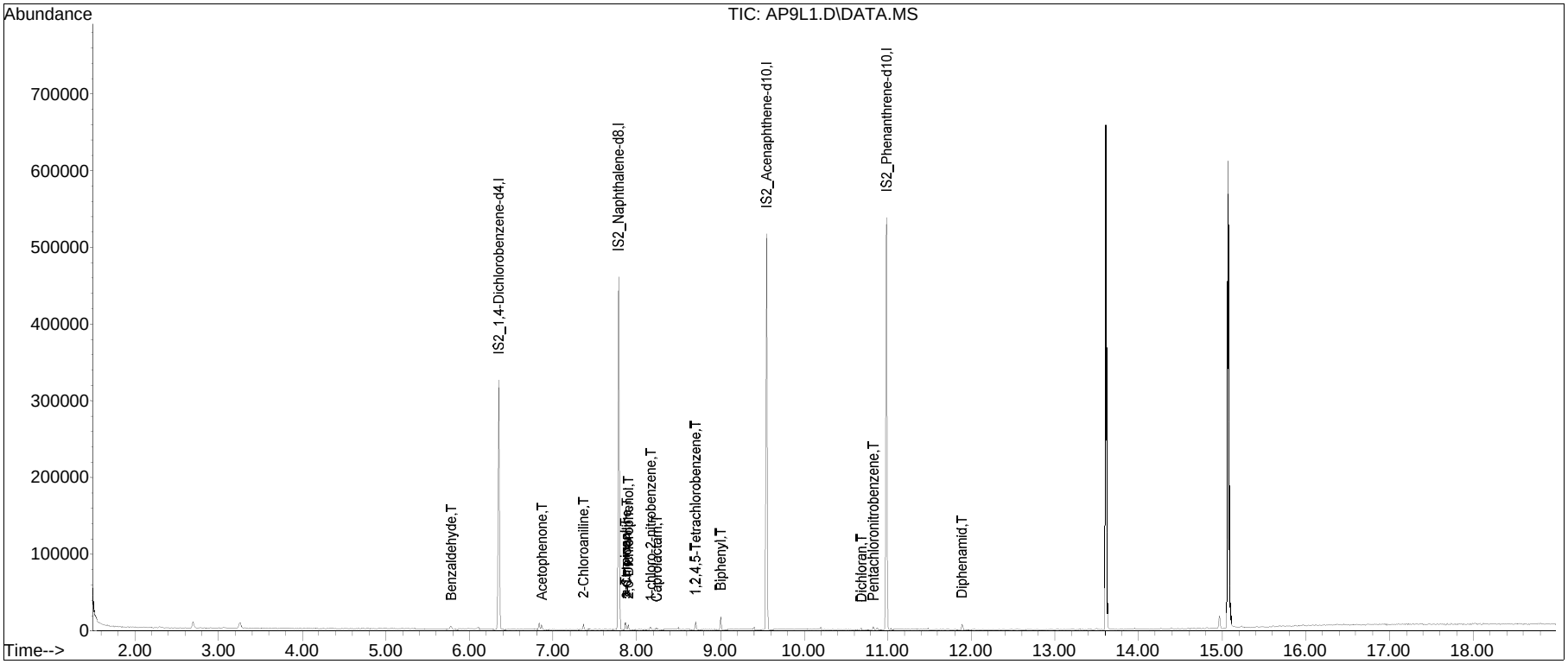
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : AP9L1.D
Acq On : 12 Mar 2025 2:36 am
Operator : SV106:ljg
Sample : IL10,32,,AP9L0.1 Lot# 11442
Misc : WG2039658,,ical
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Mar 12 11:29:12 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 10:34:57 2025
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•

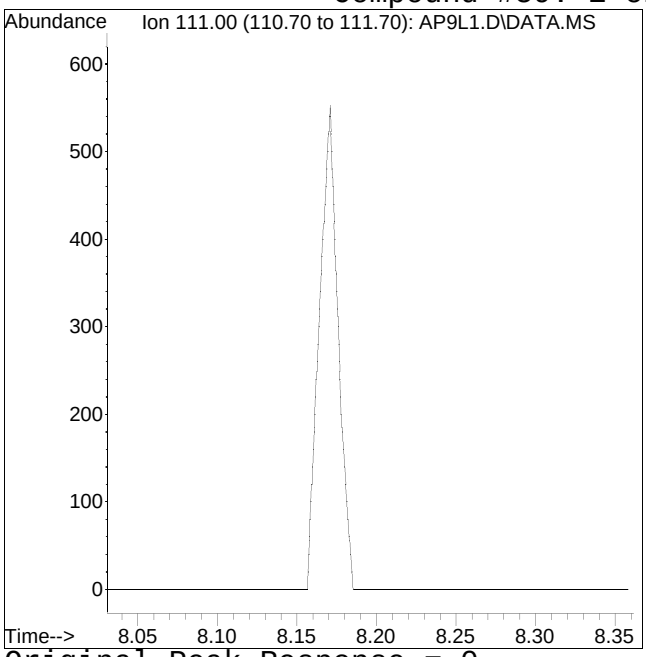


FS250311SV106.m Wed Mar 12 12:45:37 2025 Page: 2

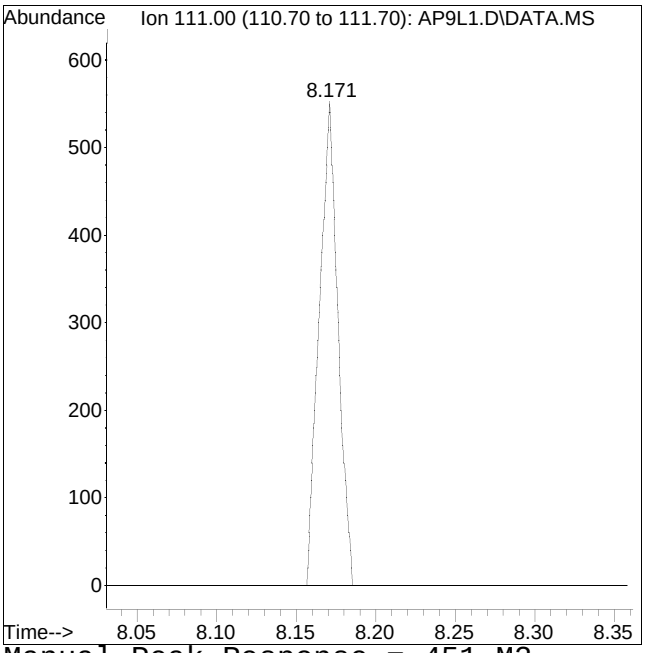
Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : AP9L1.D Operator : SV106:ljg
Date Inj'd : 3/12/2025 2:36 am Instrument : SV 106
Sample : IL10,32,,AP9L0.1 Lot# 1144Quant Date : 3/12/2025 11:30 am

Compound #59: 1-chloro-2-nitrobenzene



Original Peak Response = 0



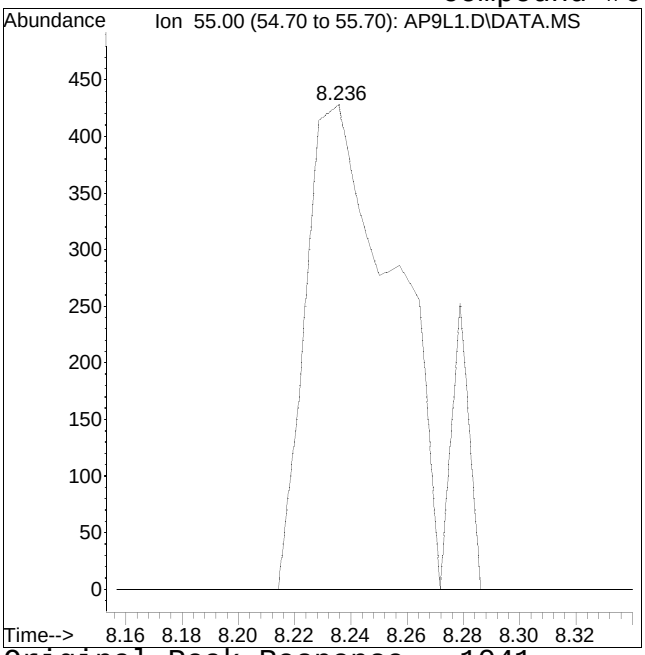
Manual Peak Response = 451 M2

M2 = Peak not found by automatic integration algorithm.

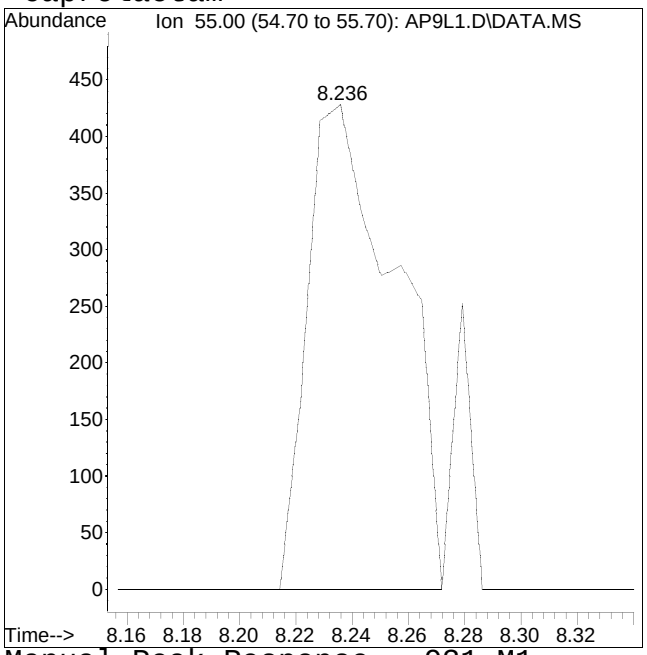
Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : AP9L1.D Operator : SV106:ljg
Date Inj'd : 3/12/2025 2:36 am Instrument : SV 106
Sample : IL10,32,,AP9L0.1 Lot# 1144Quant Date : 3/12/2025 11:30 am

Compound #60: Caprolactam



Original Peak Response = 1041



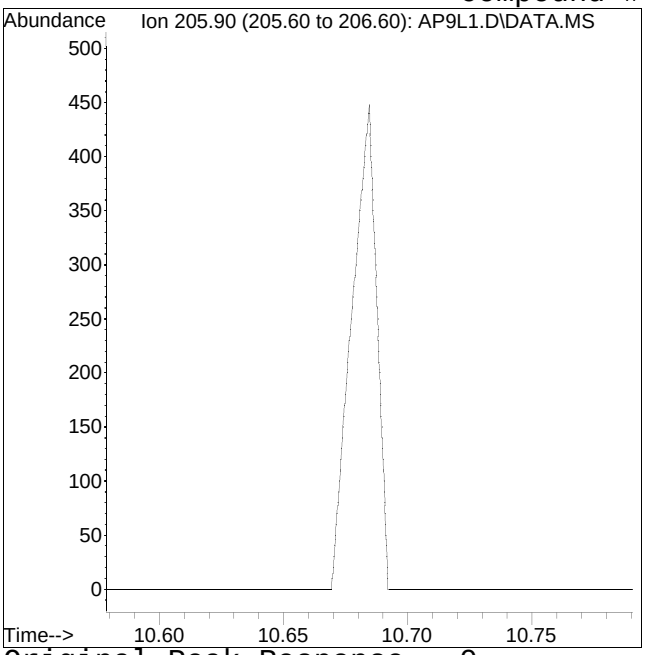
Manual Peak Response = 931 M1

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

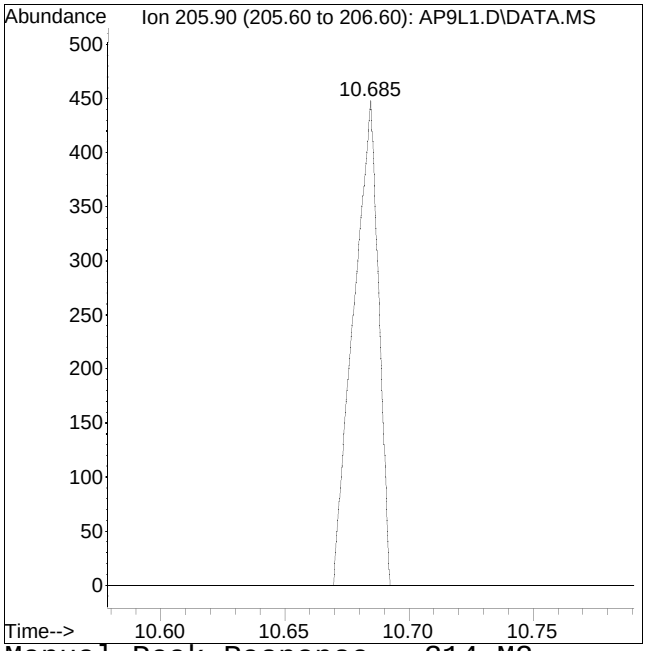
Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : AP9L1.D Operator : SV106:ljg
Date Inj'd : 3/12/2025 2:36 am Instrument : SV 106
Sample : IL10,32,,AP9L0.1 Lot# 1144Quant Date : 3/12/2025 11:30 am

Compound #84: Dichloran



Original Peak Response = 0



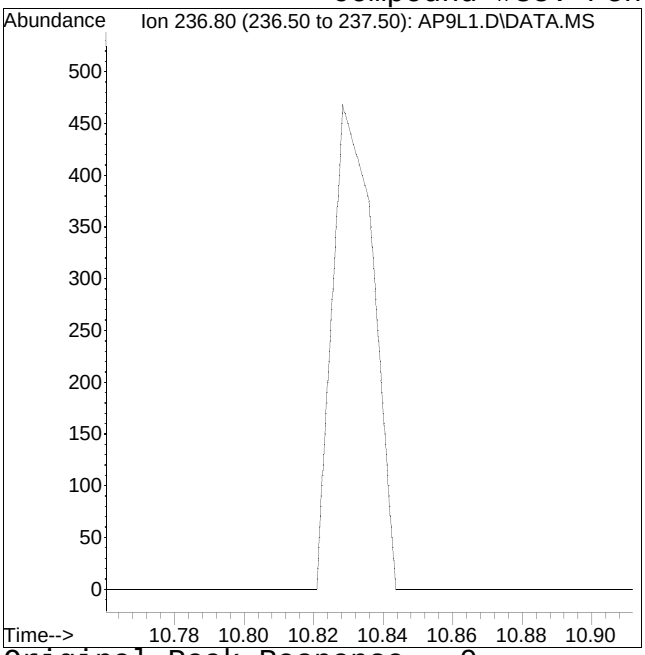
Manual Peak Response = 314 M2

M2 = Peak not found by automatic integration algorithm.

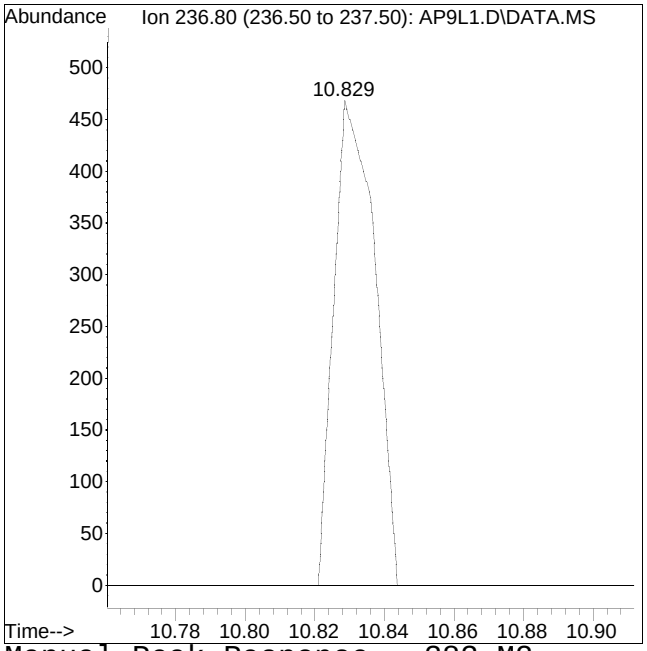
Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : AP9L1.D Operator : SV106:ljg
Date Inj'd : 3/12/2025 2:36 am Instrument : SV 106
Sample : IL10,32,,AP9L0.1 Lot# 1144Quant Date : 3/12/2025 11:30 am

Compound #85: Pentachloronitrobenzene



Original Peak Response = 0



Manual Peak Response = 383 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ADPL9.D
Acq On : 12 Mar 2025 2:59 am
Operator : SV106:ljg
Sample : IL2,32,,ADPL50 Lot# 11443
Misc : WG2039658,,ical
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Mar 12 10:29:50 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 10:30:49 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
	Internal Standards						
32)	IS3_1,4-Dichlorobenzen...	6.351	152	50622	4.000	ug/ml	0.00
	Standard Area 2 = 58261			Recovery = 86.89%			
86)	IS3_Acenaphthene-d10	9.550	164	114457	4.000	ug/ml	0.00
	Standard Area 2 = 127382			Recovery = 89.85%			
100)	IS3_Phenanthrene-d10	10.987	188	242176	4.000	ug/ml	0.00
	Standard Area 2 = 266366			Recovery = 90.92%			
	System Monitoring Compounds						
	Target Compounds						Qvalue
33)	1,4-Dioxane	1.731	88	316110	45.588	ug/ml#	61
34)	n-Decane	6.249	57	1088035	50.582	ug/ml#	38
87)	Atrazine	10.768	200	629720	60.211	ug/ml	96
101)	n-Octadecane	10.972	57	1571811	56.690	ug/ml#	1
102)	Parathion	11.778	109	293925	62.492	ug/ml	96
103)	3,3'-Dimethylbenzidine	13.054	212	2935321	74.963	ug/ml	98

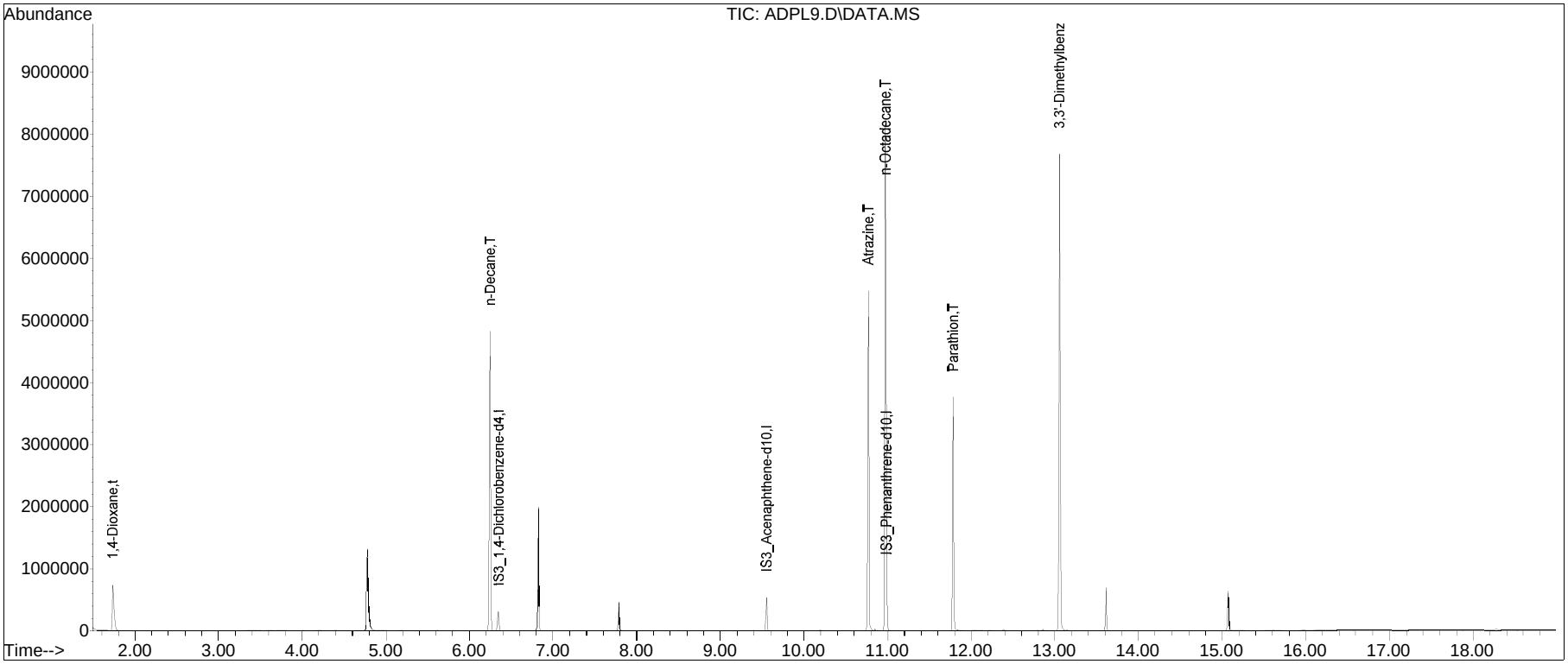
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ADPL9.D
Acq On : 12 Mar 2025 2:59 am
Operator : SV106:ljg
Sample : IL2,32,,ADPL50 Lot# 11443
Misc : WG2039658,,ical
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Mar 12 10:29:50 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 10:30:49 2025
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\250311RVTica	QMethod	: FS250311SV106.m
Data File	: ADPL9.D	Operator	: SV106:ljg
Date Inj'd	: 3/12/2025 2:59 am	Instrument	: SV 106
Sample	: IL2,32,,ADPL50 Lot# 11443	Quant Date	: 3/12/2025 10:30 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ADPL8.D
Acq On : 12 Mar 2025 3:23 am
Operator : SV106:ljg
Sample : IL3,32,,ADPL25 Lot# 11444
Misc : WG2039658,,ical
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Mar 12 10:29:39 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 10:30:38 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
	Internal Standards						
32)	IS3_1,4-Dichlorobenzen...	6.351	152	56242	4.000	ug/ml	0.00
	Standard Area 2 = 58261			Recovery = 96.53%			
86)	IS3_Acenaphthene-d10	9.550	164	118052	4.000	ug/ml	0.00
	Standard Area 2 = 127382			Recovery = 92.68%			
100)	IS3_Phenanthrene-d10	10.980	188	255155	4.000	ug/ml	0.00
	Standard Area 2 = 266366			Recovery = 95.79%			
	System Monitoring Compounds						
	Target Compounds						Qvalue
33)	1,4-Dioxane	1.746	88	192355	24.969	ug/ml#	60
34)	n-Decane	6.249	57	667856	27.946	ug/ml#	37
87)	Atrazine	10.768	200	381049	35.325	ug/ml	97
101)	n-Octadecane	10.972	57	962959	32.964	ug/ml#	1
102)	Parathion	11.778	109	169910	34.353	ug/ml	93
103)	3,3'-Dimethylbenzidine	13.054	212	1691698	41.005	ug/ml	98

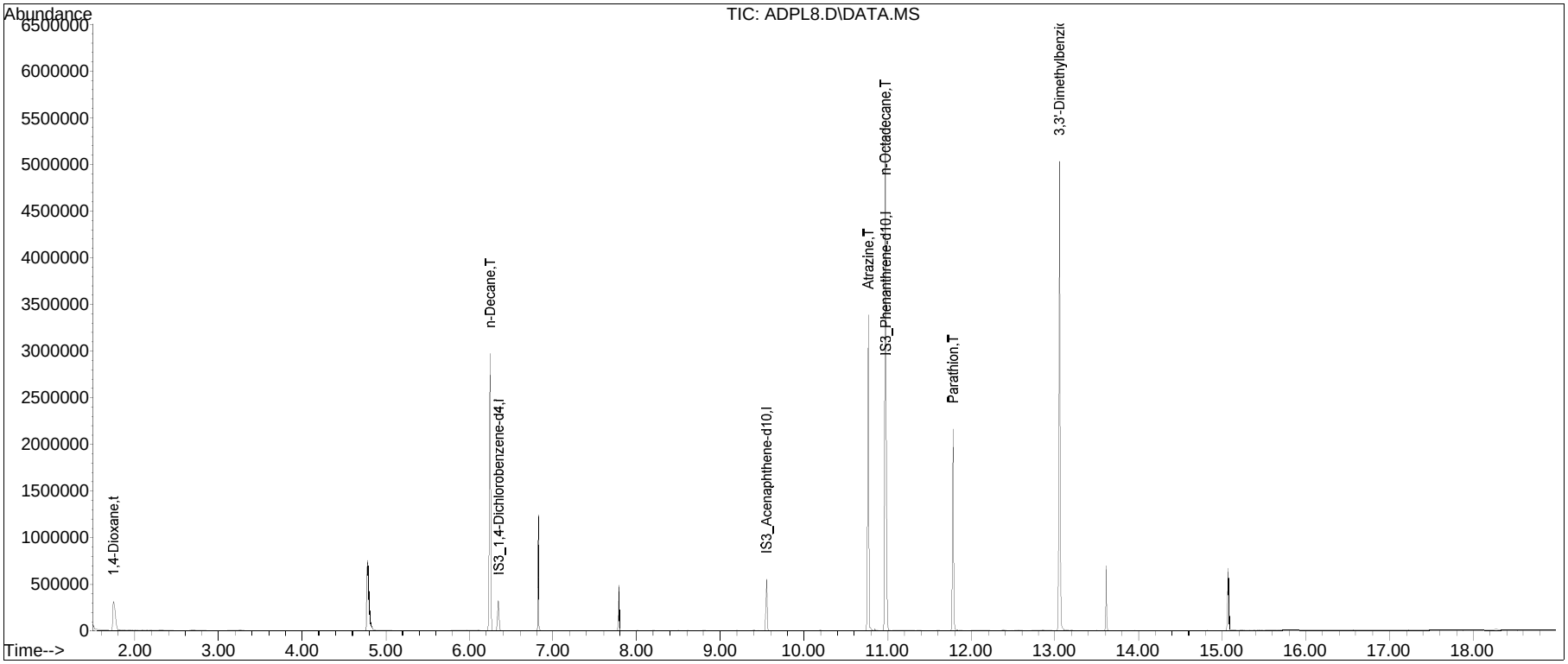
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ADPL8.D
Acq On : 12 Mar 2025 3:23 am
Operator : SV106:ljg
Sample : IL3,32,,ADPL25 Lot# 11444
Misc : WG2039658,,ical
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Mar 12 10:29:39 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 10:30:38 2025
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\AP9L6.D•



FS250311SV106.m Wed Mar 12 12:45:31 2025 Page: 2

Manual Integration Report

Data Path	: I:\8270\SV106\250311RVTica	QMethod	: FS250311SV106.m
Data File	: ADPL8.D	Operator	: SV106:ljg
Date Inj'd	: 3/12/2025 3:23 am	Instrument	: SV 106
Sample	: IL3,32,,ADPL25 Lot# 11444	Quant Date	: 3/12/2025 10:30 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ADPL7.D
Acq On : 12 Mar 2025 3:46 am
Operator : SV106:ljg
Sample : IL4,32,,ADPL10 Lot# 11445
Misc : WG2039658,,ical
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Mar 12 10:29:29 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 10:30:28 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.351	152	56194	4.000	ug/ml	0.00
Standard Area 2 = 58261			Recovery = 96.45%			
86) IS3_Acenaphthene-d10	9.550	164	123752	4.000	ug/ml	0.00
Standard Area 2 = 127382			Recovery = 97.15%			
100) IS3_Phenanthrene-d10	10.988	188	262736	4.000	ug/ml	0.00
Standard Area 2 = 266366			Recovery = 98.64%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.746	88	66044	8.580	ug/ml#	61
34) n-Decane	6.249	57	228529	9.571	ug/ml#	37
87) Atrazine	10.768	200	118980	10.522	ug/ml	96
101) n-Octadecane	10.973	57	314688	10.462	ug/ml#	1
102) Parathion	11.779	109	44659	8.877	ug/ml#	95
103) 3,3'-Dimethylbenzidine	13.054	212	501782	11.812	ug/ml	99

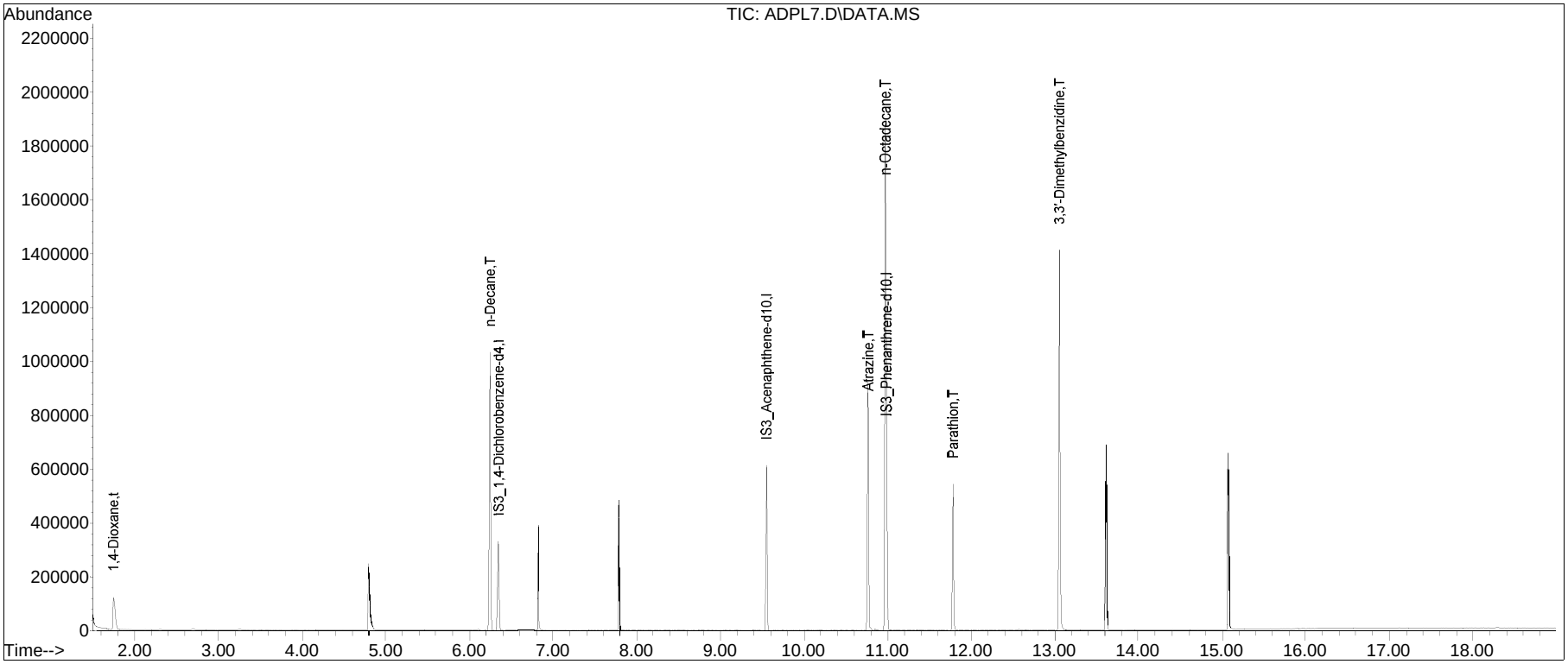
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ADPL7.D
Acq On : 12 Mar 2025 3:46 am
Operator : SV106:ljg
Sample : IL4,32,,ADPL10 Lot# 11445
Misc : WG2039658,,ical
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Mar 12 10:29:29 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 10:30:28 2025
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\250311RVTica	QMethod	: FS250311SV106.m
Data File	: ADPL7.D	Operator	: SV106:ljg
Date Inj'd	: 3/12/2025 3:46 am	Instrument	: SV 106
Sample	: IL4,32,,ADPL10 Lot# 11445	Quant Date	: 3/12/2025 10:30 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ADPL6.D
Acq On : 12 Mar 2025 4:09 am
Operator : SV106:ljg
Sample : IL5,32,,ADPL5 Lot# 11446
Misc : WG2039658,,ical
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Mar 12 10:29:19 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 10:30:16 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
32) IS3_1,4-Dichlorobenzen...	6.351	152	58261	4.000	ug/ml		0.00
Standard Area 2 = 58261			Recovery = 100.00%				
86) IS3_Acenaphthene-d10	9.550	164	127382	4.000	ug/ml		0.00
Standard Area 2 = 127382			Recovery = 100.00%				
100) IS3_Phenanthrene-d10	10.988	188	266366	4.000	ug/ml	#	0.00
Standard Area 2 = 266366			Recovery = 100.00%				
System Monitoring Compounds							
Target Compounds							Qvalue
33) 1,4-Dioxane	1.753	88	33982	4.258	ug/ml	#	61
34) n-Decane	6.249	57	114296	4.617	ug/ml	#	36
87) Atrazine	10.760	200	53357	4.584	ug/ml		97
101) n-Octadecane	10.973	57	146808	4.814	ug/ml	#	1
102) Parathion	11.778	109	19034	3.816	ug/ml	#	94
103) 3,3'-Dimethylbenzidine	13.054	212	198733	4.614	ug/ml		99

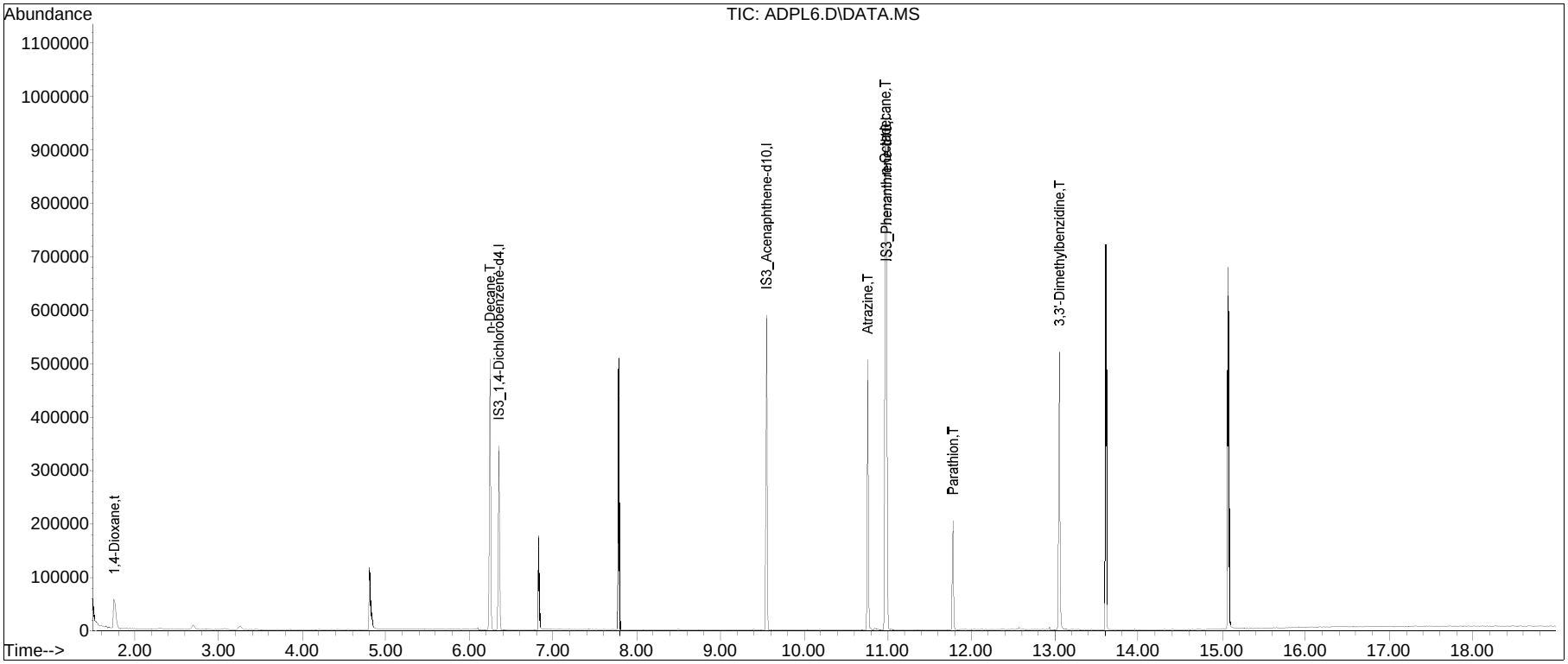
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ADPL6.D
Acq On : 12 Mar 2025 4:09 am
Operator : SV106:ljg
Sample : IL5,32,,ADPL5 Lot# 11446
Misc : WG2039658,,ical
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Mar 12 10:29:19 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 10:30:16 2025
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\250311RVTica	QMethod	: FS250311SV106.m
Data File	: ADPL6.D	Operator	: SV106:ljg
Date Inj'd	: 3/12/2025 4:09 am	Instrument	: SV 106
Sample	: IL5,32,,ADPL5 Lot# 11446	Quant Date	: 3/12/2025 10:30 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ADPL5.D
Acq On : 12 Mar 2025 4:33 am
Operator : SV106:ljg
Sample : IL6,32,,ADPL2.5 Lot# 11447
Misc : WG2039658,,ical
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Mar 12 10:29:06 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 10:30:06 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.351	152	55405	4.000	ug/ml	0.00
Standard Area 2 = 58261			Recovery = 95.10%			
86) IS3_Acenaphthene-d10	9.550	164	119346	4.000	ug/ml	0.00
Standard Area 2 = 127382			Recovery = 93.69%			
100) IS3_Phenanthrene-d10	10.980	188	253725	4.000	ug/ml	0.00
Standard Area 2 = 266366			Recovery = 95.25%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.753	88	16182	2.132	ug/ml#	64
34) n-Decane	6.249	57	50558	2.147	ug/ml#	35
87) Atrazine	10.760	200	22752	2.086	ug/ml	95
101) n-Octadecane	10.973	57	59761	2.057	ug/ml#	1
102) Parathion	11.778	109	8047	1.774	ug/ml#	92
103) 3,3'-Dimethylbenzidine	13.054	212	77092	1.879	ug/ml	98

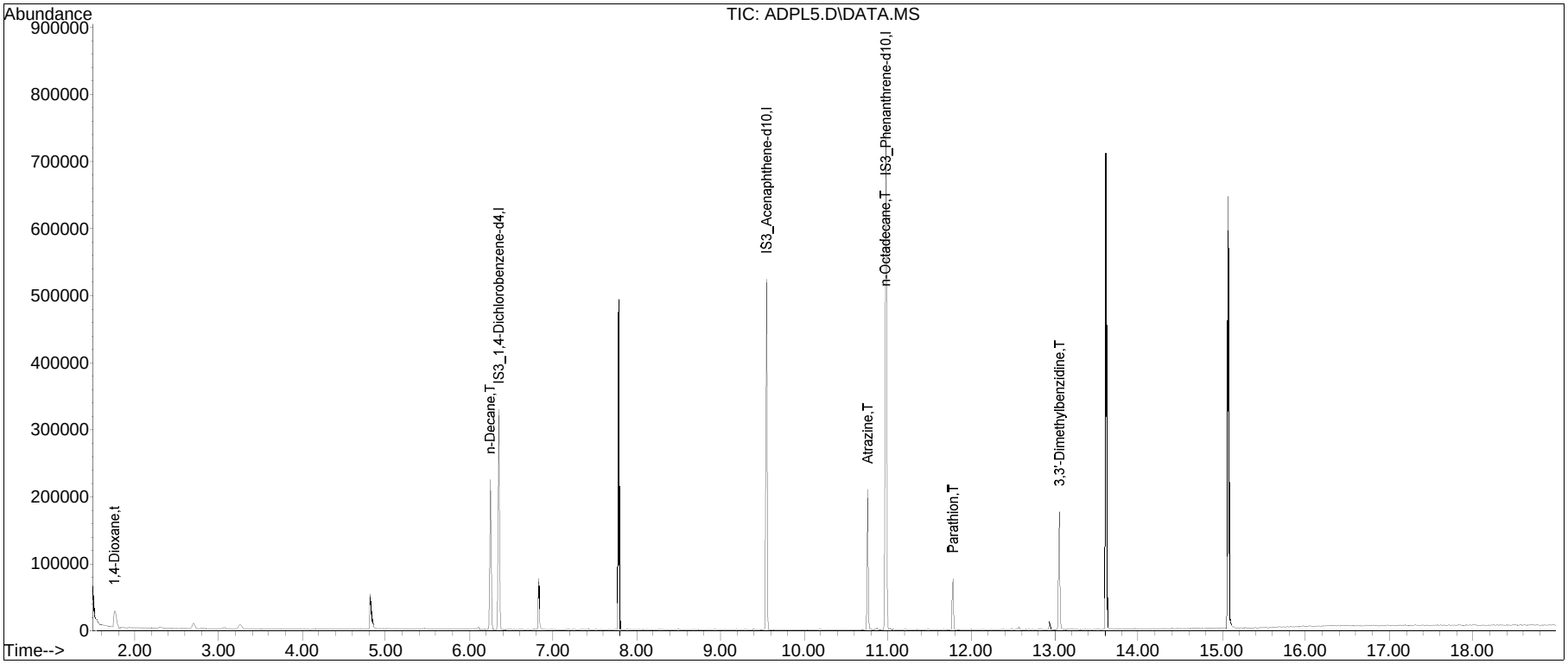
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ADPL5.D
Acq On : 12 Mar 2025 4:33 am
Operator : SV106:ljg
Sample : IL6,32,,ADPL2.5 Lot# 11447
Misc : WG2039658,,ical
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Mar 12 10:29:06 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 10:30:06 2025
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\250311RVTica	QMethod	: FS250311SV106.m
Data File	: ADPL5.D	Operator	: SV106:ljg
Date Inj'd	: 3/12/2025 4:33 am	Instrument	: SV 106
Sample	: IL6,32,,ADPL2.5 Lot# 11447	Quant Date	: 3/12/2025 10:30 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ADPL4.D
Acq On : 12 Mar 2025 4:56 am
Operator : SV106:ljg
Sample : IL7,32,,ADPL1 Lot# 11448
Misc : WG2039658,,ical
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Mar 12 10:28:57 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 10:29:57 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.351	152	57291	4.000	ug/ml	0.00
Standard Area 2 = 58261			Recovery = 98.34%			
86) IS3_Acenaphthene-d10	9.550	164	122156	4.000	ug/ml	0.00
Standard Area 2 = 127382			Recovery = 95.90%			
100) IS3_Phenanthrene-d10	10.988	188	250087	4.000	ug/ml	0.00
Standard Area 2 = 266366			Recovery = 93.89%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.767	88	7495	0.955	ug/ml#	60
34) n-Decane	6.249	57	25267	1.038	ug/ml#	37
87) Atrazine	10.760	200	9342	0.837	ug/ml	98
101) n-Octadecane	10.972	57	26430	0.923	ug/ml#	1
102) Parathion	11.778	109	3559	0.876	ug/ml	95
103) 3,3'-Dimethylbenzidine	13.054	212	21817	0.540	ug/ml	98

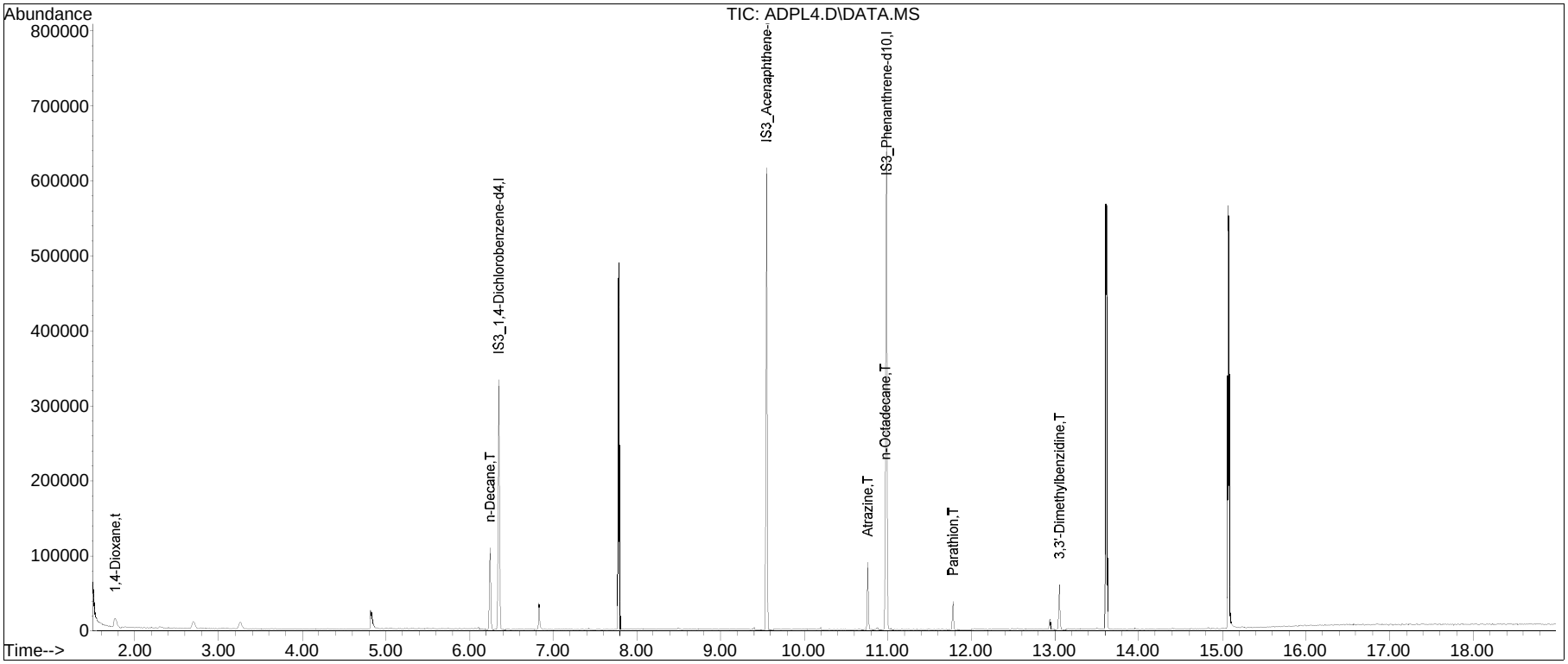
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ADPL4.D
Acq On : 12 Mar 2025 4:56 am
Operator : SV106:ljg
Sample : IL7,32,,ADPL1 Lot# 11448
Misc : WG2039658,,ical
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Mar 12 10:28:57 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 10:29:57 2025
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\250311RVTica	QMethod	: FS250311SV106.m
Data File	: ADPL4.D	Operator	: SV106:ljg
Date Inj'd	: 3/12/2025 4:56 am	Instrument	: SV 106
Sample	: IL7,32,,ADPL1 Lot# 11448	Quant Date	: 3/12/2025 10:29 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ADPL3.D
Acq On : 12 Mar 2025 5:20 am
Operator : SV106:ljg
Sample : IL8,32,,ADPL0.5 Lot# 11449
Misc : WG2039658,,ical
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Mar 12 10:28:24 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 10:29:24 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.351	152	53514	4.000	ug/ml	0.00
Standard Area 2 = 58261			Recovery = 91.85%			
86) IS3_Acenaphthene-d10	9.550	164	113473	4.000	ug/ml	0.00
Standard Area 2 = 127382			Recovery = 89.08%			
100) IS3_Phenanthrene-d10	10.987	188	235698	4.000	ug/ml	0.00
Standard Area 2 = 266366			Recovery = 88.49%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.753	88	4661	0.636	ug/ml#	69
34) n-Decane	6.249	57	12582	0.553	ug/ml#	36
87) Atrazine	10.760	200	4678	0.451	ug/ml	96
101) n-Octadecane	10.972	57	12842	0.476	ug/ml#	1
102) Parathion	11.778	109	1948	0.570	ug/ml#	83
103) 3,3'-Dimethylbenzidine	13.054	212	8865	0.233	ug/ml	99

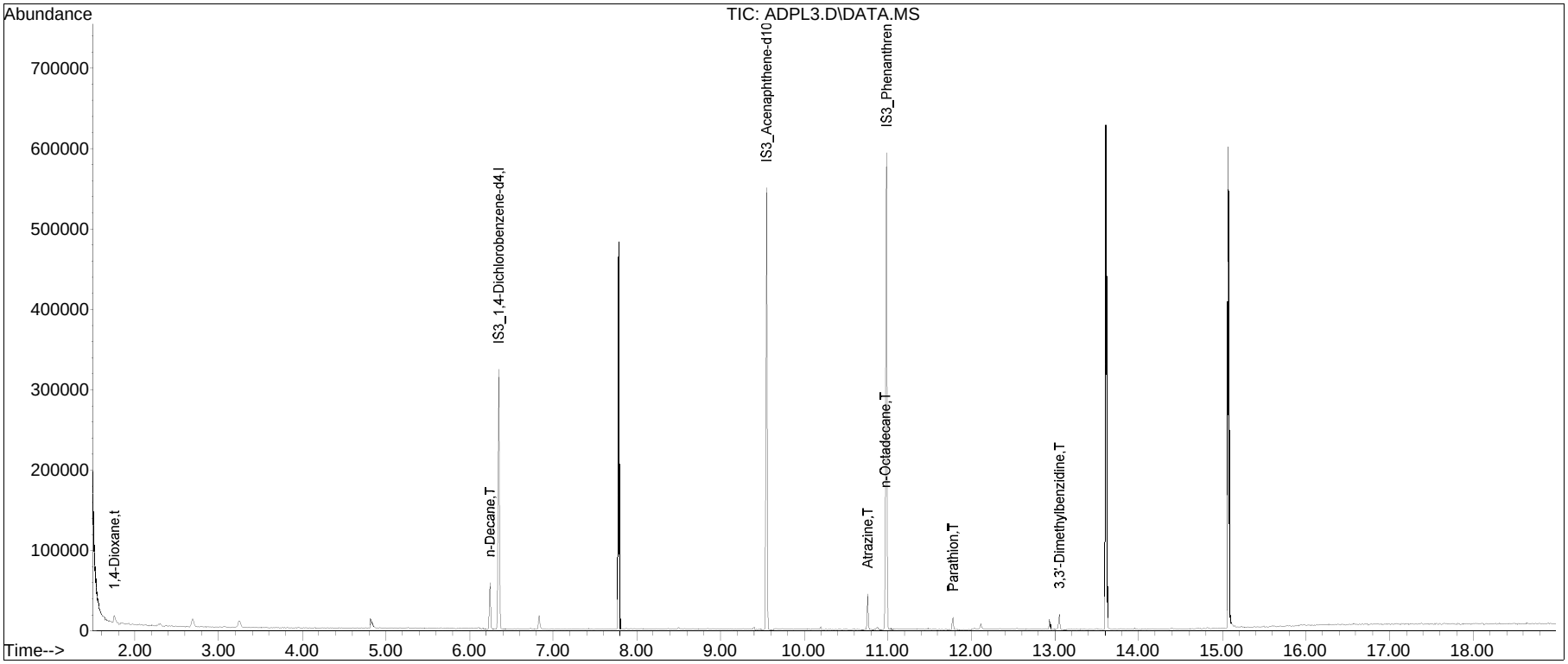
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ADPL3.D
Acq On : 12 Mar 2025 5:20 am
Operator : SV106:ljg
Sample : IL8,32,,ADPL0.5 Lot# 11449
Misc : WG2039658,,ical
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Mar 12 10:28:24 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 10:29:24 2025
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\250311RVTica	QMethod	: FS250311SV106.m
Data File	: ADPL3.D	Operator	: SV106:ljg
Date Inj'd	: 3/12/2025 5:20 am	Instrument	: SV 106
Sample	: IL8,32,,ADPL0.5 Lot# 11449	Quant Date	: 3/12/2025 10:29 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ADPL2.D
Acq On : 12 Mar 2025 5:43 am
Operator : SV106:ljg
Sample : IL9,32,,ADPL0.2 Lot# 11450
Misc : WG2039658,,ical
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Mar 12 10:27:35 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 10:28:34 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
	Internal Standards						
32)	IS3_1,4-Dichlorobenzen...	6.351	152	51722	4.000	ug/ml	0.00
	Standard Area 2 = 58261			Recovery = 88.78%			
86)	IS3_Acenaphthene-d10	9.550	164	105533	4.000	ug/ml	0.00
	Standard Area 2 = 127382			Recovery = 82.85%			
100)	IS3_Phenanthrene-d10	10.980	188	220396	4.000	ug/ml	0.00
	Standard Area 2 = 266366			Recovery = 82.74%			
	System Monitoring Compounds						
	Target Compounds						Qvalue
33)	1,4-Dioxane	1.753	88	1475	0.208	ug/ml#	80
34)	n-Decane	6.249	57	3961	0.180	ug/ml#	28
87)	Atrazine	10.761	200	1589	0.165	ug/ml#	70
101)	n-Octadecane	10.973	57	4168	0.165	ug/ml#	1
102)	Parathion	11.779	109	464M2	0.253	ug/ml	
103)	3,3'-Dimethylbenzidine	0.000		0	N.D.		

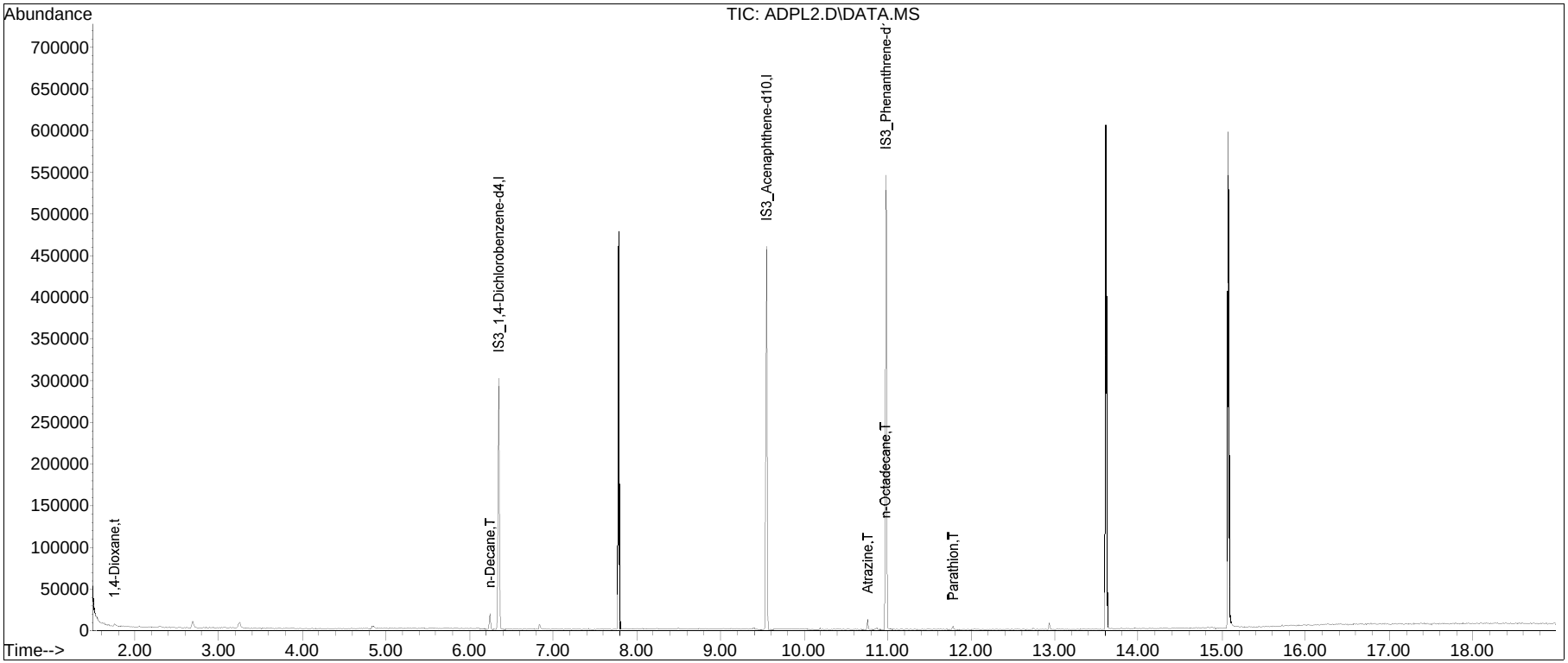
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ADPL2.D
Acq On : 12 Mar 2025 5:43 am
Operator : SV106:ljg
Sample : IL9,32,,ADPL0.2 Lot# 11450
Misc : WG2039658,,ical
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Mar 12 10:27:35 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 10:28:34 2025
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\AP9L6.D•

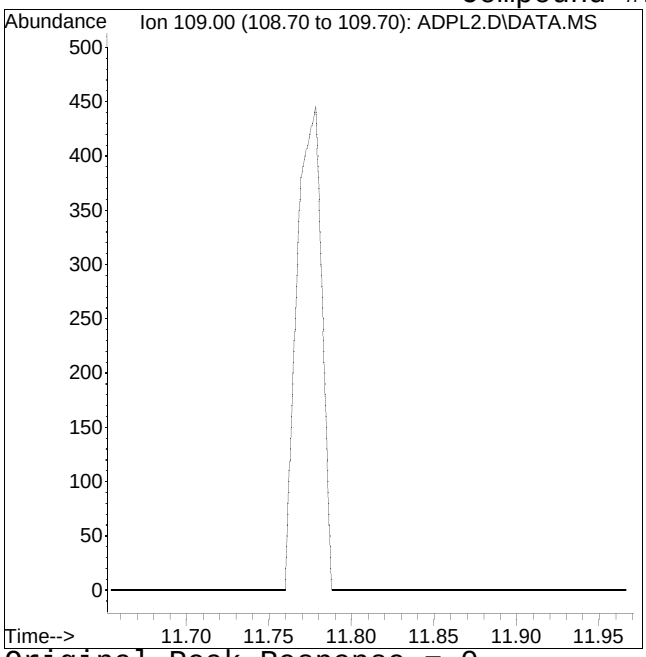


Manual Integration Report

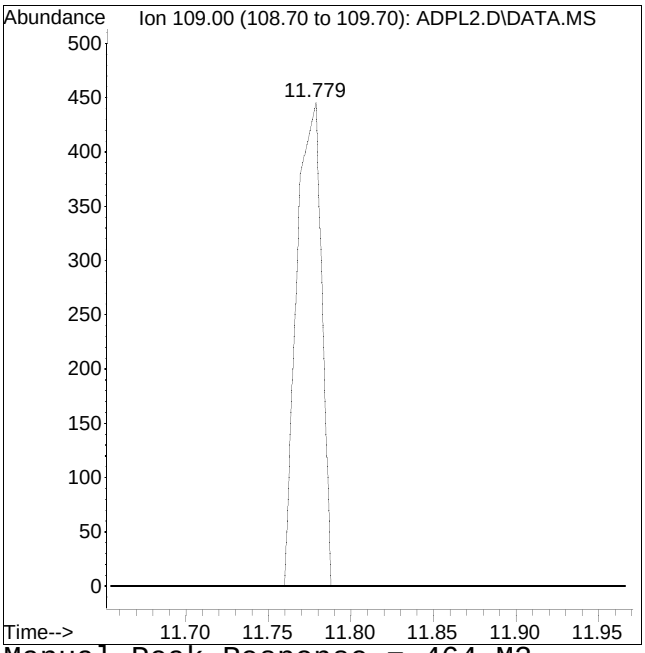
Data Path : I:\8270\SV106\250311RVTicaQ
Data File : ADPL2.D
Date Inj'd : 3/12/2025 5:43 am
Sample : IL9,32,,ADPL0.2 Lot# 11450

Method : FS250311SV106.m
Operator : SV106:ljg
Instrument : SV 106
Quant Date : 3/12/2025 10:28 am

Compound #102: Parathion



Original Peak Response = 0



Manual Peak Response = 464 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ADPL1.D
Acq On : 12 Mar 2025 6:06 am
Operator : SV106:ljg
Sample : IL10,32,,ADPL0.1 Lot# 11451
Misc : WG2039658,,ical
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Mar 12 10:27:08 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 10:28:07 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.351	152	53575	4.000	ug/ml	0.00
Standard Area 2 = 58261			Recovery = 91.96%			
86) IS3_Acenaphthene-d10	9.550	164	112878	4.000	ug/ml	0.00
Standard Area 2 = 127382			Recovery = 88.61%			
100) IS3_Phenanthrene-d10	10.988	188	227259	4.000	ug/ml	0.00
Standard Area 2 = 266366			Recovery = 85.32%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.753	88	924	0.126	ug/ml#	72
34) n-Decane	6.249	57	2471	0.109	ug/ml#	29
87) Atrazine	10.760	200	1048	0.102	ug/ml#	33
101) n-Octadecane	10.972	57	2641	0.102	ug/ml#	1
102) Parathion	11.778	109	346M2	0.223	ug/ml	
103) 3,3'-Dimethylbenzidine	0.000		0	N.D.		

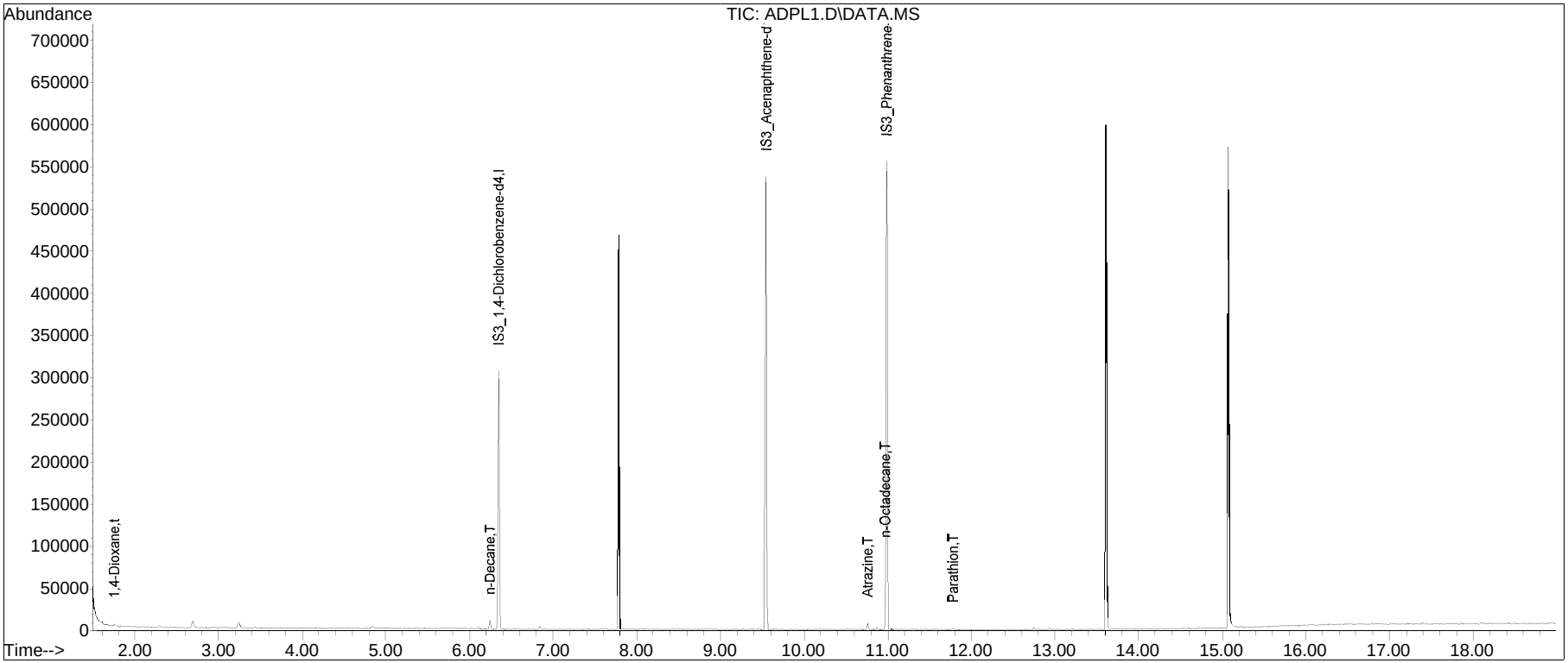
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ADPL1.D
Acq On : 12 Mar 2025 6:06 am
Operator : SV106:ljg
Sample : IL10,32,,ADPL0.1 Lot# 11451
Misc : WG2039658,,ical
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Mar 12 10:27:08 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 10:28:07 2025
Response via : Initial Calibration

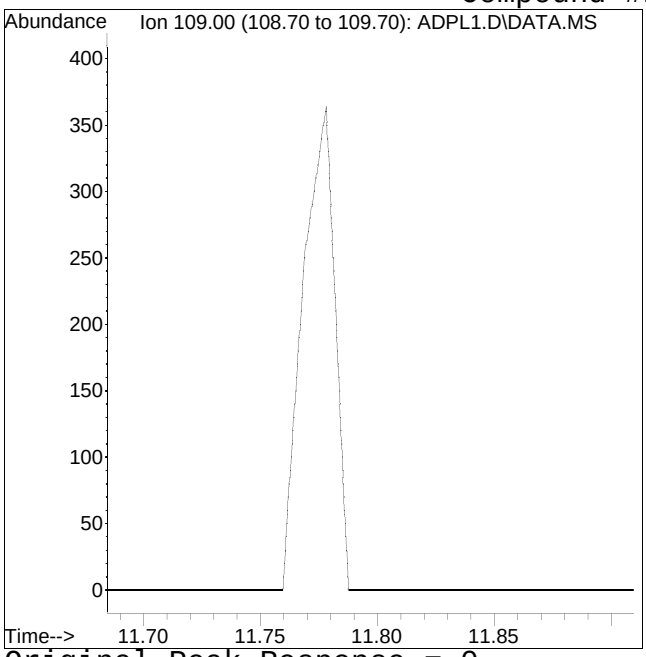
Sub List : ADPical_REV2 - ADP sublistTical\AP9L6.D•



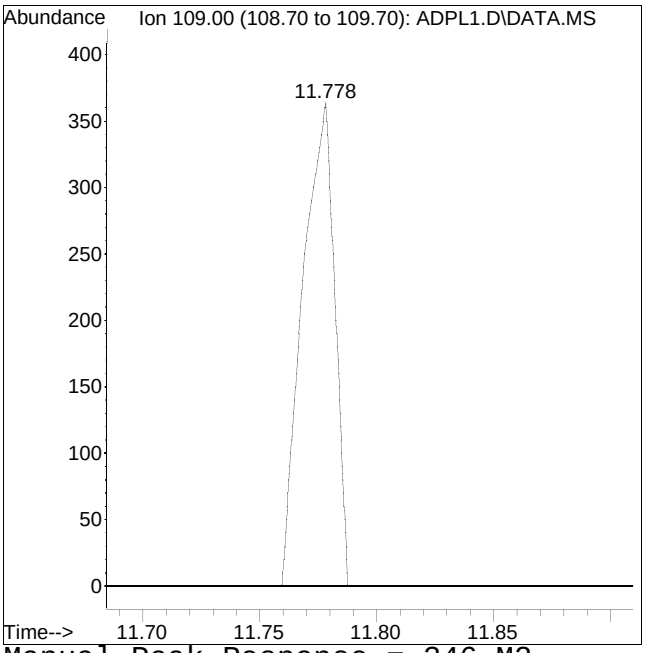
Manual Integration Report

Data Path : I:\8270\SV106\250311RVTicaQMethod : FS250311SV106.m
Data File : ADPL1.D Operator : SV106:ljg
Date Inj'd : 3/12/2025 6:06 am Instrument : SV 106
Sample : IL10,32,,ADPL0.1 Lot# 1145Quant Date : 3/12/2025 10:28 am

Compound #102: Parathion



Original Peak Response = 0



Manual Peak Response = 346 M2

M2 = Peak not found by automatic integration algorithm.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\250311RVTical\
Data File : AP9ICV.D
Acq On : 12 Mar 2025 6:30 am
Operator : SV106:ljg
Sample : CQICV2,32,,AP9ICV Lot# 11453
Misc : WG2039658,,ical
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Mar 12 12:20:59 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 12:21:58 2025
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	89	0.00
28	T	Benzaldehyde		0.954	1.172	-22.9#	110	0.00
29	T	Acetophenone		1.646	2.003	-21.7#	107	0.00
30	T	m-Toluidine		1.514	1.919	-26.8#	109	0.00
31	T	2-Chloroaniline		1.481	1.814	-22.5#	109	0.00
55	I	IS2_Naphthalene-d8		1.000	1.000	0.0	87	0.00
56	T	a-Terpineol		0.275	0.319	-16.0	102	0.00
57	T	3-Chloroaniline		0.139	0.177	-27.3#	110	0.00
58	T	2,6-Dichlorophenol		0.270	0.313	-15.9	103	0.00
59	T	1-chloro-2-nitrobenzene		0.108	0.123	-13.9	102	0.00
60	T	Caprolactam		0.165	0.173	-4.8	101	0.00
61	T	1,2,4,5-Tetrachlorobenzene		0.401	0.476	-18.7	108	0.00
62	T	Biphenyl		0.885	1.054	-19.1	108	0.00
83	I	IS2_Acenaphthene-d10		1.000	1.000	0.0	83	0.00
84	T	Dichloran	*	5.000	5.546	-10.9	99	0.00
85	T	Pentachloronitrobenzene		0.144	0.161	-11.8	102	0.00
98	I	IS2_Phenanthrene-d10		1.000	1.000	0.0	84	0.00
99	T	Diphenamid		0.413	0.528	-27.8#	104	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : AP9ICV.D
Acq On : 12 Mar 2025 6:30 am
Operator : SV106:ljg
Sample : CQICV2,32,,AP9ICV Lot# 11453
Misc : WG2039658,,ical
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Mar 12 12:20:59 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 12:21:58 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.351	152	50080	4.000	ug/ml	0.00
Standard Area 3 = 56555			Recovery = 88.55%			
55) IS2_Naphthalene-d8	7.783	136	184384	4.000	ug/ml	# 0.00
Standard Area 3 = 212446			Recovery = 86.79%			
83) IS2_Acenaphthene-d10	9.550	164	109241	4.000	ug/ml	0.00
Standard Area 3 = 130976			Recovery = 83.41%			
98) IS2_Phenanthrene-d10	10.988	188	223243	4.000	ug/ml	# 0.00
Standard Area 3 = 265623			Recovery = 84.05%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.765	105	73385	6.146	ug/ml	94
29) Acetophenone	6.852	105	125365	6.085	ug/ml#	88
30) m-Toluidine	6.957	106	120144	6.337	ug/ml	95
31) 2-Chloroaniline	7.363	127	113544	6.125	ug/ml#	94
56) a-Terpineol	7.862	59	73543	5.806	ug/ml#	86
57) 3-Chloroaniline	7.869	65	40890	6.361	ug/ml	89
58) 2,6-Dichlorophenol	7.898	162	72072	5.790	ug/ml#	87
59) 1-chloro-2-nitrobenzene	8.164	111	28322	5.690	ug/ml#	1
60) Caprolactam	8.207	55	39903	5.259	ug/ml#	88
61) 1,2,4,5-Tetrachloroben...	8.701	216	109727	5.929	ug/ml	98
62) Biphenyl	9.001	154	242983	5.954	ug/ml	98
84) Dichloran	10.685	206	17393	5.546	ug/ml#	74
85) Pentachloronitrobenzene	10.836	237	22043	5.610	ug/ml#	79
99) Diphenamid	11.901	167	147216	6.390	ug/ml#	79

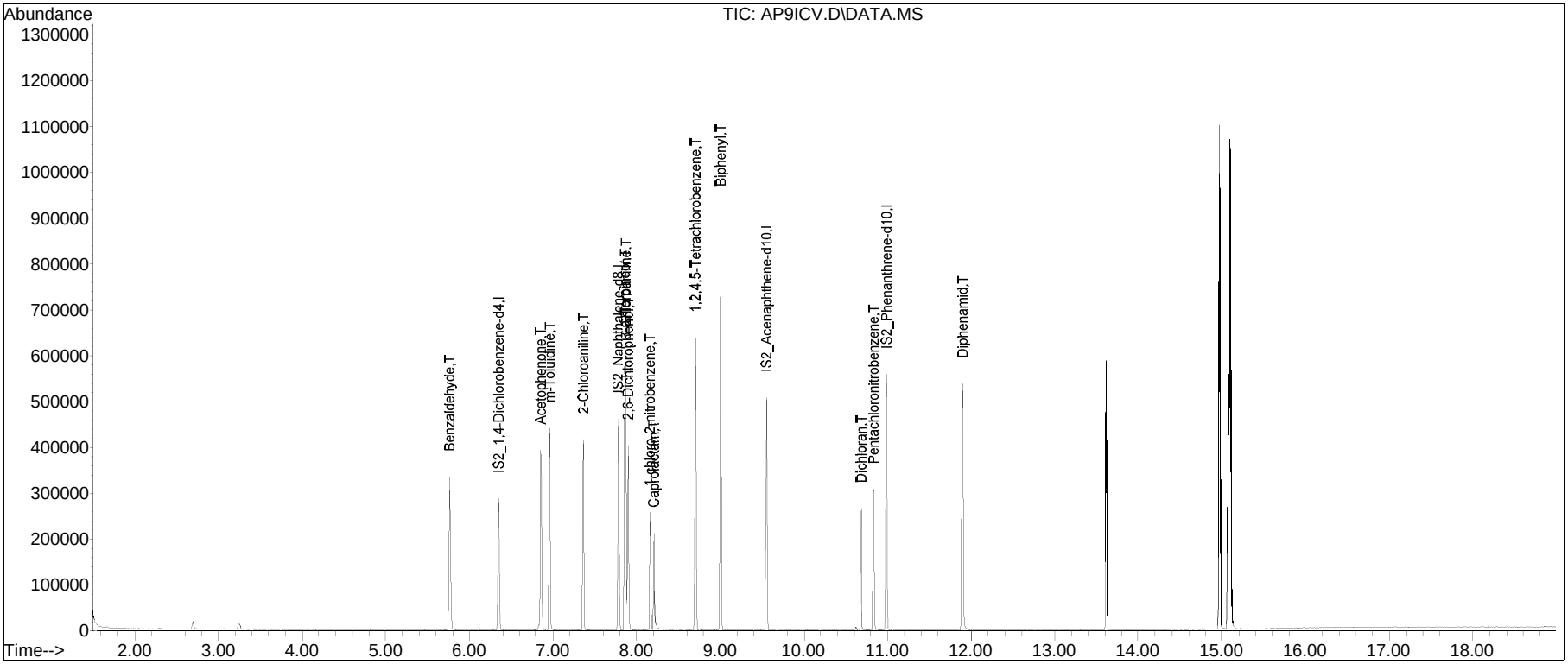
(#) = qualifier out of range (m) = manual integration (+) = signals summed

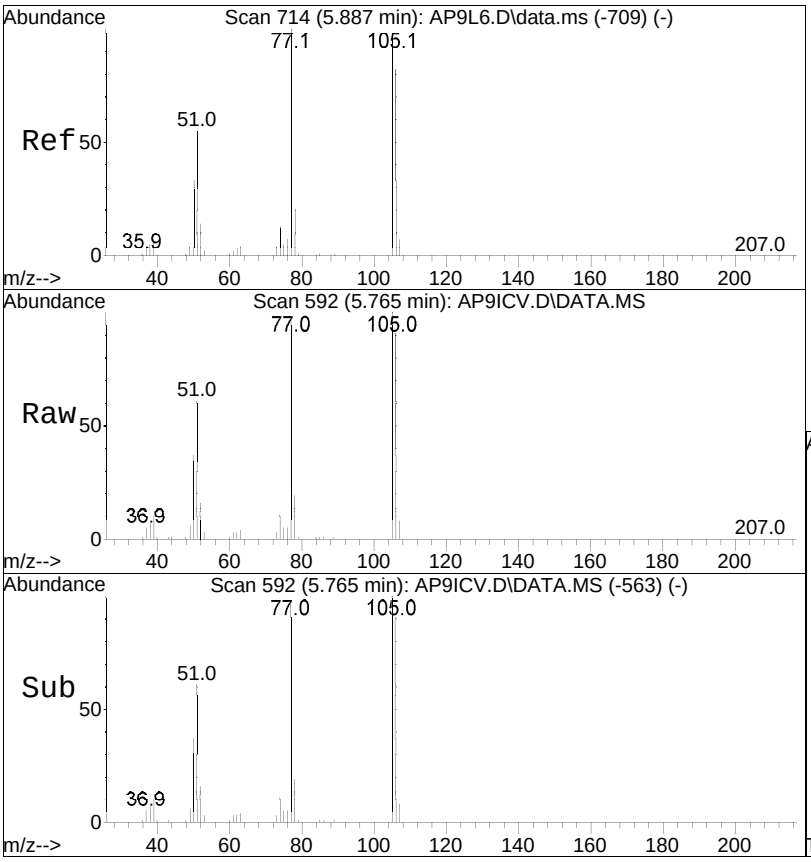
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : AP9ICV.D
Acq On : 12 Mar 2025 6:30 am
Operator : SV106:ljg
Sample : CQICV2,32,,AP9ICV Lot# 11453
Misc : WG2039658,,ical
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Mar 12 12:20:59 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 12:21:58 2025
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•

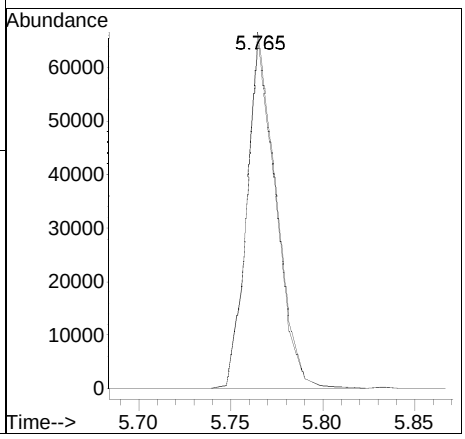


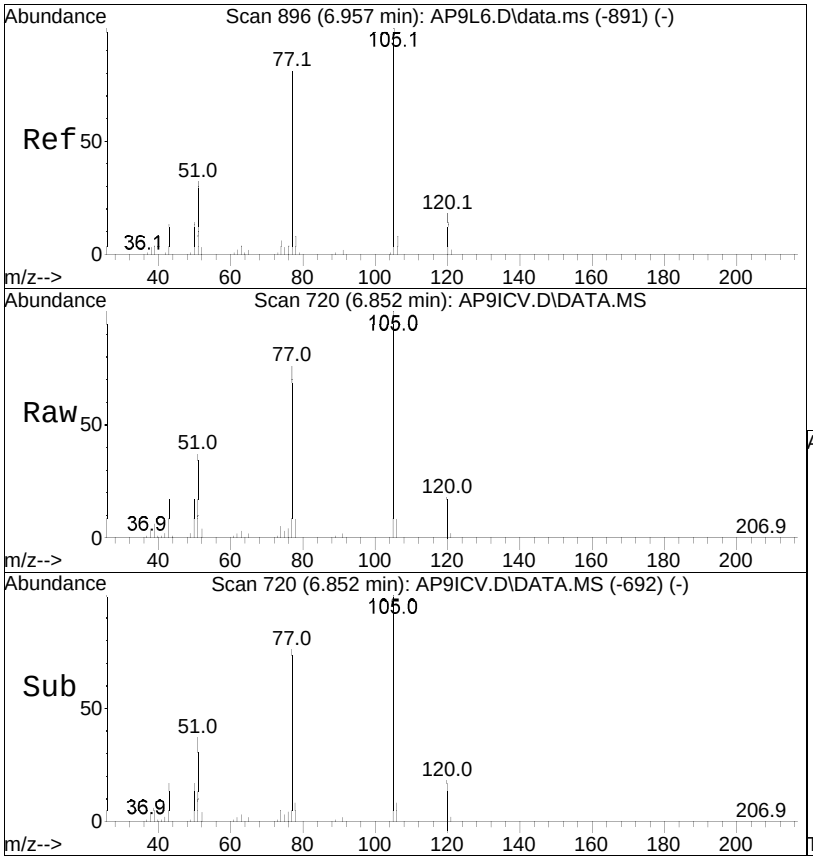


#28
Benzaldehyde
Concen: 6.15 ug/ml
RT: 5.765 min Scan# 592
Delta R.T. 0.001 min
Lab File: AP9ICV.D
Acq: 12 Mar 2025 6:30 am

Tgt Ion:105 Resp: 73385

Ion	Ratio	Lower	Upper
105	100		
77	97.1	82.2	123.4

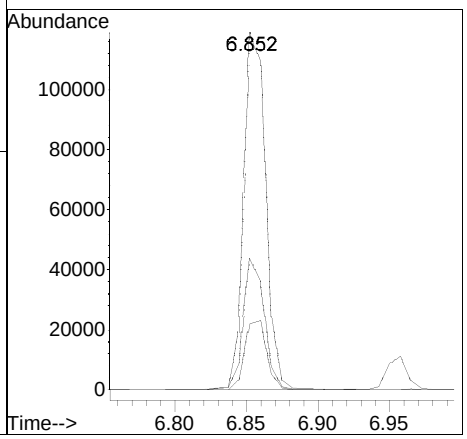


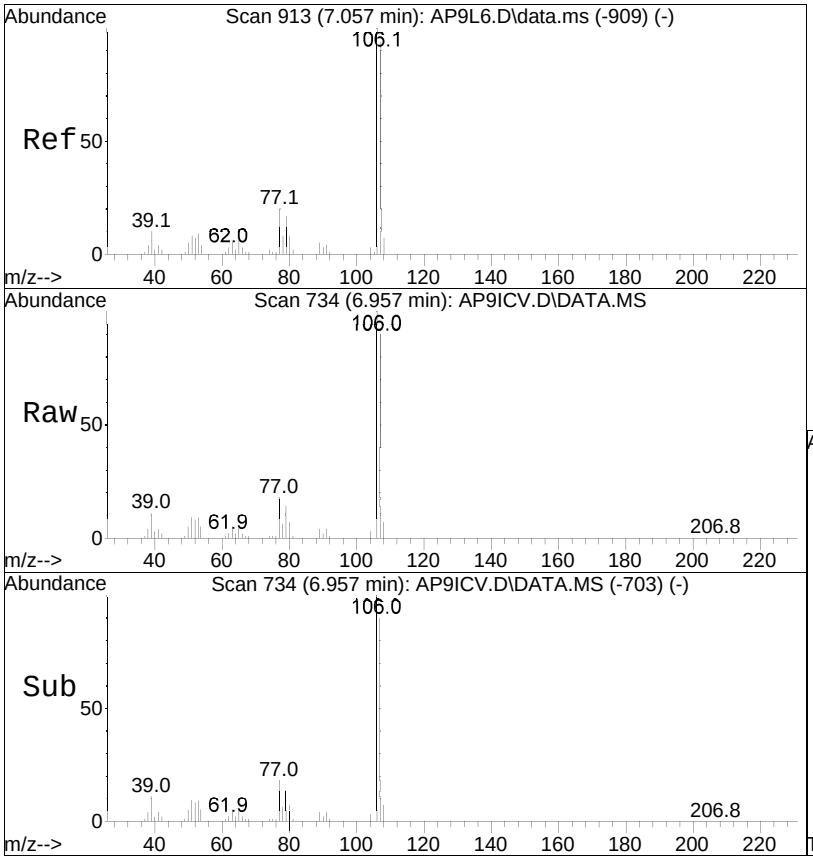


#29
Acetophenone
Concen: 6.08 ug/ml
RT: 6.852 min Scan# 720
Delta R.T. -0.008 min
Lab File: AP9ICV.D
Acq: 12 Mar 2025 6:30 am

Tgt Ion:105 Resp: 125365

Ion	Ratio	Lower	Upper
105	100		
120	19.5	20.5	30.7#
51	36.2	34.9	52.3

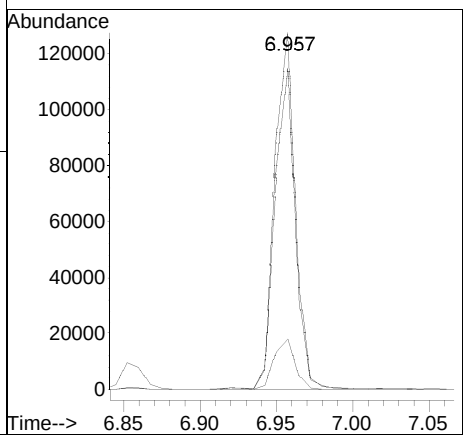


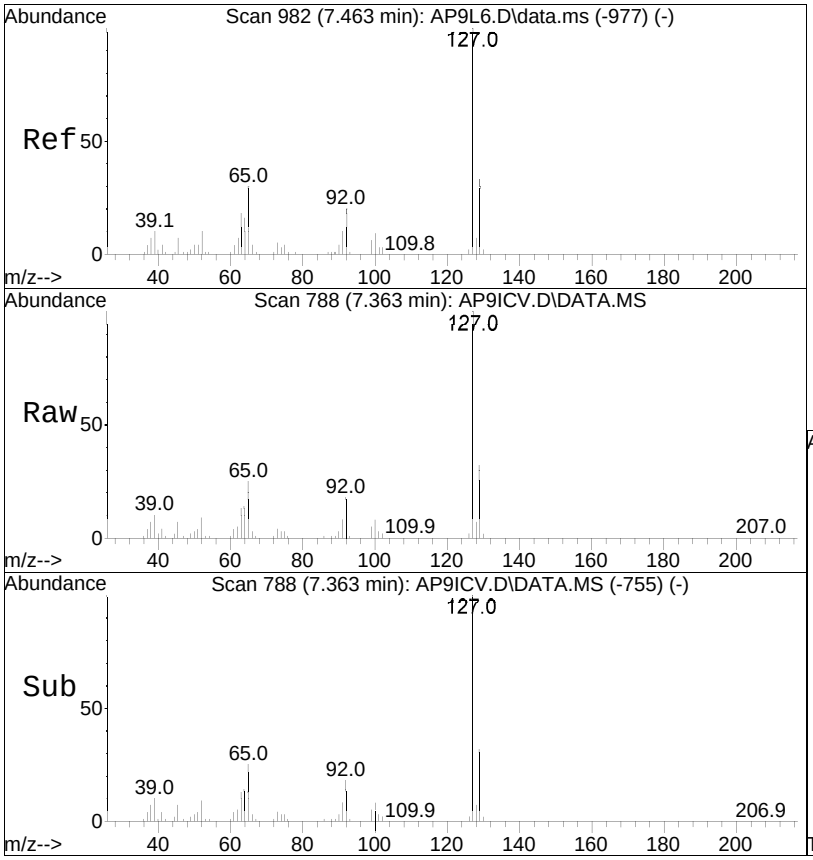


#30
m-Toluidine
Concen: 6.34 ug/ml
RT: 6.957 min Scan# 734
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 12 Mar 2025 6:30 am

Tgt Ion:106 Resp: 120144

Ion	Ratio	Lower	Upper
106	100		
107	88.8	75.7	113.5
79	14.4	11.8	17.8

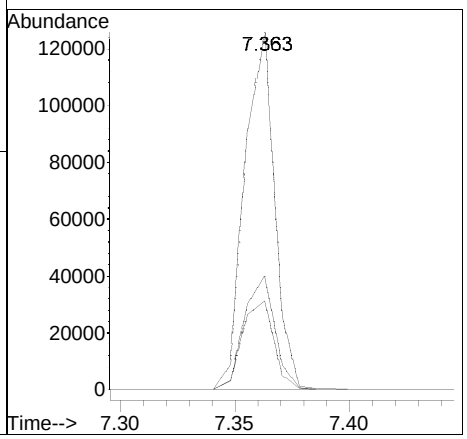


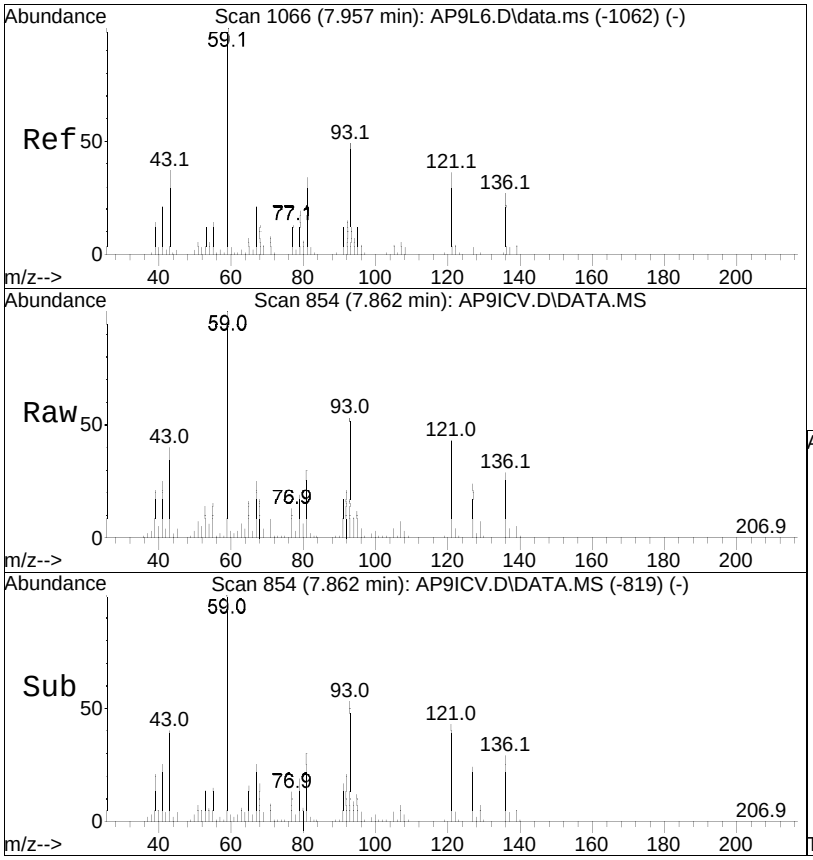


#31
2-Chloroaniline
Concen: 6.12 ug/ml
RT: 7.363 min Scan# 788
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 12 Mar 2025 6:30 am

Tgt Ion:127 Resp: 113544

Ion	Ratio	Lower	Upper
127	100		
129	32.6	25.9	38.9
65	26.2	26.3	39.5#

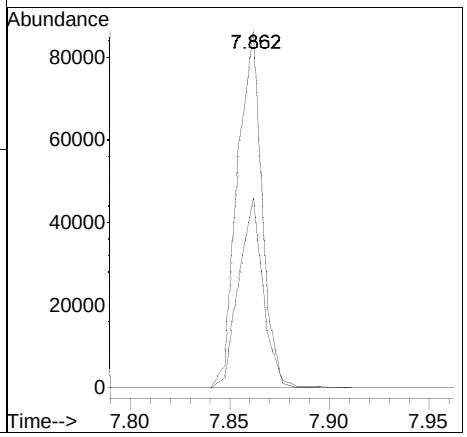


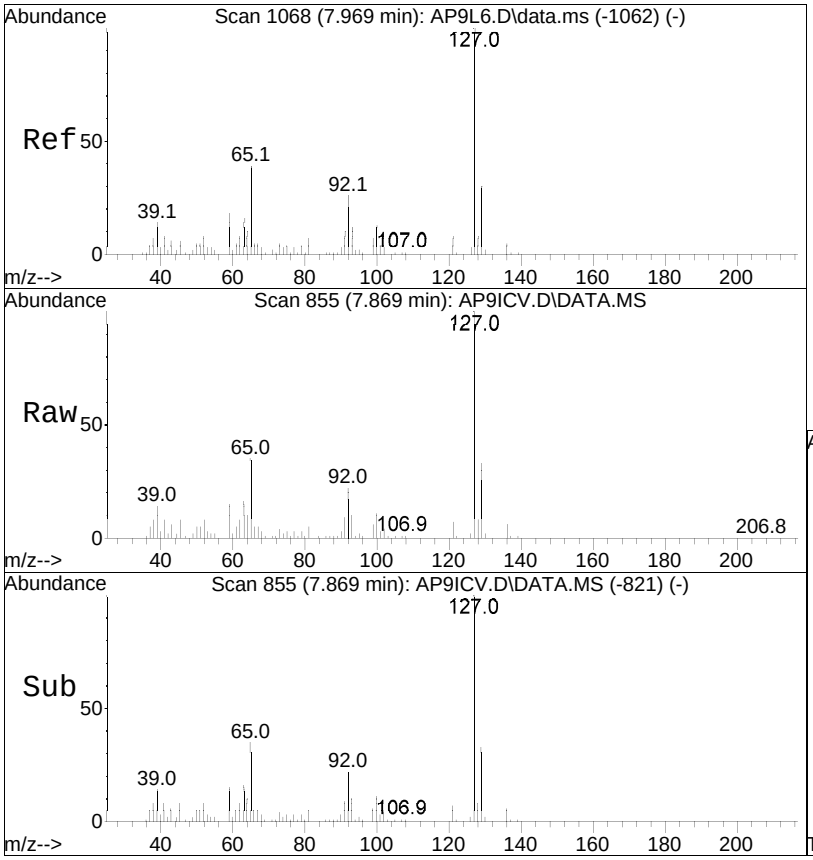


#56
a-Terpineol
Concen: 5.81 ug/ml
RT: 7.862 min Scan# 854
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 12 Mar 2025 6:30 am

Tgt Ion: 59 Resp: 73543

Ion	Ratio	Lower	Upper
59	100		
93	53.7	35.6	53.4#

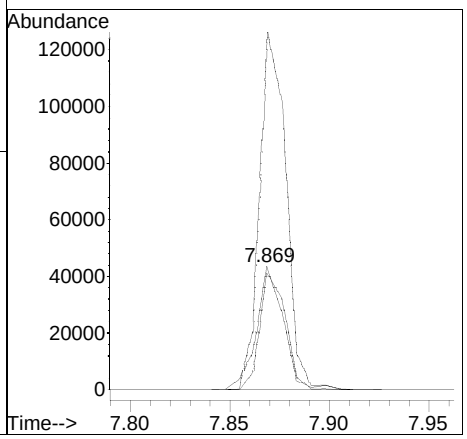


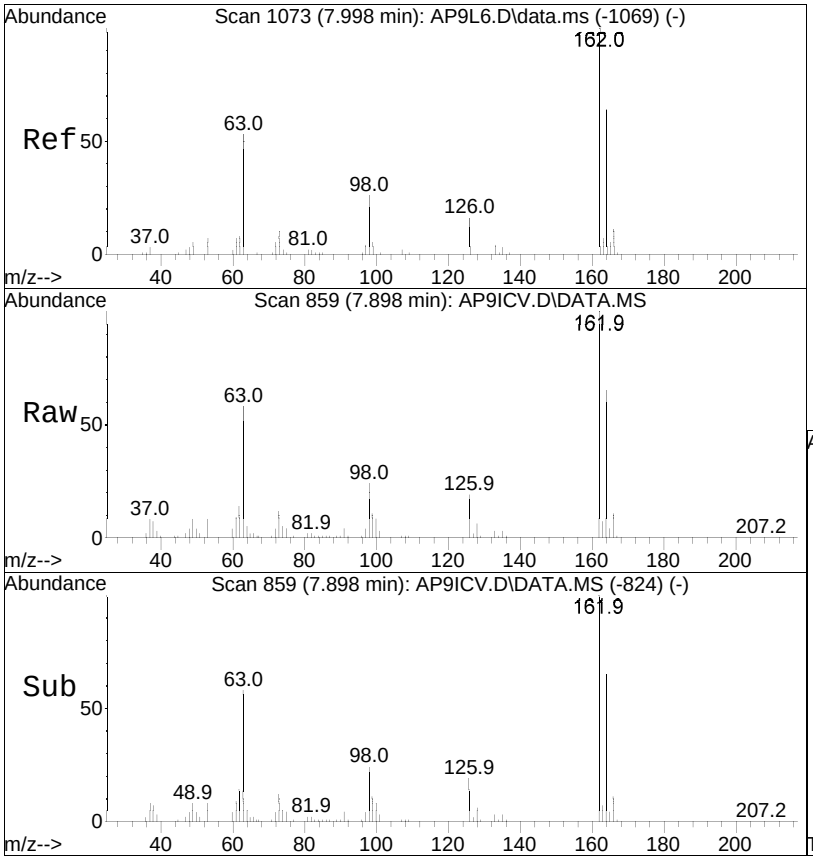


#57
3-Chloroaniline
Concen: 6.36 ug/ml
RT: 7.869 min Scan# 855
Delta R.T. -0.007 min
Lab File: AP9ICV.D
Acq: 12 Mar 2025 6:30 am

Tgt Ion: 65 Resp: 40890

Ion	Ratio	Lower	Upper
65	100		
127	281.3	243.2	364.8
129	91.0	78.8	118.2

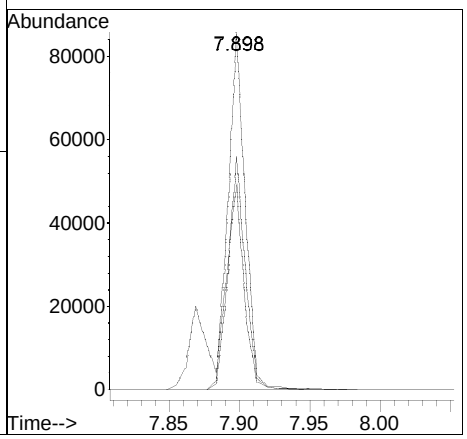


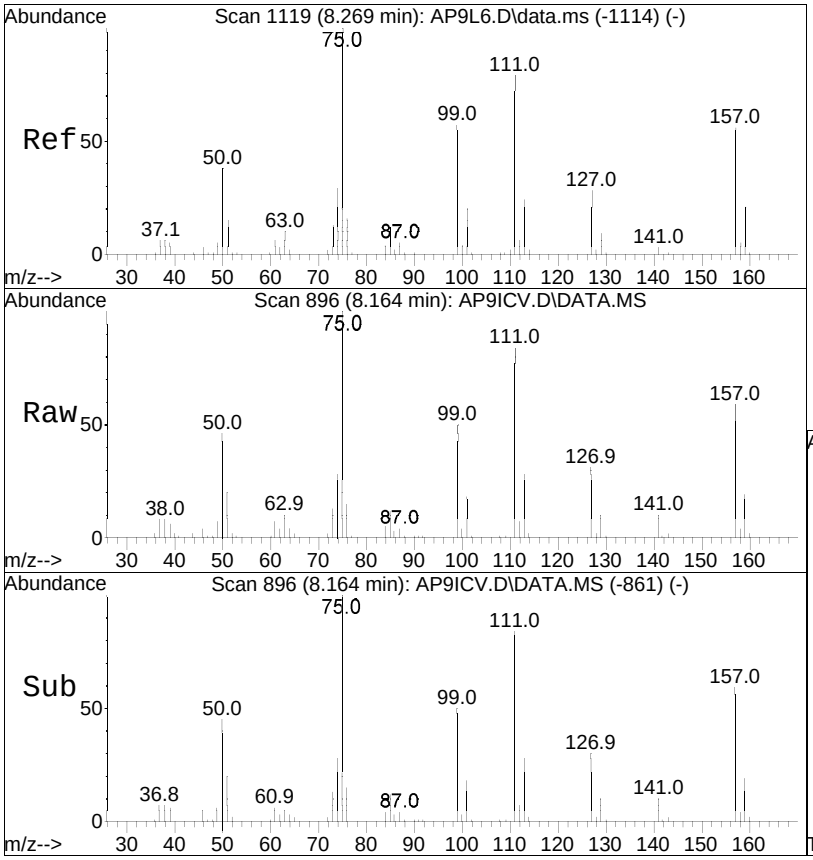


#58
2,6-Dichlorophenol
Concen: 5.79 ug/ml
RT: 7.898 min Scan# 859
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 12 Mar 2025 6:30 am

Tgt Ion:162 Resp: 72072

Ion	Ratio	Lower	Upper
162	100		
164	64.9	51.1	76.7
63	56.6	60.8	91.2#

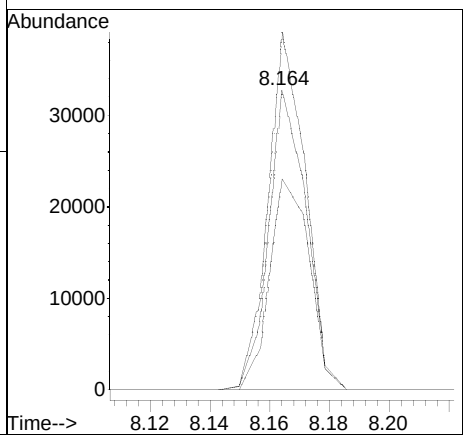


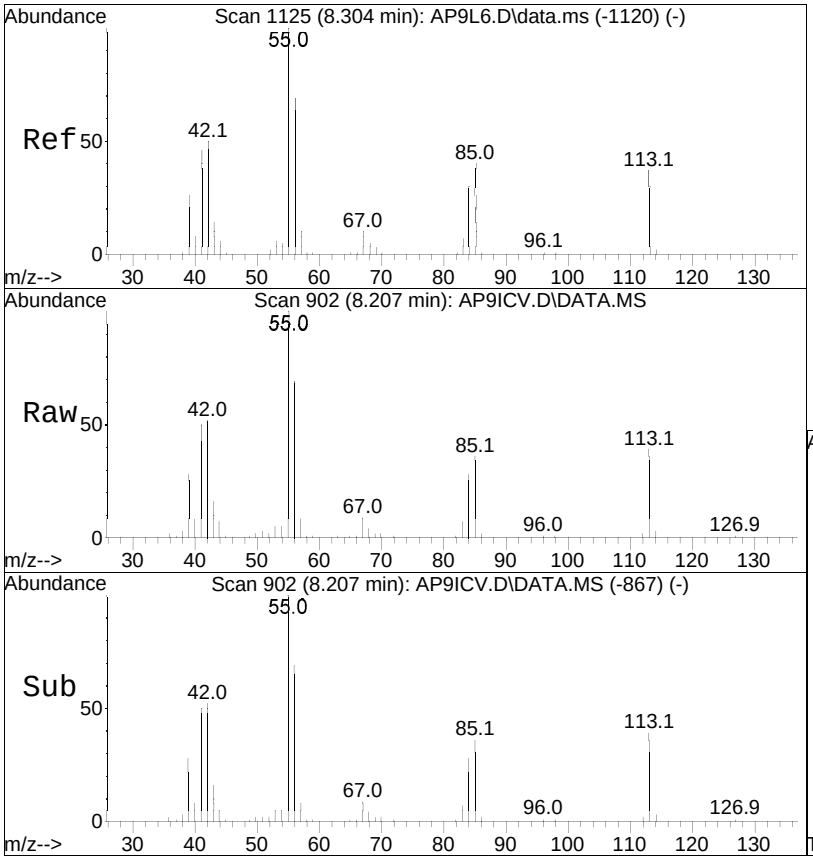


#59
1-chloro-2-nitrobenzene
Concen: 5.69 ug/ml
RT: 8.164 min Scan# 896
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 12 Mar 2025 6:30 am

Tgt Ion:111 Resp: 28322

Ion	Ratio	Lower	Upper
111	100		
157	75.0	0.0	0.0#
75	118.1	28.2	42.2#

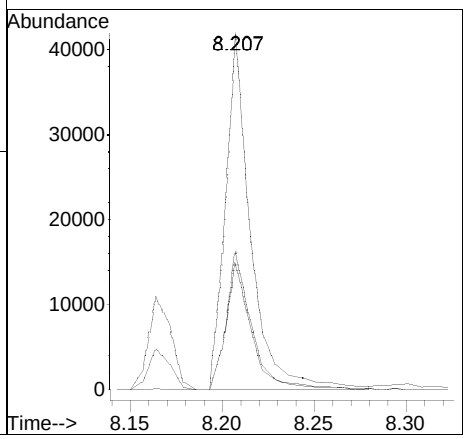


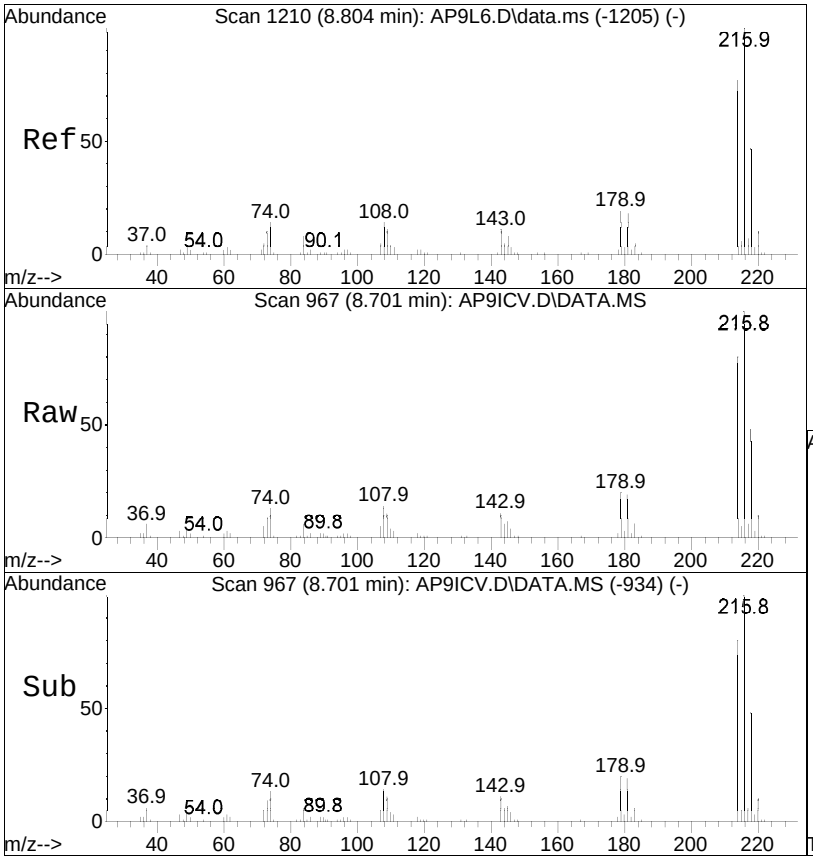


#60
Caprolactam
Concen: 5.26 ug/ml
RT: 8.207 min Scan# 902
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 12 Mar 2025 6:30 am

Tgt Ion: 55 Resp: 39903

Ion	Ratio	Lower	Upper
55	100		
85	36.4	19.8	29.6#
113	39.9	29.6	44.4

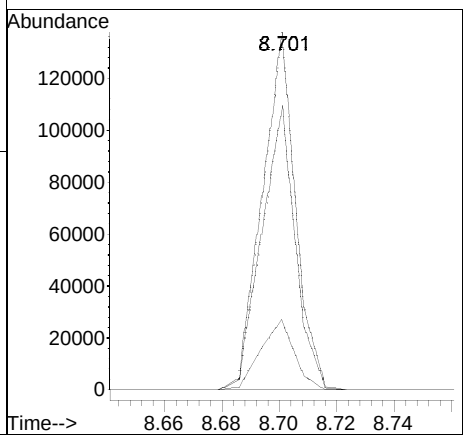


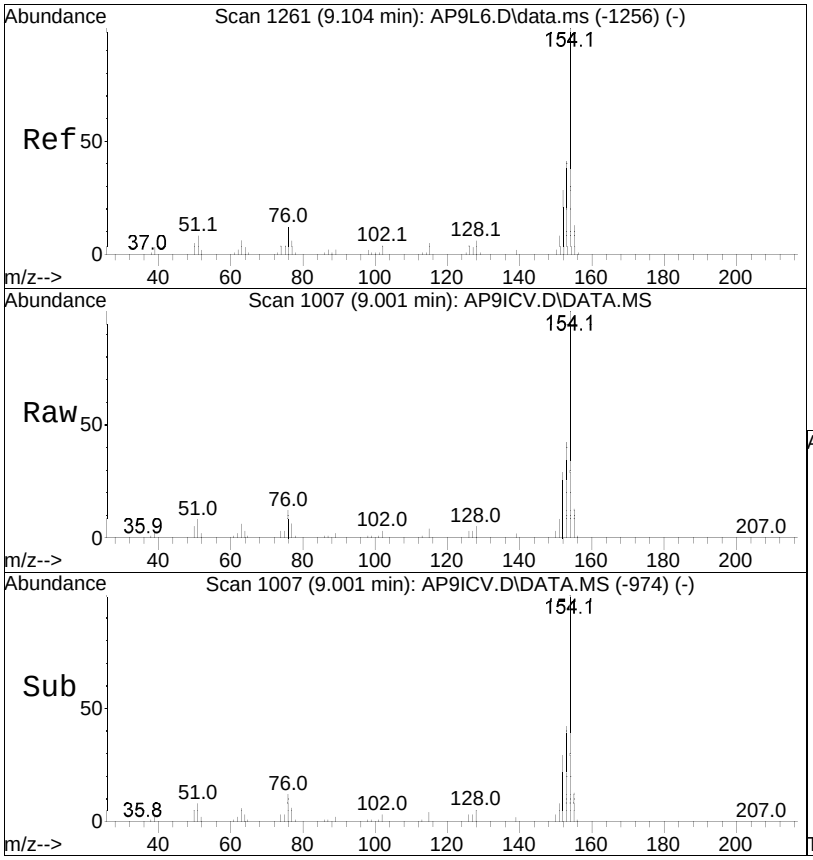


#61
1,2,4,5-Tetrachlorobenzene
Concen: 5.93 ug/ml
RT: 8.701 min Scan# 967
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 12 Mar 2025 6:30 am

Tgt Ion:216 Resp: 109727

Ion	Ratio	Lower	Upper
216	100		
214	80.1	63.7	95.5
179	20.0	19.0	28.6

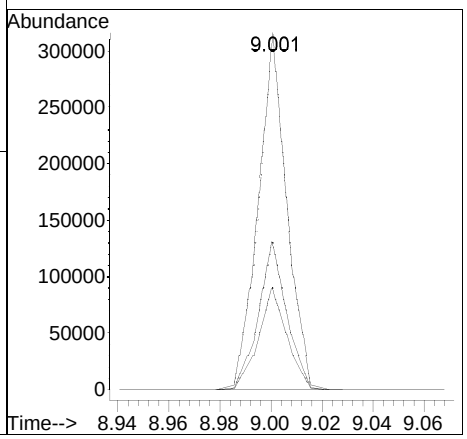


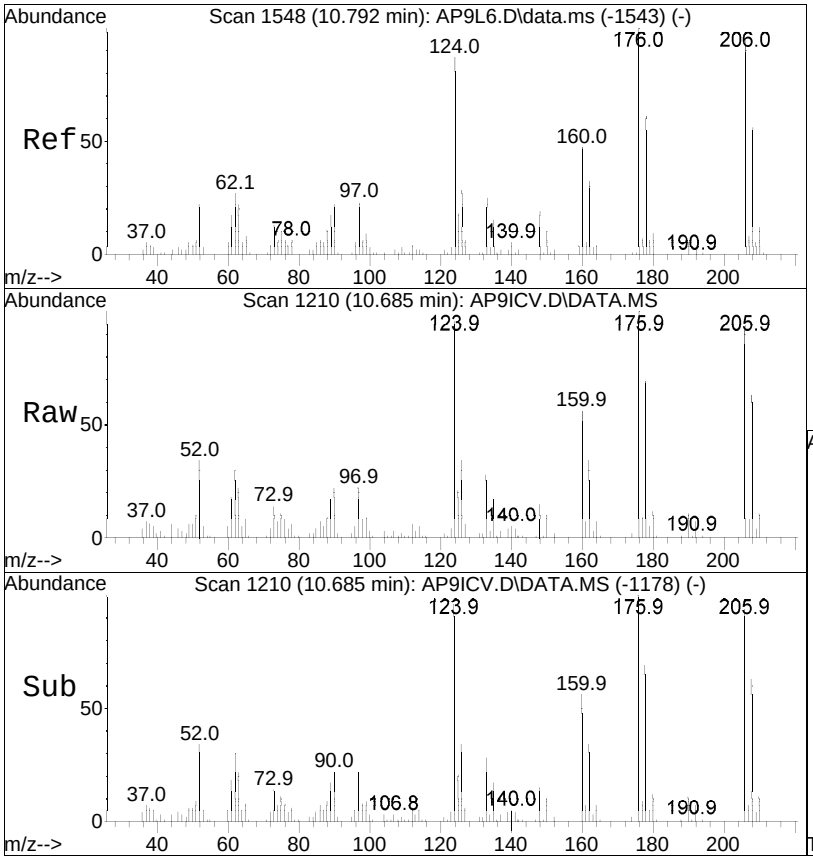


#62
Biphenyl
Concen: 5.95 ug/ml
RT: 9.001 min Scan# 1007
Delta R.T. 0.001 min
Lab File: AP9ICV.D
Acq: 12 Mar 2025 6:30 am

Tgt Ion:154 Resp: 242983

Ion	Ratio	Lower	Upper
154	100		
153	41.5	32.3	48.5
152	29.0	22.5	33.7

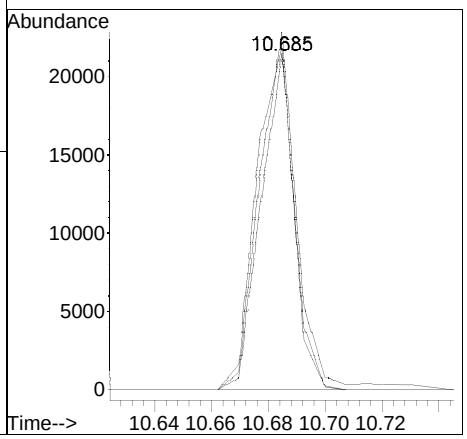


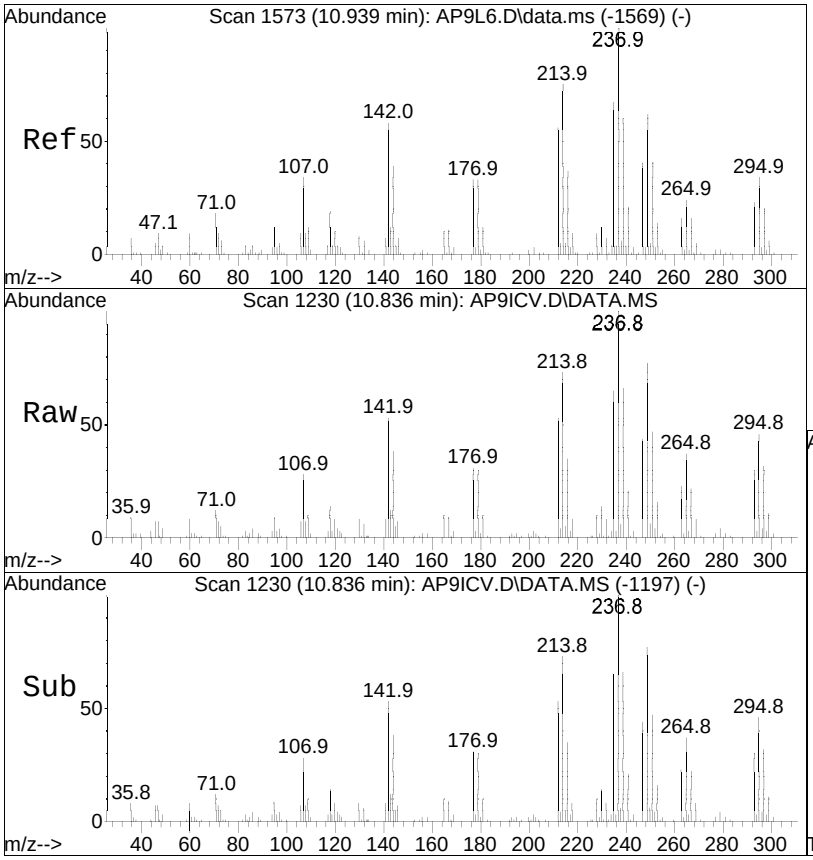


#84
Dichloran
Concen: 5.55 ug/ml
RT: 10.685 min Scan# 1210
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 12 Mar 2025 6:30 am

Tgt Ion:206 Resp: 17393

Ion	Ratio	Lower	Upper
206	100		
176	118.6	104.6	157.0
124	112.2	130.5	195.7#

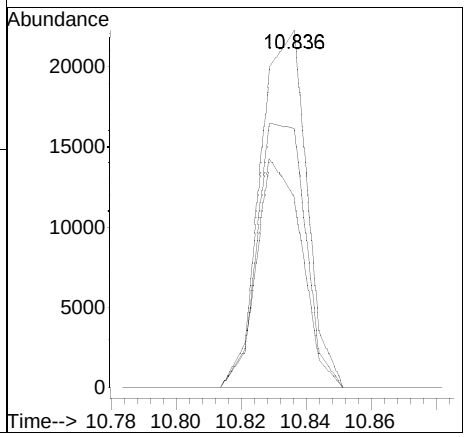


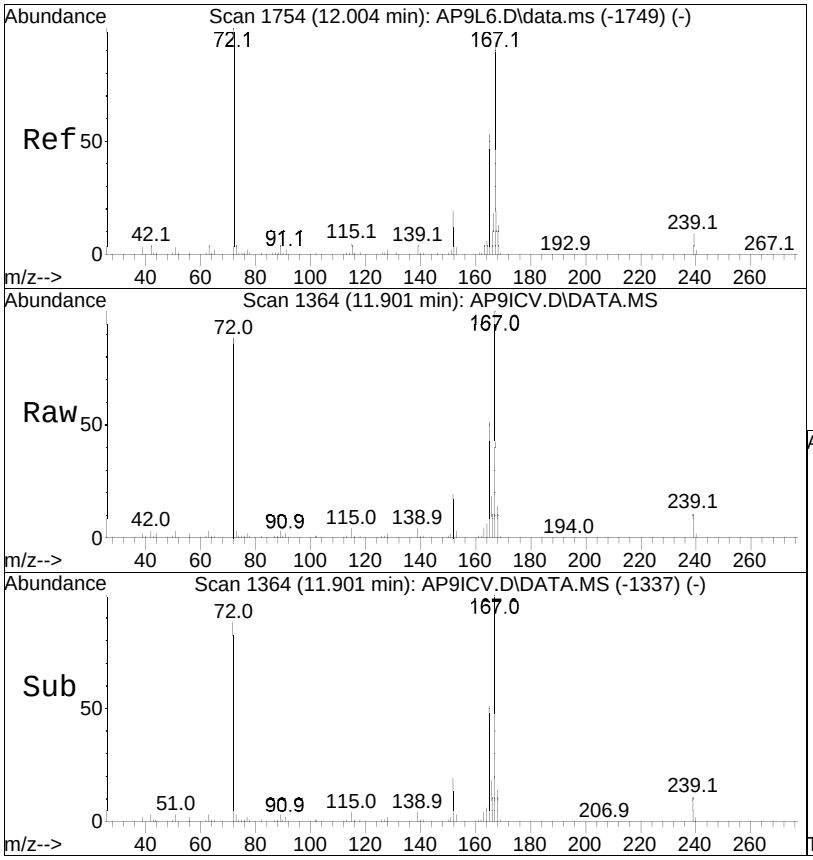


#85
Pentachloronitrobenzene
Concen: 5.61 ug/ml
RT: 10.836 min Scan# 1230
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 12 Mar 2025 6:30 am

Tgt Ion:237 Resp: 22043

Ion	Ratio	Lower	Upper
237	100		
142	62.4	77.0	115.4#
214	76.4	58.2	87.4

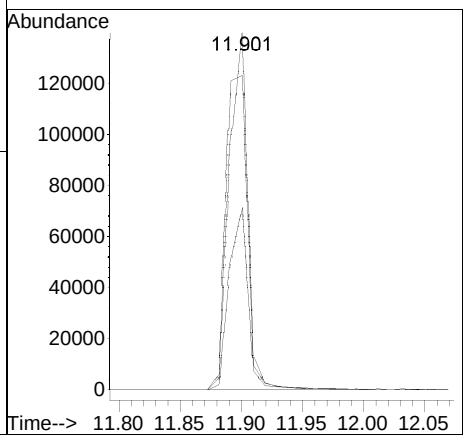




#99
Diphenamid
Concen: 6.39 ug/ml
RT: 11.901 min Scan# 1364
Delta R.T. 0.001 min
Lab File: AP9ICV.D
Acq: 12 Mar 2025 6:30 am

Tgt Ion:167 Resp: 147216

Ion	Ratio	Lower	Upper
167	100		
72	102.5	109.7	164.5#
165	52.9	41.8	62.6



Manual Integration Report

Data Path	: I:\8270\SV106\250311RVTica	QMethod	: FS250311SV106.m
Data File	: AP9ICV.D	Operator	: SV106:ljg
Date Inj'd	: 3/12/2025 6:30 am	Instrument	: SV 106
Sample	: CQICV2,32,,AP9ICV Lot# 114	Quant Date	: 3/12/2025 12:21 pm

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\250311RVTical\
Data File : ADPICV.D
Acq On : 12 Mar 2025 6:53 am
Operator : SV106:ljg
Sample : CQICV,32,,ADPICV Lot# 11454
Misc : WG2039658,,ical
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Mar 12 12:20:50 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 12:21:49 2025
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	90	-0.02
33	t	1,4-Dioxane		0.548	0.490	10.6	95	-0.01
34	T	n-Decane		1.700	1.734	-2.0	100	-0.02
86	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	91	-0.02
87	T	Atrazine		0.366	0.339	7.4	92	-0.02
100	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	92	-0.02
101	T	n-Octadecane		0.458	0.469	-2.4	98	-0.02
102	T	Parathion	*	5.000	4.964	0.7	90	-0.02
103	T	3,3'-Dimethylbenzidine	*	5.000	4.470	10.6	94	-0.03

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ADPICV.D
Acq On : 12 Mar 2025 6:53 am
Operator : SV106:ljg
Sample : CQICV,32,,ADPICV Lot# 11454
Misc : WG2039658,,ical
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Mar 12 12:20:50 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 12:21:49 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250311RVTical\ABNL6.D
: 2 - I:\8270\SV106\250311RVTical\ADPL6.D
: 3 - I:\8270\SV106\250311RVTical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.351	152	52682	4.000	ug/ml	-0.02
Standard Area 2 = 58261			Recovery = 90.42%			
86) IS3_Acenaphthene-d10	9.550	164	115579	4.000	ug/ml	-0.02
Standard Area 2 = 127382			Recovery = 90.73%			
100) IS3_Phenanthrene-d10	10.988	188	244485	4.000	ug/ml	#-0.02
Standard Area 2 = 266366			Recovery = 91.79%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.746	88	32235	4.467	ug/ml#	62
34) n-Decane	6.249	57	114193	5.101	ug/ml#	37
87) Atrazine	10.760	200	48983	4.638	ug/ml	96
101) n-Octadecane	10.972	57	143247	5.118	ug/ml#	1
102) Parathion	11.778	109	17069	4.964	ug/ml#	92
103) 3,3'-Dimethylbenzidine	13.054	212	187467	4.470	ug/ml	100

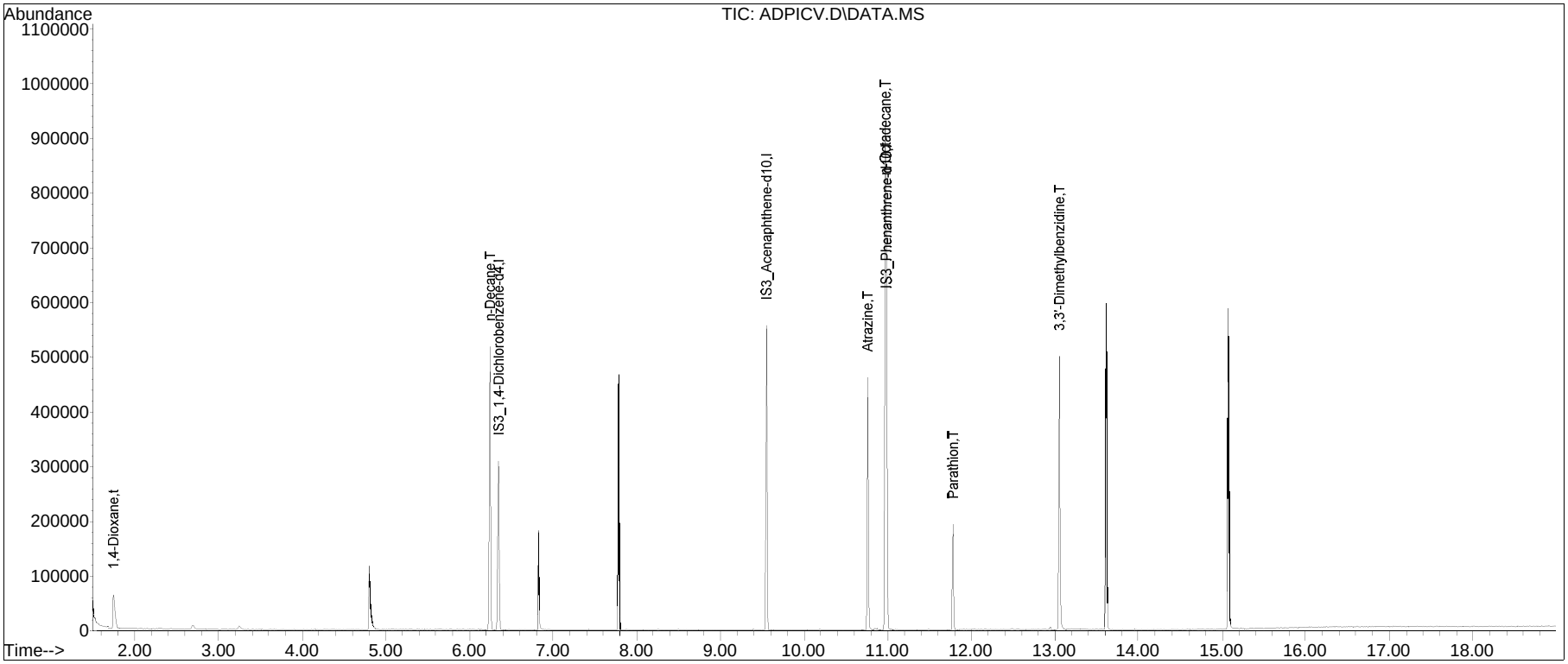
(#) = qualifier out of range (m) = manual integration (+) = signals summed

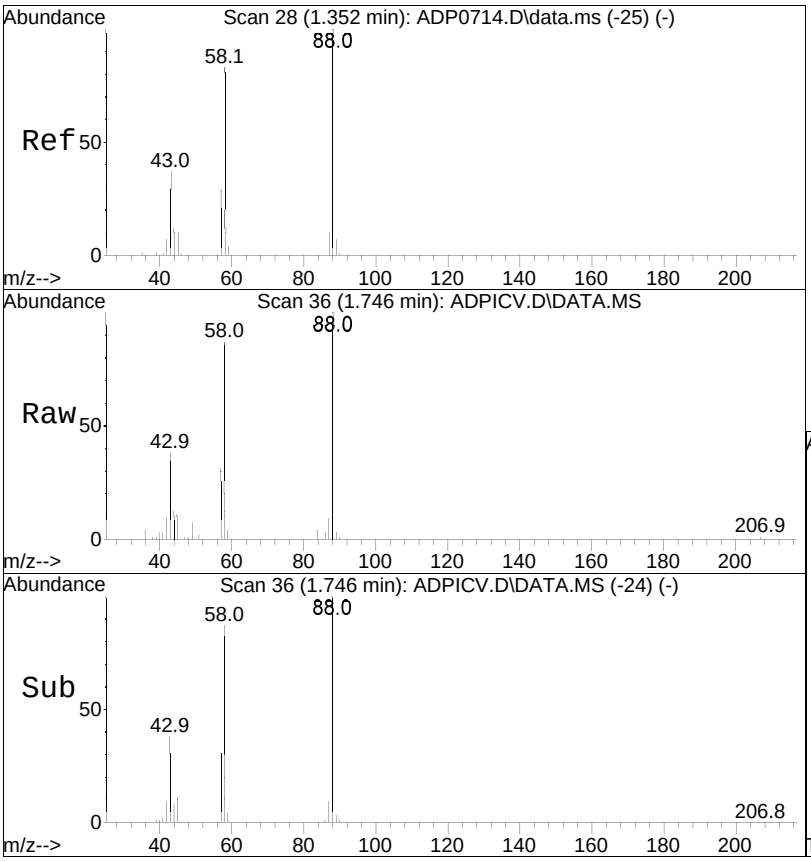
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250311RVTical\
Data File : ADPICV.D
Acq On : 12 Mar 2025 6:53 am
Operator : SV106:ljg
Sample : CQICV,32,,ADPICV Lot# 11454
Misc : WG2039658,,ical
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Mar 12 12:20:50 2025
Quant Method : I:\8270\SV106\250311RVTical\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 12:21:49 2025
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\AP9L6.D•

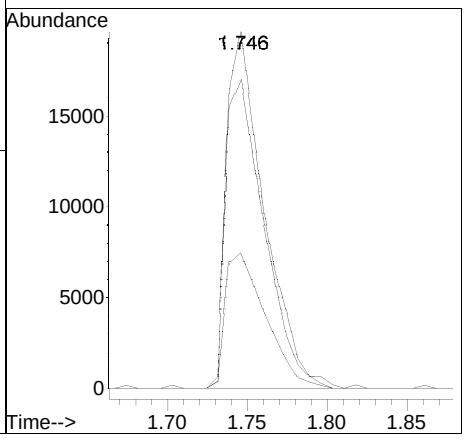


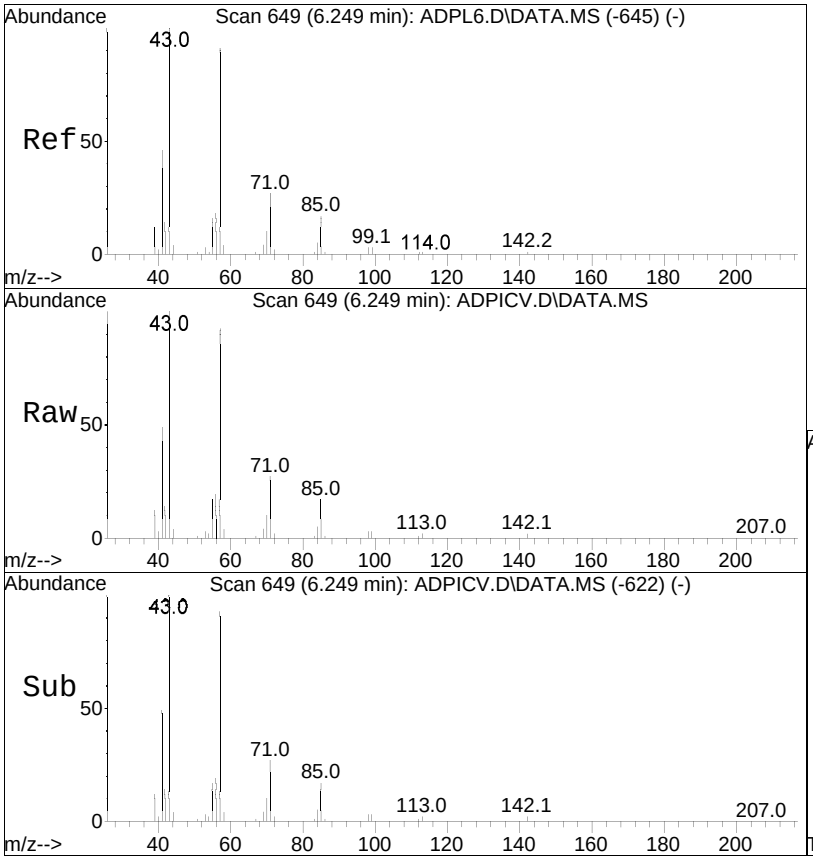


#33
1,4-Dioxane
Concen: 4.47 ug/ml
RT: 1.746 min Scan# 36
Delta R.T. -0.014 min
Lab File: ADPICV.D
Acq: 12 Mar 2025 6:53 am

Tgt Ion: 88 Resp: 32235

Ion	Ratio	Lower	Upper
88	100		
58	88.4	44.8	67.2#
43	40.7	22.4	33.6#

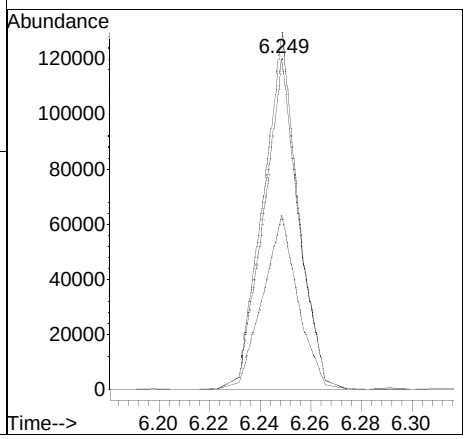


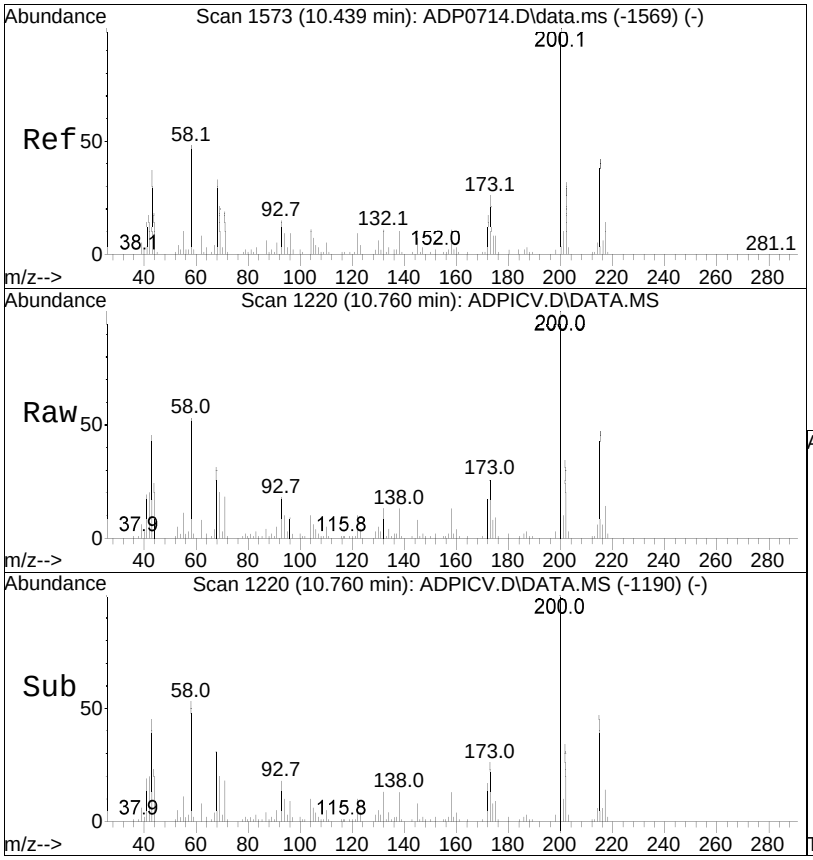


#34
n-Decane
Concen: 5.10 ug/ml
RT: 6.249 min Scan# 649
Delta R.T. -0.023 min
Lab File: ADPICV.D
Acq: 12 Mar 2025 6:53 am

Tgt Ion: 57 Resp: 114193

Ion	Ratio	Lower	Upper
57	100		
43	108.0	0.2	0.2#
41	53.4	0.2	0.2#

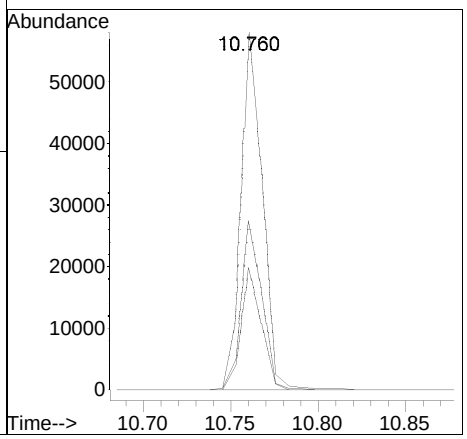


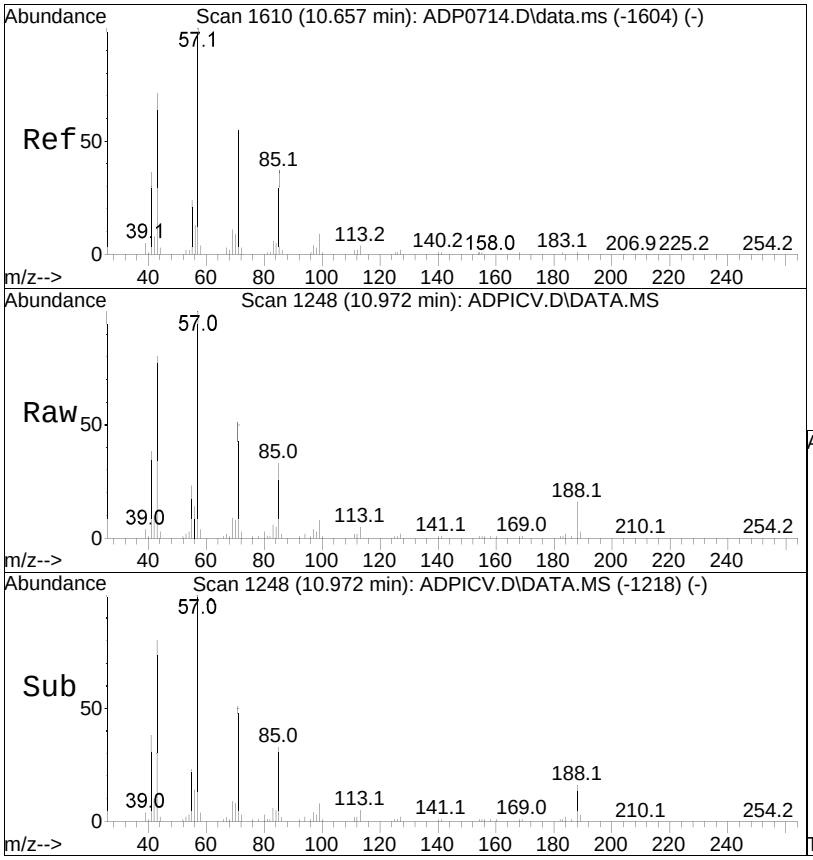


#87
Atrazine
Concen: 4.64 ug/ml
RT: 10.760 min Scan# 1220
Delta R.T. -0.023 min
Lab File: ADPICV.D
Acq: 12 Mar 2025 6:53 am

Tgt Ion:200 Resp: 48983

Ion	Ratio	Lower	Upper
200	100		
202	32.4	25.8	38.6
215	45.9	40.2	60.4

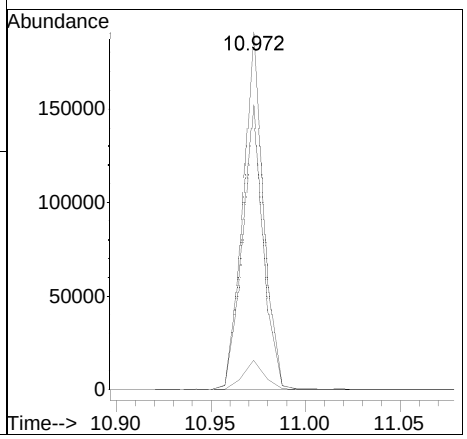


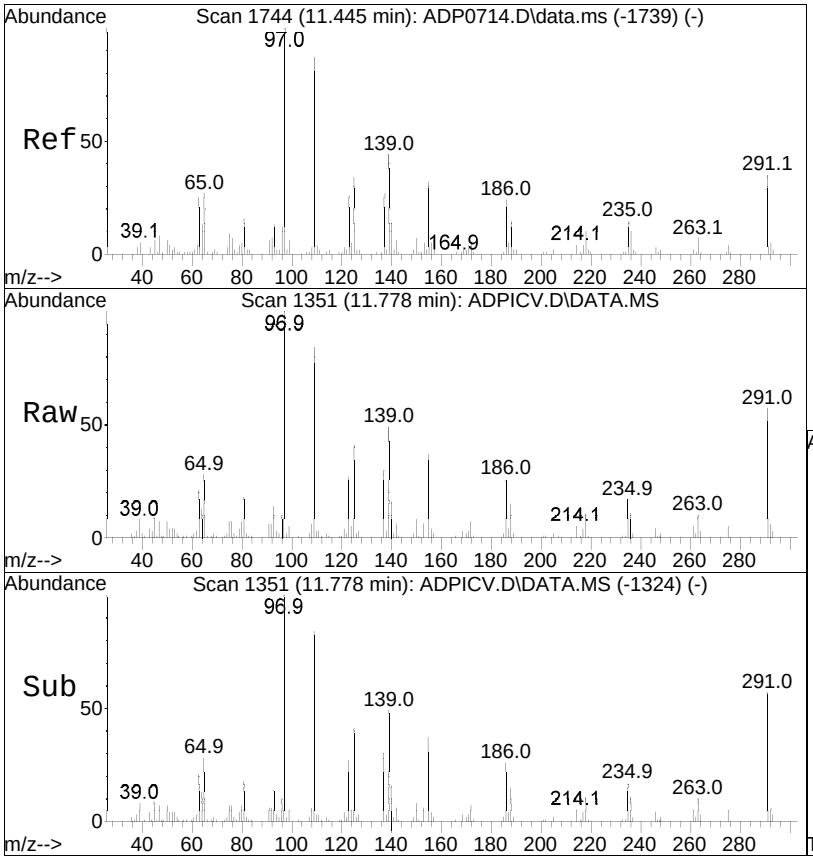


#101
n-Octadecane
Concen: 5.12 ug/ml
RT: 10.972 min Scan# 1248
Delta R.T. -0.023 min
Lab File: ADPICV.D
Acq: 12 Mar 2025 6:53 am

Tgt Ion: 57 Resp: 143247

Ion	Ratio	Lower	Upper
57	100		
43	81.2	9.0	13.6#
70	8.5	0.2	0.2#

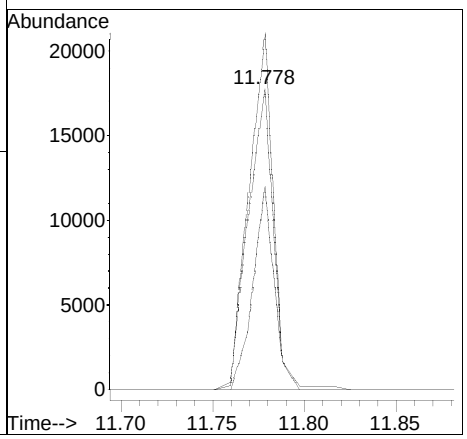


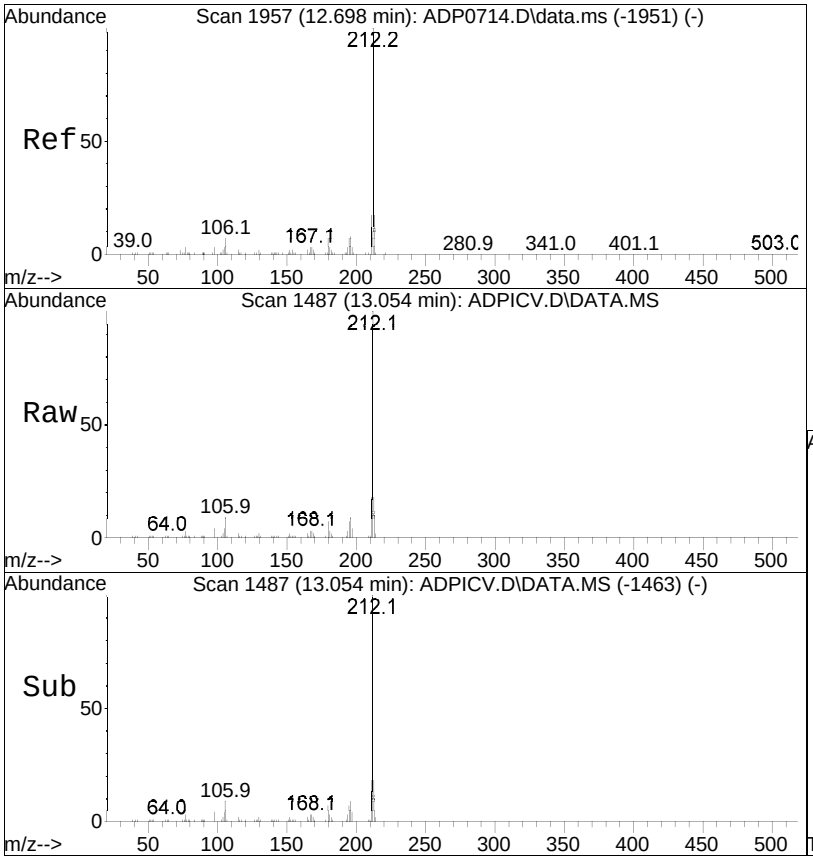


#102
Parathion
Concen: 4.96 ug/ml
RT: 11.778 min Scan# 1351
Delta R.T. -0.023 min
Lab File: ADPICV.D
Acq: 12 Mar 2025 6:53 am

Tgt Ion:109 Resp: 17069

Ion	Ratio	Lower	Upper
109	100		
97	111.7	87.4	131.2
291	56.2	34.2	51.2#

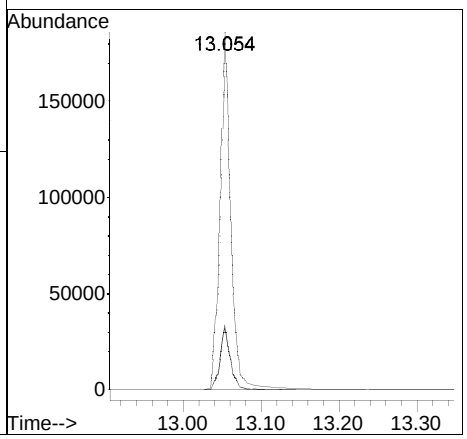




#103
3,3'-Dimethylbenzidine
Concen: 4.47 ug/ml
RT: 13.054 min Scan# 1487
Delta R.T. -0.029 min
Lab File: ADPICV.D
Acq: 12 Mar 2025 6:53 am

Tgt Ion:212 Resp: 187467

Ion	Ratio	Lower	Upper
212	100		
211	15.9	12.9	19.3
213	16.6	13.2	19.8



Manual Integration Report

Data Path	: I:\8270\SV106\250311RVTica	QMethod	: FS250311SV106.m
Data File	: ADPICV.D	Operator	: SV106:ljg
Date Inj'd	: 3/12/2025 6:53 am	Instrument	: SV 106
Sample	: CQICV,32,,ADPICV Lot# 1145	Quant Date	: 3/12/2025 12:21 pm

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

Evaluate Relative Error Report SV 106

Method Path : I:\8270\SV106\250311RVTical\
Method File : FS250311SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Mar 12 12:21:00 2025

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
37 T	Benzoic Acid	Q	ug/ml	5.0	3.802	-24.0	0.50	0.700	40.0
49 T	1,4-Dinitrobenzene	Q	ug/ml	5.0	4.814	-3.7	0.20	0.128	-36.0
66 T	2,4-Dinitrophenol	Q	ug/ml	5.0	4.507	-9.9	0.10	0.139	39.0
68 T	2,4-Dinitrotoluene	Q	ug/ml	5.0	4.773	-4.5	0.10	0.134	34.0
76 T	4,6-Dinitro-o-cresol	L	ug/ml	5.0	4.279	-14.4	0.50	0.727	45.4
84 T	Dichloran	L	ug/ml	5.0	4.973	-0.5	2.50	3.122	24.9
97 T	Butyl benzyl phthalate	L	ug/ml	5.0	4.363	-12.7	0.50	0.710	42.0
102 T	Parathion	Q	ug/ml	5.0	5.062	1.2	0.50	0.495	-1.0
103 T	3,3'-Dimethylbenzidine	L	ug/ml	5.0	4.389	-12.2	2.50	2.654	6.2
108 T	Bis(2-ethylhexyl)phthalate	L	ug/ml	5.0	4.518	-9.6	0.20	0.289	44.5
109 T	Di-n-octylphthalate	L	ug/ml	5.0	4.299	-14.0	0.50	0.725	45.0

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
37 T	Benzoic Acid	Quadratic	0.997895	0.017298	0.118996	-0.00334956
49 T	1,4-Dinitrobenzene	Quadratic	0.999966	0.007385	0.00642516	0.000488527
66 T	2,4-Dinitrophenol	Quadratic	0.995642	0.003294	0.128885	-0.00332982
68 T	2,4-Dinitrotoluene	Quadratic	0.997850	0.012914	0.33636	-0.00539953
76 T	4,6-Dinitro-o-cresol	Linear	0.992945	0.000000	0.227666	-0.0237378
84 T	Dichloran	Linear	0.998600	0.000000	0.173737	-0.0816857
97 T	Butyl benzyl phthalate	Linear	0.994123	0.000000	0.552985	-0.0530676
102 T	Parathion	Quadratic	0.999965	0.010433	0.0408483	0.00305091
103 T	3,3'-Dimethylbenzidine	Linear	0.994476	0.000000	1.01936	-0.372446
108 T	Bis(2-ethylhexyl)phthalate	Linear	0.996118	0.000000	0.750968	-0.0325275
109 T	Di-n-octylphthalate	Linear	0.993052	0.000000	1.34507	-0.145299

Continuing Calibration

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: DAKOTA	**Calibration Date**	: 03/13/25 08:16		
Lab File ID	: ABN0313	**Init. Calib. Date(s)**	: 11/05/24	11/06/24	
Sample No	: WG2040097-3	**Init. Calib. Times**	: 16:59	04:17	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	74	0
n-Nitrosodimethylamine	0.63	0.516	-	18.1	20	61	0
Pyridine	0.954	0.723	-	24.2*	20	52	0
2-Fluorophenol	1.028	0.857	-	16.6	20	63	0
Aniline	1.567	1.365	-	12.9	20	66	0
2-Chlorophenol	1.225	1.09	-	11	20	66	0
Phenol-d6	1.317	1.112	-	15.6	20	64	0
Phenol	1.421	1.181	-	16.9	20	63	0
Bis(2-chloroethyl)ether	1.017	0.831	-	18.3	20	62	0
1,3-Dichlorobenzene	1.577	1.39	-	11.9	20	68	0
1,4-Dichlorobenzene	1.61	1.436	-	10.8	20	69	0
1,2-Dichlorobenzene	1.534	1.366	-	11	20	69	0
Benzyl alcohol	0.93	0.866	-	6.9	20	70	0
Bis(2-chloroisopropyl)ethe	1.794	1.249	-	30.4*	20	54	0
2-Methylphenol	1.079	0.95	-	12	20	69	0
Hexachloroethane	0.589	0.485	-	17.7	20	66	0
n-Nitrosodi-n-propylamine	0.863	0.711	-	17.6	20	64	0
3-Methylphenol/4-Methylphe	1.182	1.027	-	13.1	20	68	0
Nitrobenzene-d5	1.195	1.114	-	6.8	20	70	0
Nitrobenzene	1.222	1.13	-	7.5	20	69	0
Isophorone	2.247	1.999	-	11	20	68	0
2-Nitrophenol	0.619	0.647	-	-4.5	20	80	0
2,4-Dimethylphenol	1.101	1.196	-	-8.6	20	83	0
Bis(2-chloroethoxy)methane	1.4	1.221	-	12.8	20	67	0
2,4-Dichlorophenol	1.285	1.267	-	1.4	20	75	0
1,2,4-Trichlorobenzene	1.555	1.492	-	4.1	20	74	0
IS1_Naphthalene-d8	1	1	-	0	20	76	0
Naphthalene	1.1	0.956	-	13.1	20	71	0
Benzoic Acid	0.228	0.126	-	44.7*	20	46	0
4-Chloroaniline	0.121	0.109	-	9.9	20	69	0
Hexachlorobutadiene	0.258	0.255	-	1.2	20	77	0
p-Chloro-m-cresol	0.29	0.287	-	1	20	78	0
2-Methylnaphthalene	0.761	0.67	-	12	20	72	0
1-Methylnaphthalene	0.242	0.244	-	-0.8	20	80	0
Hexachlorocyclopentadiene	0.272	0.339	-	-24.6*	20	95	0
2,4,6-Trichlorophenol	0.287	0.299	-	-4.2	20	81	0
2,4,5-Trichlorophenol	0.32	0.33	-	-3.1	20	83	0
2-Fluorobiphenyl	0.99	0.97	-	2	20	81	0
2-Chloronaphthalene	0.852	0.813	-	4.6	20	77	0
2-Nitroaniline	0.218	0.218	-	0	20	76	0
1,4-Dinitrobenzene	0.095	0.112	-	-17.9	20	90	0
1,3-Dinitrobenzene	0.113	0.126	-	-11.5	20	83	0
Dimethyl phthalate	0.991	0.995	-	-0.4	20	82	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: DAKOTA	**Calibration Date**	: 03/13/25 08:16		
Lab File ID	: ABN0313	**Init. Calib. Date(s)**	: 11/05/24	11/06/24	
Sample No	: WG2040097-3	**Init. Calib. Times**	: 16:59	04:17	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.252	1.319	-	-5.4	20	84	0
2,6-Dinitrotoluene	0.185	0.204	-	-10.3	20	83	0
1,2-Dinitrobenzene	0.066	0.081	-	-22.7*	20	88	0
IS1_Acenaphthene-d10	1	1	-	0	20	85	0
3-Nitroaniline	0.309	0.293	-	5.2	20	80	0
Acenaphthene	1.163	0.99	-	14.9	20	79	0
2,4-Dinitrophenol	5	3.718	-	25.6*	20	67	0
Dibenzofuran	2.006	1.737	-	13.4	20	81	0
2,4-Dinitrotoluene	0.387	0.415	-	-7.2	20	88	0
4-Nitrophenol	0.23	0.239	-	-3.9	20	87	0
2,3,5,6-Tetrachlorophenol	0.436	0.421	-	3.4	20	84	0
2,3,4,6-Tetrachlorophenol	0.428	0.419	-	2.1	20	86	0
Diethyl phthalate	1.575	1.396	-	11.4	20	83	0
Fluorene	1.536	1.393	-	9.3	20	83	0
4-Chlorophenyl phenyl ethe	0.792	0.737	-	6.9	20	87	0
4-Nitroaniline	0.299	0.31	-	-3.7	20	84	0
4,6-Dinitro-o-cresol	0.234	0.255	-	-9	20	90	0
NDPA/DPA	1.337	1.225	-	8.4	20	85	0
Azobenzene	1.281	1.082	-	15.5	20	76	0
2,4,6-Tribromophenol	0.286	0.287	-	-0.3	20	90	0
4-Bromophenyl phenyl ether	0.522	0.491	-	5.9	20	88	0
Hexachlorobenzene	0.656	0.634	-	3.4	20	92	0
Pentachlorophenol	0.356	0.379	-	-6.5	20	90	0
IS1_Phenanthrene-d10	1	1	-	0	20	92	0
Phenanthrene	1.183	1.026	-	13.3	20	87	0
Anthracene	1.16	1.028	-	11.4	20	88	0
Carbazole	1.064	0.962	-	9.6	20	87	0
Di-n-butylphthalate	1.207	1.071	-	11.3	20	83	0
Fluoranthene	1.422	1.339	-	5.8	20	93	0
Benzidine	0.772	0.845	-	-9.5	20	97	0
Pyrene	1.52	1.442	-	5.1	20	93	0
4-Terphenyl-d14	1.157	1.12	-	3.2	20	97	0
Butyl benzyl phthalate	0.517	0.503	-	2.7	20	89	0
IS1_Chrysene-d12	1	1	-	0	20	104	0
Benzo(a)anthracene	1.355	1.201	-	11.4	20	100	0
3,3'-Dichlorobenzidine	0.505	0.468	-	7.3	20	97	0
Chrysene	1.349	1.167	-	13.5	20	99	0
Bis(2-ethylhexyl)phthalate	0.726	0.637	-	12.3	20	90	0
Di-n-octylphthalate	1.212	1.067	-	12	20	91	0
Benzo(b)fluoranthene	1.42	1.371	-	3.5	20	109	0
Benzo(k)fluoranthene	1.383	1.295	-	6.4	20	99	0
Benzo(a)pyrene	1.267	1.249	-	1.4	20	105	0
IS1_Perylene-d12	1	1	-	0	20	108	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: DAKOTA	**Calibration Date**	: 03/13/25 08:16		
Lab File ID	: ABN0313	**Init. Calib. Date(s)**	: 11/05/24	11/06/24	
Sample No	: WG2040097-3	**Init. Calib. Times**	: 16:59	04:17	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.234	1.14	-	7.6	20	105	0
Dibenzo(a,h)anthracene	1.213	1.155	-	4.8	20	106	0
Benzo(ghi)perylene	1.192	1.169	-	1.9	20	112	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: DAKOTA	**Calibration Date**	: 03/13/25 08:39		
Lab File ID	: AP90313	**Init. Calib. Date(s)**	: 11/05/24	11/06/24	
Sample No	: WG2040097-4	**Init. Calib. Times**	: 16:59	04:17	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	68	0
Benzaldehyde	0.703	0.726	-	-3.3	20	65	0
Acetophenone	1.403	1.574	-	-12.2	20	74	0
m-Toluidine	1.287	1.396	-	-8.5	20	72	0
2-Chloroaniline	1.368	1.559	-	-14	20	75	0
IS2_Naphthalene-d8	1	1	-	0	20	77	0
a-Terpineol	0.221	0.216	-	2.3	20	71	0
3-Chloroaniline	0.115	0.112	-	2.6	20	69	0
2,6-Dichlorophenol	0.296	0.351	-	-18.6	20	85	0
1-chloro-2-nitrobenzene	0.113	0.134	-	-18.6	20	82	0
Caprolactam	0.123	0.122	-	0.8	20	74	0
1,2,4,5-Tetrachlorobenzene	0.413	0.477	-	-15.5	20	84	0
Biphenyl	0.842	0.957	-	-13.7	20	82	0
IS2_Acenaphthene-d10	1	1	-	0	20	80	0
Dichloran	0.169	0.198	-	-17.2	20	95	0
Pentachloronitrobenzene	0.187	0.219	-	-17.1	20	97	0
IS2_Phenanthrene-d10	1	1	-	0	20	87	0
Diphenamid	0.416	0.459	-	-10.3	20	92	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: DAKOTA	**Calibration Date**	: 03/13/25 09:01		
Lab File ID	: ADP0313	**Init. Calib. Date(s)**	: 11/05/24	11/06/24	
Sample No	: WG2040097-5	**Init. Calib. Times**	: 16:59	04:17	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	75	0
1,4-Dioxane	0.381	0.347	-	8.9	20	65	0
n-Decane	1.048	0.851	-	18.8	20	59	0
IS3_Acenaphthene-d10	1	1	-	0	20	83	0
Atrazine	0.343	0.369	-	-7.6	20	90	0
IS3_Phenanthrene-d10	1	1	-	0	20	88	0
n-Octadecane	0.334	0.272	-	18.6	20	72	0
Parathion	5	4.82	-	3.6	20	95	0
3,3'-Dimethylbenzidine	5	4.84	-	3.2	20	96	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 03/13/25 11:03		
Lab File ID	: ABN0313	**Init. Calib. Date(s)**	: 03/11/25	03/12/25	
Sample No	: WG2040166-3	**Init. Calib. Times**	: 16:50	06:06	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	107	0
n-Nitrosodimethylamine	0.718	0.729	-	-1.5	20	111	0
Pyridine	1.251	0.961	-	23.2*	20	90	0
2-Fluorophenol	1.128	1.061	-	5.9	20	103	0
Aniline	1.738	1.776	-	-2.2	20	105	0
2-Chlorophenol	1.218	1.195	-	1.9	20	107	0
Phenol-d6	1.323	1.297	-	2	20	106	0
Phenol	1.459	1.451	-	0.5	20	109	0
Bis(2-chloroethyl)ether	1.159	1.182	-	-2	20	112	0
1,3-Dichlorobenzene	1.54	1.458	-	5.3	20	107	0
1,4-Dichlorobenzene	1.574	1.509	-	4.1	20	105	0
1,2-Dichlorobenzene	1.49	1.452	-	2.6	20	109	0
Benzyl alcohol	0.91	0.891	-	2.1	20	106	0
Bis(2-chloroisopropyl)ethe	2.704	2.936	-	-8.6	20	121	0
2-Methylphenol	1.283	1.25	-	2.6	20	109	0
Hexachloroethane	0.546	0.533	-	2.4	20	106	0
n-Nitrosodi-n-propylamine	0.855	0.856	-	-0.1	20	108	0
3-Methylphenol/4-Methylphe	1.11	1.135	-	-2.3	20	110	0
Nitrobenzene-d5	1.096	1.138	-	-3.8	20	111	0
Nitrobenzene	1.118	1.204	-	-7.7	20	113	0
Isophorone	2.296	2.3	-	-0.2	20	108	0
2-Nitrophenol	0.509	0.527	-	-3.5	20	110	0
2,4-Dimethylphenol	1.198	1.215	-	-1.4	20	106	0
Bis(2-chloroethoxy)methane	1.639	1.269	-	22.6*	20	93	0
2,4-Dichlorophenol	1.137	1.145	-	-0.7	20	106	0
1,2,4-Trichlorobenzene	1.457	1.381	-	5.2	20	107	0
IS1_Naphthalene-d8	1	1	-	0	20	113	0
Naphthalene	1.066	1.011	-	5.2	20	112	0
Benzoic Acid	5	3.27	-	34.6*	20	95	0
4-Chloroaniline	0.132	0.128	-	3	20	109	0
Hexachlorobutadiene	0.244	0.225	-	7.8	20	106	0
p-Chloro-m-cresol	0.325	0.292	-	10.2	20	106	0
2-Methylnaphthalene	0.638	0.616	-	3.4	20	111	0
1-Methylnaphthalene	0.245	0.224	-	8.6	20	108	0
Hexachlorocyclopentadiene	0.3	0.264	-	12	20	100	0
2,4,6-Trichlorophenol	0.251	0.223	-	11.2	20	100	0
2,4,5-Trichlorophenol	0.255	0.257	-	-0.8	20	110	0
2-Fluorobiphenyl	0.923	0.846	-	8.3	20	107	0
2-Chloronaphthalene	0.756	0.701	-	7.3	20	108	0
2-Nitroaniline	0.166	0.166	-	0	20	108	0
1,4-Dinitrobenzene	5	3.259	-	34.8*	20	63	0
1,3-Dinitrobenzene	0.104	0.096	-	7.7	20	108	0
Dimethyl phthalate	0.908	0.85	-	6.4	20	106	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 03/13/25 11:03		
Lab File ID	: ABN0313	**Init. Calib. Date(s)**	: 03/11/25	03/12/25	
Sample No	: WG2040166-3	**Init. Calib. Times**	: 16:50	06:06	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.201	1.118	-	6.9	20	107	0
2,6-Dinitrotoluene	0.151	0.164	-	-8.6	20	104	0
1,2-Dinitrobenzene	0.063	0.066	-	-4.8	20	106	0
IS1_Acenaphthene-d10	1	1	-	0	20	106	0
3-Nitroaniline	0.252	0.269	-	-6.7	20	108	0
Acenaphthene	1.101	1.045	-	5.1	20	108	0
2,4-Dinitrophenol	5	4.576	-	8.5	20	108	0
Dibenzofuran	1.914	1.738	-	9.2	20	109	0
2,4-Dinitrotoluene	5	4.809	-	3.8	20	107	0
4-Nitrophenol	0.192	0.202	-	-5.2	20	108	0
2,3,5,6-Tetrachlorophenol	0.365	0.48	-	-31.5*	20	144	0
2,3,4,6-Tetrachlorophenol	0.344	0.337	-	2	20	102	0
Diethyl phthalate	1.359	1.307	-	3.8	20	103	0
Fluorene	1.41	1.358	-	3.7	20	107	0
4-Chlorophenyl phenyl ethe	0.738	0.689	-	6.6	20	106	0
4-Nitroaniline	0.246	0.279	-	-13.4	20	114	0
4,6-Dinitro-o-cresol	5	4.31	-	13.8	20	107	0
NDPA/DPA	1.176	1.128	-	4.1	20	106	0
Azobenzene	1.121	1.165	-	-3.9	20	111	0
2,4,6-Tribromophenol	0.206	0.189	-	8.3	20	94	0
4-Bromophenyl phenyl ether	0.463	0.428	-	7.6	20	103	0
Hexachlorobenzene	0.543	0.486	-	10.5	20	103	0
Pentachlorophenol	0.282	0.257	-	8.9	20	98	0
IS1_Phenanthrene-d10	1	1	-	0	20	107	0
Phenanthrene	1.135	1.078	-	5	20	108	0
Anthracene	1.107	1.077	-	2.7	20	106	0
Carbazole	0.989	0.986	-	0.3	20	106	0
Di-n-butylphthalate	1.116	1.239	-	-11	20	119	0
Fluoranthene	1.298	1.268	-	2.3	20	108	0
Benzidine	0.704	0.746	-	-6	20	108	0
Pyrene	1.359	1.341	-	1.3	20	108	0
4-Terphenyl-d14	1.038	0.977	-	5.9	20	105	0
Butyl benzyl phthalate	5	4.197	-	16.1	20	103	0
IS1_Chrysene-d12	1	1	-	0	20	106	0
Benzo(a)anthracene	1.278	1.252	-	2	20	108	0
3,3'-Dichlorobenzidine	0.429	0.446	-	-4	20	103	0
Chrysene	1.267	1.184	-	6.6	20	105	0
Bis(2-ethylhexyl)phthalate	5	4.472	-	10.6	20	104	0
Di-n-octylphthalate	5	4.133	-	17.3	20	101	0
Benzo(b)fluoranthene	1.314	1.203	-	8.4	20	95	0
Benzo(k)fluoranthene	1.222	1.174	-	3.9	20	104	0
Benzo(a)pyrene	1.157	1.091	-	5.7	20	98	0
IS1_Perylene-d12	1	1	-	0	20	100	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 03/13/25 11:03		
Lab File ID	: ABN0313	**Init. Calib. Date(s)**	: 03/11/25	03/12/25	
Sample No	: WG2040166-3	**Init. Calib. Times**	: 16:50	06:06	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.068	1.126	-	-5.4	20	99	0
Dibenzo(a,h)anthracene	1.063	1.085	-	-2.1	20	99	0
Benzo(ghi)perylene	1.047	1.074	-	-2.6	20	101	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 03/13/25 11:27		
Lab File ID	: AP90313	**Init. Calib. Date(s)**	: 03/11/25	03/12/25	
Sample No	: WG2040166-4	**Init. Calib. Times**	: 16:50	06:06	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	101	0
Benzaldehyde	0.954	0.85	-	10.9	20	91	0
Acetophenone	1.646	1.733	-	-5.3	20	105	0
m-Toluidine	1.514	1.529	-	-1	20	99	0
2-Chloroaniline	1.481	1.589	-	-7.3	20	109	0
IS2_Naphthalene-d8	1	1	-	0	20	101	0
a-Terpineol	0.275	0.308	-	-12	20	115	0
3-Chloroaniline	0.139	0.15	-	-7.9	20	108	0
2,6-Dichlorophenol	0.27	0.286	-	-5.9	20	110	0
1-chloro-2-nitrobenzene	0.108	0.125	-	-15.7	20	122	0
Caprolactam	0.165	0.174	-	-5.5	20	119	0
1,2,4,5-Tetrachlorobenzene	0.401	0.409	-	-2	20	108	0
Biphenyl	0.885	0.907	-	-2.5	20	109	0
IS2_Acenaphthene-d10	1	1	-	0	20	103	0
Dichloran	5	5.77	-	-15.4	20	129	0
Pentachloronitrobenzene	0.144	0.16	-	-11.1	20	124	0
IS2_Phenanthrene-d10	1	1	-	0	20	102	0
Diphenamid	0.413	0.458	-	-10.9	20	109	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC		**Lab Number**	: L2512607	
Project Name	: CORAM MATERIALS		**Project Number**	: 2232.0006Y005	
Instrument ID	: SV106		**Calibration Date**	: 03/13/25 11:50	
Lab File ID	: ADP0313		**Init. Calib. Date(s)**	: 03/11/25	03/12/25
Sample No	: WG2040166-5		**Init. Calib. Times**	: 16:50	06:06
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	101	0
1,4-Dioxane	0.548	0.453	-	17.3	20	98	0
n-Decane	1.7	1.615	-	5	20	104	0
IS3_Acenaphthene-d10	1	1	-	0	20	104	0
Atrazine	0.366	0.312	-	14.8	20	97	0
IS3_Phenanthrene-d10	1	1	-	0	20	104	0
n-Octadecane	0.458	0.45	-	1.7	20	107	0
Parathion	5	5.766	-	-15.3	20	122	0
3,3'-Dimethylbenzidine	5	4.306	-	13.9	20	101	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\250313RVT\
Data File : ABN0313.D
Acq On : 13 Mar 2025 8:16 am
Operator : Dakota:smz
Sample : wg2040097-3,32,,ABN 11297 gmr0304B
Misc : wg2040097,,ical21680
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Mar 13 09:42:38 2025
Quant Method : I:\8270\Dakota\250313RVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 09:43:30 2025
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	74	0.00
2	t	n-Nitrosodimethylamine	0.630	0.516	18.1	61	0.00
3	t	Pyridine	0.954	0.723	24.2#	52	0.00
4	S	2-Fluorophenol	1.028	0.857	16.6	63	0.00
5	T	Aniline	1.567	1.365	12.9	66	0.00
6	t	2-Chlorophenol	1.225	1.090	11.0	66	0.00
7	S	Phenol-d6	1.317	1.112	15.6	64	0.00
8	T	Phenol	1.421	1.181	16.9	63	0.00
9	T	Bis(2-chloroethyl)ether	1.017	0.831	18.3	62	0.00
10	T	1,3-Dichlorobenzene	1.577	1.390	11.9	68	0.00
11	T	1,4-Dichlorobenzene	1.610	1.436	10.8	69	0.00
12	T	1,2-Dichlorobenzene	1.534	1.366	11.0	69	0.00
13	t	Benzyl alcohol	0.930	0.866	6.9	70	0.00
14	T	Bis(2-chloroisopropyl)ether	1.794	1.249	30.4#	54	0.00
15	T	2-Methylphenol	1.079	0.950	12.0	69	0.00
16	T	Hexachloroethane	0.589	0.485	17.7	66	0.00
17	T	n-Nitrosodi-n-propylamine	0.863	0.711	17.6	64	0.00
18	T	3-Methylphenol/4-Methylphen	1.182	1.027	13.1	68	0.00
19	S	Nitrobenzene-d5	1.195	1.114	6.8	70	0.00
20	T	Nitrobenzene	1.222	1.130	7.5	69	0.00
21	T	Isophorone	2.247	1.999	11.0	68	0.00
22	T	2-Nitrophenol	0.619	0.647	-4.5	80	0.00
23	T	2,4-Dimethylphenol	1.101	1.196	-8.6	83	0.00
24	T	Bis(2-chloroethoxy)methane	1.400	1.221	12.8	67	0.00
25	T	2,4-Dichlorophenol	1.285	1.267	1.4	75	0.00
26	T	1,2,4-Trichlorobenzene	1.555	1.492	4.1	74	0.00
37	I	IS1_Naphthalene-d8	1.000	1.000	0.0	76	0.00
38	T	Naphthalene	1.100	0.956	13.1	71	0.00
39	T	Benzoic Acid	0.228	0.126	44.7#	46#	0.00
40	T	4-Chloroaniline	0.121	0.109	9.9	69	0.00
41	T	Hexachlorobutadiene	0.258	0.255	1.2	77	0.00
42	T	p-Chloro-m-cresol	0.290	0.287	1.0	78	0.00
43	T	2-Methylnaphthalene	0.761	0.670	12.0	72	0.00
44	T	1-Methylnaphthalene	0.242	0.244	-0.8	80	0.00
45	T	Hexachlorocyclopentadiene	0.272	0.339	-24.6#	95	0.00
46	T	2,4,6-Trichlorophenol	0.287	0.299	-4.2	81	0.00
47	T	2,4,5-Trichlorophenol	0.320	0.330	-3.1	83	0.00
48	S	2-Fluorobiphenyl	0.990	0.970	2.0	81	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\250313RVT\
Data File : ABN0313.D
Acq On : 13 Mar 2025 8:16 am
Operator : Dakota:smz
Sample : wg2040097-3,32,,ABN 11297 gmr0304B
Misc : wg2040097,,ical21680
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Mar 13 09:42:38 2025
Quant Method : I:\8270\Dakota\250313RVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 09:43:30 2025
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	2-Chloronaphthalene		0.852	0.813	4.6	77	0.00
50	T	2-Nitroaniline		0.218	0.218	0.0	76	0.00
51	T	1,4-Dinitrobenzene		0.095	0.112	-17.9	90	0.00
52	T	1,3-Dinitrobenzene		0.113	0.126	-11.5	83	0.00
53	T	Dimethyl phthalate		0.991	0.995	-0.4	82	0.00
54	T	Acenaphthylene		1.252	1.319	-5.4	84	0.00
55	T	2,6-Dinitrotoluene		0.185	0.204	-10.3	83	0.00
56	T	1,2-Dinitrobenzene		0.066	0.081	-22.7#	88	0.00
65	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	85	0.00
66	T	3-Nitroaniline		0.309	0.293	5.2	80	0.00
67	T	Acenaphthene		1.163	0.990	14.9	79	0.00
68	T	2,4-Dinitrophenol	*	5.000	3.718	25.6#	67	0.00
69	T	Dibenzofuran		2.006	1.737	13.4	81	0.00
70	T	2,4-Dinitrotoluene		0.387	0.415	-7.2	88	0.00
71	T	4-Nitrophenol		0.230	0.239	-3.9	87	0.00
72	T	2,3,5,6-Tetrachlorophenol		0.436	0.421	3.4	84	0.00
73	T	2,3,4,6-Tetrachlorophenol		0.428	0.419	2.1	86	0.00
74	T	Diethyl phthalate		1.575	1.396	11.4	83	0.00
75	T	Fluorene		1.536	1.393	9.3	83	0.00
76	T	4-Chlorophenyl phenyl ether		0.792	0.737	6.9	87	0.00
77	T	4-Nitroaniline		0.299	0.310	-3.7	84	0.00
78	T	4,6-Dinitro-o-cresol		0.234	0.255	-9.0	90	0.00
79	T	NDPA/DPA		1.337	1.225	8.4	85	0.00
80	T	Azobenzene		1.281	1.082	15.5	76	0.00
81	S	2,4,6-Tribromophenol		0.286	0.287	-0.3	90	0.00
82	T	4-Bromophenyl phenyl ether		0.522	0.491	5.9	88	0.00
83	T	Hexachlorobenzene		0.656	0.634	3.4	92	0.00
84	T	Pentachlorophenol		0.356	0.379	-6.5	90	0.00
90	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	92	0.00
91	T	Phenanthrene		1.183	1.026	13.3	87	0.00
92	T	Anthracene		1.160	1.028	11.4	88	0.00
93	T	Carbazole		1.064	0.962	9.6	87	0.00
94	T	Di-n-butylphthalate		1.207	1.071	11.3	83	0.00
95	T	Fluoranthene		1.422	1.339	5.8	93	0.00
96	T	Benzidine		0.772	0.845	-9.5	97	0.00
97	T	Pyrene		1.520	1.442	5.1	93	0.00
98	S	4-Terphenyl-d14		1.157	1.120	3.2	97	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\250313RVT\
Data File : ABN0313.D
Acq On : 13 Mar 2025 8:16 am
Operator : Dakota:smz
Sample : wg2040097-3,32,,ABN 11297 gmr0304B
Misc : wg2040097,,ical21680
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Mar 13 09:42:38 2025
Quant Method : I:\8270\Dakota\250313RVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 09:43:30 2025
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
99	T	Butyl benzyl phthalate	0.517	0.503	2.7	89	0.00
106	I	IS1_Chrysene-d12	1.000	1.000	0.0	104	0.00
107	T	Benzo(a)anthracene	1.355	1.201	11.4	100	0.00
108	T	3,3'-Dichlorobenzidine	0.505	0.468	7.3	97	0.00
109	T	Chrysene	1.349	1.167	13.5	99	0.00
110	T	Bis(2-ethylhexyl)phthalate	0.726	0.637	12.3	90	0.00
111	T	Di-n-octylphthalate	1.212	1.067	12.0	91	0.00
112	T	Benzo(b)fluoranthene	1.420	1.371	3.5	109	0.00
113	T	Benzo(k)fluoranthene	1.383	1.295	6.4	99	0.00
114	T	Benzo(a)pyrene	1.267	1.249	1.4	105	0.00
115	I	IS1_Perylene-d12	1.000	1.000	0.0	108	0.00
116	T	Indeno(1,2,3-cd)pyrene	1.234	1.140	7.6	105	0.00
117	T	Dibenzo(a,h)anthracene	1.213	1.155	4.8	106	0.00
118	T	Benzo(ghi)perylene	1.192	1.169	1.9	112	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250313RVT\
Data File : ABN0313.D
Acq On : 13 Mar 2025 8:16 am
Operator : Dakota:smz
Sample : wg2040097-3,32,,ABN 11297 gmr0304B
Misc : wg2040097,,ical21680
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Mar 13 09:42:38 2025
Quant Method : I:\8270\Dakota\250313RVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 09:43:30 2025
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	4.280	152	21338	4.000	ug/ml		0.00
37) IS1_Naphthalene-d8	5.520	136	81396	4.000	ug/ml		0.00
65) IS1_Acenaphthene-d10	7.214	164	59061	4.000	ug/ml		0.00
90) IS1_Phenanthrene-d10	8.628	188	138043	4.000	ug/ml	#	0.00
106) IS1_Chrysene-d12	11.202	240	179826	4.000	ug/ml	#	0.00
115) IS1_Perylene-d12	12.625	264	218659	4.000	ug/ml		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	3.002	112	22863	4.168	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 208.40%#				
7) Phenol-d6	4.000	99	29670	4.223	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 211.15%#				
19) Nitrobenzene-d5	4.833	82	29704	4.659	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 465.90%#				
48) 2-Fluorobiphenyl	6.595	172	98706	4.900	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 490.00%#				
81) 2,4,6-Tribromophenol	7.975	330	21223	5.027	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 251.35%#				
98) 4-Terphenyl-d14	10.198	244	193238	4.838	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 483.80%#				
Target Compounds							Qvalue
2) n-Nitrosodimethylamine	1.604	74	13768	4.095	ug/ml	#	83
3) Pyridine	1.632	79	19282M1	3.789	ug/ml		
5) Aniline	3.966	93	36415	4.357	ug/ml		98
6) 2-Chlorophenol	4.081	128	29083	4.450	ug/ml	#	85
8) Phenol	4.009	94	31507	4.157	ug/ml		95
9) Bis(2-chloroethyl)ether	4.056	93	22170	4.085	ug/ml		90
10) 1,3-Dichlorobenzene	4.221	146	37085	4.409	ug/ml		95
11) 1,4-Dichlorobenzene	4.298	146	38309M3	4.461	ug/ml		
12) 1,2-Dichlorobenzene	4.445	146	36443	4.453	ug/ml		94
13) Benzyl alcohol	4.451	79	23111	4.658	ug/ml		99
14) Bis(2-chloroisopropyl)...	4.594	45	33312	3.481	ug/ml	#	41
15) 2-Methylphenol	4.600	108	25344	4.402	ug/ml		95
16) Hexachloroethane	4.768	117	12938	4.115	ug/ml	#	31
17) n-Nitrosodi-n-propylamine	4.721	70	18970	4.122	ug/ml	#	91
18) 3-Methylphenol/4-Methy...	4.762	108	27381	4.341	ug/ml		96
20) Nitrobenzene	4.852	77	30137	4.622	ug/ml		100
21) Isophorone	5.094	82	53329	4.449	ug/ml		96
22) 2-Nitrophenol	5.169	139	17254	5.227	ug/ml	#	85

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250313RVT\
Data File : ABN0313.D
Acq On : 13 Mar 2025 8:16 am
Operator : Dakota:smz
Sample : wg2040097-3,32,,ABN 11297 gmr0304B
Misc : wg2040097,,ical21680
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Mar 13 09:42:38 2025
Quant Method : I:\8270\Dakota\250313RVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 09:43:30 2025
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) 2,4-Dimethylphenol	5.265	107	31906	5.434	ug/ml	99
24) Bis(2-chloroethoxy)met...	5.340	93	32579	4.363	ug/ml#	96
25) 2,4-Dichlorophenol	5.414	162	33800	4.931	ug/ml#	91
26) 1,2,4-Trichlorobenzene	5.480	180	39808	4.798	ug/ml	97
38) Naphthalene	5.539	128	97246	4.344	ug/ml	98
39) Benzoic Acid	5.355	105	12859	2.775	ug/ml	91
40) 4-Chloroaniline	5.623	65	11063	4.496	ug/ml#	64
41) Hexachlorobutadiene	5.697	225	25929	4.931	ug/ml	98
42) p-Chloro-m-cresol	6.138	107	29213	4.953	ug/ml	93
43) 2-Methylnaphthalene	6.219	142	68133	4.398	ug/ml	96
44) 1-Methylnaphthalene	6.309	115	24821	5.039	ug/ml	97
45) Hexachlorocyclopentadiene	6.390	237	34475	6.223	ug/ml	98
46) 2,4,6-Trichlorophenol	6.518	196	30467	5.224	ug/ml	99
47) 2,4,5-Trichlorophenol	6.549	196	33573	5.149	ug/ml	99
49) 2-Chloronaphthalene	6.679	162	82700	4.768	ug/ml	93
50) 2-Nitroaniline	6.801	138	22176	4.996	ug/ml#	78
51) 1,4-Dinitrobenzene	6.937	168	11411M3	5.919	ug/ml	
52) 1,3-Dinitrobenzene	7.012	168	12834	5.558	ug/ml#	1
53) Dimethyl phthalate	7.009	163	101270	5.023	ug/ml#	97
54) Acenaphthylene	7.071	152	134162	5.267	ug/ml	100
55) 2,6-Dinitrotoluene	7.049	165	20734	5.509	ug/ml#	73
56) 1,2-Dinitrobenzene	7.086	168	8246	6.118	ug/ml#	53
66) 3-Nitroaniline	7.198	138	21648	4.747	ug/ml	84
67) Acenaphthene	7.245	154	73089	4.255	ug/ml	86
68) 2,4-Dinitrophenol	7.304	184	9985	3.718	ug/ml#	80
69) Dibenzofuran	7.413	168	128233	4.329	ug/ml#	85
70) 2,4-Dinitrotoluene	7.431	165	30629	5.358	ug/ml#	70
71) 4-Nitrophenol	7.419	65	17674	5.198	ug/ml#	1
72) 2,3,5,6-Tetrachlorophenol	7.512	232	31079	4.823	ug/ml	99
73) 2,3,4,6-Tetrachlorophenol	7.556	232	30937	4.897	ug/ml	99
74) Diethyl phthalate	7.696	149	103081	4.434	ug/ml	98
75) Fluorene	7.742	166	102856	4.534	ug/ml	92
76) 4-Chlorophenyl phenyl ...	7.767	204	54398	4.653	ug/ml#	85
77) 4-Nitroaniline	7.783	138	22866	5.187	ug/ml#	73
78) 4,6-Dinitro-o-cresol	7.820	198	18854	5.456	ug/ml#	56
79) NDPA/DPA	7.885	169	90444	4.583	ug/ml	94
80) Azobenzene	7.913	77	79870	4.224	ug/ml	94
82) 4-Bromophenyl phenyl e...	8.230	248	36221	4.704	ug/ml#	79
83) Hexachlorobenzene	8.277	284	46785	4.827	ug/ml#	76
84) Pentachlorophenol	8.476	266	27955	5.321	ug/ml	100
91) Phenanthrene	8.650	178	177118	4.340	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250313RVT\
Data File : ABN0313.D
Acq On : 13 Mar 2025 8:16 am
Operator : Dakota:smz
Sample : wg2040097-3,32,,ABN 11297 gmr0304B
Misc : wg2040097,,ical21680
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Mar 13 09:42:38 2025
Quant Method : I:\8270\Dakota\250313RVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 09:43:30 2025
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
92)	Anthracene	8.700	178	177326	4.430	ug/ml	98
93)	Carbazole	8.877	167	165979	4.518	ug/ml	98
94)	Di-n-butylphthalate	9.278	149	184788	4.437	ug/ml	98
95)	Fluoranthene	9.790	202	230987	4.706	ug/ml#	90
96)	Benzidine	9.955	184	145856	5.476	ug/ml#	92
97)	Pyrene	9.999	202	248886	4.746	ug/ml	99
99)	Butyl benzyl phthalate	10.717	149	86727	4.862	ug/ml#	81
107)	Benzo(a)anthracene	11.192	228	270029	4.432	ug/ml	99
108)	3,3'-Dichlorobenzidine	11.205	252	105224	4.635	ug/ml#	95
109)	Chrysene	11.230	228	262392	4.327	ug/ml	99
110)	Bis(2-ethylhexyl)phtha...	11.345	149	143192	4.385	ug/ml#	90
111)	Di-n-octylphthalate	12.003	149	239919	4.404	ug/ml#	71
112)	Benzo(b)fluoranthene	12.268	252	308072	4.826	ug/ml#	92
113)	Benzo(k)fluoranthene	12.293	252	291056	4.680	ug/ml#	91
114)	Benzo(a)pyrene	12.569	252	280677	4.928	ug/ml#	90
116)	Indeno(1,2,3-cd)pyrene	13.561	276	311473	4.617	ug/mL#	85
117)	Dibenzo(a,h)anthracene	13.585	278	315611	4.761	ug/ml#	87
118)	Benzo(ghi)perylene	13.769	276	319629	4.905	ug/ml#	82

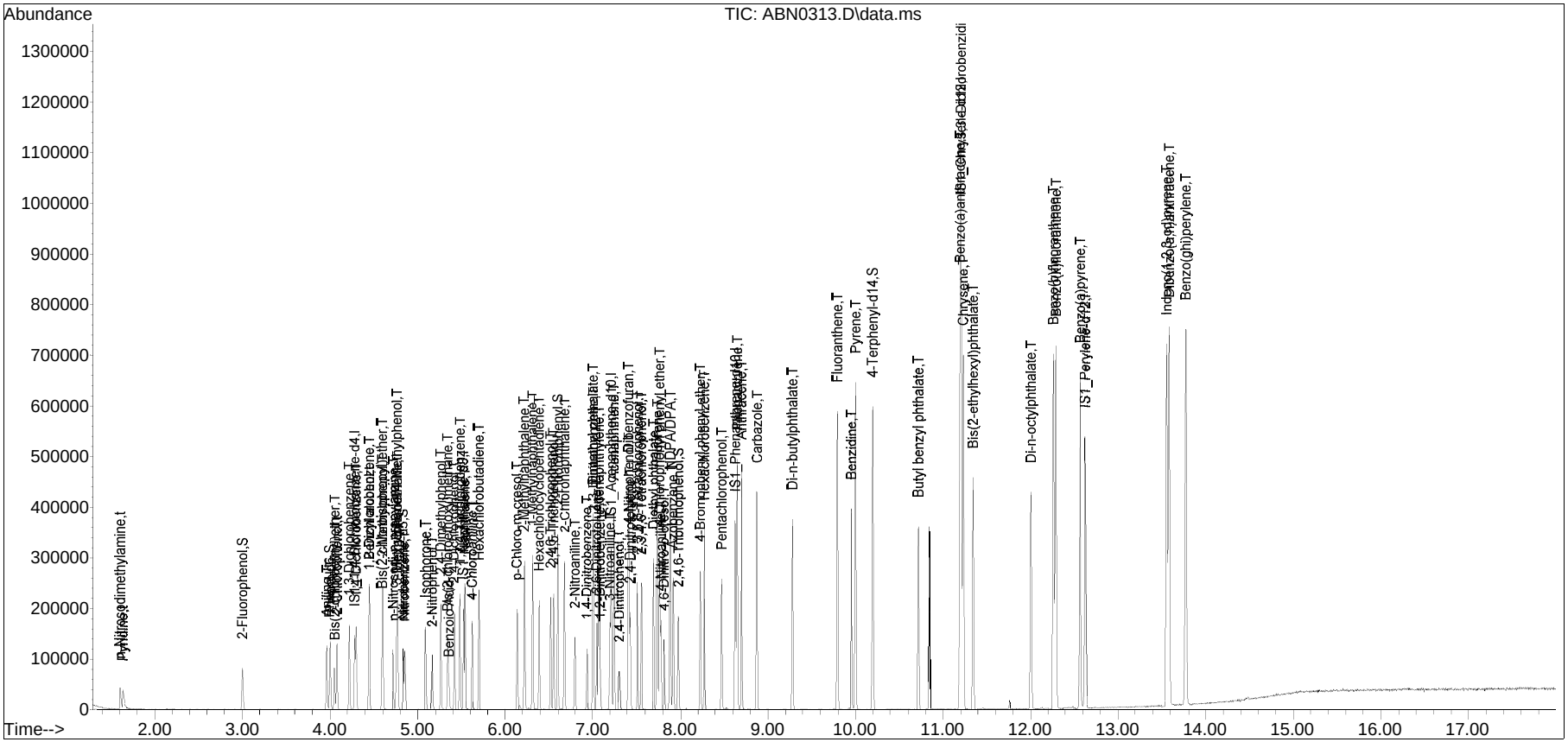
(#) = qualifier out of range (m) = manual integration (+) = signals summed

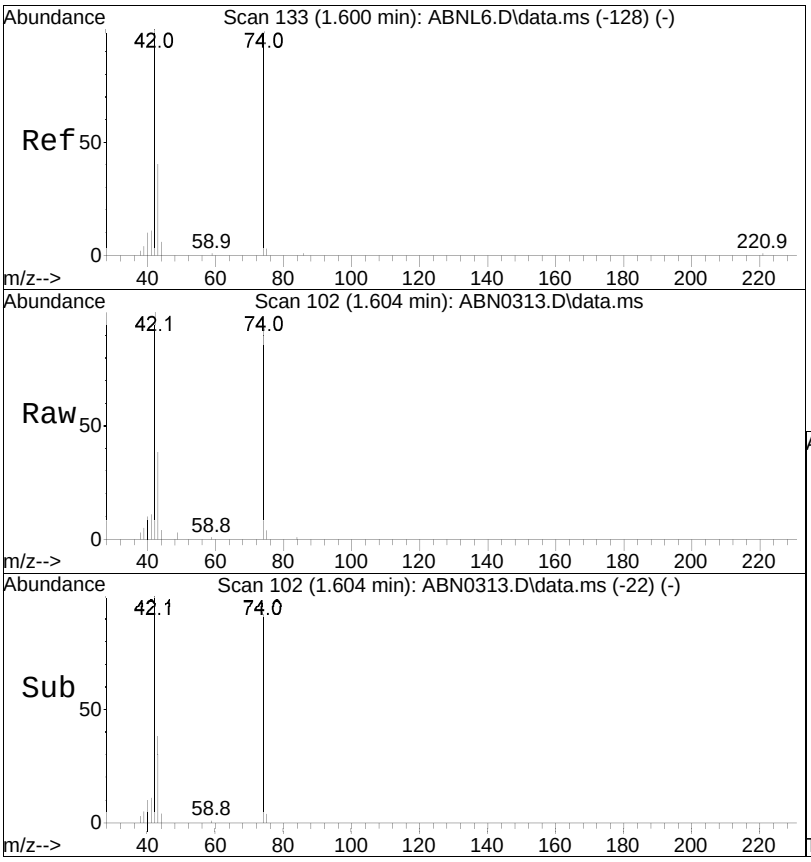
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250313RVT\
Data File : ABN0313.D
Acq On : 13 Mar 2025 8:16 am
Operator : Dakota:smz
Sample : wg2040097-3,32,,ABN 11297 gmr0304B
Misc : wg2040097,,ical21680
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Mar 13 09:42:38 2025
Quant Method : I:\8270\Dakota\250313RVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 09:43:30 2025
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

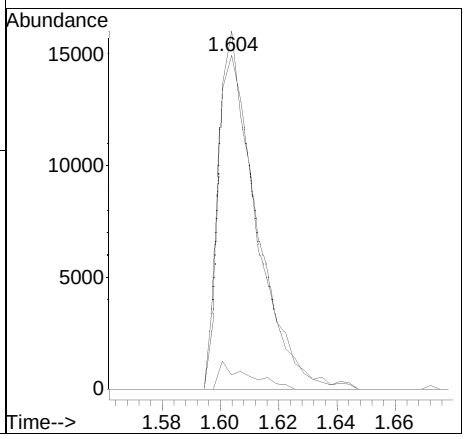


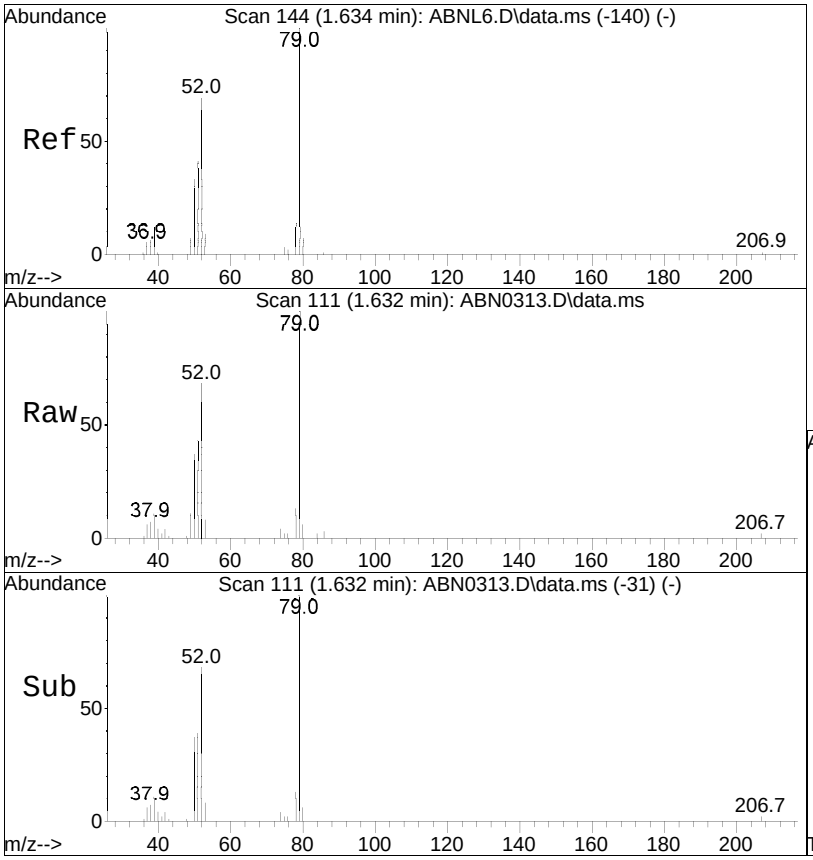


#2
n-Nitrosodimethylamine
Concen: 4.09 ug/ml
RT: 1.604 min Scan# 102
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion: 74 Resp: 13768

Ion	Ratio	Lower	Upper
74	100		
42	104.8	100.0	150.0
44	6.2	6.7	10.1#

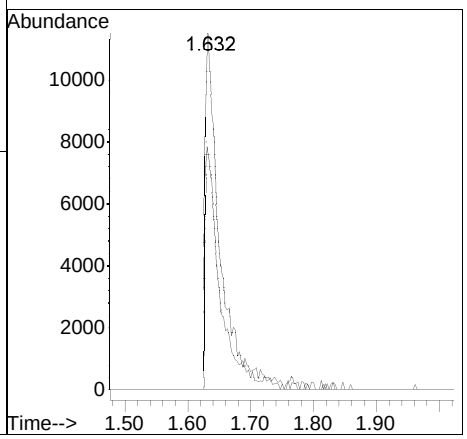


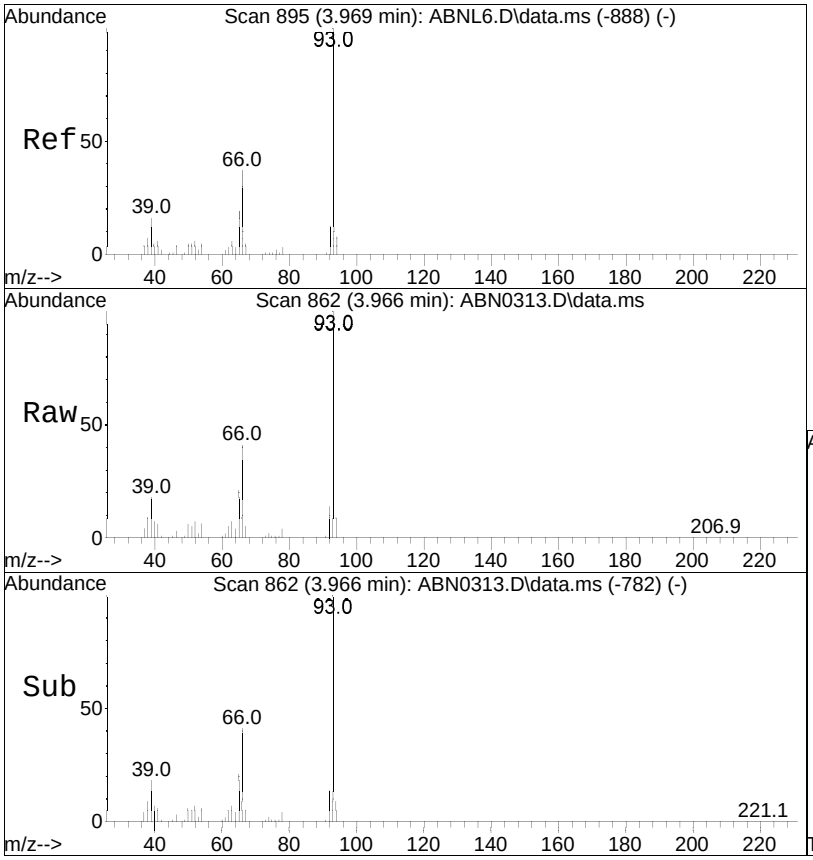


#3
Pyridine
Concen: 3.79 ug/ml M1
RT: 1.632 min Scan# 111
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion: 79 Resp: 19282

Ion	Ratio	Lower	Upper
79	100		
52	64.6	93.1	139.7#

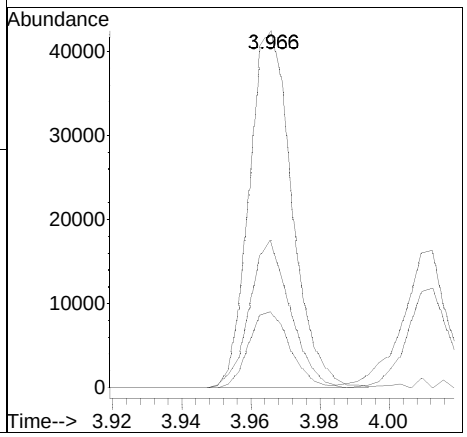


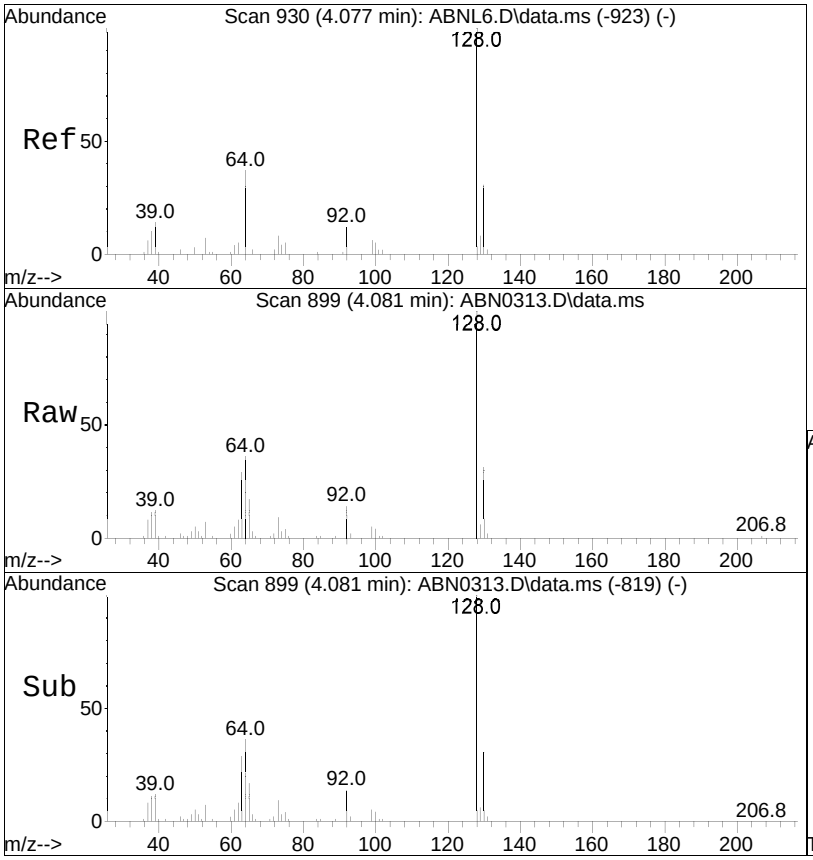


#5
Aniline
Concen: 4.36 ug/ml
RT: 3.966 min Scan# 862
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion: 93 Resp: 36415

Ion	Ratio	Lower	Upper
93	100		
66	39.5	32.6	49.0
65	20.7	17.6	26.4

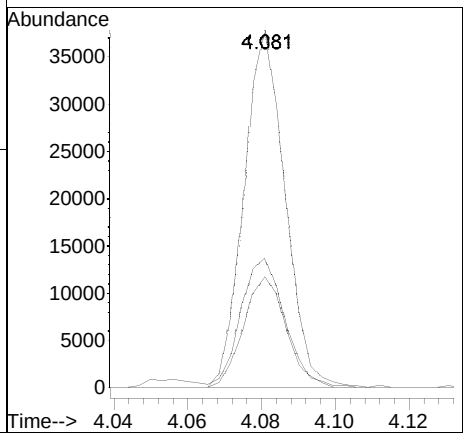


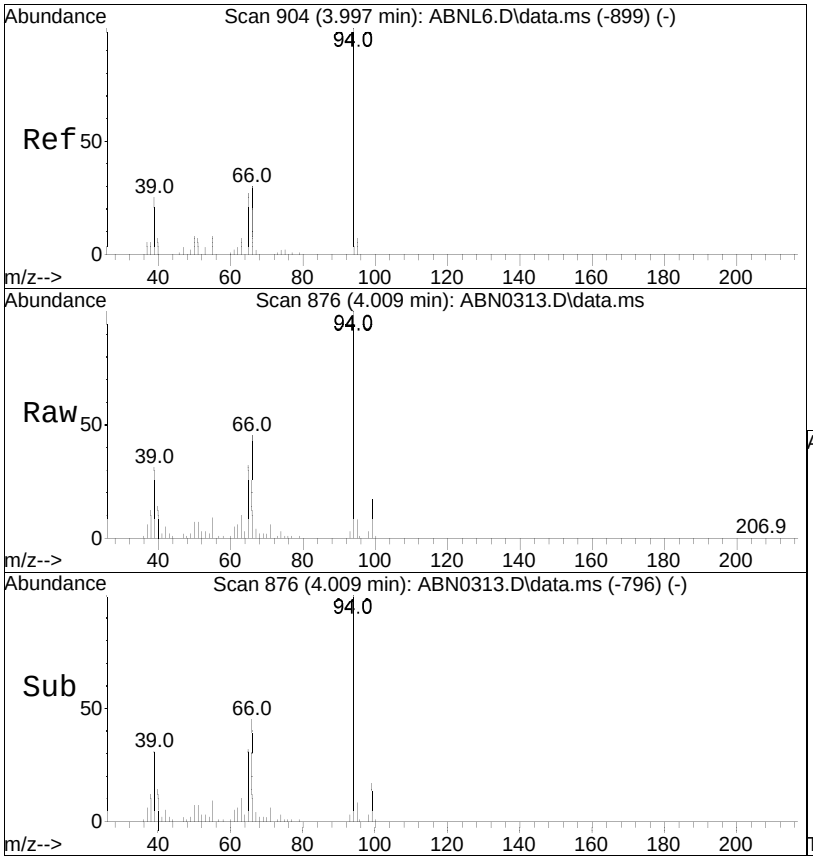


#6
2-Chlorophenol
Concen: 4.45 ug/ml
RT: 4.081 min Scan# 899
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:128 Resp: 29083

Ion	Ratio	Lower	Upper
128	100		
64	39.0	45.1	67.7#
130	32.4	26.2	39.4

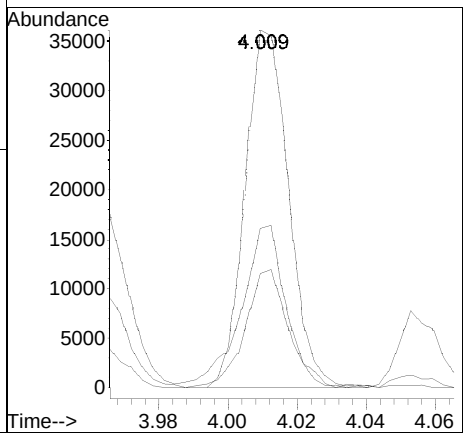


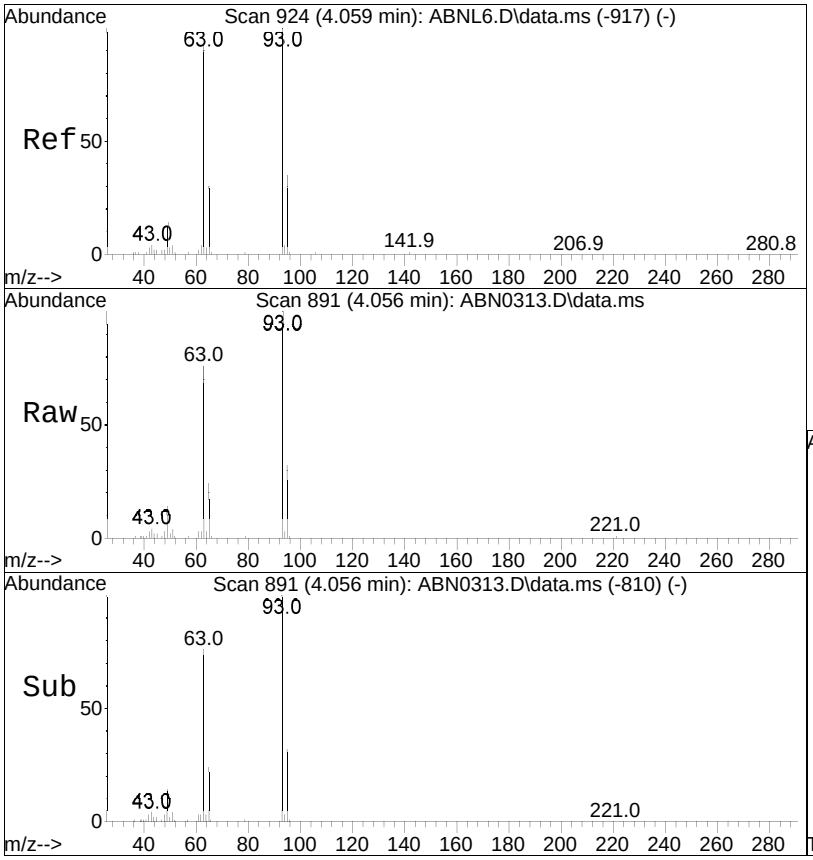


#8
Phenol
Concen: 4.16 ug/ml
RT: 4.009 min Scan# 876
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion: 94 Resp: 31507

Ion	Ratio	Lower	Upper
94	100		
65	32.3	26.0	39.0
66	47.3	33.8	50.8

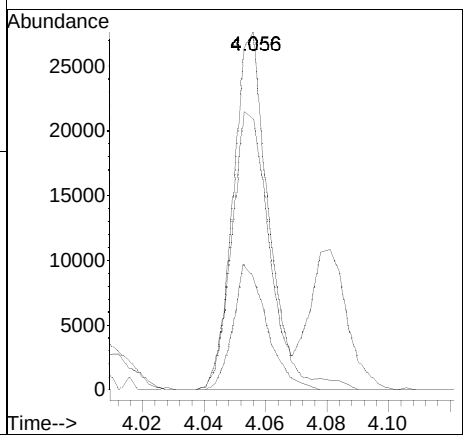


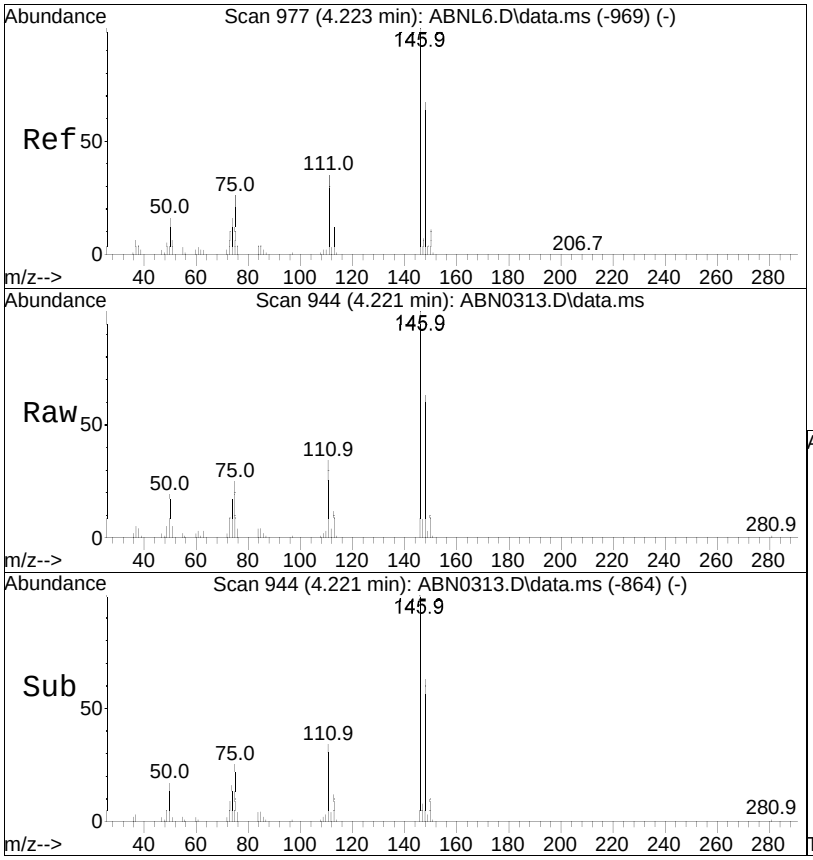


#9
Bis(2-chloroethyl)ether
Concen: 4.09 ug/ml
RT: 4.056 min Scan# 891
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion: 93 Resp: 22170

Ion	Ratio	Lower	Upper
93	100		
63	80.3	74.6	111.8
95	33.4	25.9	38.9

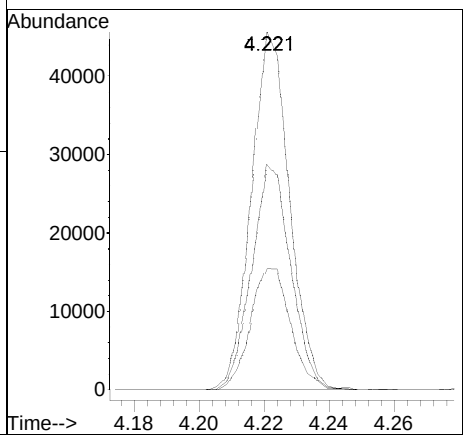


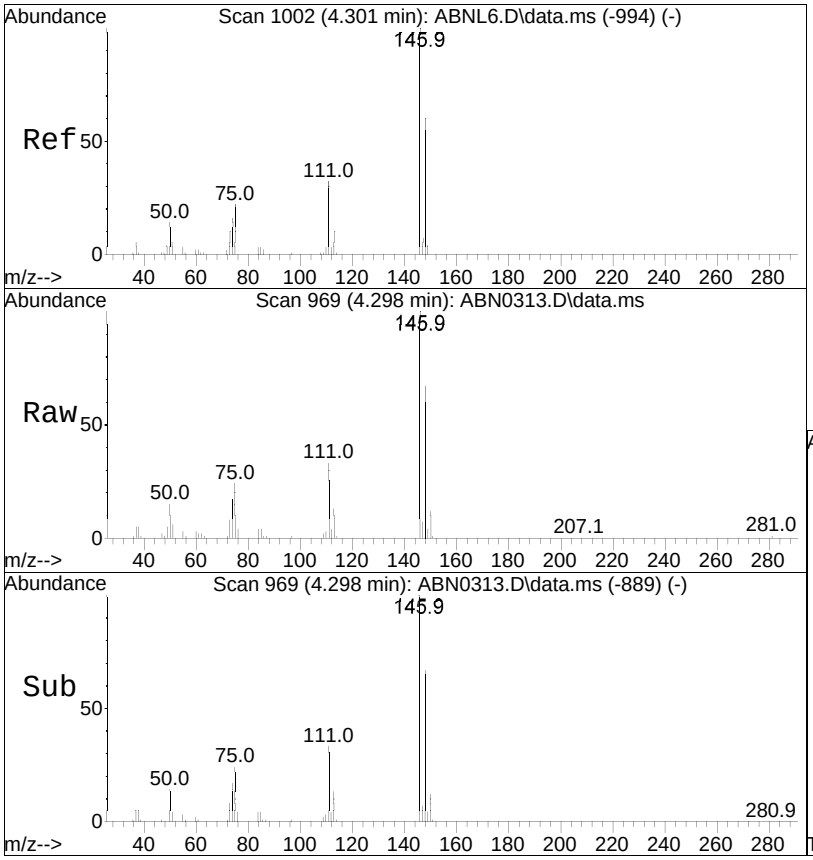


#10
1,3-Dichlorobenzene
Concen: 4.41 ug/ml
RT: 4.221 min Scan# 944
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:146 Resp: 37085

Ion	Ratio	Lower	Upper
146	100		
111	36.0	34.3	51.5
148	64.3	50.8	76.2

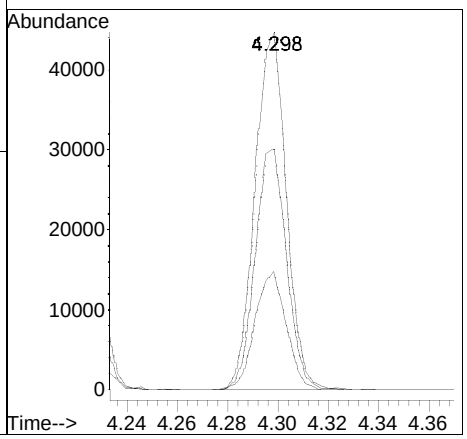


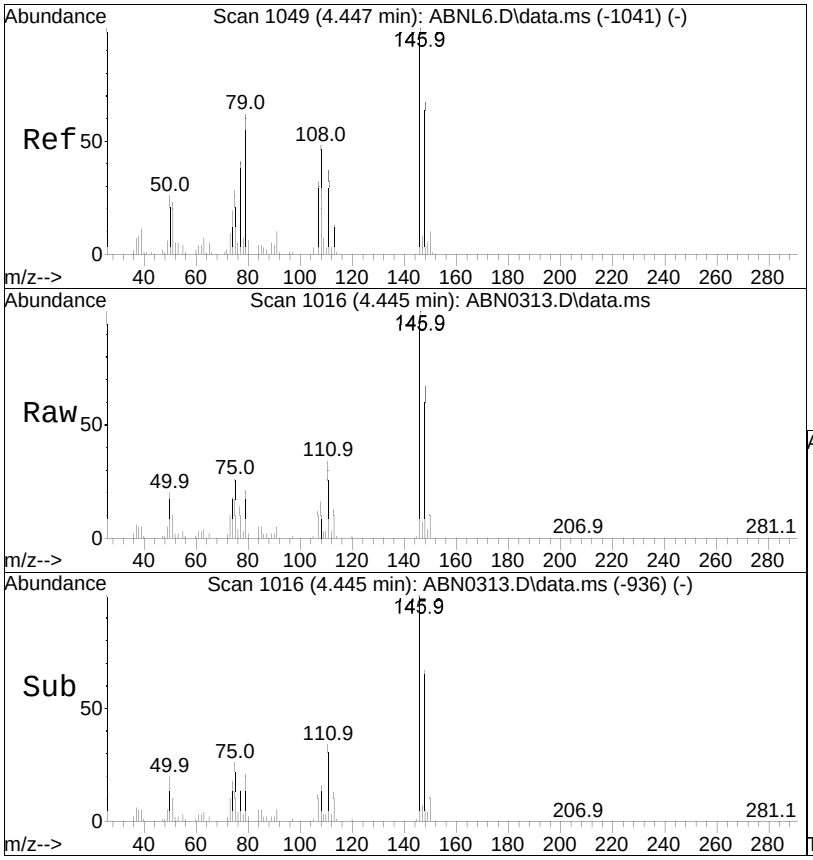


#11
1,4-Dichlorobenzene
Concen: 4.46 ug/ml M3
RT: 4.298 min Scan# 969
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:146 Resp: 38309

Ion	Ratio	Lower	Upper
146	100		
148	62.2	50.7	76.1
111	34.8	33.4	50.0

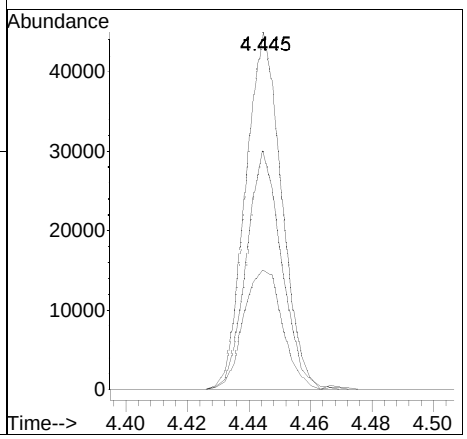


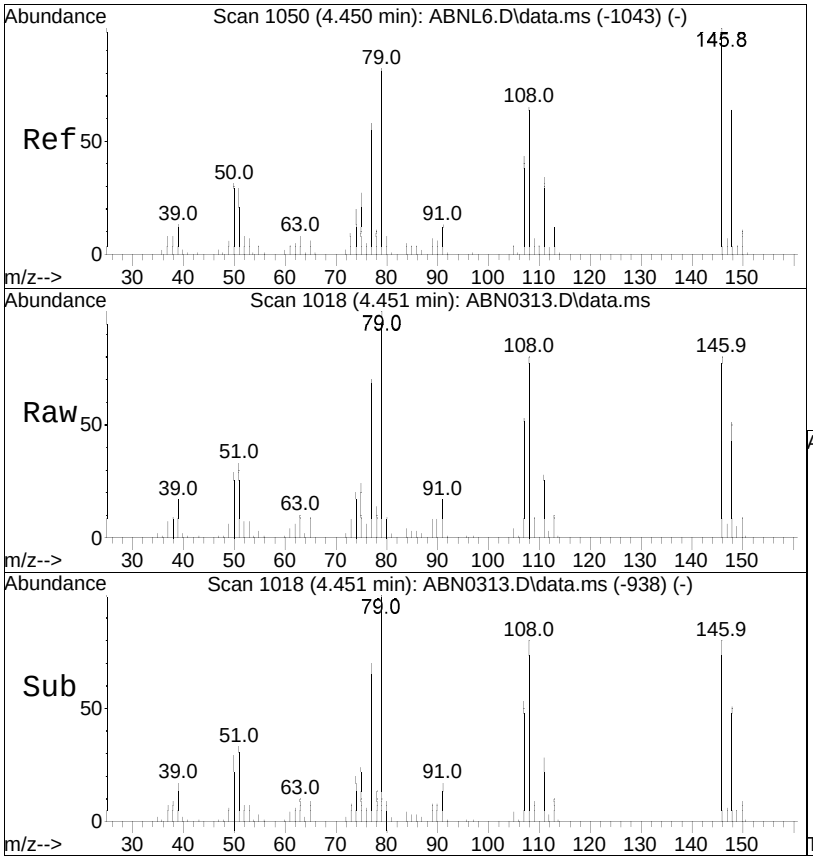


#12
1,2-Dichlorobenzene
Concen: 4.45 ug/ml
RT: 4.445 min Scan# 1016
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:146 Resp: 36443

Ion	Ratio	Lower	Upper
146	100		
111	36.5	34.6	52.0
148	65.3	50.2	75.4

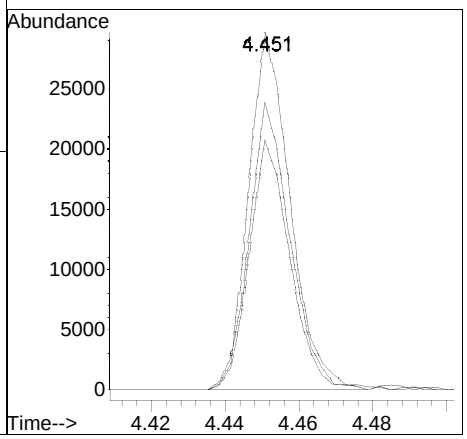


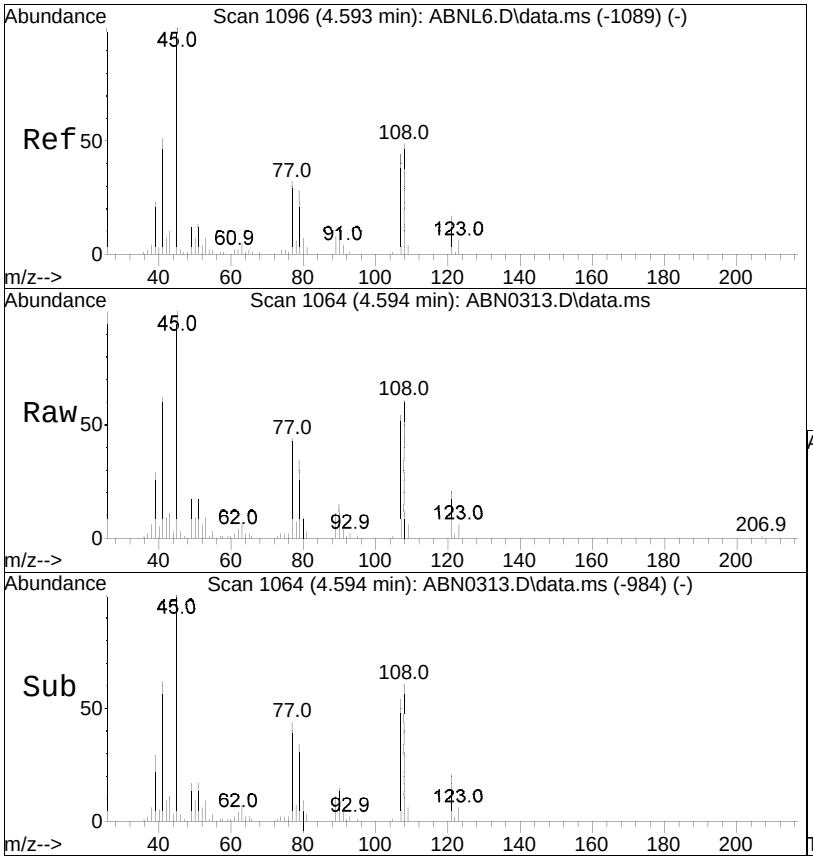


#13
Benzyl alcohol
Concen: 4.66 ug/ml
RT: 4.451 min Scan# 1018
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion: 79 Resp: 23111

Ion	Ratio	Lower	Upper
79	100		
77	68.5	54.9	82.3
108	80.0	63.1	94.7

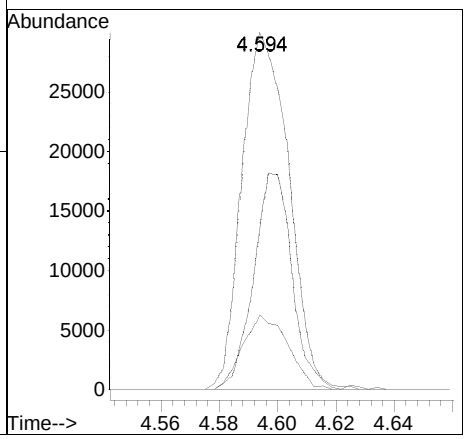


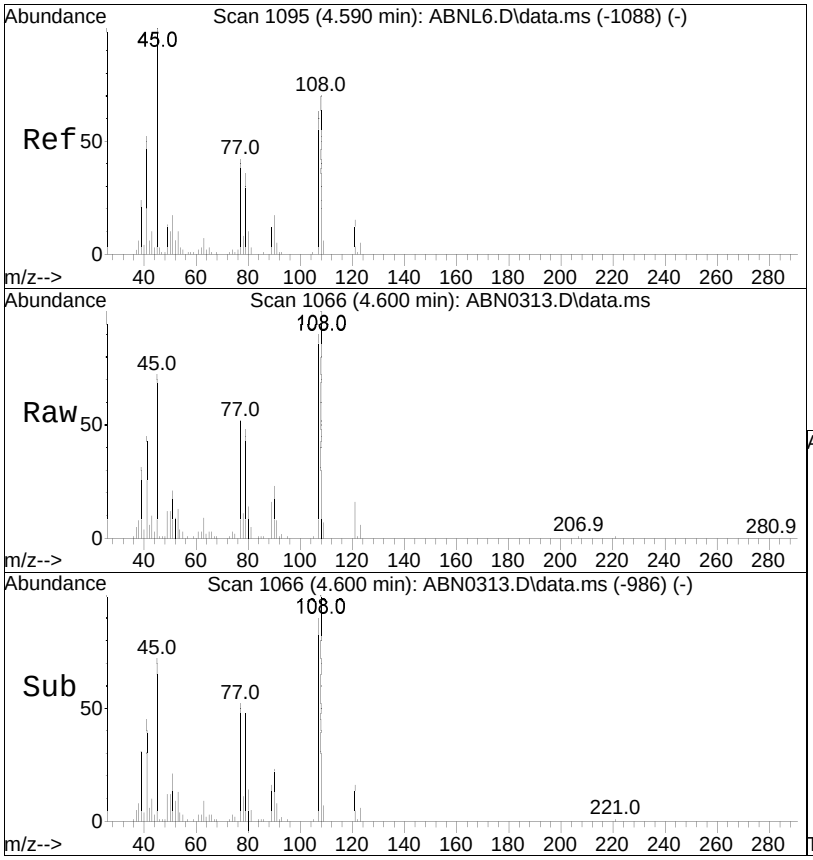


#14
Bis(2-chloroisopropyl)ether
Concen: 3.48 ug/ml
RT: 4.594 min Scan# 1064
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion: 45 Resp: 33312

Ion	Ratio	Lower	Upper
45	100		
121	20.2	9.8	14.6#
77	49.8	6.1	9.1#

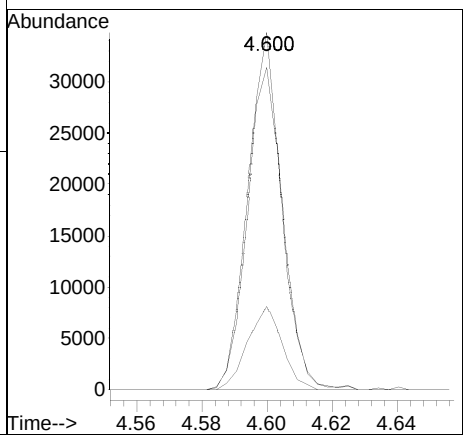


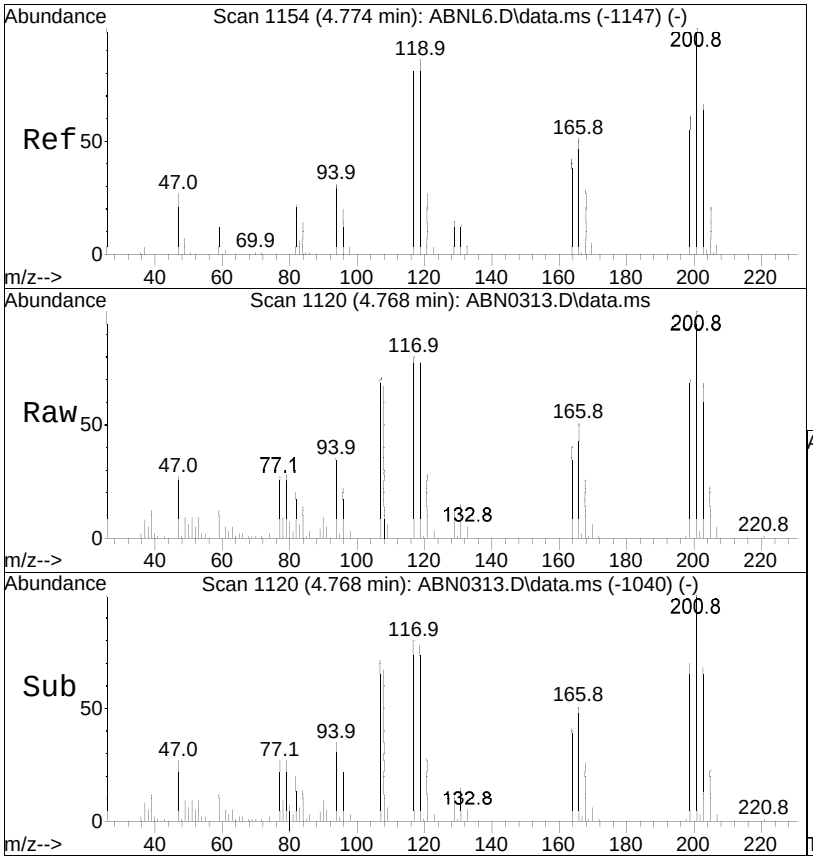


#15
2-Methylphenol
Concen: 4.40 ug/ml
RT: 4.600 min Scan# 1066
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:108 Resp: 25344

Ion	Ratio	Lower	Upper
108	100		
107	93.7	70.7	106.1
90	23.5	18.7	28.1

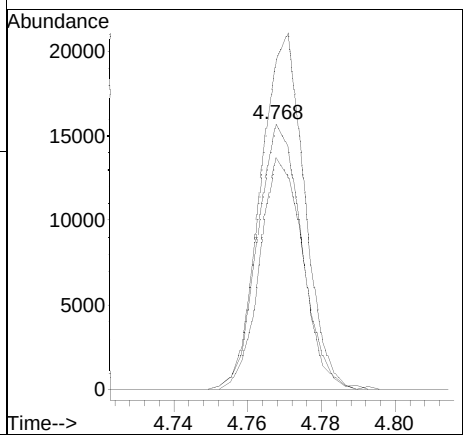


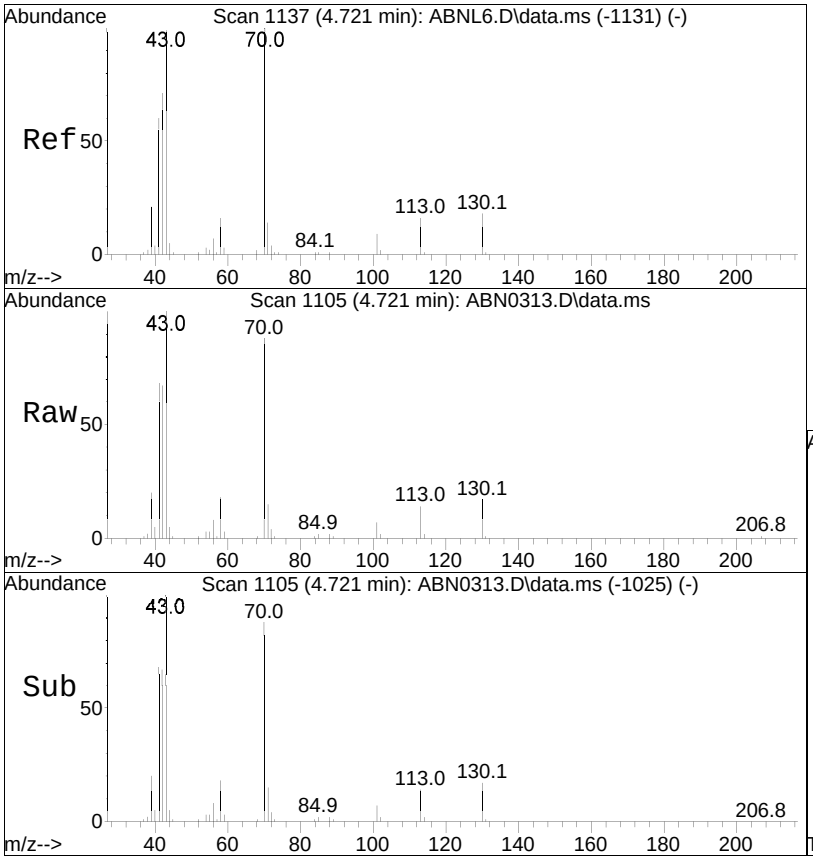


#16
Hexachloroethane
Concen: 4.12 ug/ml
RT: 4.768 min Scan# 1120
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:117 Resp: 12938

Ion	Ratio	Lower	Upper
117	100		
201	134.7	58.6	87.8#
199	87.3	36.9	55.3#

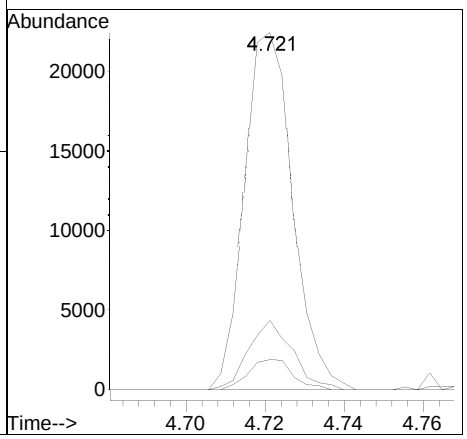


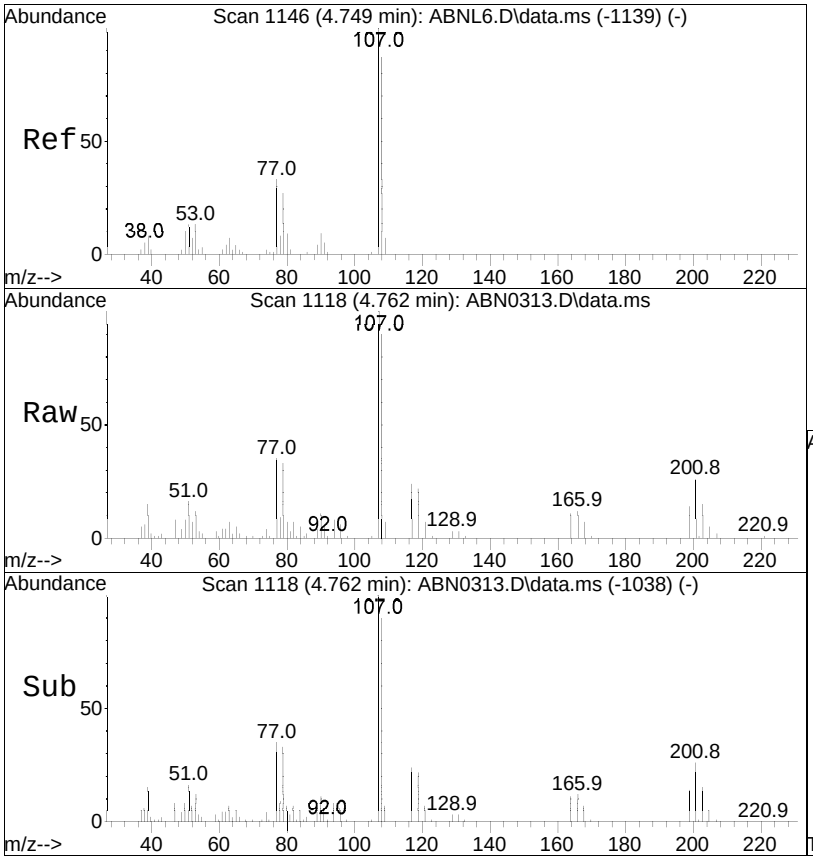


#17
n-Nitrosodi-n-propylamine
Concen: 4.12 ug/ml
RT: 4.721 min Scan# 1105
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion: 70 Resp: 18970

Ion	Ratio	Lower	Upper
70	100		
130	17.6	18.2	27.4#
101	7.8	7.8	11.8#

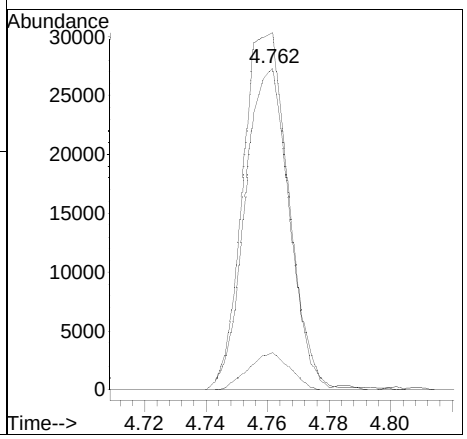


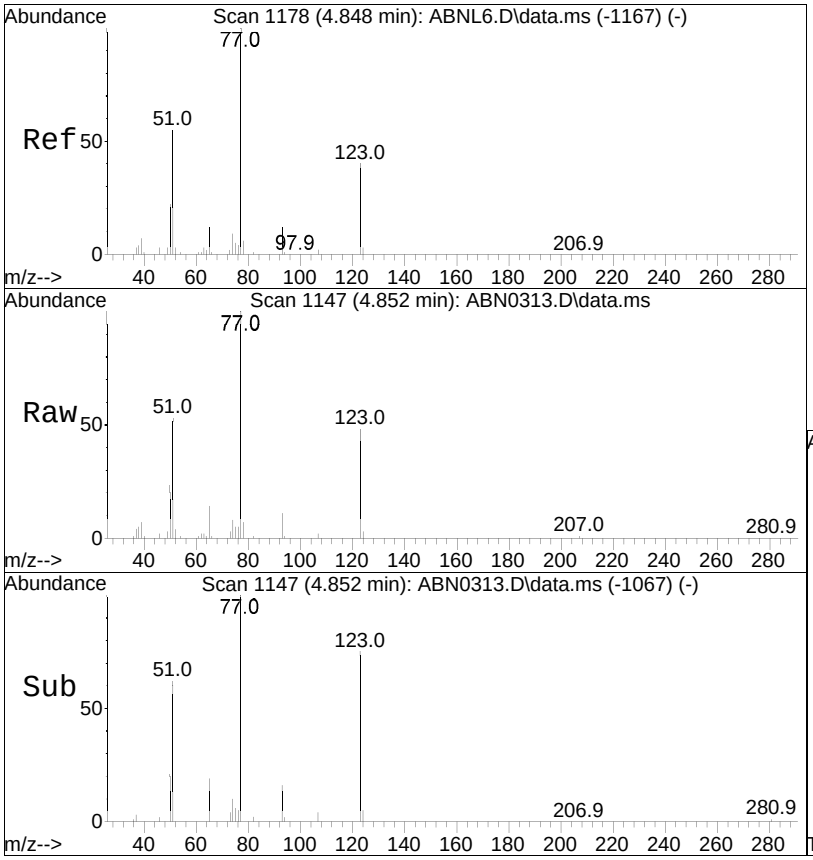


#18
3-Methylphenol/4-Methylphenol
Concen: 4.34 ug/ml
RT: 4.762 min Scan# 1118
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:108 Resp: 27381

Ion	Ratio	Lower	Upper
108	100		
107	115.2	88.6	132.8
90	10.9	8.8	13.2

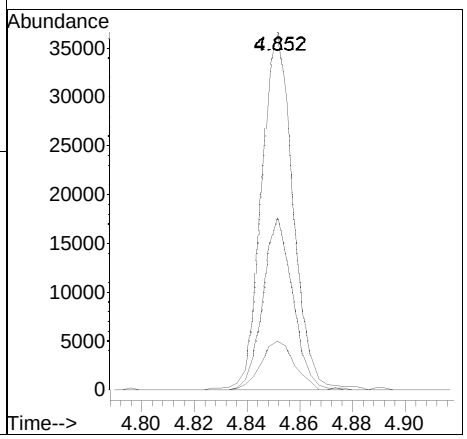


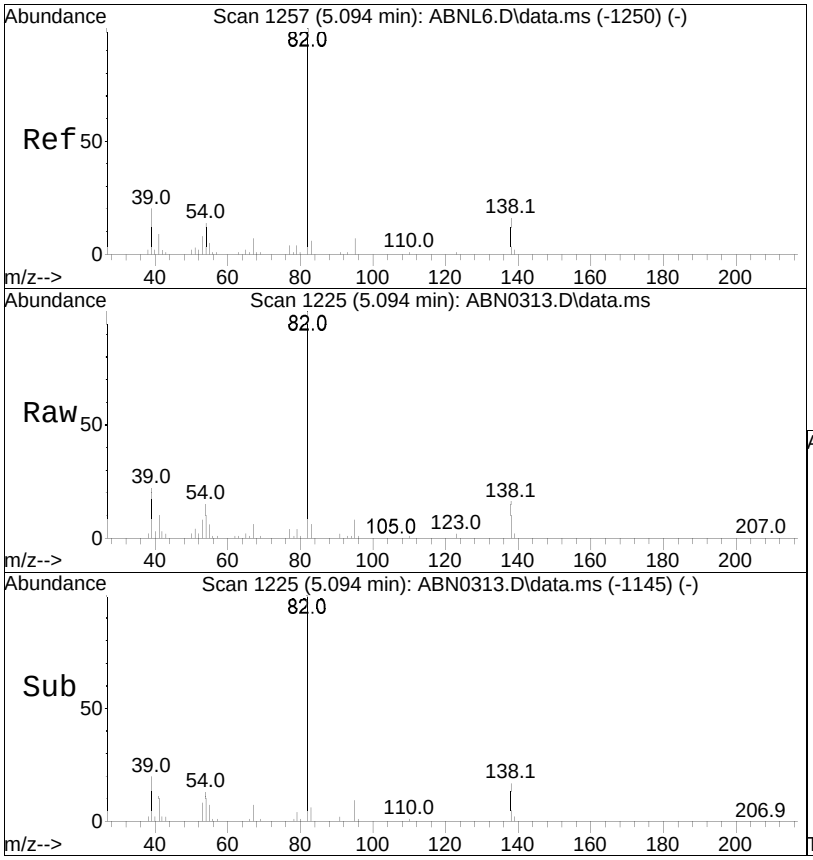


#20
Nitrobenzene
Concen: 4.62 ug/ml
RT: 4.852 min Scan# 1147
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion: 77 Resp: 30137

Ion	Ratio	Lower	Upper
77	100		
123	45.7	36.3	54.5
65	14.6	11.6	17.4

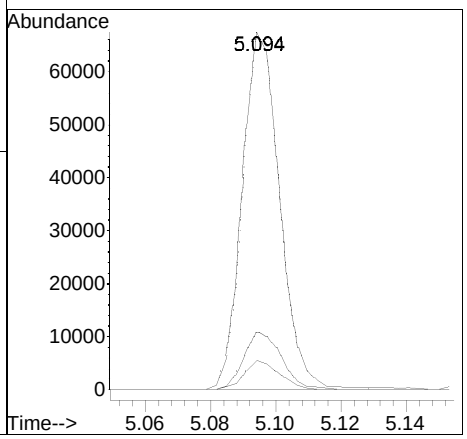


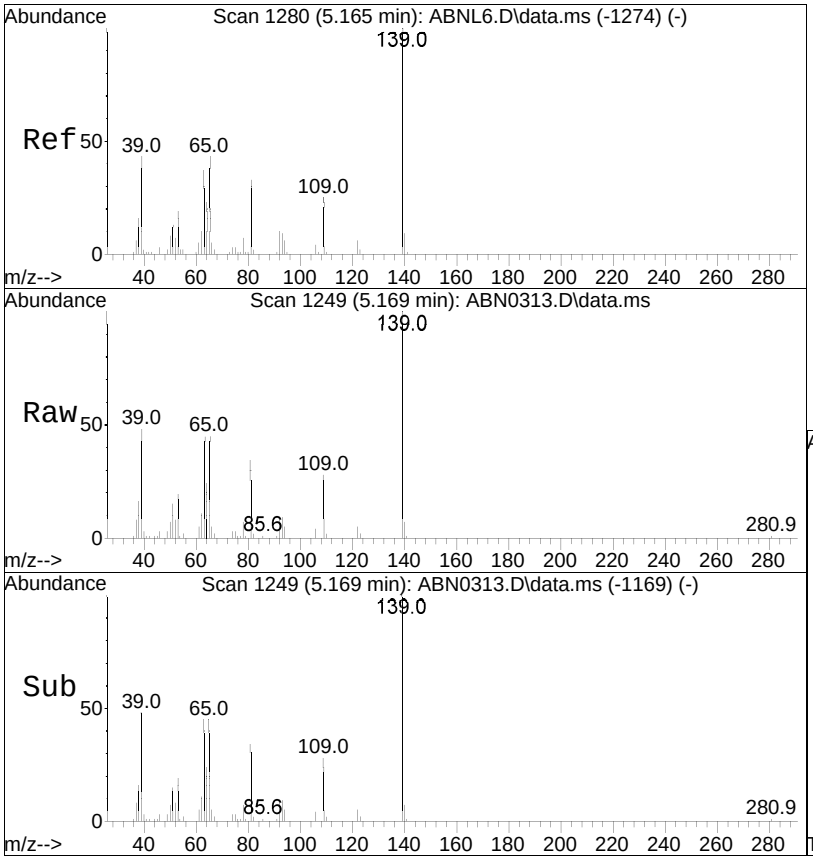


#21
Isophorone
Concen: 4.45 ug/ml
RT: 5.094 min Scan# 1225
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion: 82 Resp: 53329

Ion	Ratio	Lower	Upper
82	100		
138	16.3	14.7	22.1
95	7.7	5.2	7.8

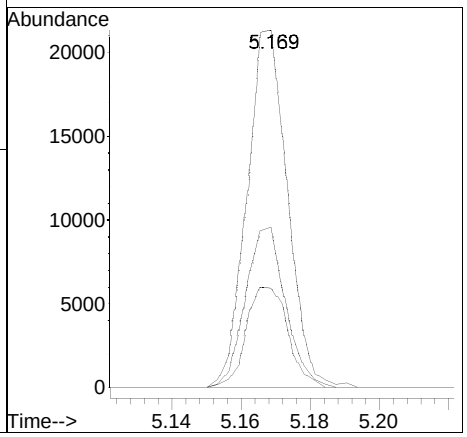


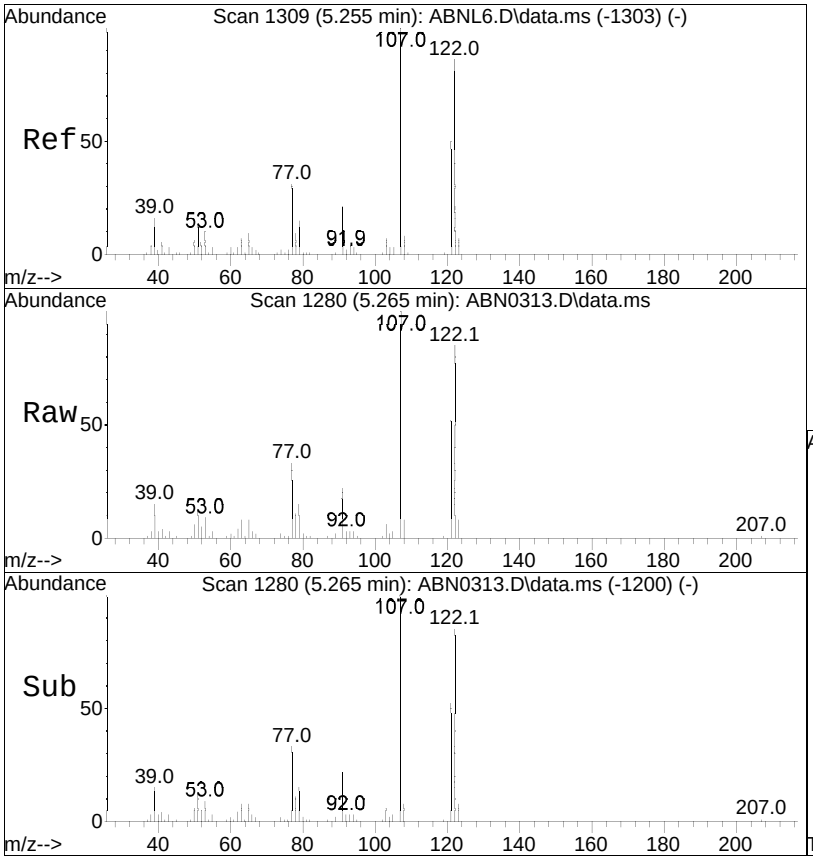


#22
2-Nitrophenol
Concen: 5.23 ug/ml
RT: 5.169 min Scan# 1249
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:139 Resp: 17254

Ion	Ratio	Lower	Upper
139	100		
109	29.1	19.4	29.0#
65	44.5	46.1	69.1#

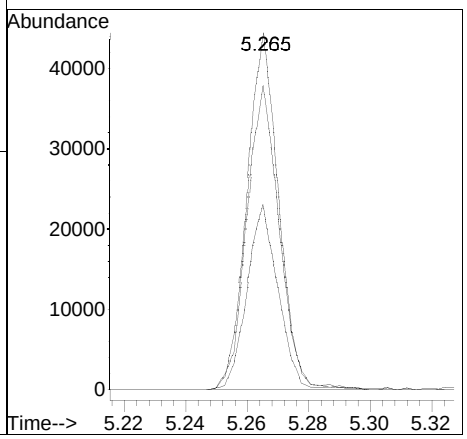


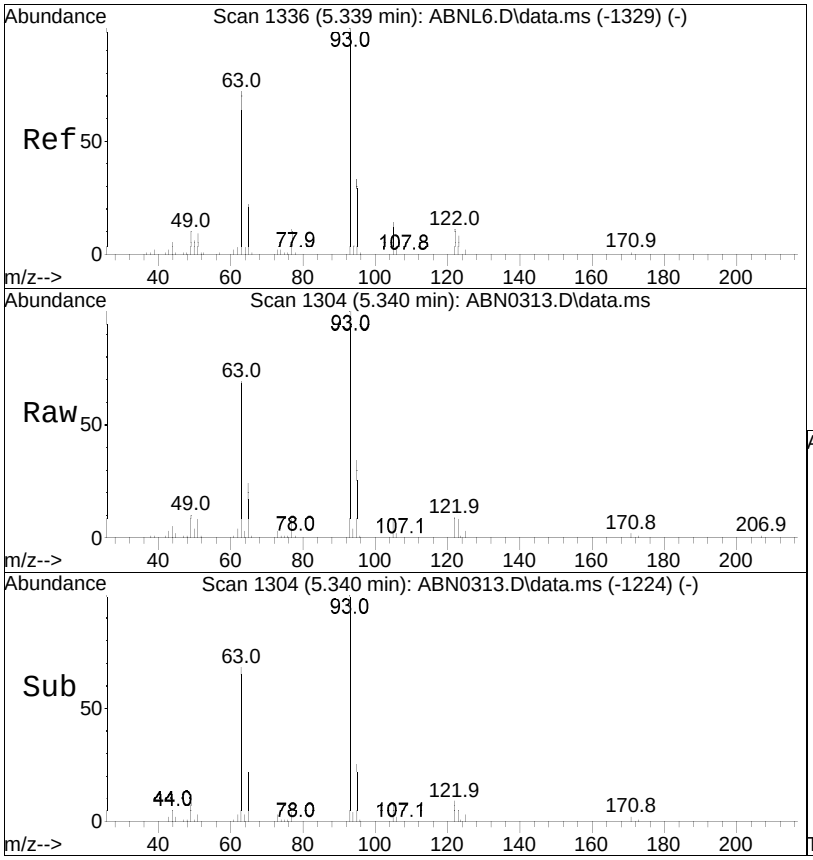


#23
2,4-Dimethylphenol
Concen: 5.43 ug/ml
RT: 5.265 min Scan# 1280
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:107 Resp: 31906

Ion	Ratio	Lower	Upper
107	100		
121	51.3	40.0	60.0
122	87.2	70.2	105.4

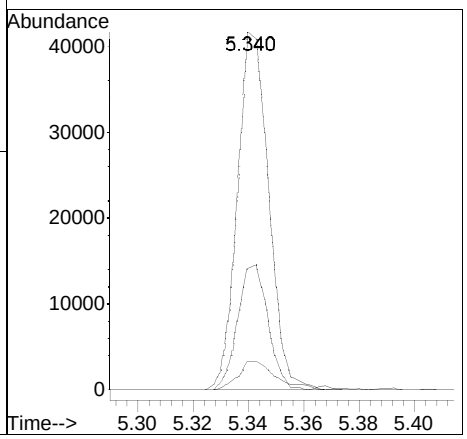


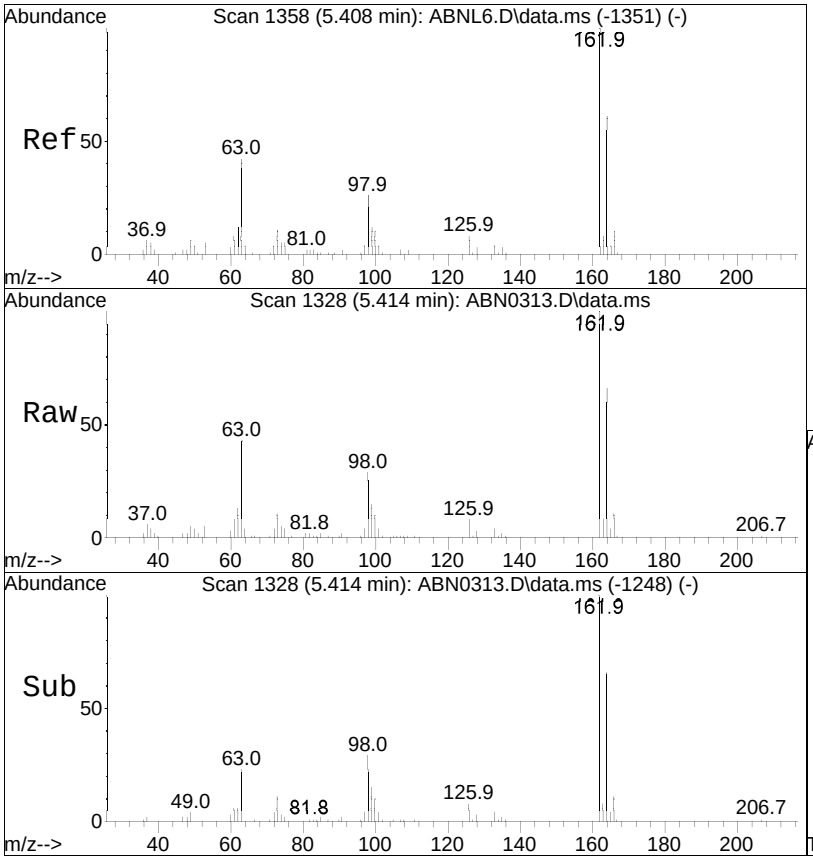


#24
Bis(2-chloroethoxy)methane
Concen: 4.36 ug/ml
RT: 5.340 min Scan# 1304
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion: 93 Resp: 32579

Ion	Ratio	Lower	Upper
93	100		
95	33.7	25.8	38.8
123	9.6	10.1	15.1#

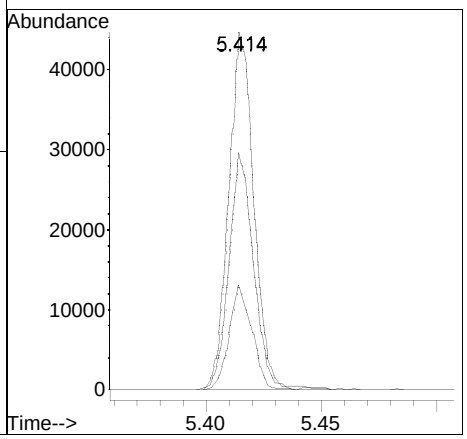


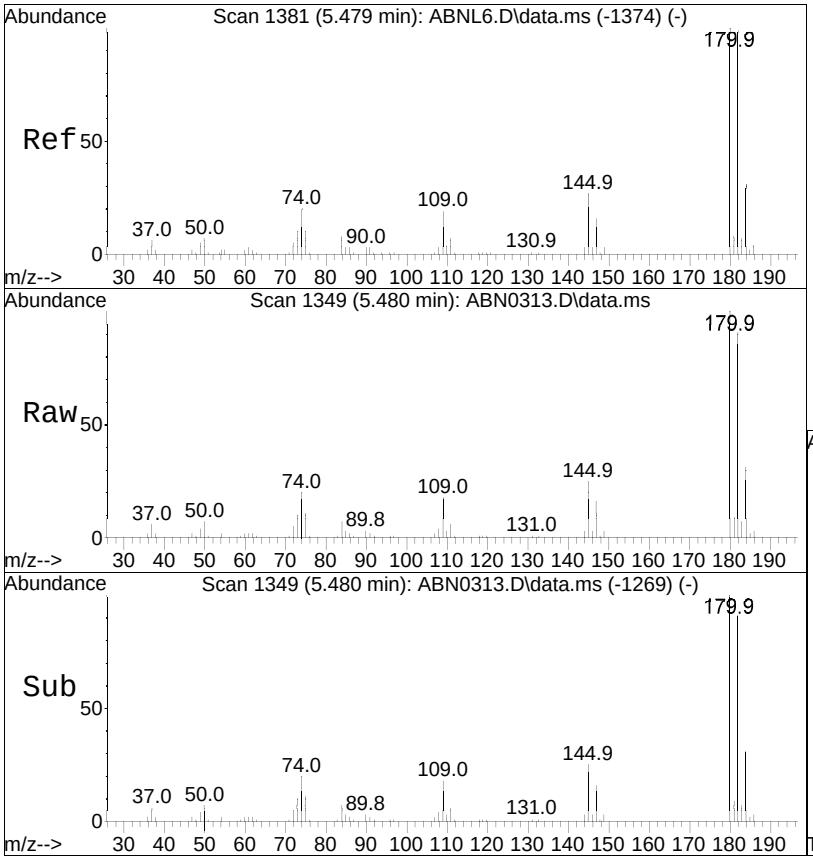


#25
2,4-Dichlorophenol
Concen: 4.93 ug/ml
RT: 5.414 min Scan# 1328
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:162 Resp: 33800

Ion	Ratio	Lower	Upper
162	100		
164	64.0	51.0	76.4
98	26.6	32.2	48.2#

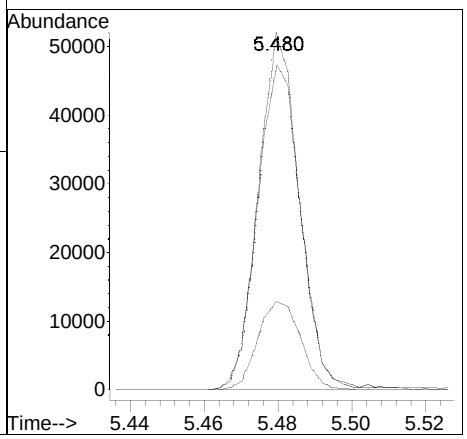


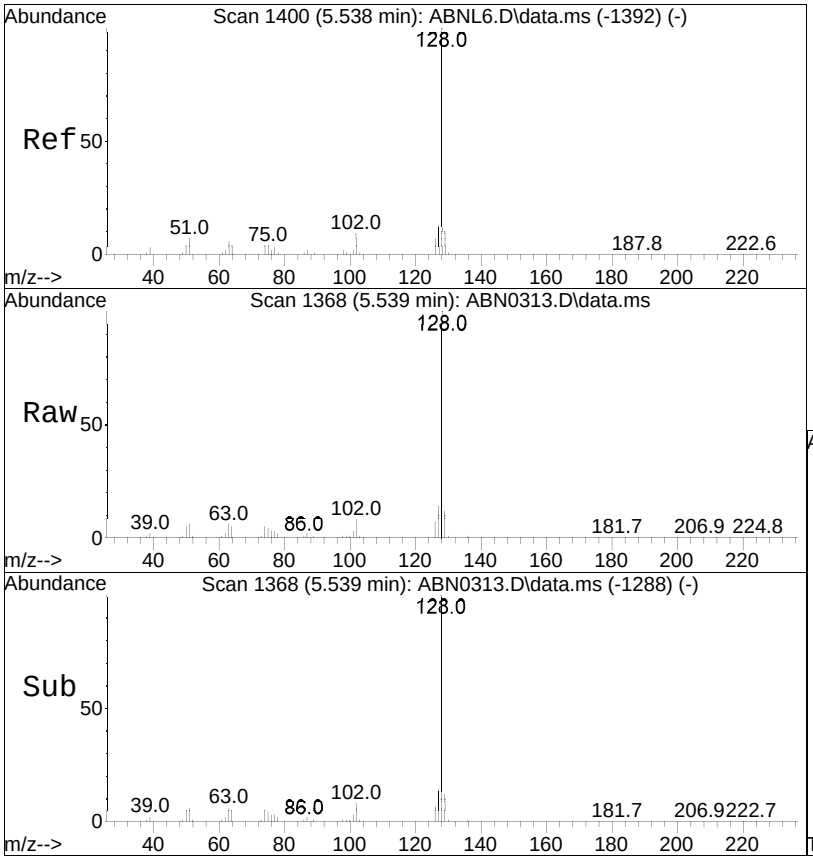


#26
1,2,4-Trichlorobenzene
Concen: 4.80 ug/ml
RT: 5.480 min Scan# 1349
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:180 Resp: 39808

Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.0	114.0
145	26.1	25.7	38.5

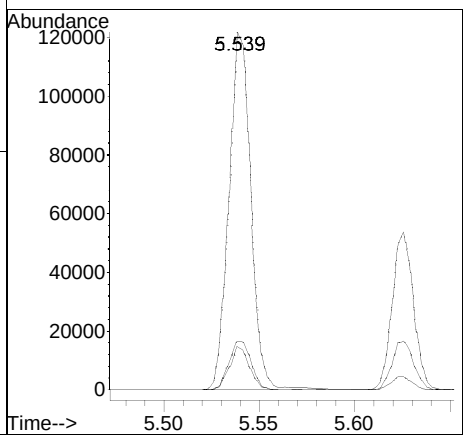


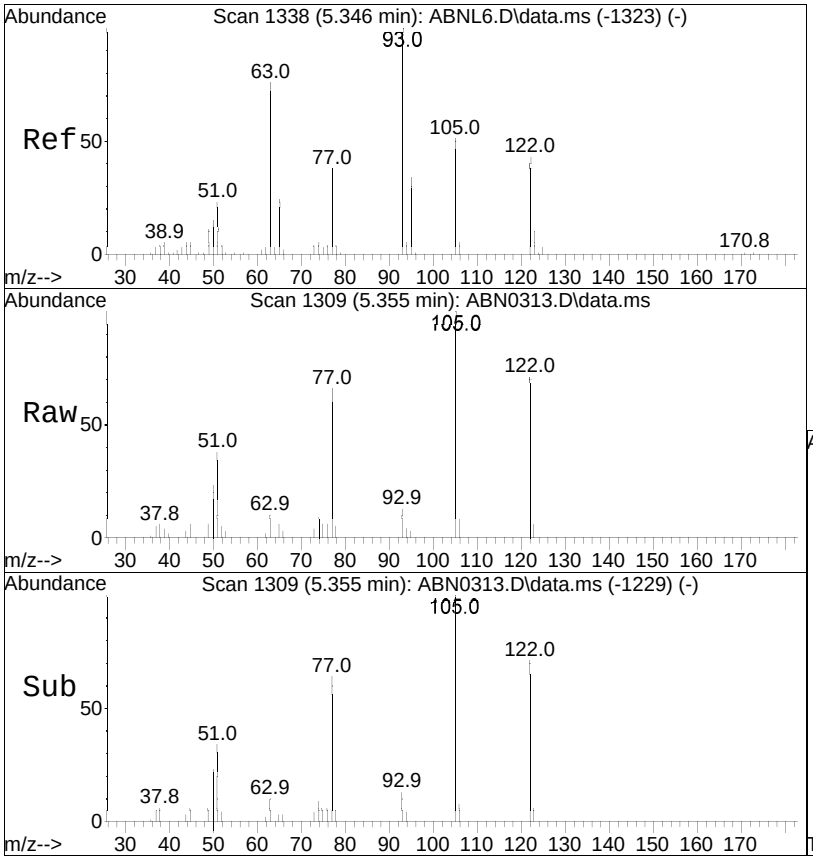


#38
Naphthalene
Concen: 4.34 ug/ml
RT: 5.539 min Scan# 1368
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:128 Resp: 97246

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.7	13.1
127	13.9	10.3	15.5

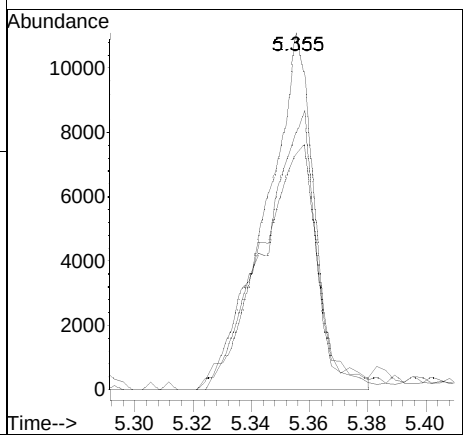


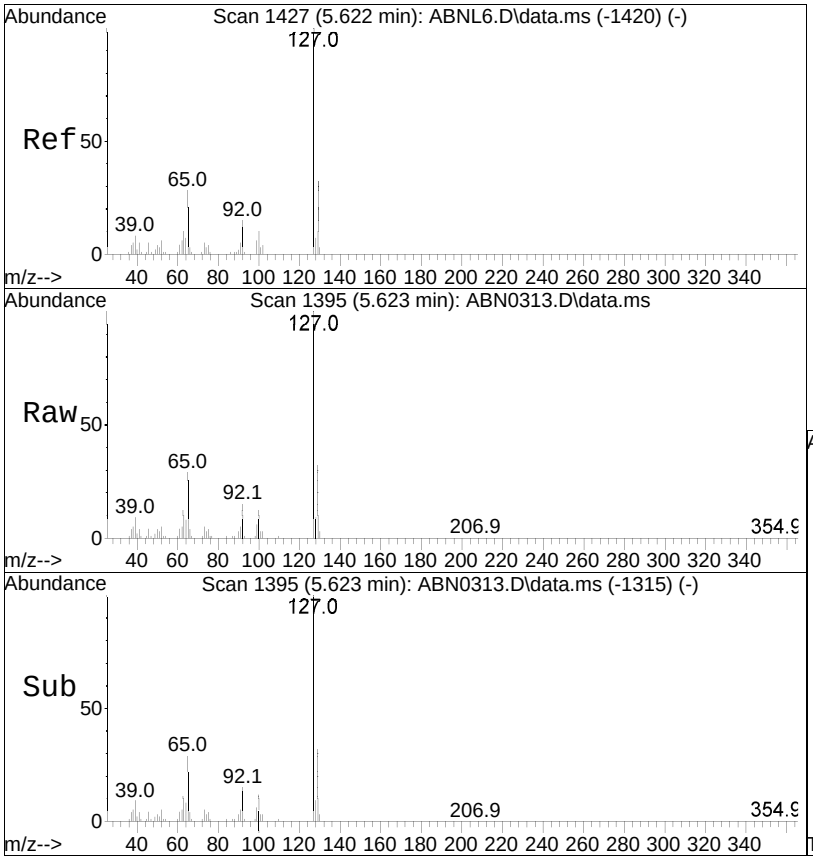


#39
Benzoic Acid
Concen: 2.77 ug/ml
RT: 5.355 min Scan# 1309
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:105 Resp: 12859

Ion	Ratio	Lower	Upper
105	100		
122	85.8	59.9	89.9
77	79.7	60.1	90.1

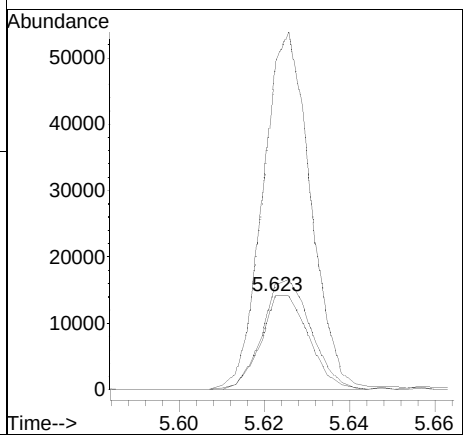


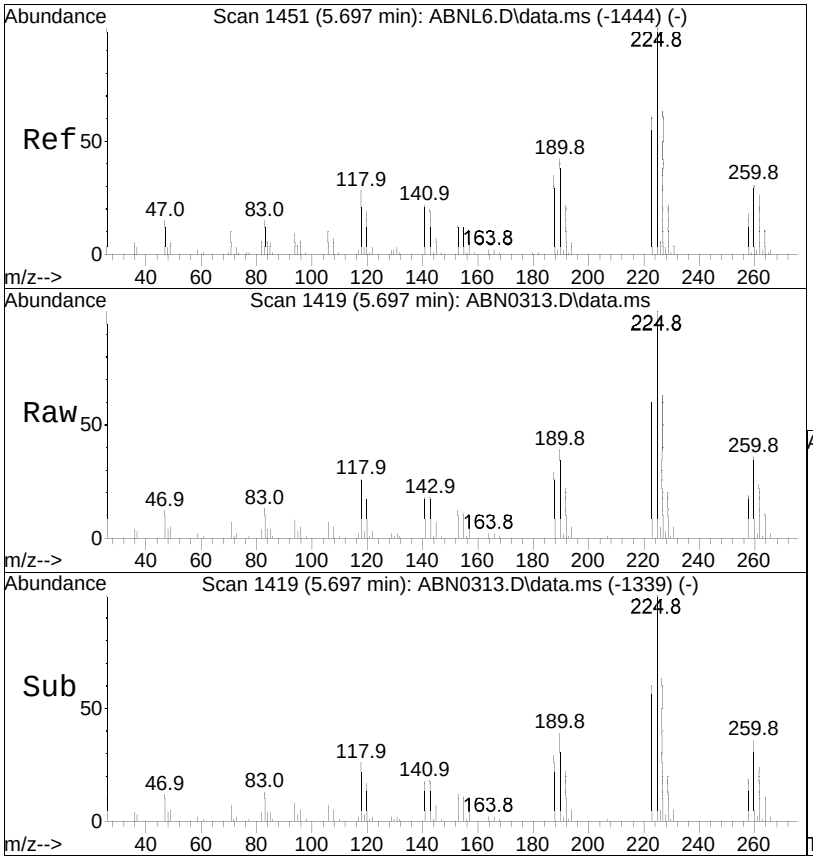


#40
4-Chloroaniline
Concen: 4.50 ug/ml
RT: 5.623 min Scan# 1395
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion: 65 Resp: 11063

Ion	Ratio	Lower	Upper
65	100		
127	376.2	237.6	356.4#
129	118.1	76.3	114.5#

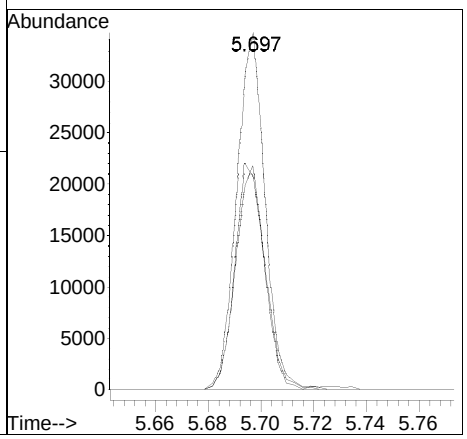


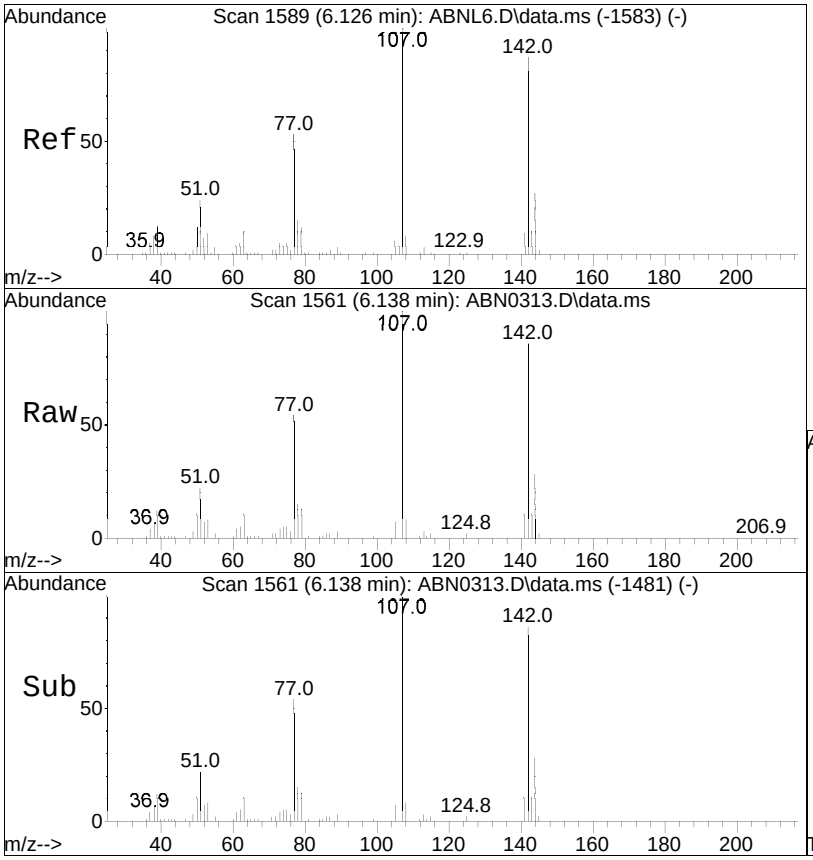


#41
Hexachlorobutadiene
Concen: 4.93 ug/ml
RT: 5.697 min Scan# 1419
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:225 Resp: 25929

Ion	Ratio	Lower	Upper
225	100		
223	65.4	50.3	75.5
227	65.7	52.2	78.2

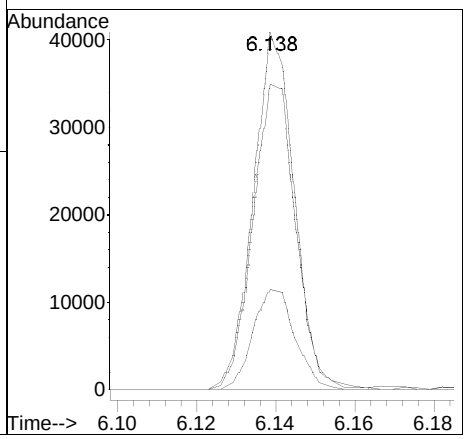


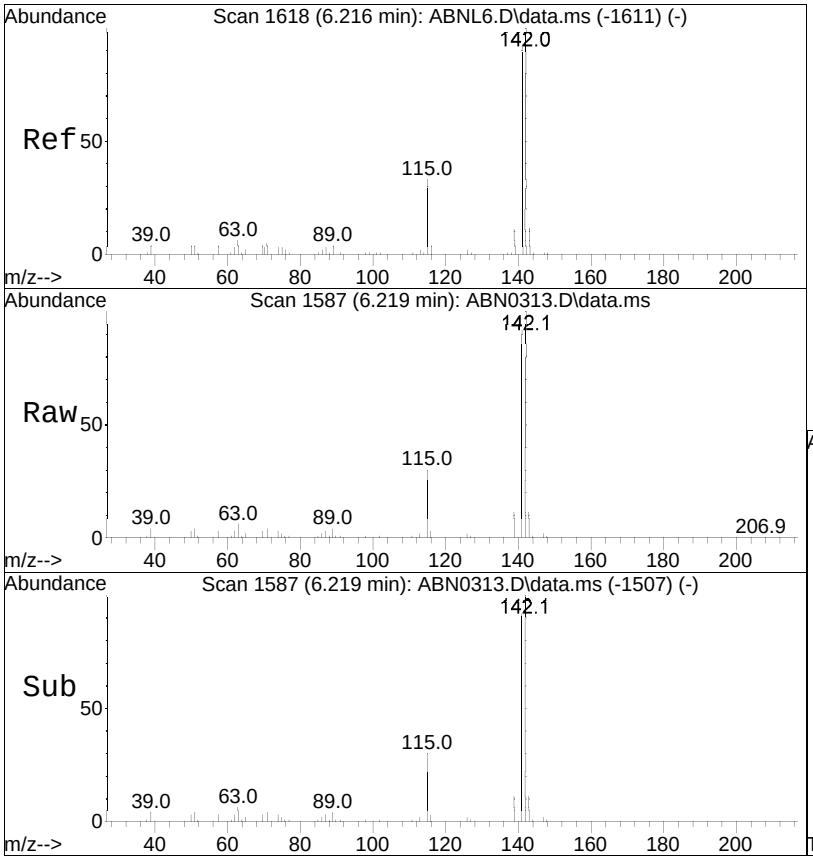


#42
p-Chloro-m-cresol
Concen: 4.95 ug/ml
RT: 6.138 min Scan# 1561
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:107 Resp: 29213

Ion	Ratio	Lower	Upper
107	100		
144	28.9	20.9	31.3
142	89.2	66.1	99.1

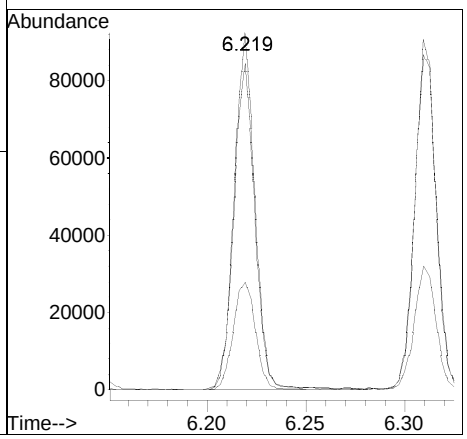


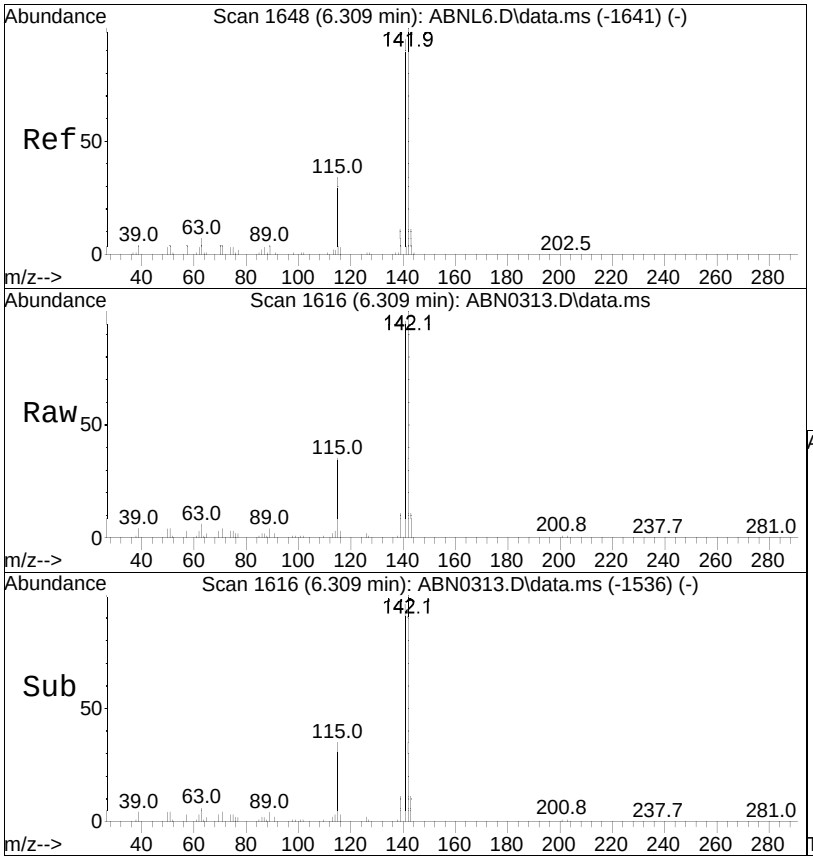


#43
2-Methylnaphthalene
Concen: 4.40 ug/ml
RT: 6.219 min Scan# 1587
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:142 Resp: 68133

Ion	Ratio	Lower	Upper
142	100		
141	91.2	69.6	104.4
115	32.1	26.6	40.0

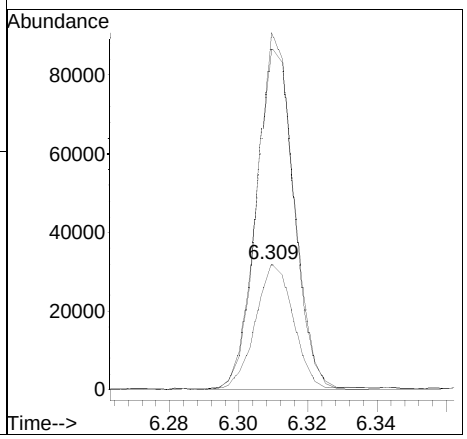


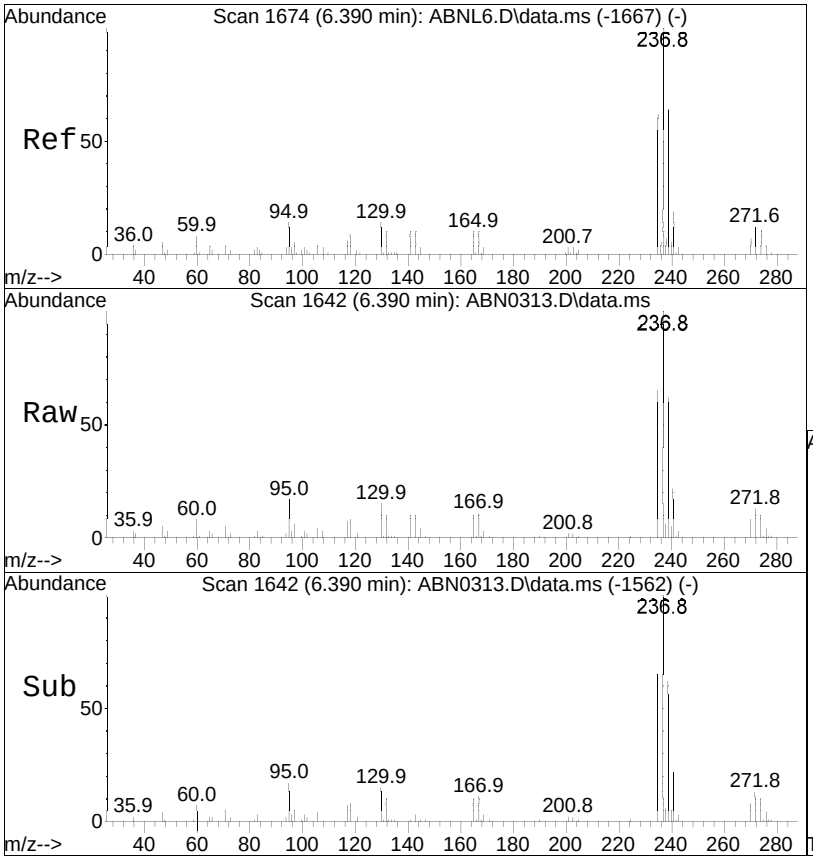


#44
1-Methylnaphthalene
Concen: 5.04 ug/ml
RT: 6.309 min Scan# 1616
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:115 Resp: 24821

Ion	Ratio	Lower	Upper
115	100		
141	263.3	207.8	311.6
142	276.4	226.8	340.2

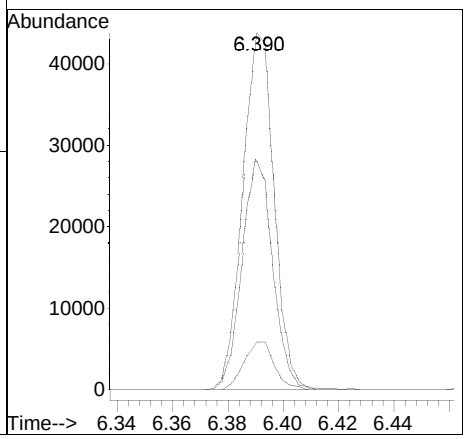


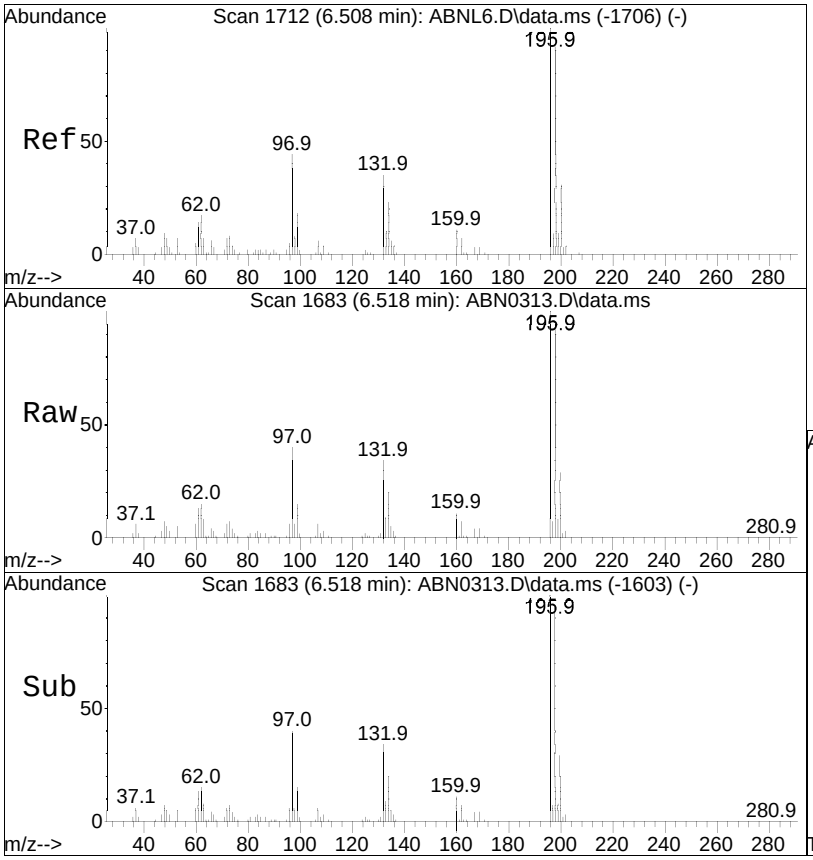


#45
Hexachlorocyclopentadiene
Concen: 6.22 ug/ml
RT: 6.390 min Scan# 1642
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:237 Resp: 34475

Ion	Ratio	Lower	Upper
237	100		
235	63.1	49.7	74.5
272	13.1	9.8	14.6

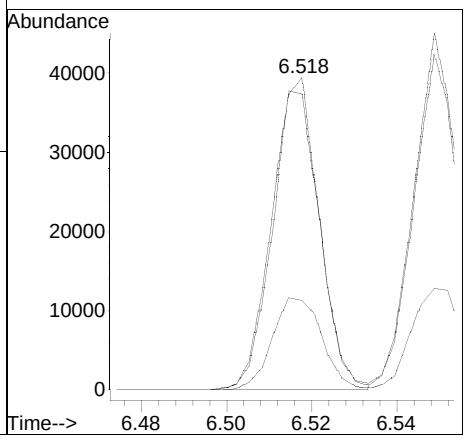


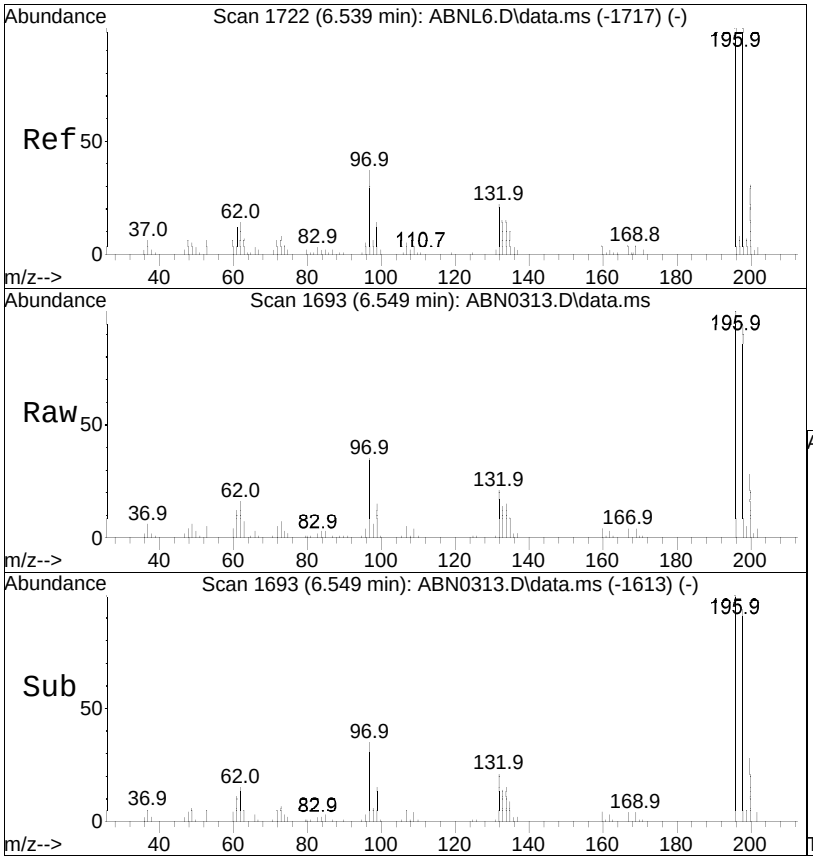


#46
2,4,6-Trichlorophenol
Concen: 5.22 ug/ml
RT: 6.518 min Scan# 1683
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:196 Resp: 30467

Ion	Ratio	Lower	Upper
196	100		
198	95.9	77.5	116.3
200	31.0	23.8	35.6

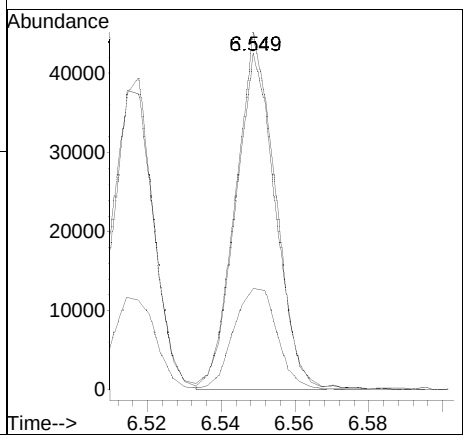


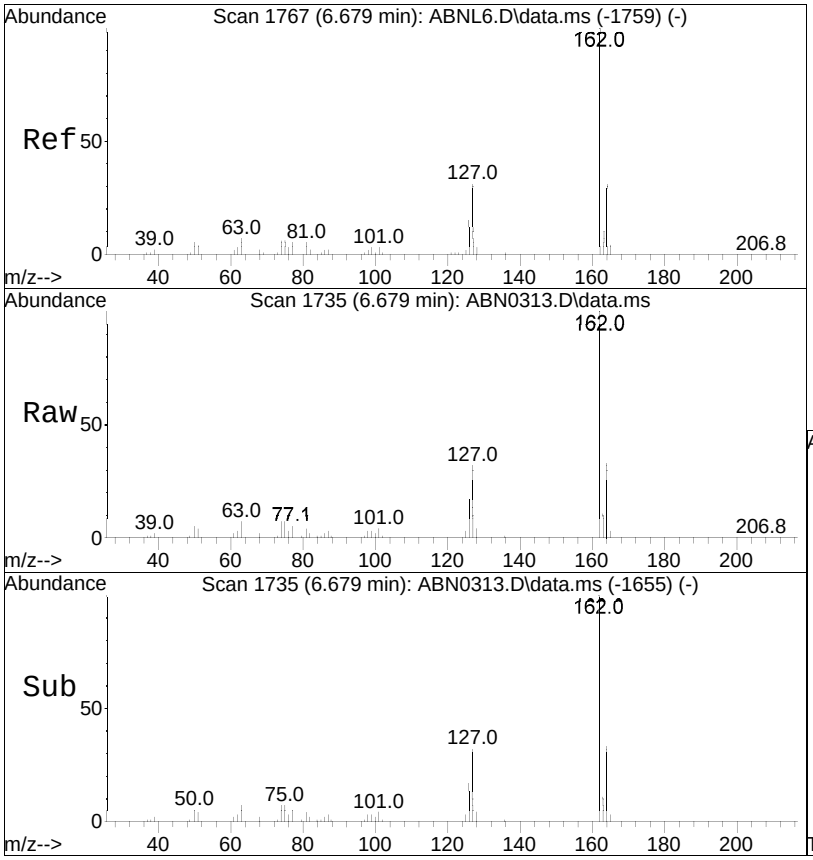


#47
2,4,5-Trichlorophenol
Concen: 5.15 ug/ml
RT: 6.549 min Scan# 1693
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:196 Resp: 33573

Ion	Ratio	Lower	Upper
196	100		
200	31.7	25.4	38.0
198	96.5	78.0	117.0

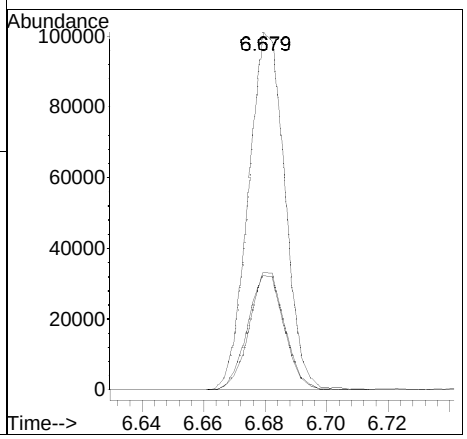


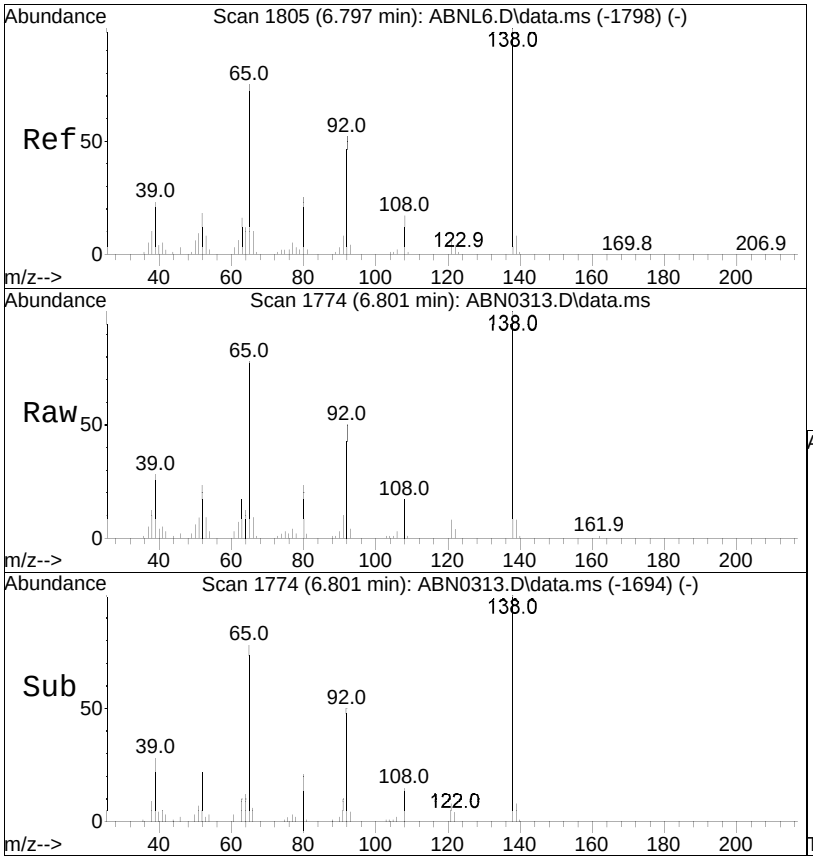


#49
2-Chloronaphthalene
Concen: 4.77 ug/ml
RT: 6.679 min Scan# 1735
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:162 Resp: 82700

Ion	Ratio	Lower	Upper
162	100		
127	32.3	32.2	48.4
164	31.9	25.7	38.5

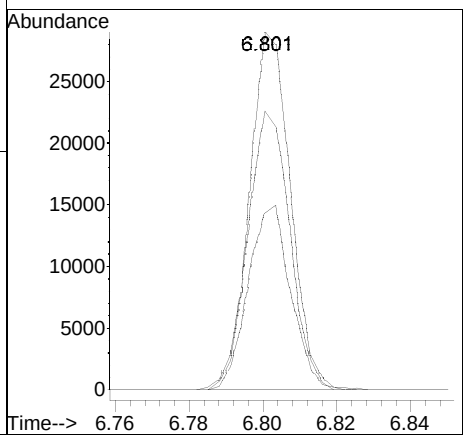


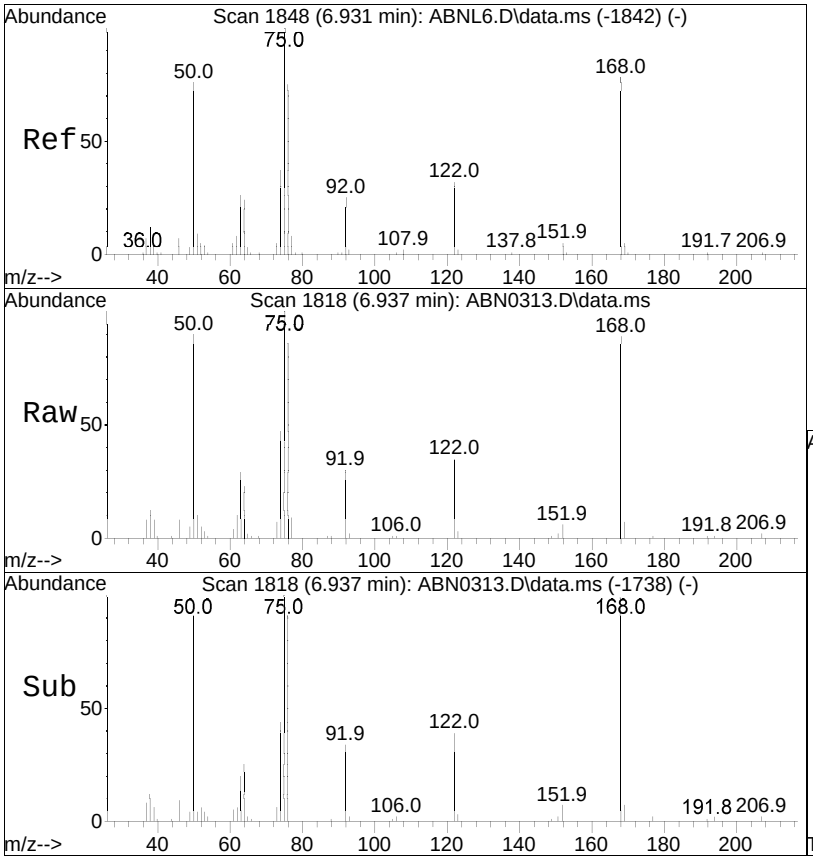


#50
2-Nitroaniline
Concen: 5.00 ug/ml
RT: 6.801 min Scan# 1774
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:138 Resp: 22176

Ion	Ratio	Lower	Upper
138	100		
92	53.7	53.5	80.3
65	80.9	86.3	129.5#

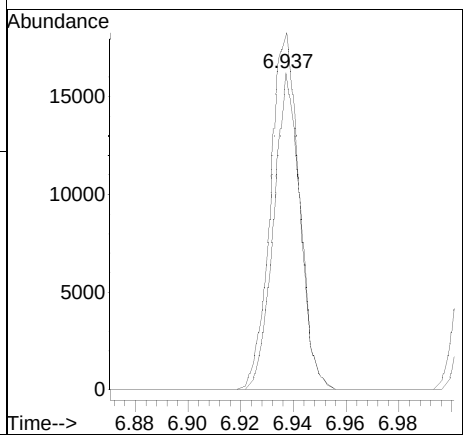


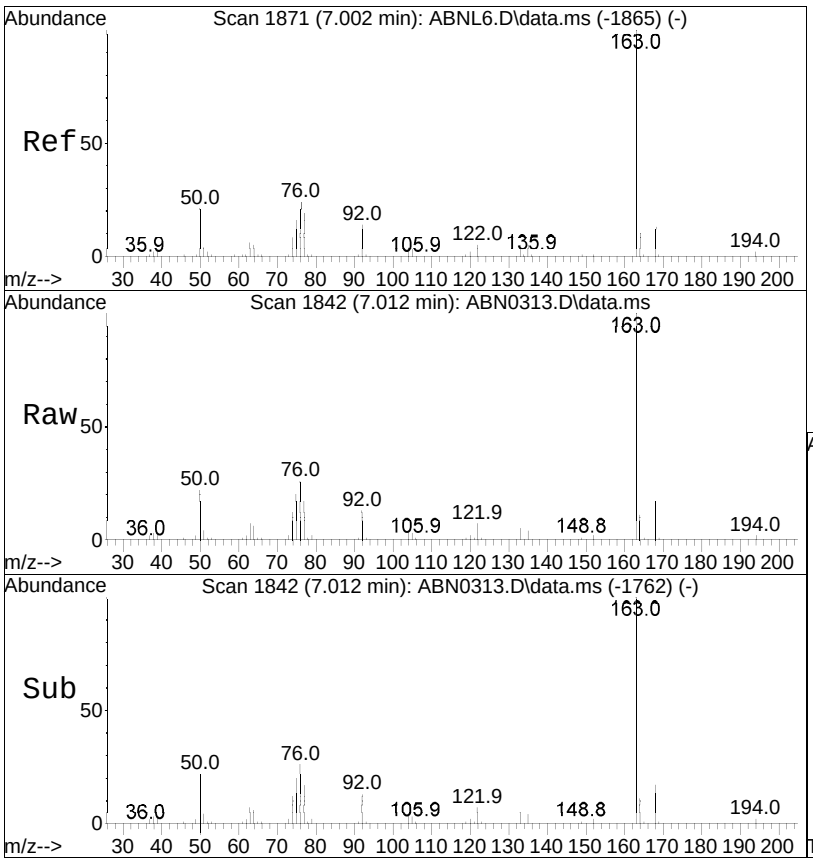


#51
1,4-Dinitrobenzene
Concen: 5.92 ug/ml M3
RT: 6.937 min Scan# 1818
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:168 Resp: 11411

Ion	Ratio	Lower	Upper
168	100		
75	148.6	121.8	182.8

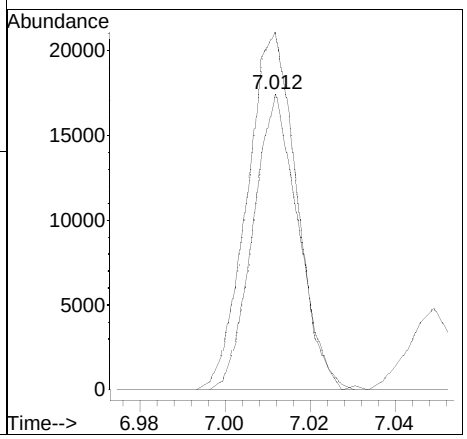


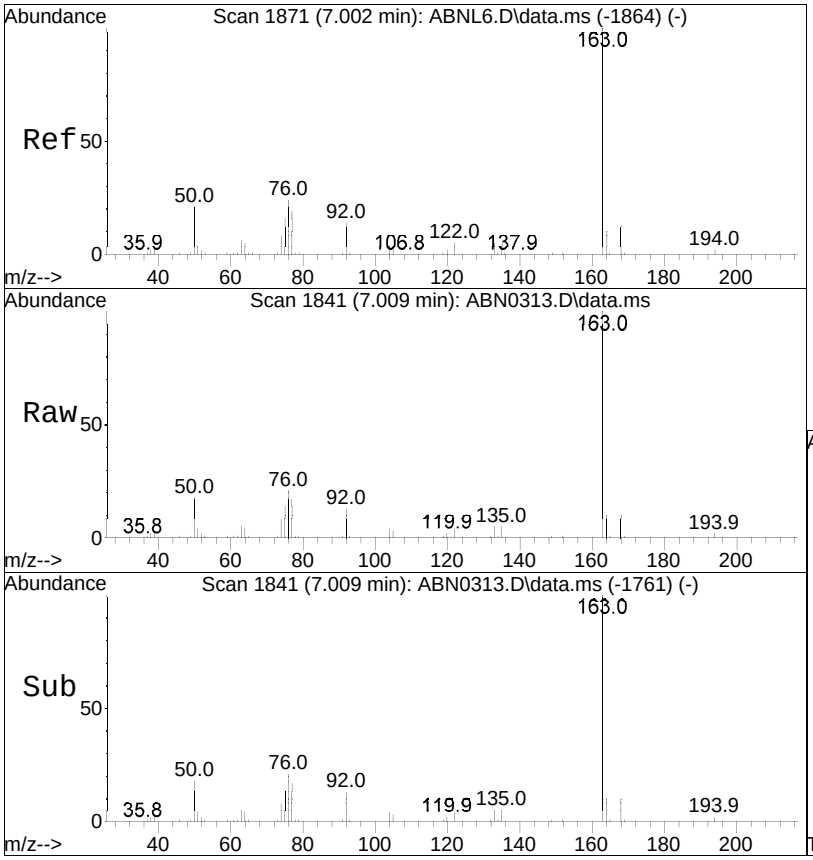


#52
1,3-Dinitrobenzene
Concen: 5.56 ug/ml
RT: 7.012 min Scan# 1842
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:168 Resp: 12834

Ion	Ratio	Lower	Upper
168	100		
75	132.1	22.7	34.1#

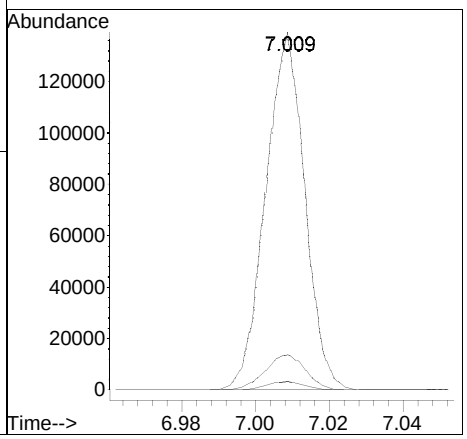


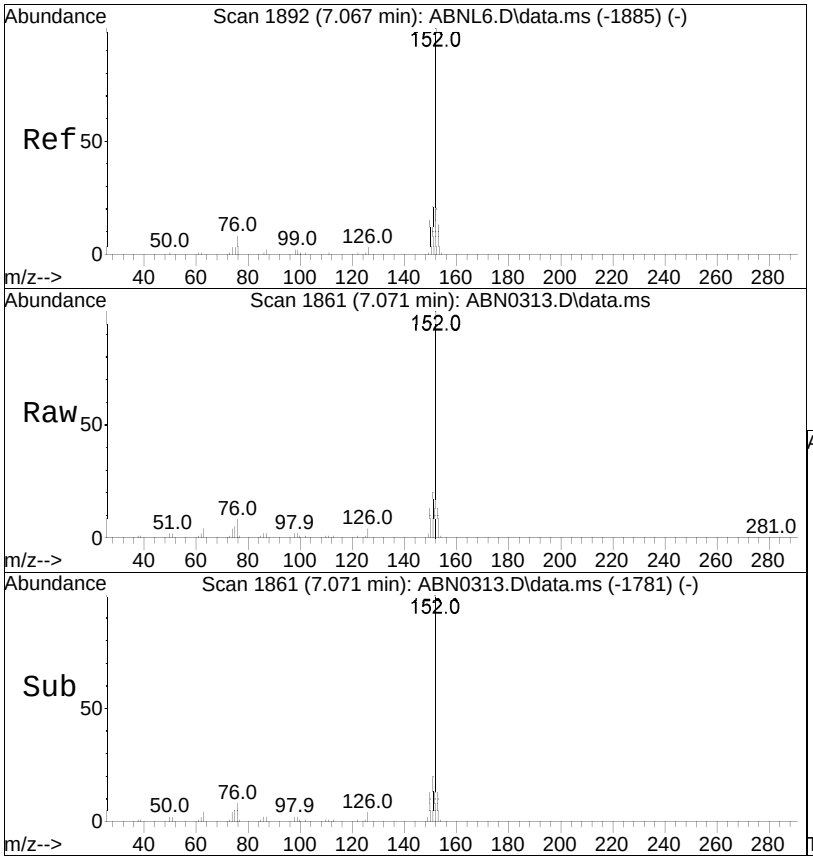


#53
Dimethyl phthalate
Concen: 5.02 ug/ml
RT: 7.009 min Scan# 1841
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:163 Resp: 101270

Ion	Ratio	Lower	Upper
163	100		
194	2.3	3.5	5.3#
164	10.3	7.9	11.9

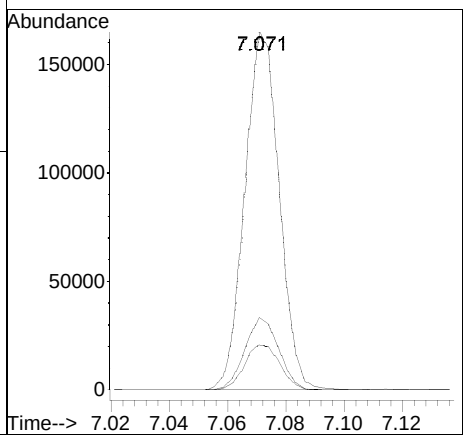


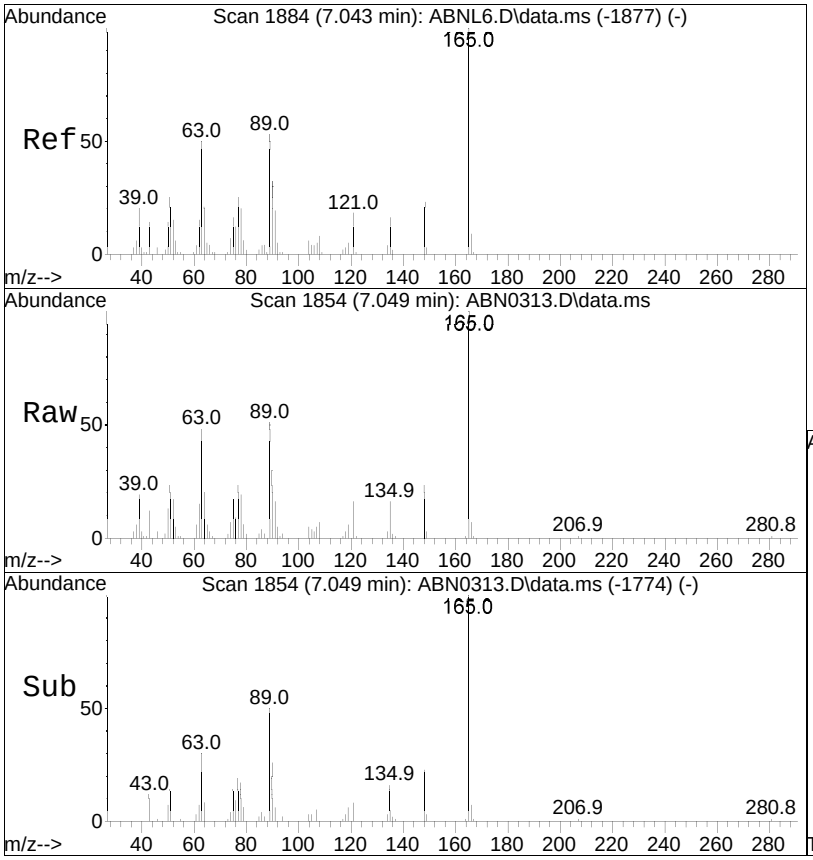


#54
Acenaphthylene
Concen: 5.27 ug/ml
RT: 7.071 min Scan# 1861
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:152 Resp: 134162

Ion	Ratio	Lower	Upper
152	100		
151	20.0	15.8	23.6
153	13.1	10.5	15.7

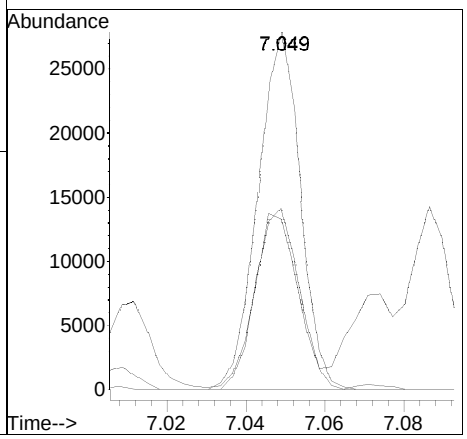


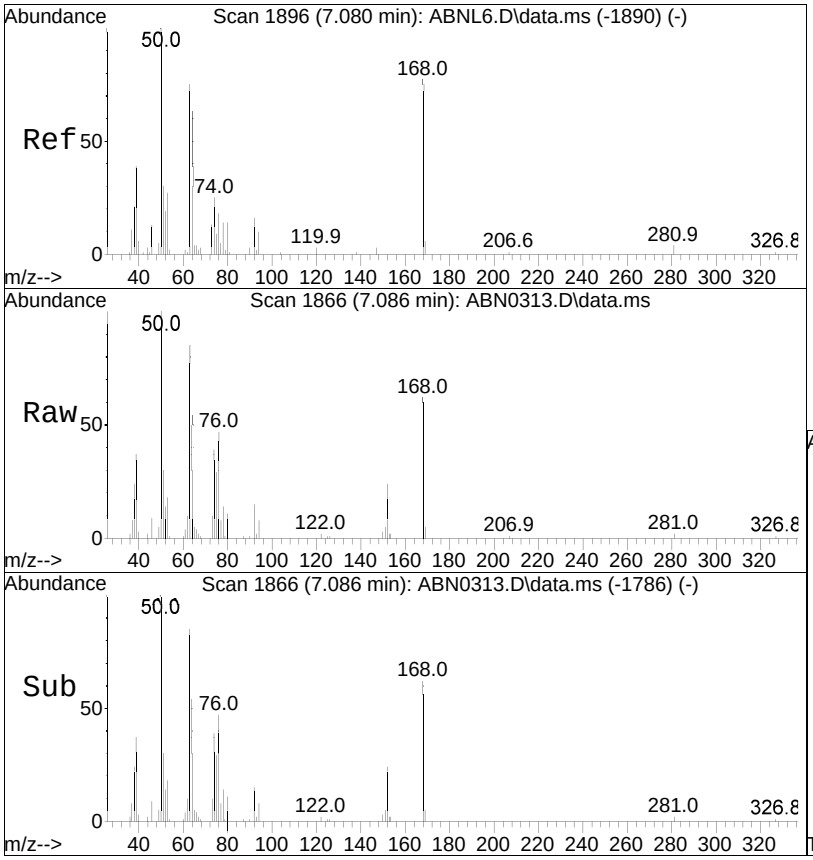


#55
2,6-Dinitrotoluene
Concen: 5.51 ug/ml
RT: 7.049 min Scan# 1854
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:165 Resp: 20734

Ion	Ratio	Lower	Upper
165	100		
89	52.2	54.2	81.2#
63	51.1	64.2	96.2#

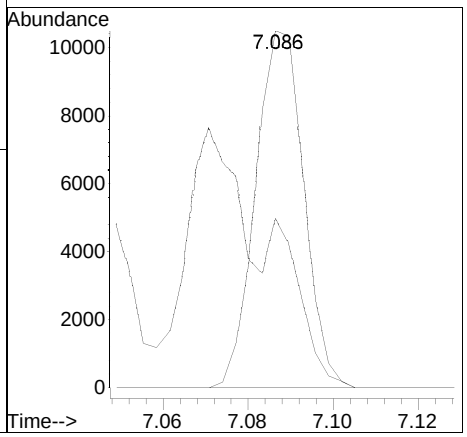


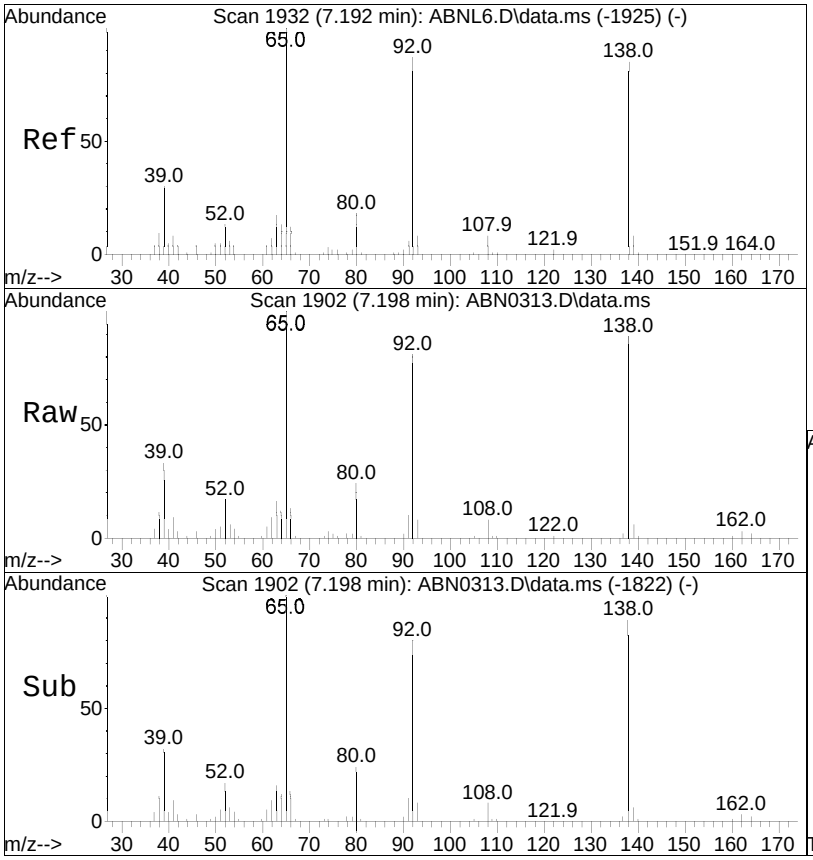


#56
1,2-Dinitrobenzene
Concen: 6.12 ug/ml
RT: 7.086 min Scan# 1866
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:168 Resp: 8246

Ion	Ratio	Lower	Upper
168	100		
75	67.1	30.9	46.3#

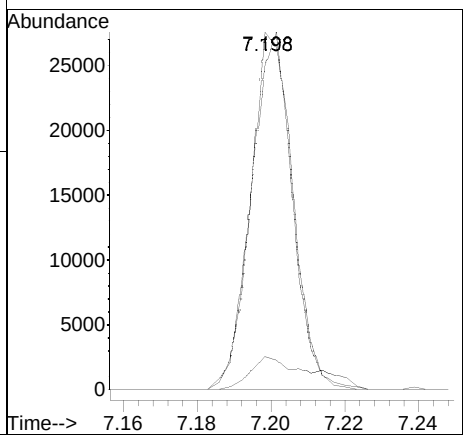


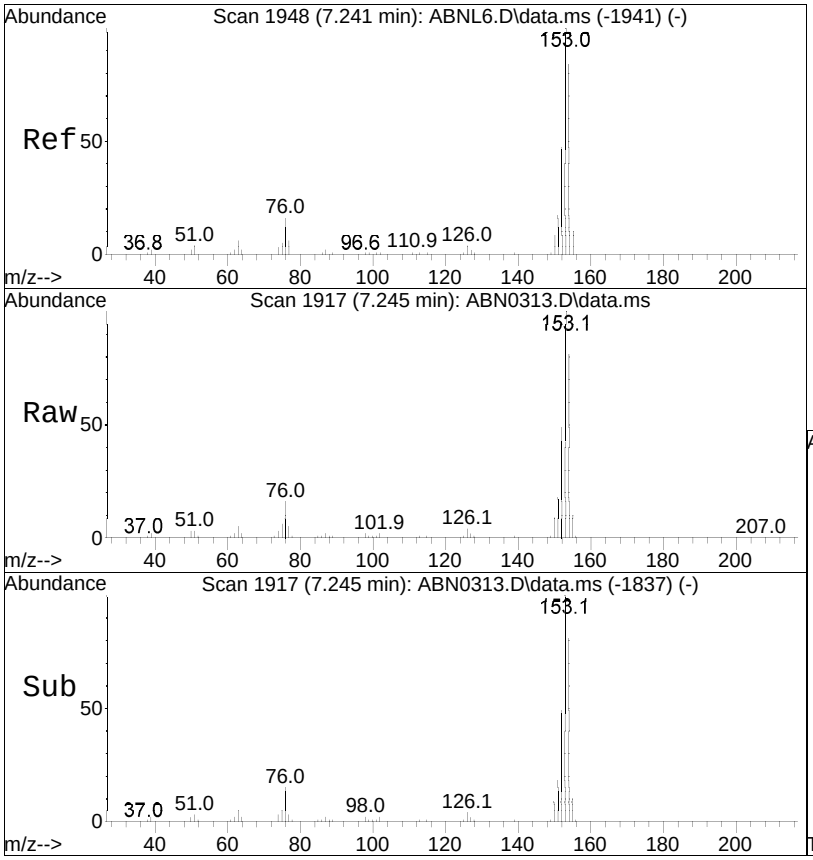


#66
3-Nitroaniline
Concen: 4.75 ug/ml
RT: 7.198 min Scan# 1902
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:138 Resp: 21648

Ion	Ratio	Lower	Upper
138	100		
92	97.6	93.4	140.2
108	13.6	9.5	14.3

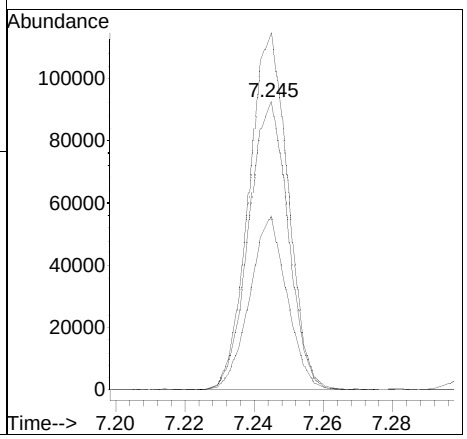


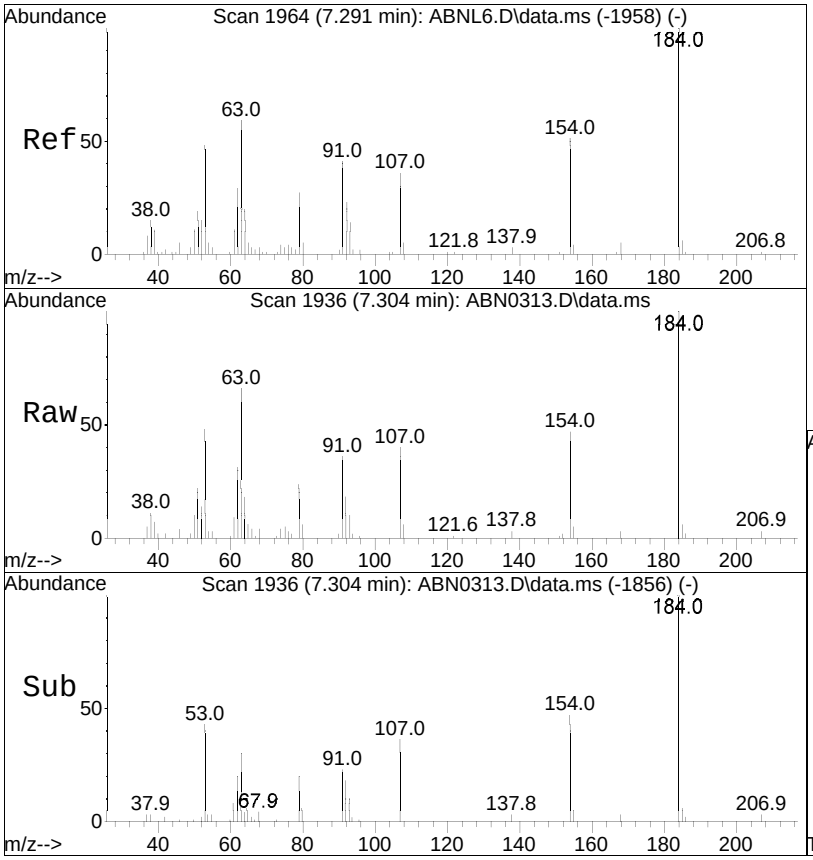


#67
Acenaphthene
Concen: 4.26 ug/ml
RT: 7.245 min Scan# 1917
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:154 Resp: 73089

Ion	Ratio	Lower	Upper
154	100		
153	123.0	85.3	127.9
152	57.8	41.4	62.0

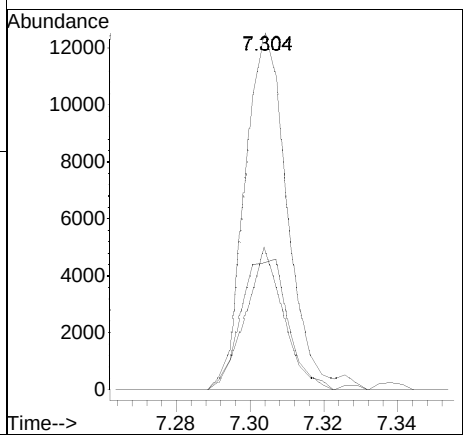


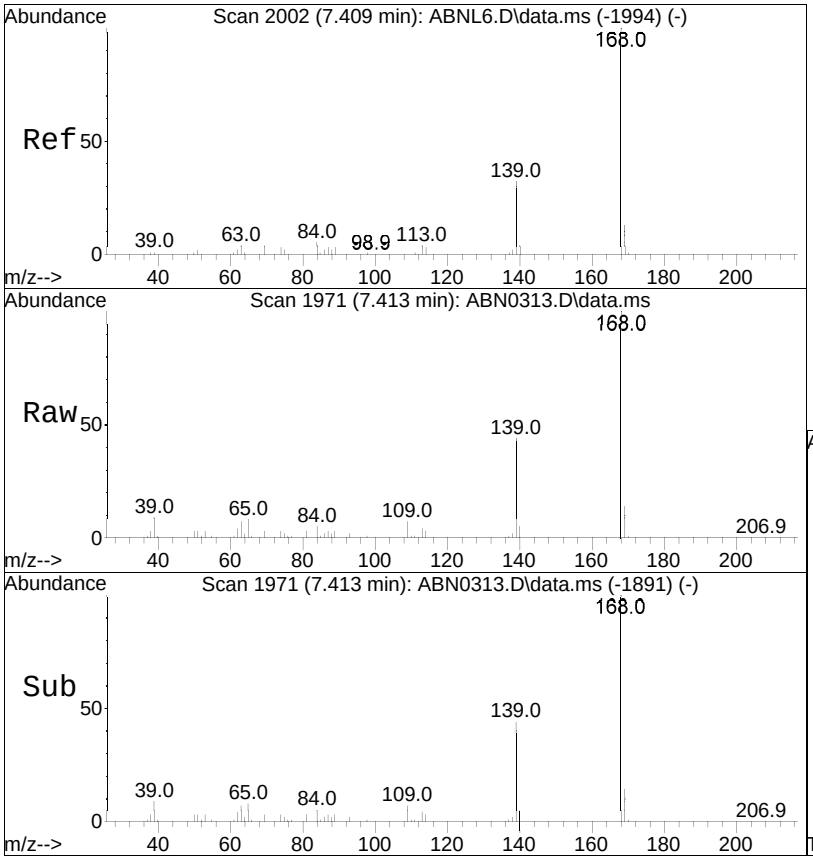


#68
2,4-Dinitrophenol
Concen: 3.72 ug/ml
RT: 7.304 min Scan# 1936
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:184 Resp: 9985

Ion	Ratio	Lower	Upper
184	100		
107	36.1	37.7	56.5#
91	40.6	46.3	69.5#

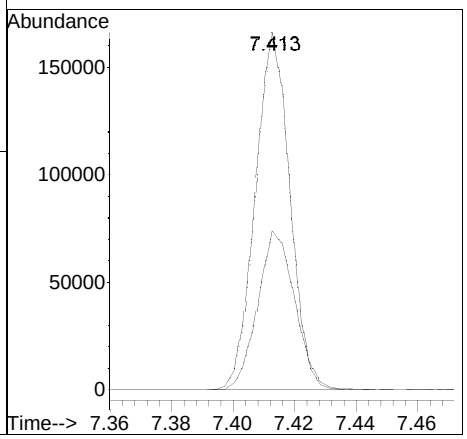


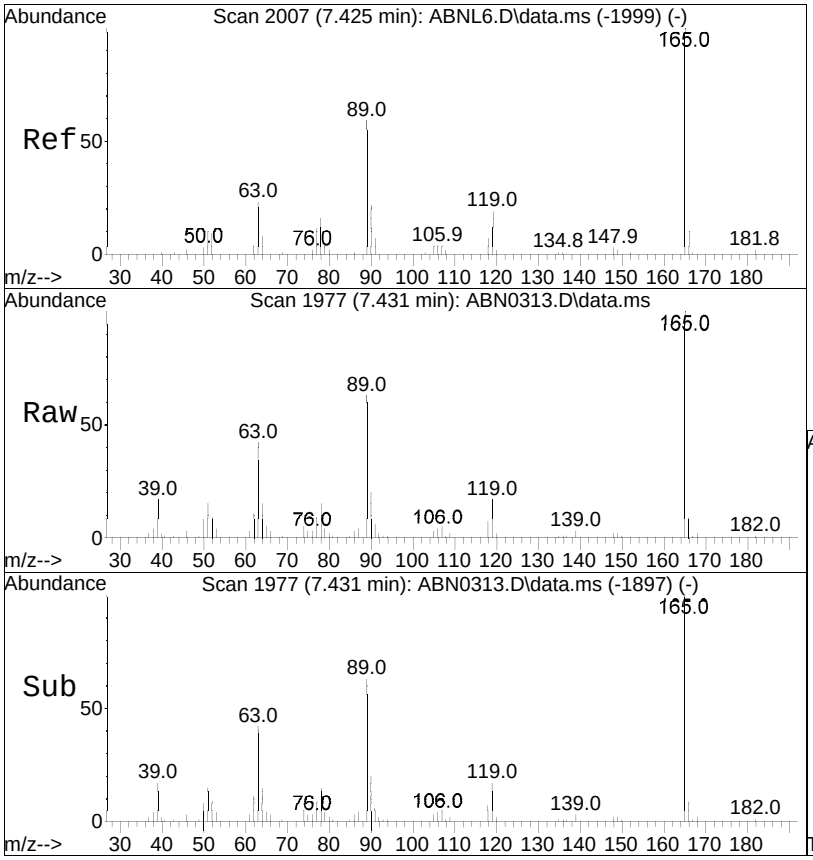


#69
Dibenzofuran
Concen: 4.33 ug/ml
RT: 7.413 min Scan# 1971
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:168 Resp: 128233

Ion	Ratio	Lower	Upper
168	100		
139	48.4	31.4	47.2#

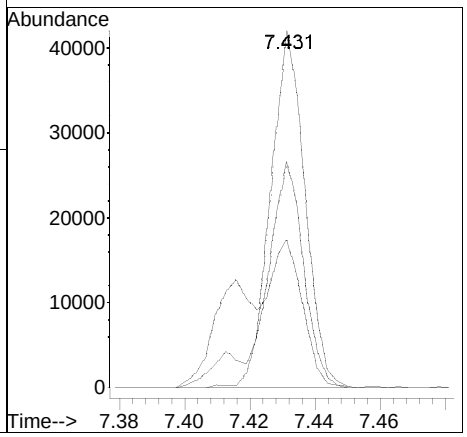


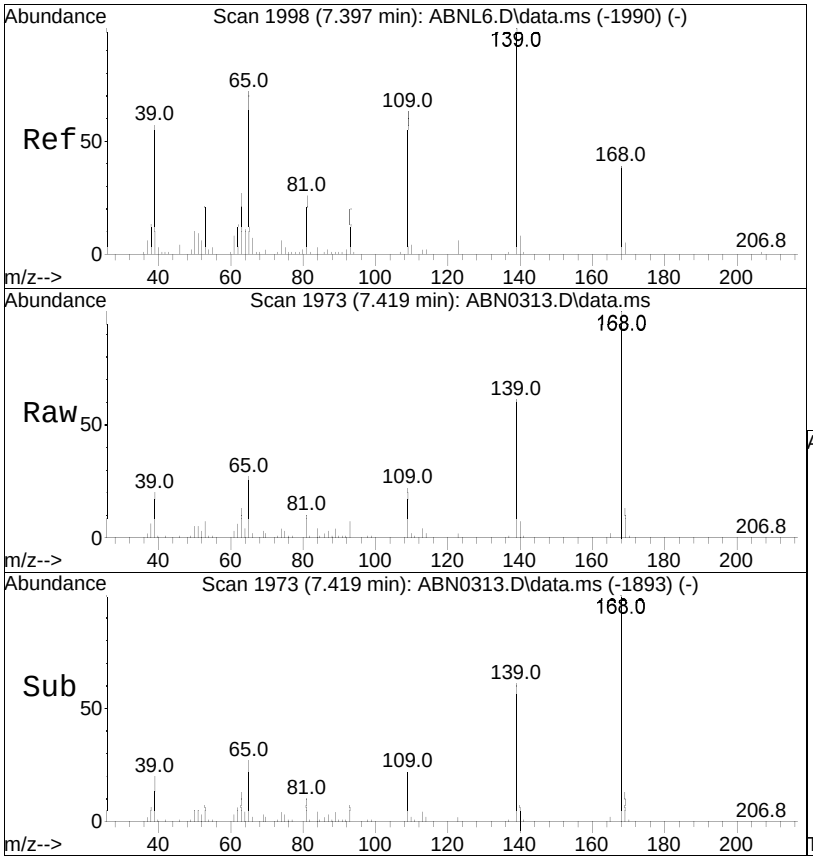


#70
2,4-Dinitrotoluene
Concen: 5.36 ug/ml
RT: 7.431 min Scan# 1977
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:165 Resp: 30629

Ion	Ratio	Lower	Upper
165	100		
89	62.5	72.0	108.0#
63	40.6	52.7	79.1#

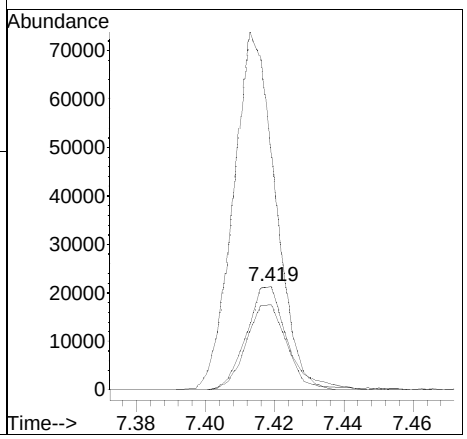


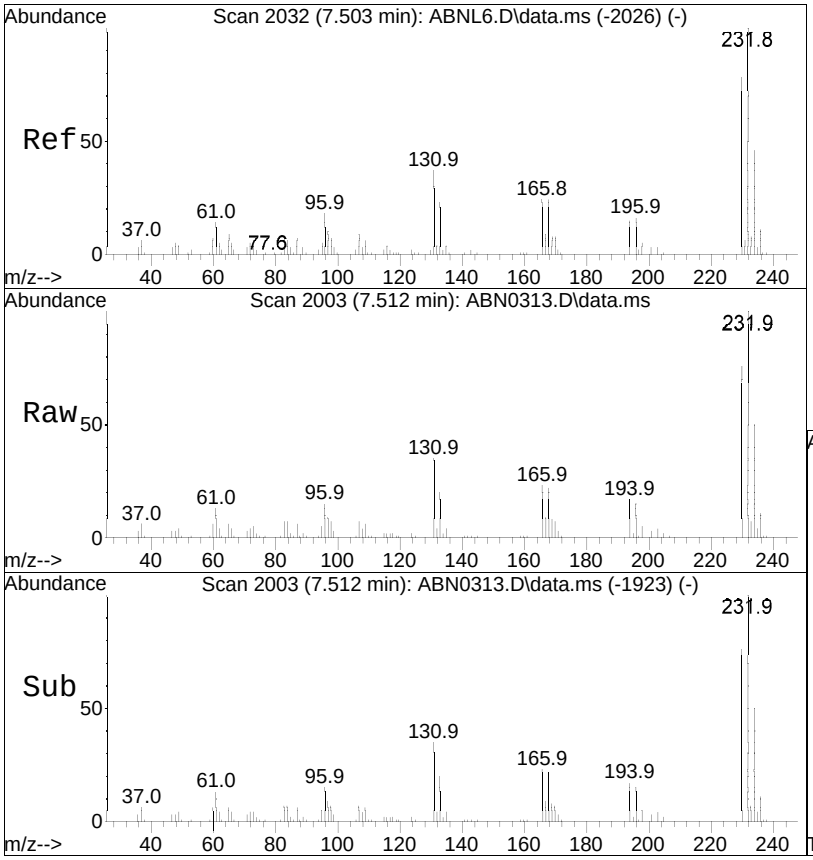


#71
4-Nitrophenol
Concen: 5.20 ug/ml
RT: 7.419 min Scan# 1973
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion: 65 Resp: 17674

Ion	Ratio	Lower	Upper
65	100		
109	80.5	47.4	71.2#
139	350.8	76.6	115.0#

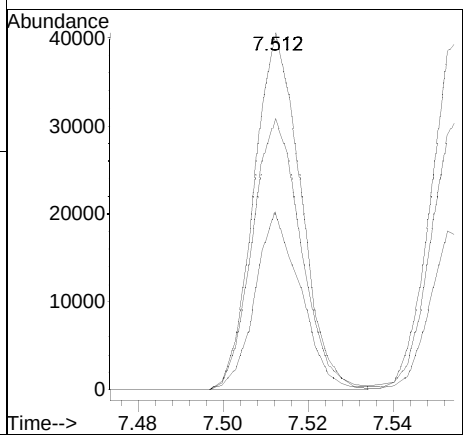


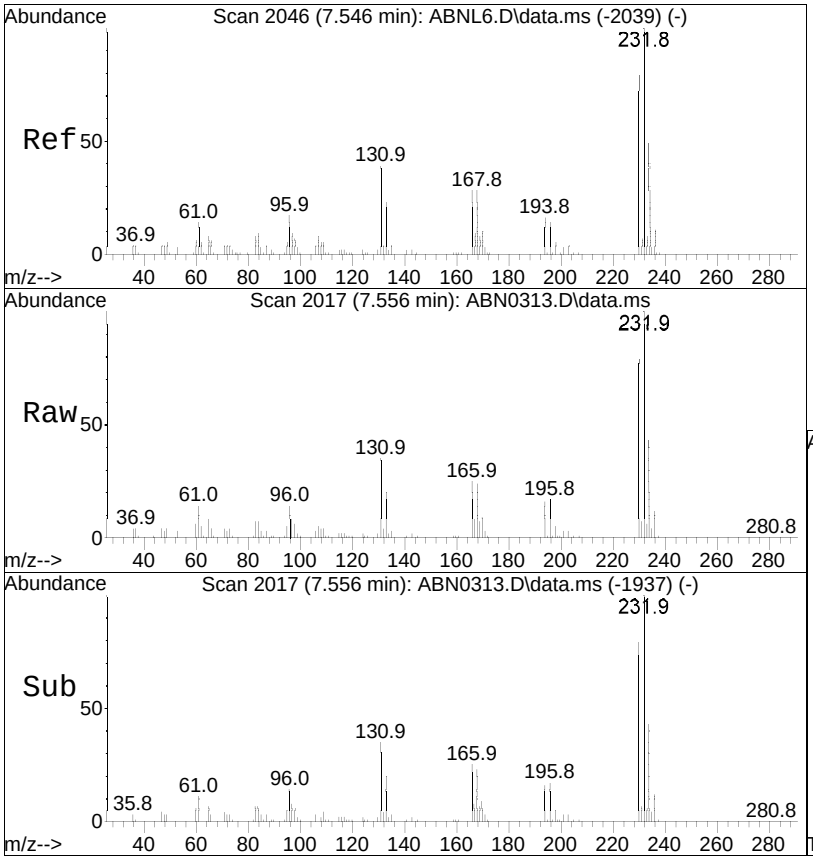


#72
2,3,5,6-Tetrachlorophenol
Concen: 4.82 ug/ml
RT: 7.512 min Scan# 2003
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:232 Resp: 31079

Ion	Ratio	Lower	Upper
232	100		
230	78.8	64.2	96.4
234	48.3	38.1	57.1

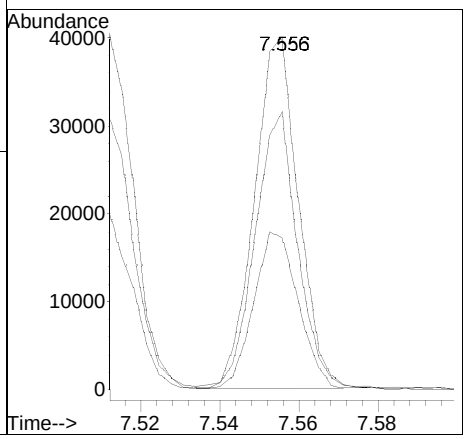


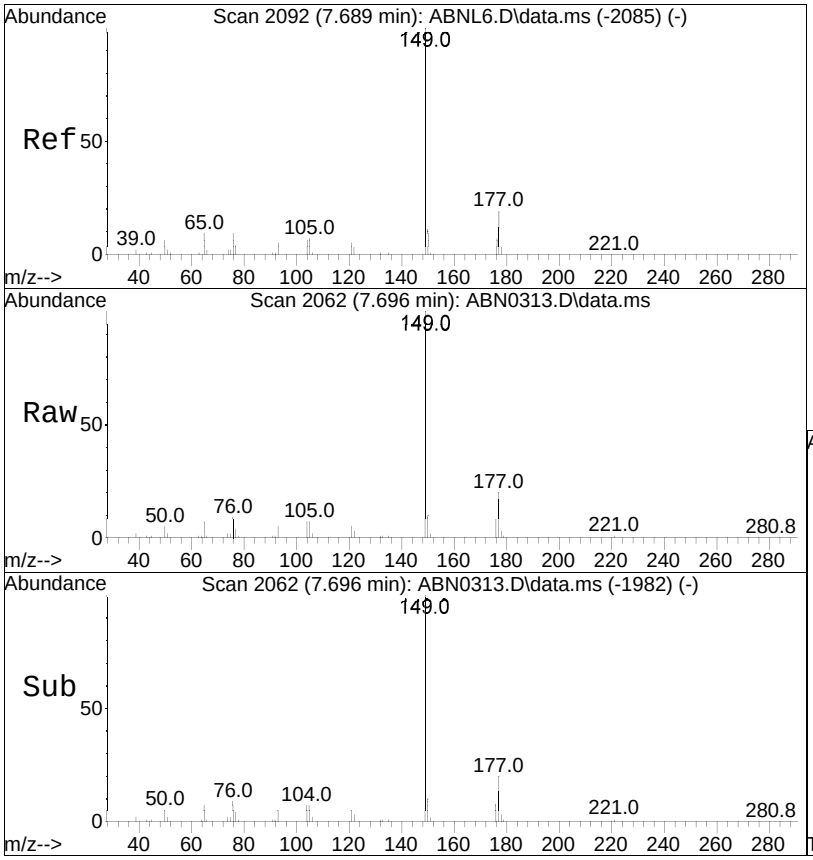


#73
2,3,4,6-Tetrachlorophenol
Concen: 4.90 ug/ml
RT: 7.556 min Scan# 2017
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:232 Resp: 30937

Ion	Ratio	Lower	Upper
232	100		
230	76.5	61.8	92.8
234	46.5	36.2	54.2

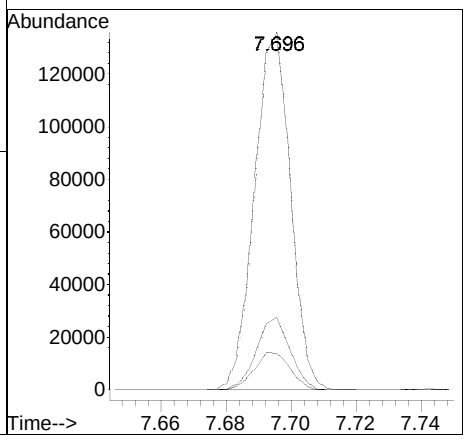


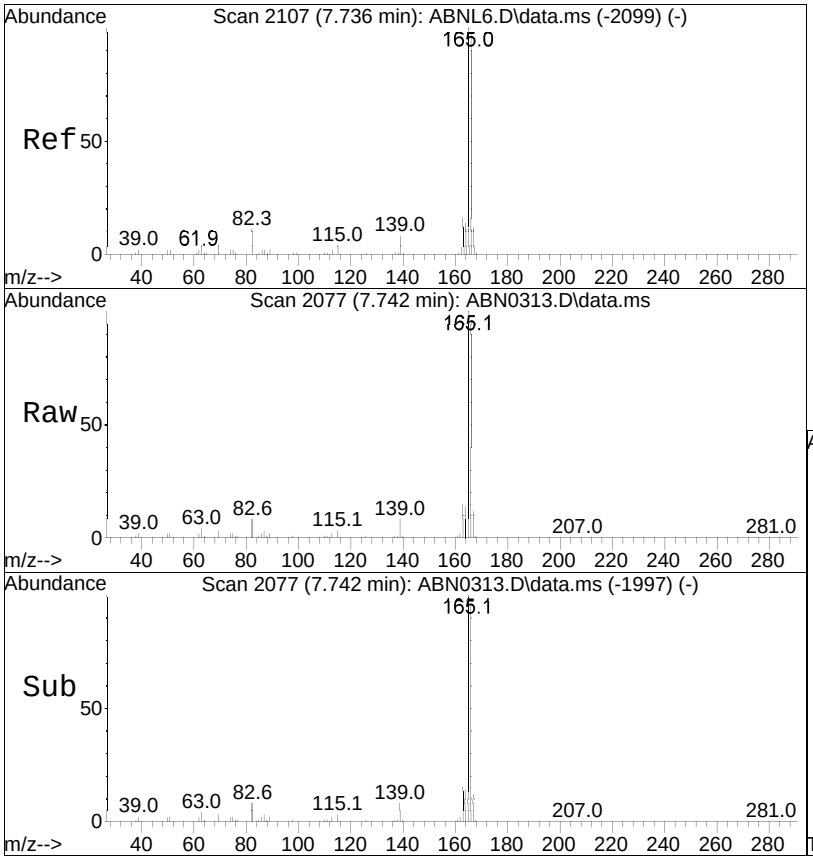


#74
Diethyl phthalate
Concen: 4.43 ug/ml
RT: 7.696 min Scan# 2062
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:149 Resp: 103081

Ion	Ratio	Lower	Upper
149	100		
177	19.2	16.1	24.1
150	10.7	9.4	14.2

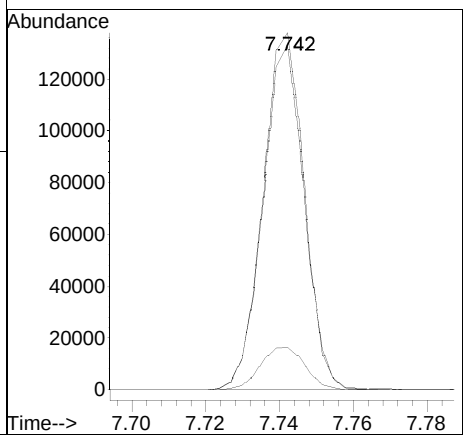


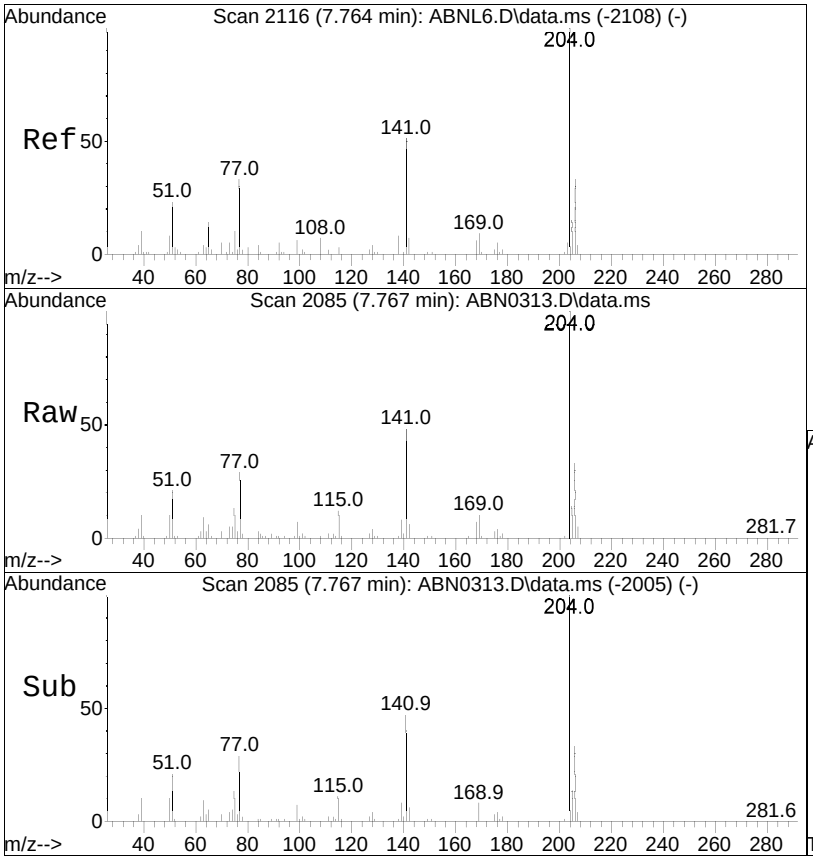


#75
Fluorene
Concen: 4.53 ug/ml
RT: 7.742 min Scan# 2077
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:166 Resp: 102856

Ion	Ratio	Lower	Upper
166	100		
165	104.2	76.2	114.2
167	13.5	10.6	15.8

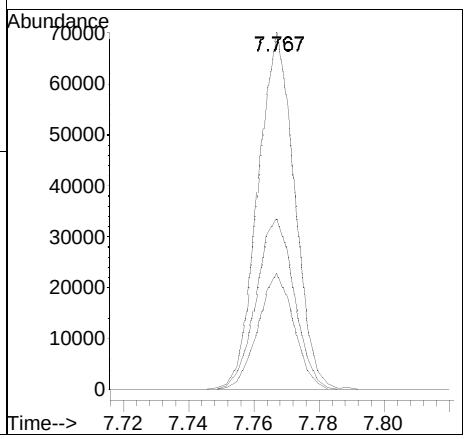


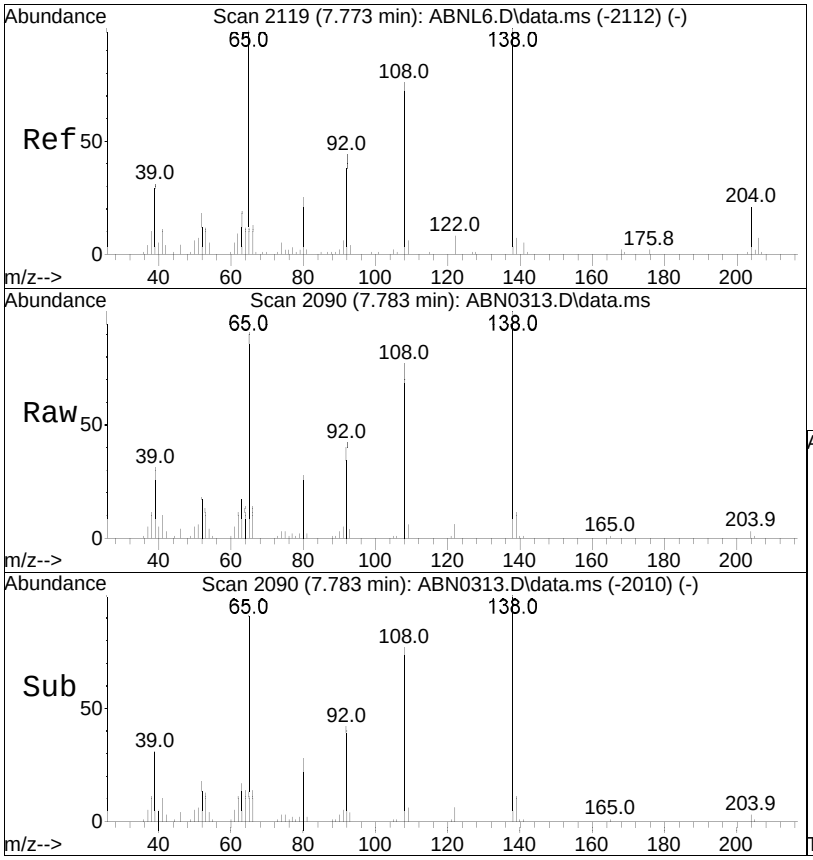


#76
4-Chlorophenyl phenyl ether
Concen: 4.65 ug/ml
RT: 7.767 min Scan# 2085
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:204 Resp: 54398

Ion	Ratio	Lower	Upper
204	100		
206	32.1	25.8	38.6
141	49.7	53.6	80.4#

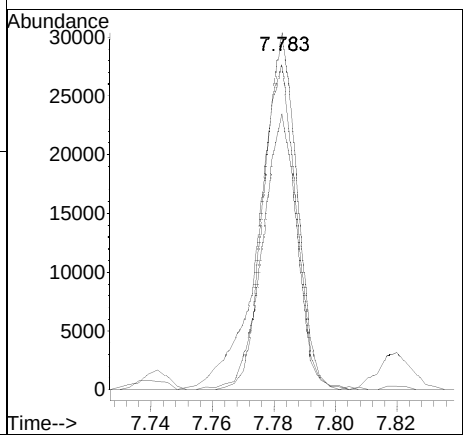


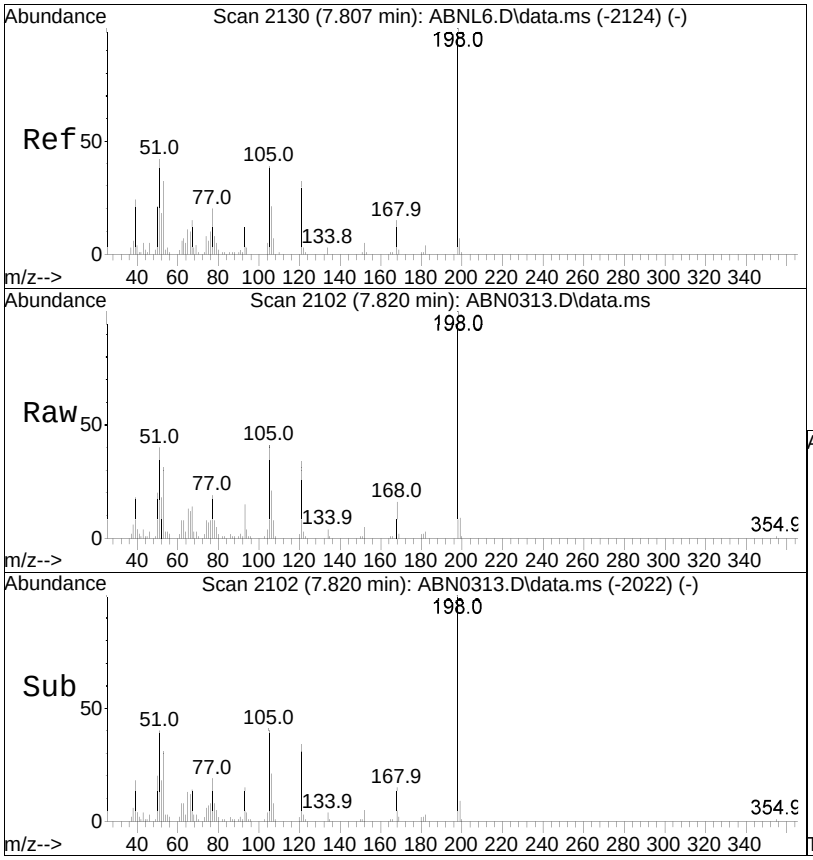


#77
4-Nitroaniline
Concen: 5.19 ug/ml
RT: 7.783 min Scan# 2090
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:138 Resp: 22866

Ion	Ratio	Lower	Upper
138	100		
108	77.9	52.1	78.1
65	104.3	115.0	172.6#

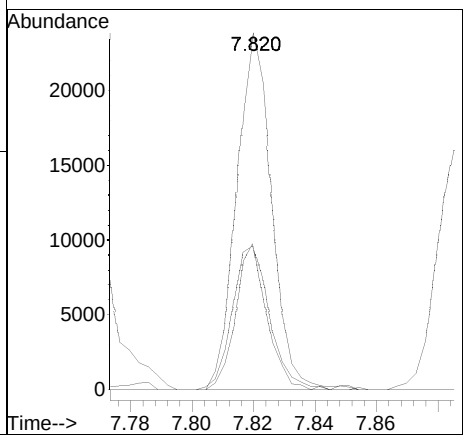


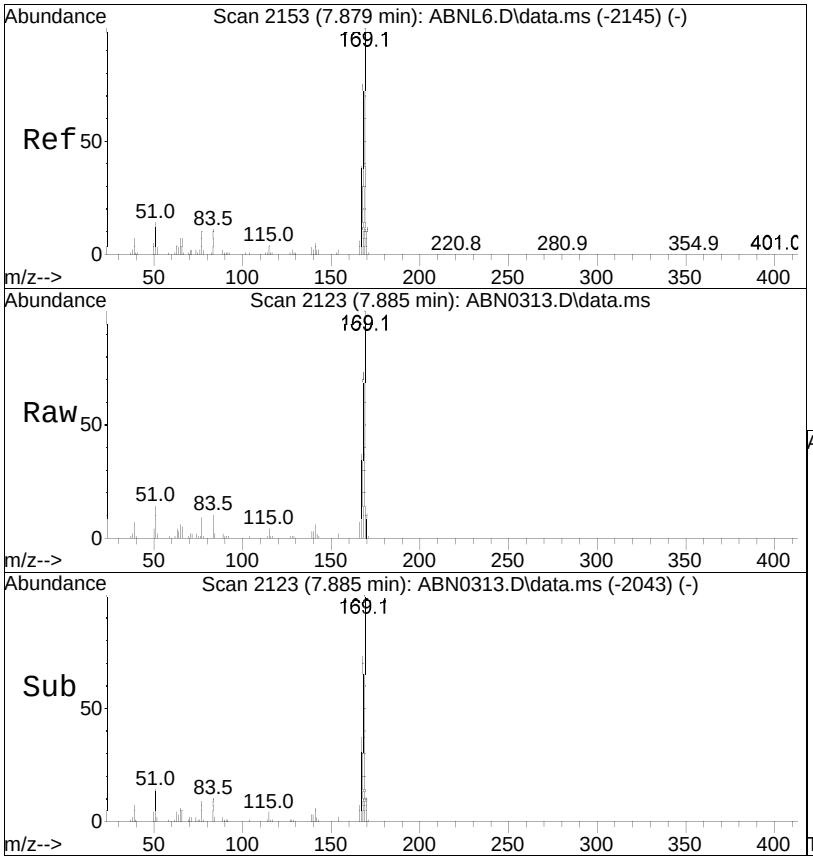


#78
4,6-Dinitro-o-cresol
Concen: 5.46 ug/ml
RT: 7.820 min Scan# 2102
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:198 Resp: 18854

Ion	Ratio	Lower	Upper
198	100		
51	42.7	76.0	114.0#
105	36.1	45.6	68.4#

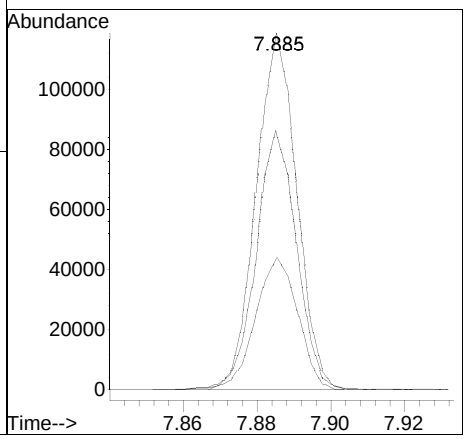


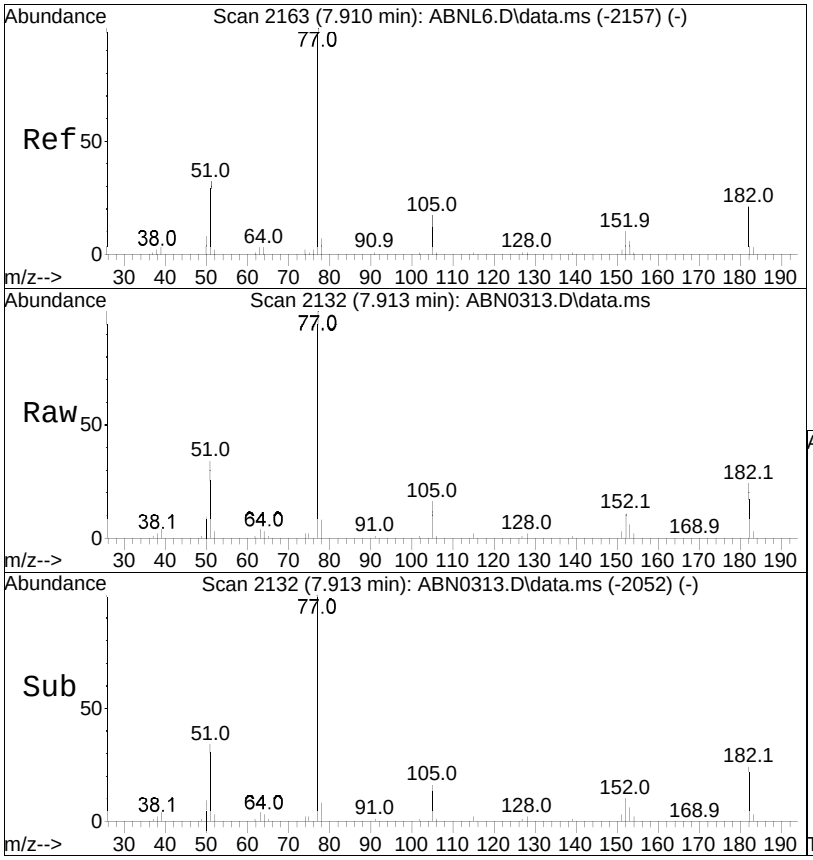


#79
NDPA/DPA
Concen: 4.58 ug/ml
RT: 7.885 min Scan# 2123
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:169 Resp: 90444

Ion	Ratio	Lower	Upper
169	100		
168	72.9	54.0	81.0
167	39.0	28.6	42.8

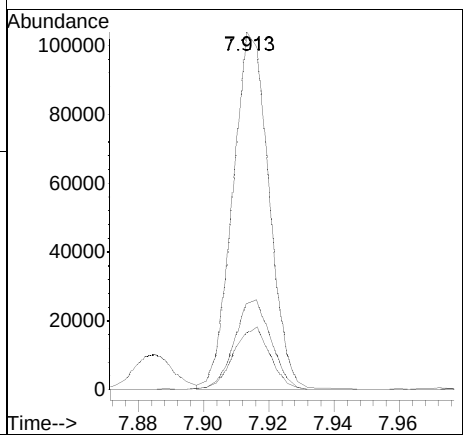


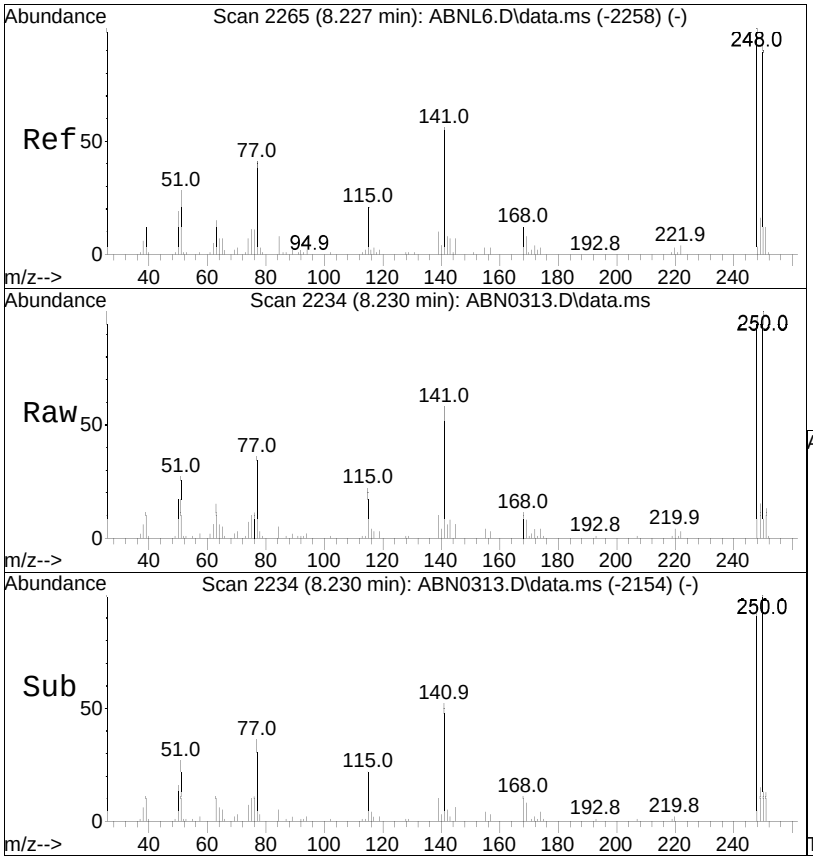


#80
Azobenzene
Concen: 4.22 ug/ml
RT: 7.913 min Scan# 2132
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion: 77 Resp: 79870

Ion	Ratio	Lower	Upper
77	100		
182	25.4	17.4	26.2
105	17.7	15.4	23.2

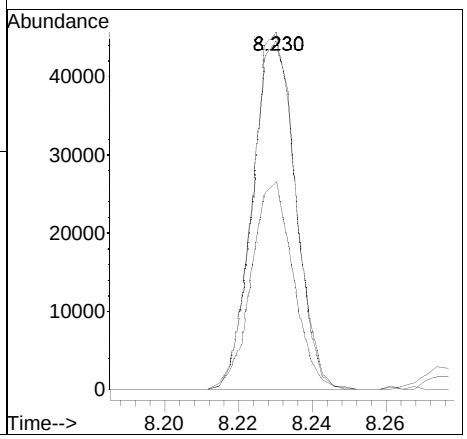


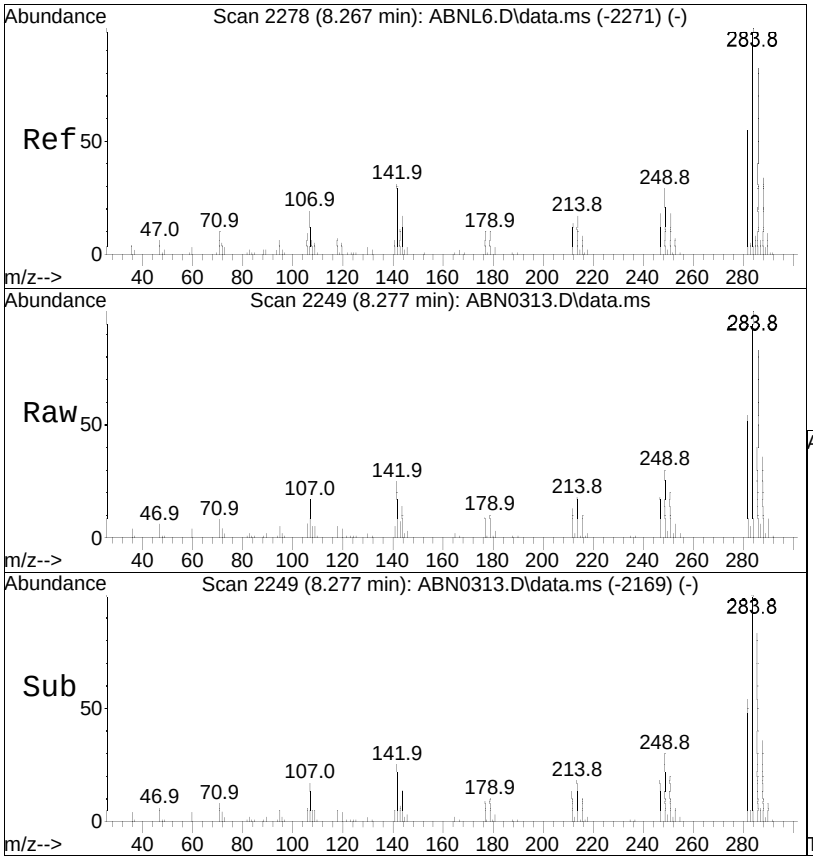


#82
4-Bromophenyl phenyl ether
Concen: 4.70 ug/ml
RT: 8.230 min Scan# 2234
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:248 Resp: 36221

Ion	Ratio	Lower	Upper
248	100		
141	57.5	76.6	114.8#
250	100.1	77.3	115.9

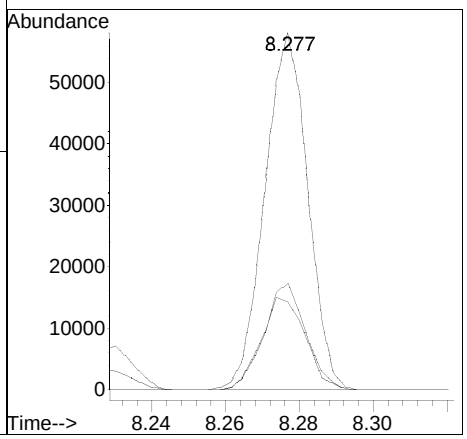


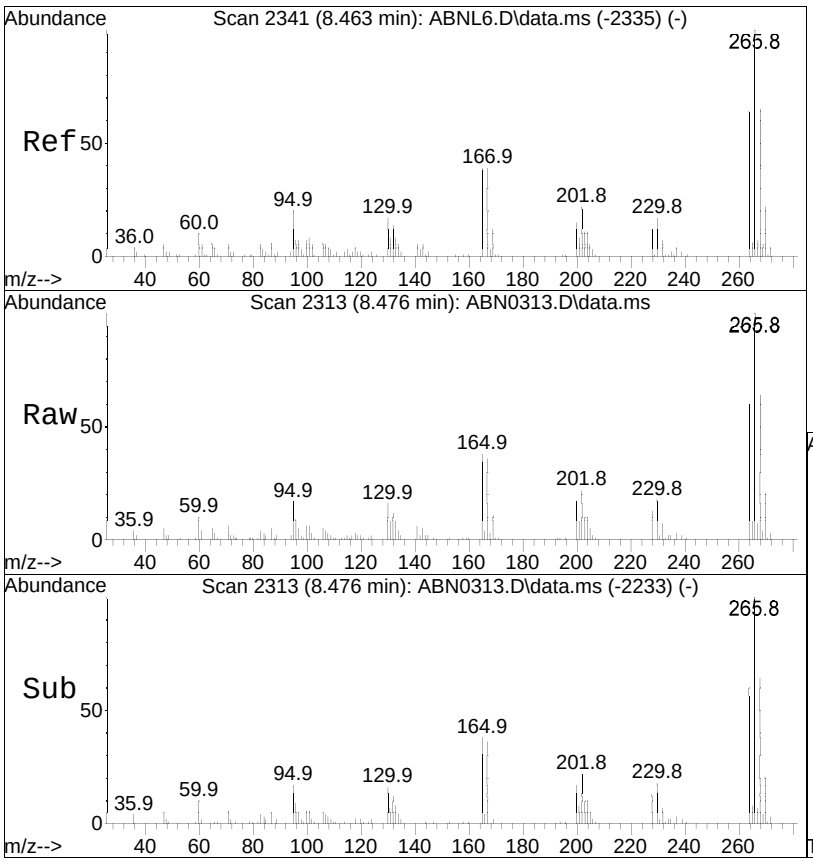


#83
Hexachlorobenzene
Concen: 4.83 ug/ml
RT: 8.277 min Scan# 2249
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:284 Resp: 46785

Ion	Ratio	Lower	Upper
284	100		
142	26.8	41.9	62.9#
249	29.1	24.1	36.1

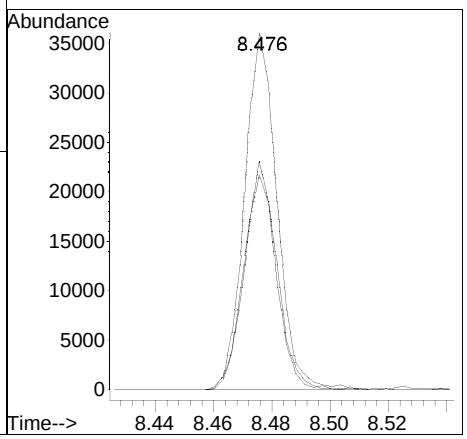


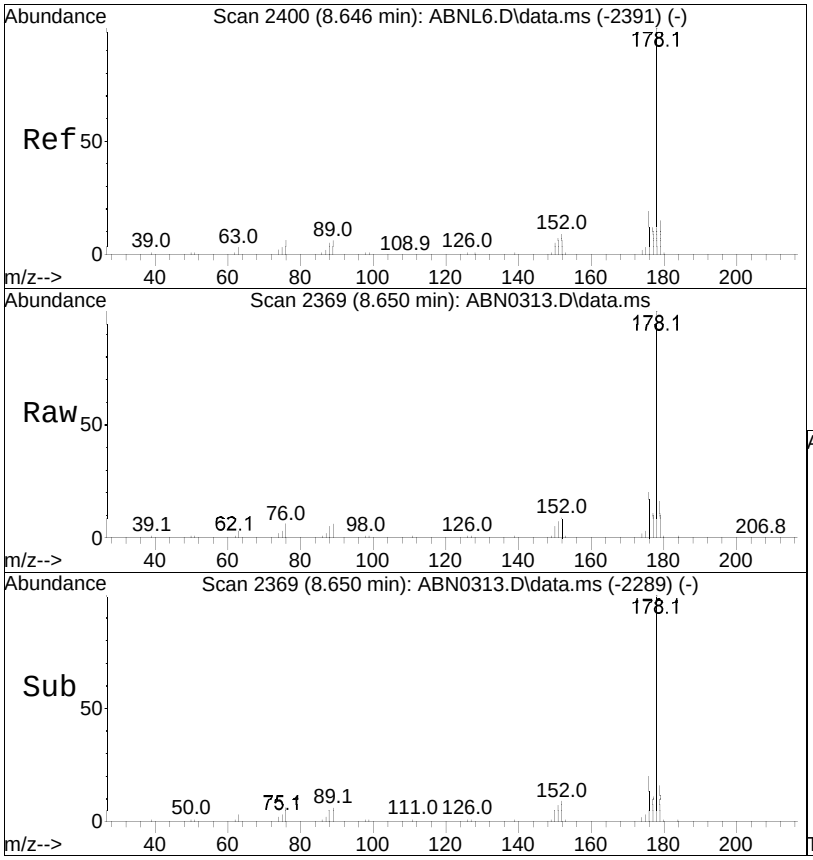


#84
Pentachlorophenol
Concen: 5.32 ug/ml
RT: 8.476 min Scan# 2313
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:266 Resp: 27955

Ion	Ratio	Lower	Upper
266	100		
264	62.0	49.7	74.5
268	63.5	50.5	75.7

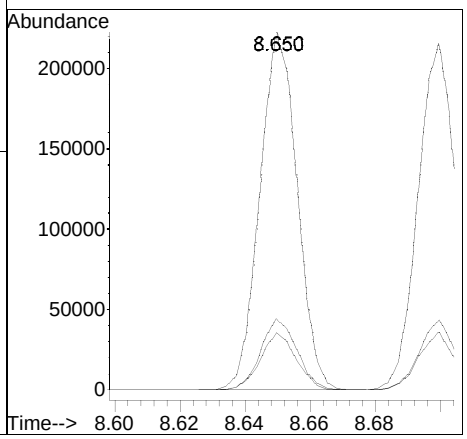


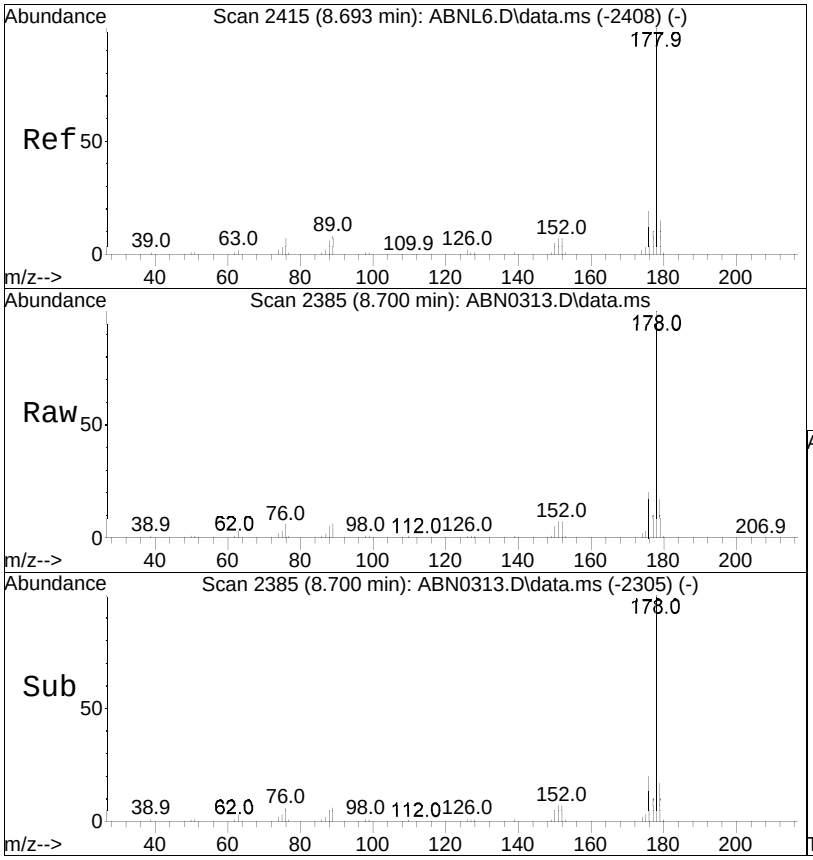


#91
Phenanthrene
Concen: 4.34 ug/ml
RT: 8.650 min Scan# 2369
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:178 Resp: 177118

Ion	Ratio	Lower	Upper
178	100		
179	15.2	12.2	18.2
176	19.2	15.4	23.2

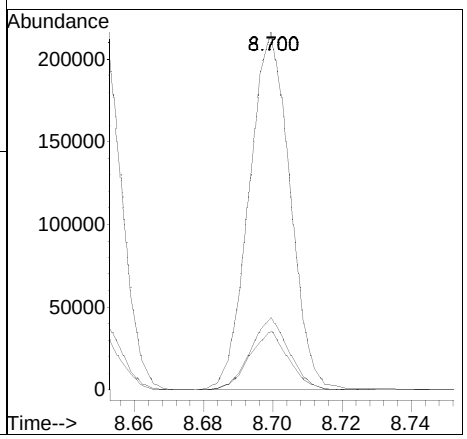


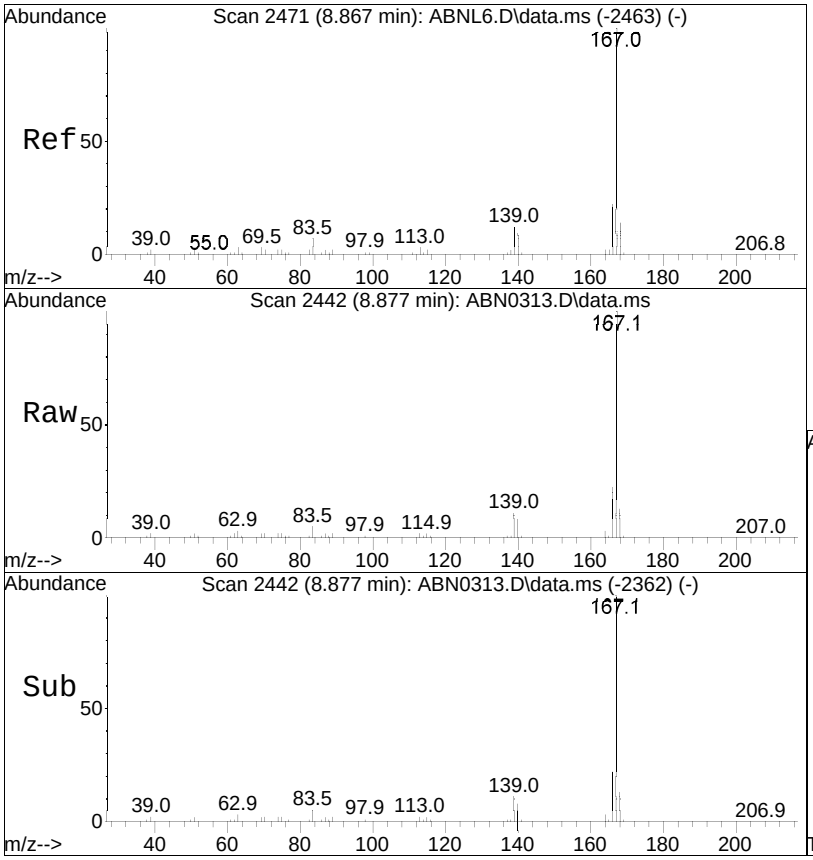


#92
Anthracene
Concen: 4.43 ug/ml
RT: 8.700 min Scan# 2385
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:178 Resp: 177326

Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.0	18.0
176	19.1	14.6	22.0

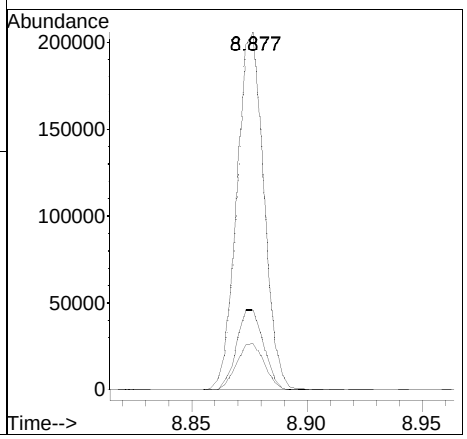


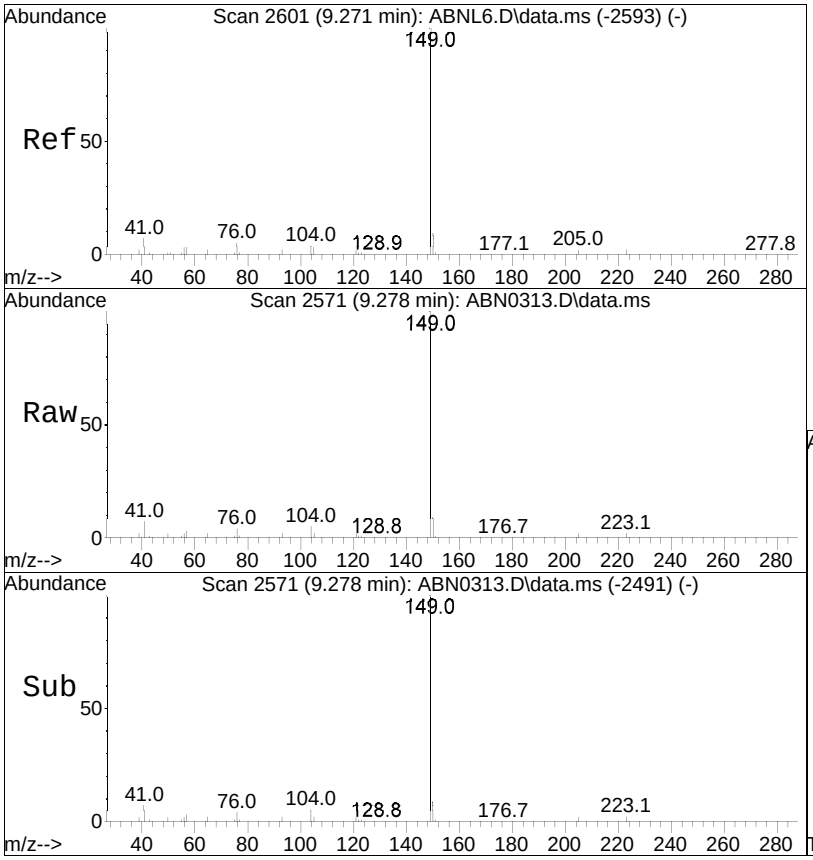


#93
Carbazole
Concen: 4.52 ug/ml
RT: 8.877 min Scan# 2442
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:167 Resp: 165979

Ion	Ratio	Lower	Upper
167	100		
168	13.6	10.6	15.8
166	22.6	17.4	26.0

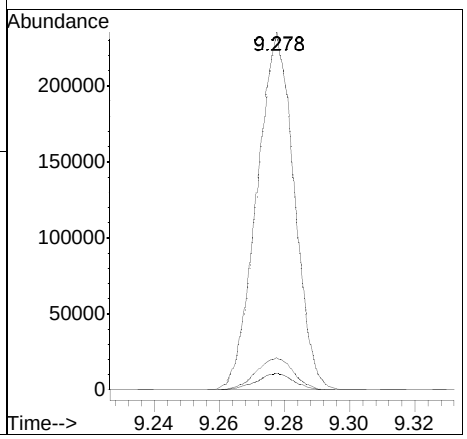


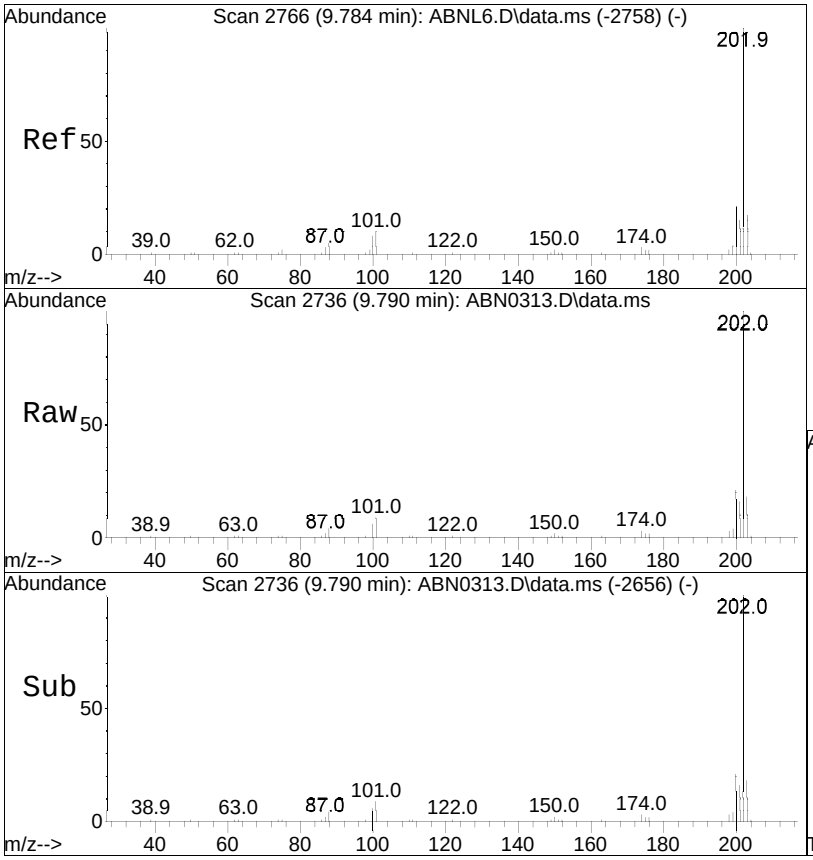


#94
Di-n-butylphthalate
Concen: 4.44 ug/ml
RT: 9.278 min Scan# 2571
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:149 Resp: 184788

Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.0	10.6
104	4.6	4.5	6.7

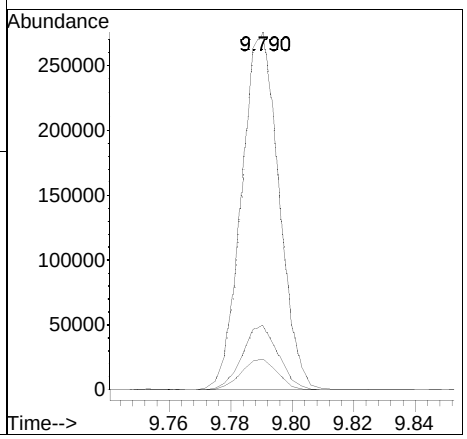


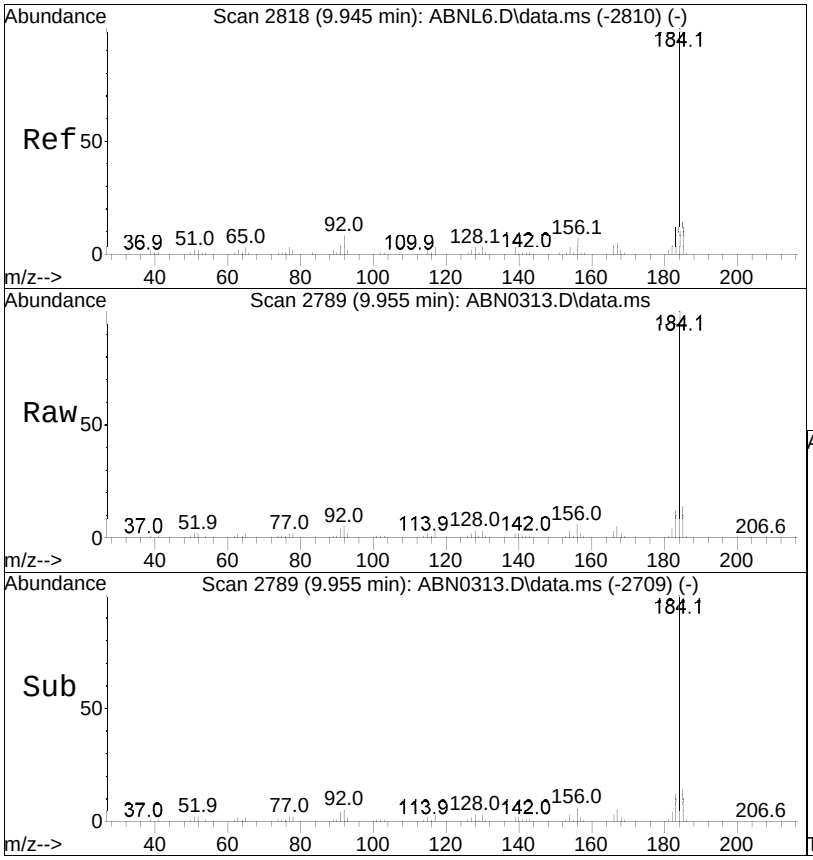


#95
Fluoranthene
Concen: 4.71 ug/ml
RT: 9.790 min Scan# 2736
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:202 Resp: 230987

Ion	Ratio	Lower	Upper
202	100		
101	8.4	13.5	20.3#
203	17.4	13.6	20.4

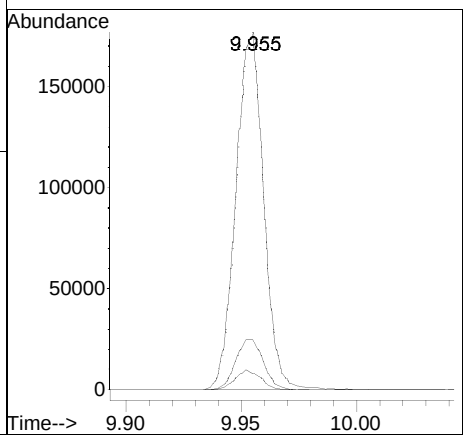


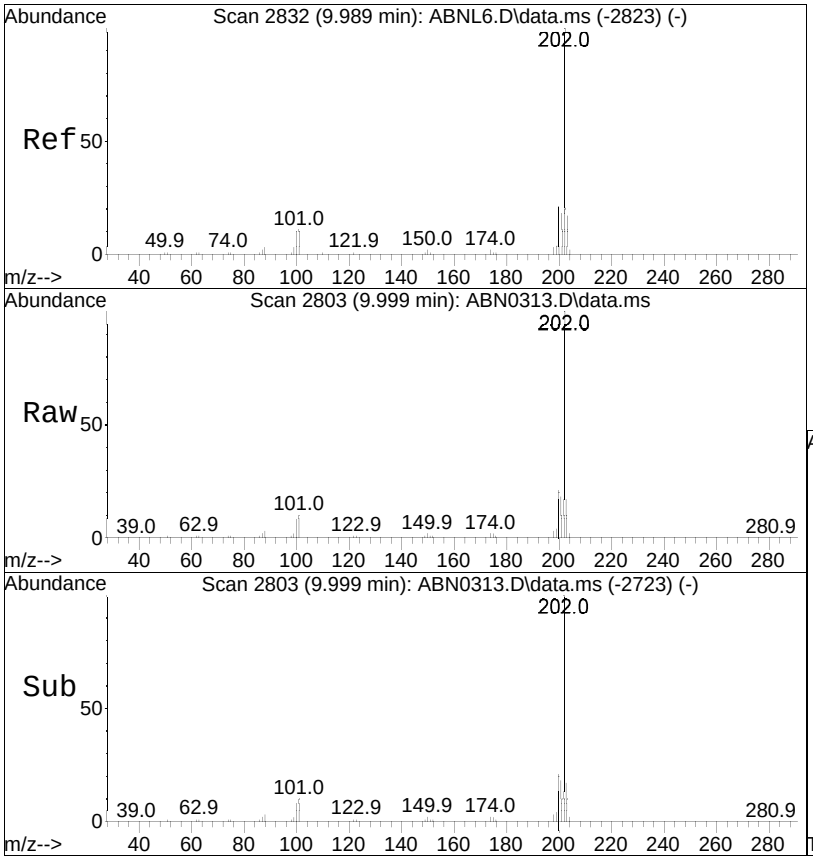


#96
Benzidine
Concen: 5.48 ug/ml
RT: 9.955 min Scan# 2789
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:184 Resp: 145856

Ion	Ratio	Lower	Upper
184	100		
92	5.3	9.1	13.7#
185	14.2	11.1	16.7

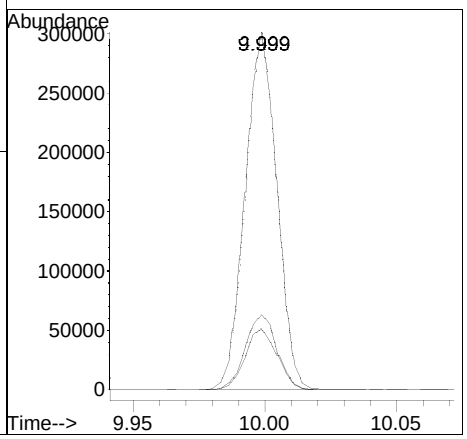


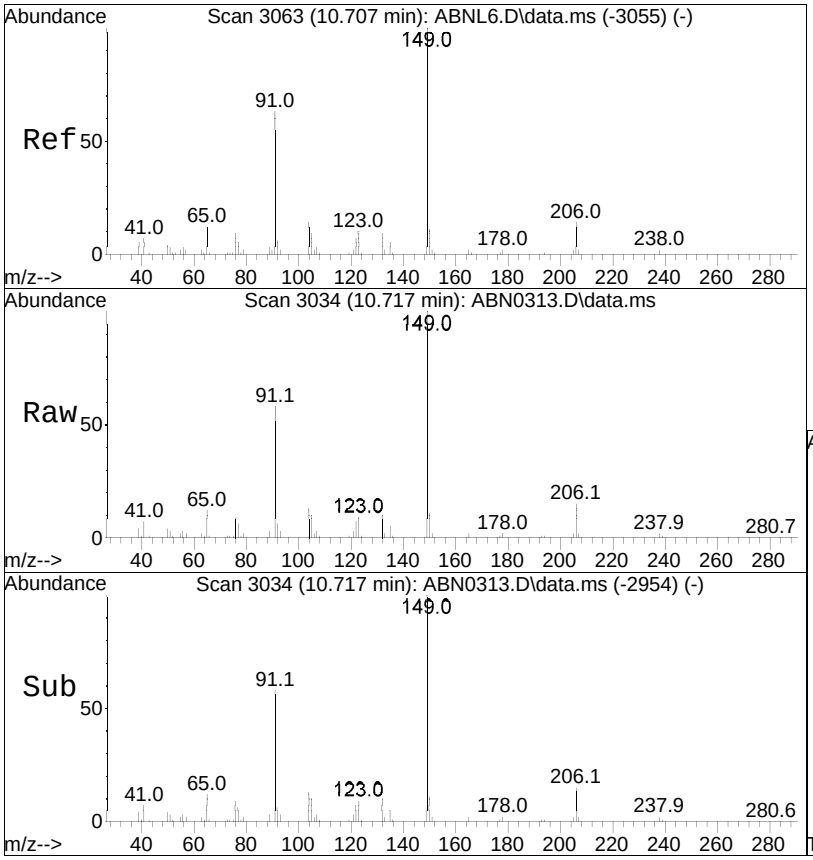


#97
Pyrene
Concen: 4.75 ug/ml
RT: 9.999 min Scan# 2803
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:202 Resp: 248886

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.7	25.1
203	17.3	14.2	21.4

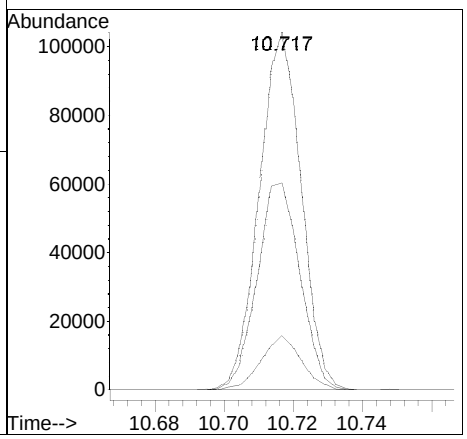


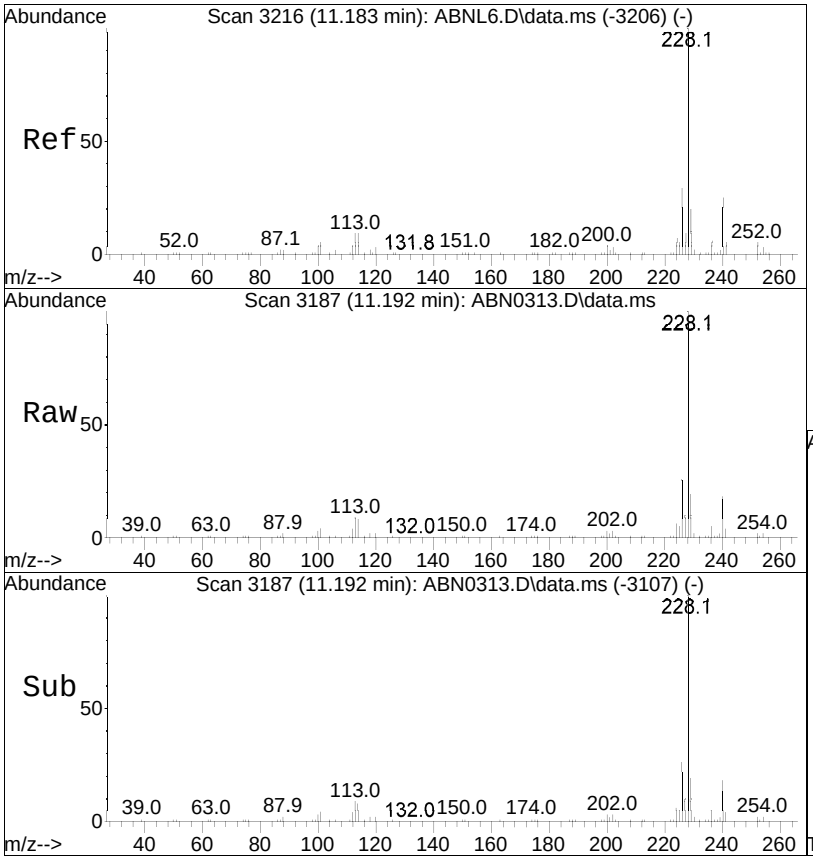


#99
Butyl benzyl phthalate
Concen: 4.86 ug/ml
RT: 10.717 min Scan# 3034
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:149 Resp: 86727

Ion	Ratio	Lower	Upper
149	100		
91	59.6	63.3	94.9#
206	14.7	13.9	20.9

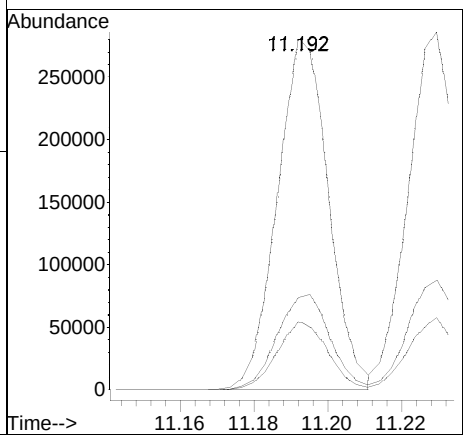


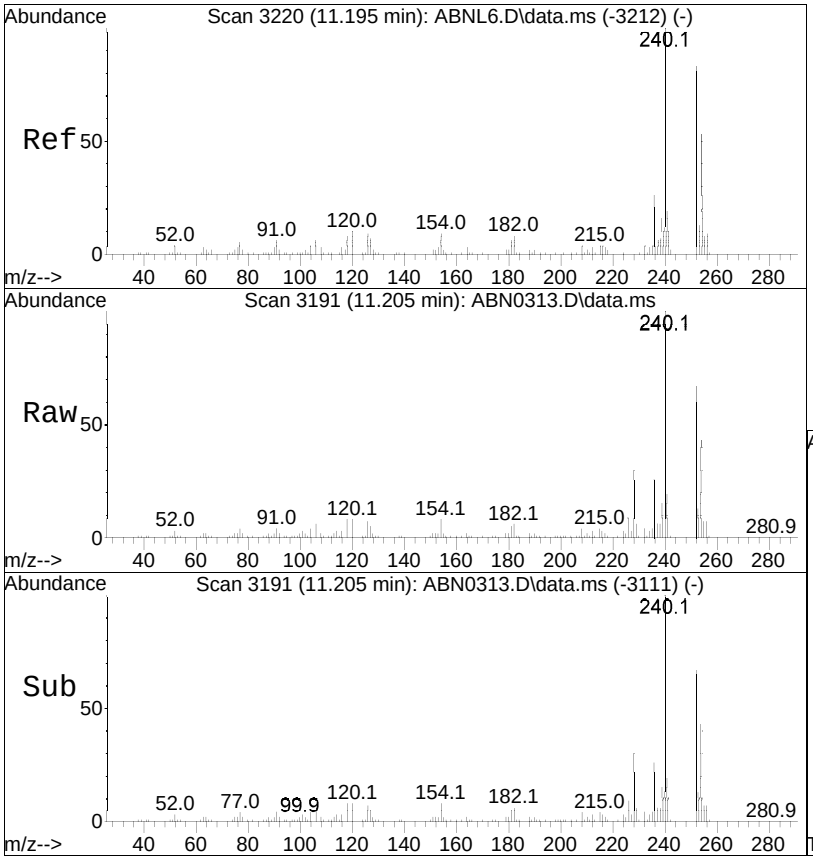


#107
Benzo(a)anthracene
Concen: 4.43 ug/ml
RT: 11.192 min Scan# 3187
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:228 Resp: 270029

Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.2	33.4
229	19.2	15.6	23.4

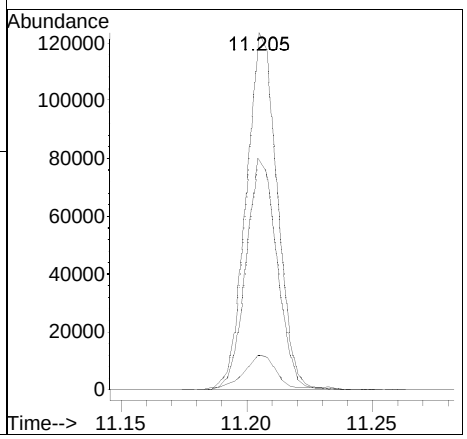


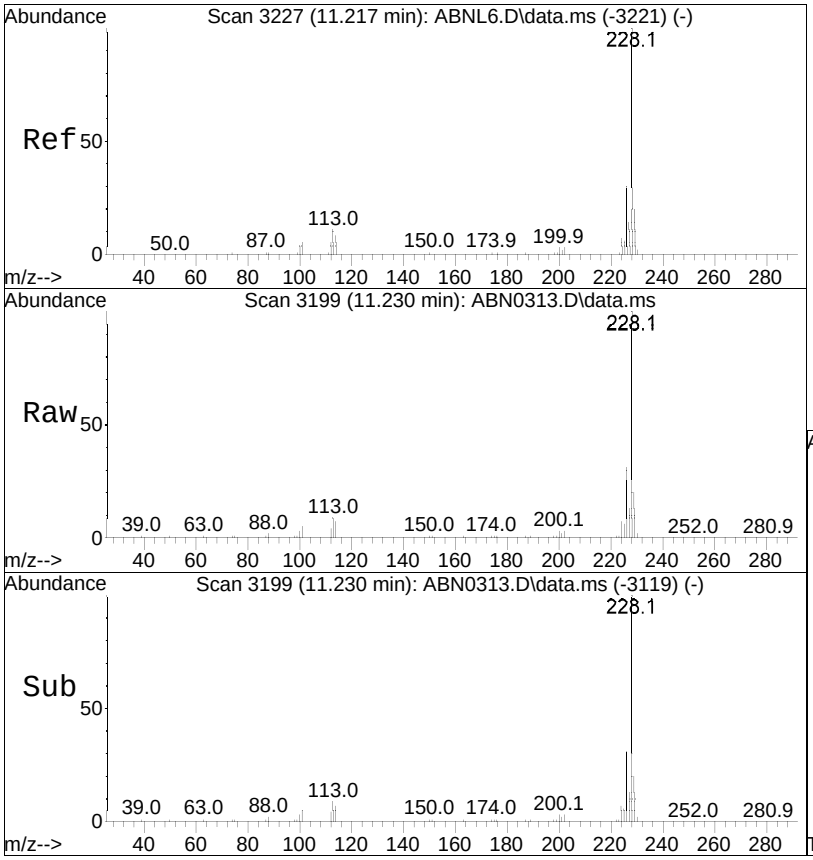


#108
3,3'-Dichlorobenzidine
Concen: 4.64 ug/ml
RT: 11.205 min Scan# 3191
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:252 Resp: 105224

Ion	Ratio	Lower	Upper
252	100		
126	10.5	14.5	21.7#
254	65.2	51.2	76.8

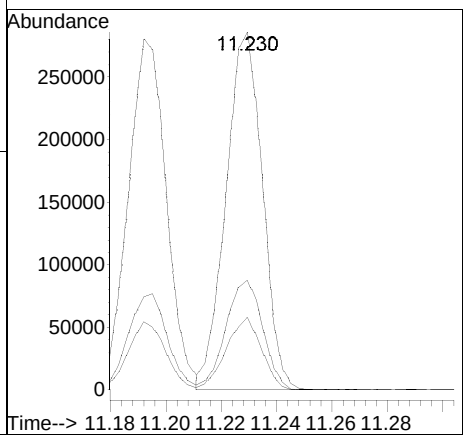


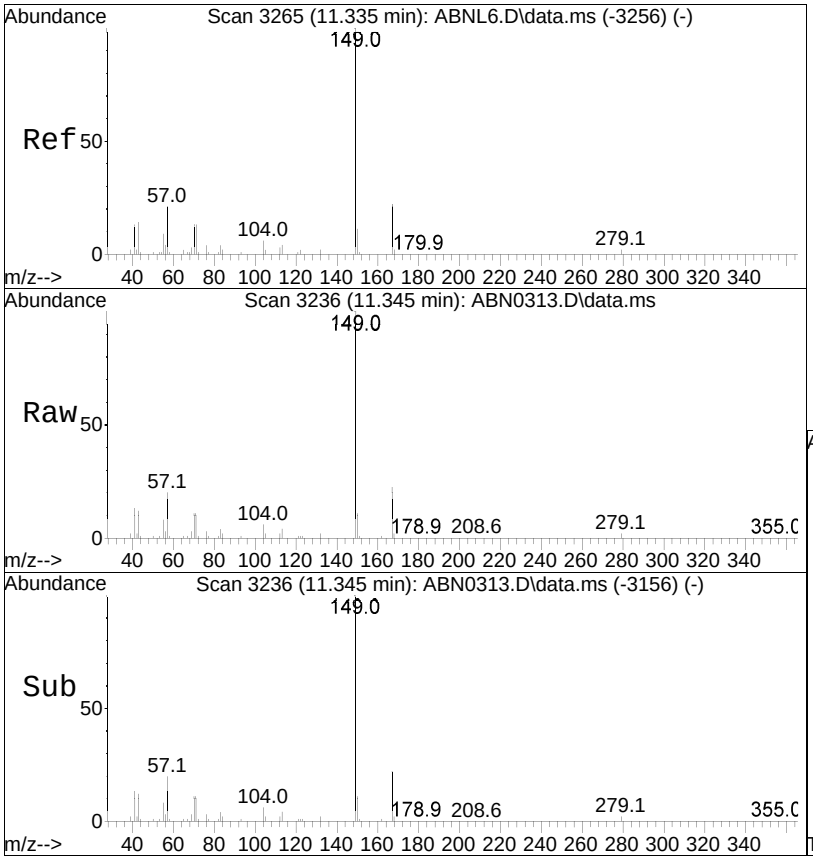


#109
Chrysene
Concen: 4.33 ug/ml
RT: 11.230 min Scan# 3199
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:228 Resp: 262392

Ion	Ratio	Lower	Upper
228	100		
226	31.1	24.0	36.0
229	19.6	15.8	23.8

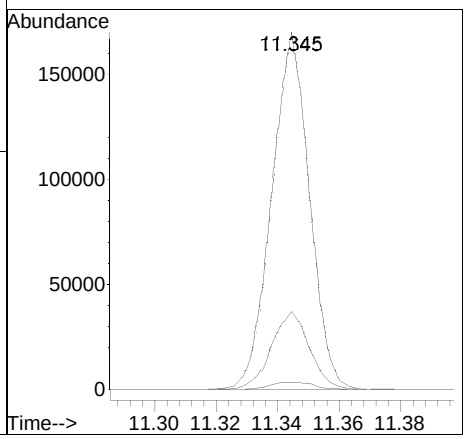


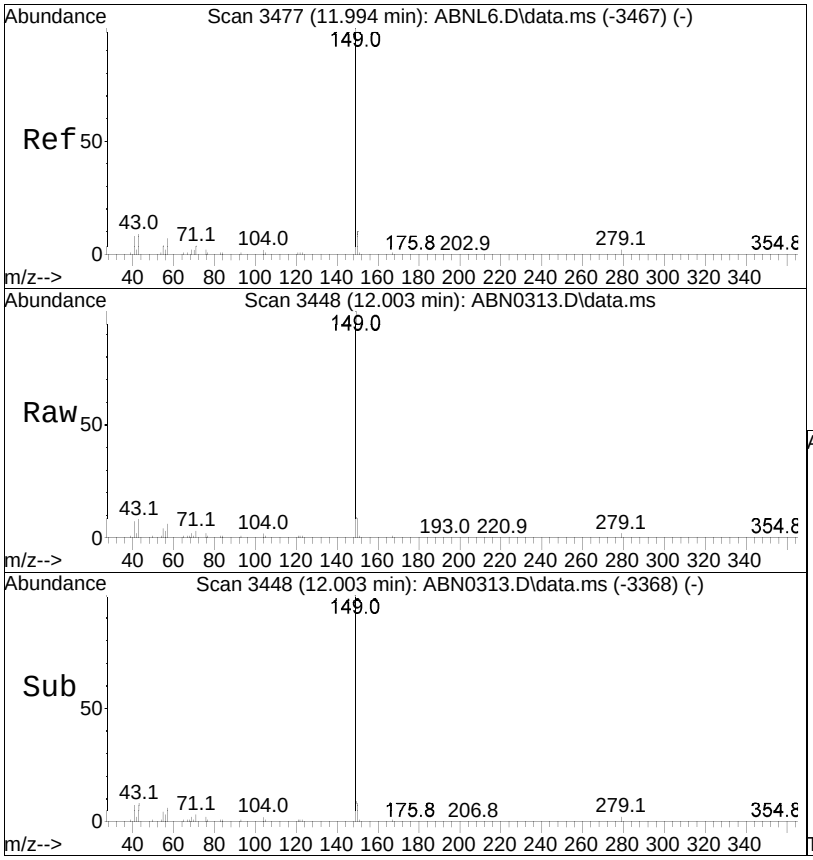


#110
Bis(2-ethylhexyl)phthalate
Concen: 4.38 ug/ml
RT: 11.345 min Scan# 3236
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:149 Resp: 143192

Ion	Ratio	Lower	Upper
149	100		
167	22.1	22.1	33.1
279	2.1	3.0	4.4#

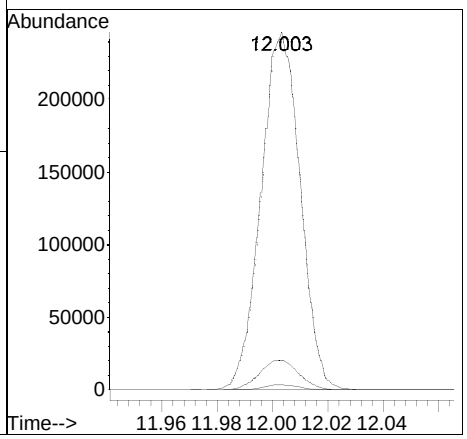


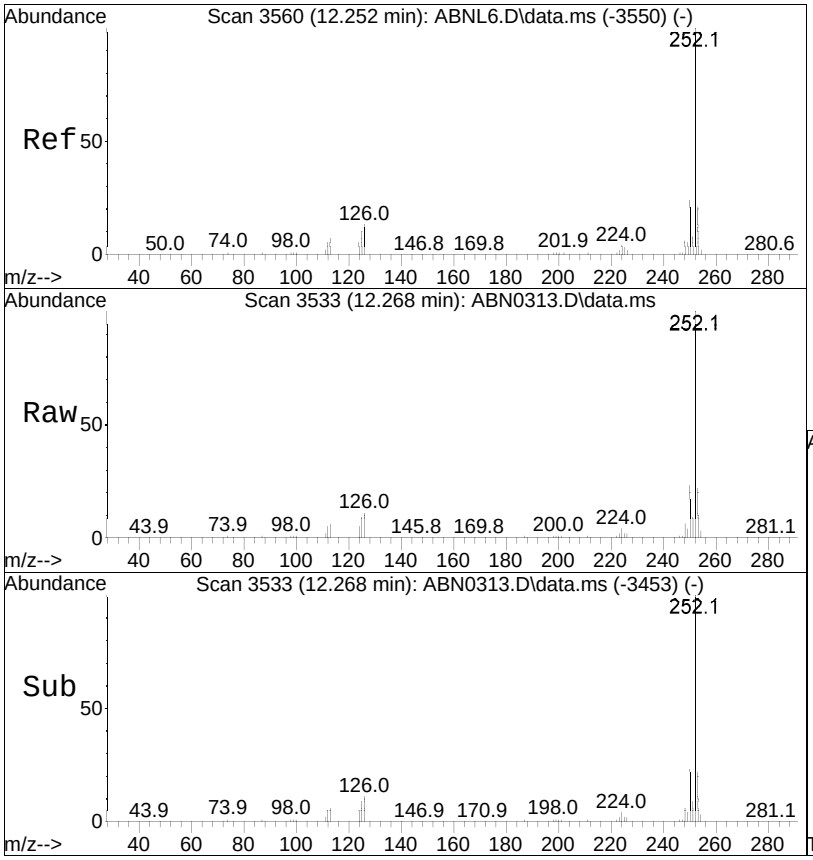


#111
Di-n-octylphthalate
Concen: 4.40 ug/ml
RT: 12.003 min Scan# 3448
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:149 Resp: 239919

Ion	Ratio	Lower	Upper
149	100		
43	8.3	18.8	28.2#
167	1.2	1.3	1.9#

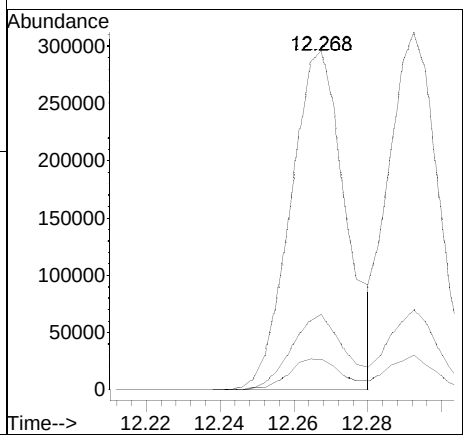


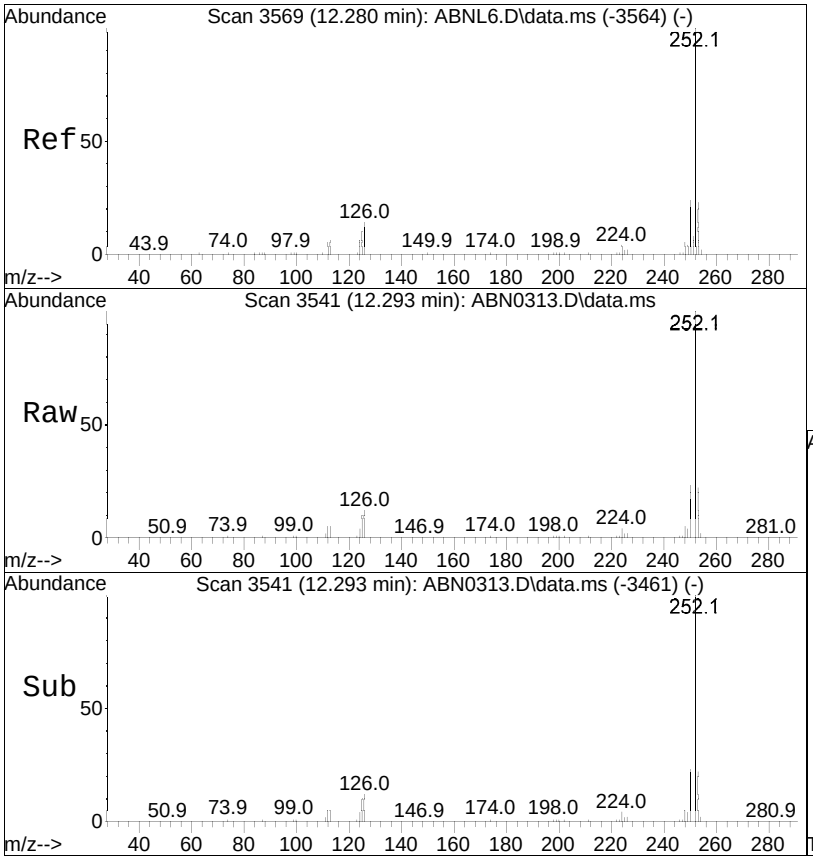


#112
Benzo(b)fluoranthene
Concen: 4.83 ug/ml
RT: 12.268 min Scan# 3533
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:252 Resp: 308072

Ion	Ratio	Lower	Upper
252	100		
125	9.1	13.3	19.9#
253	21.6	17.1	25.7

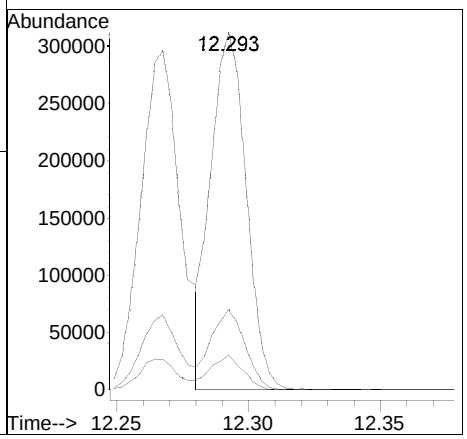


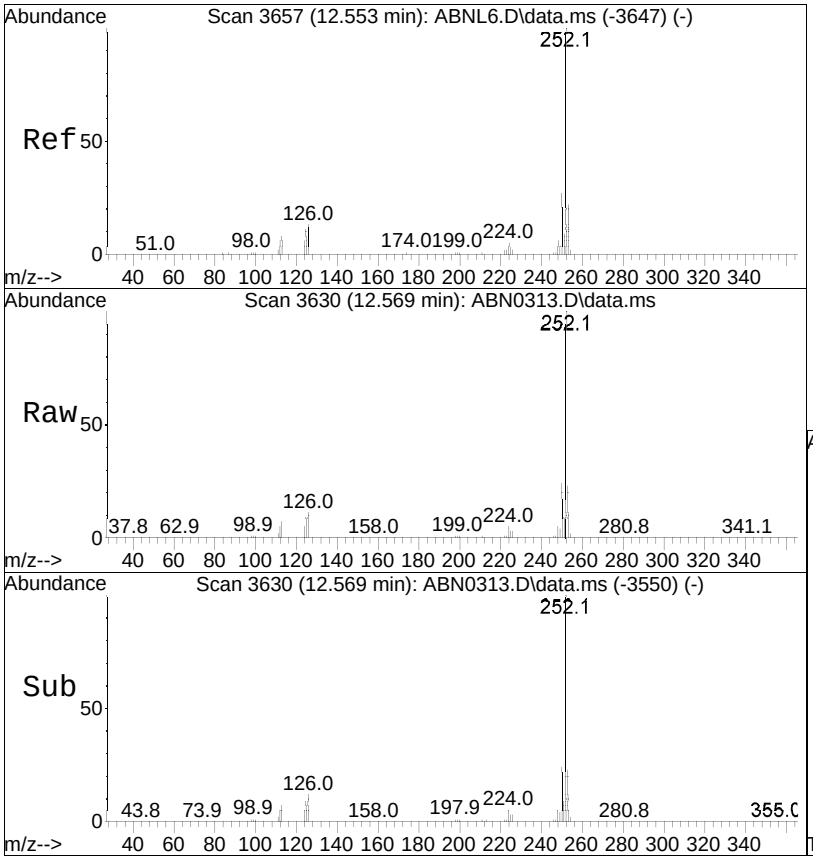


#113
Benzo(k)fluoranthene
Concen: 4.68 ug/ml
RT: 12.293 min Scan# 3541
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:252 Resp: 291056

Ion	Ratio	Lower	Upper
252	100		
125	8.8	13.0	19.6#
253	21.7	16.8	25.2

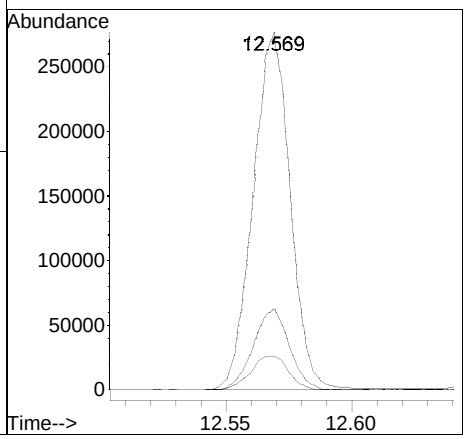


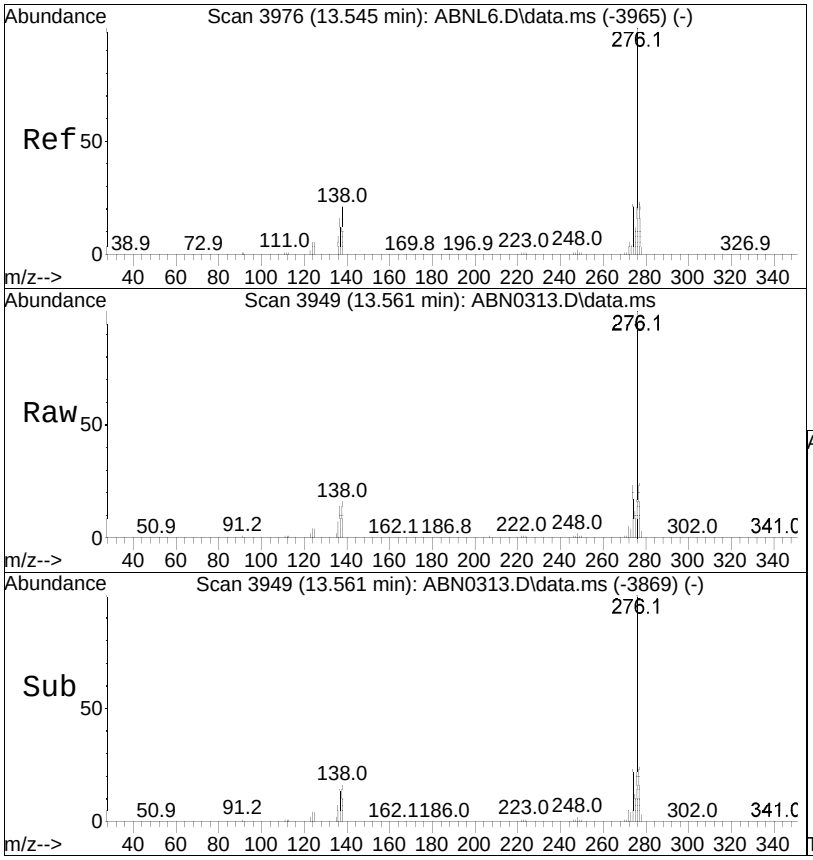


#114
Benzo(a)pyrene
Concen: 4.93 ug/ml
RT: 12.569 min Scan# 3630
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:252 Resp: 280677

Ion	Ratio	Lower	Upper
252	100		
125	9.9	14.2	21.2#
253	22.4	16.9	25.3

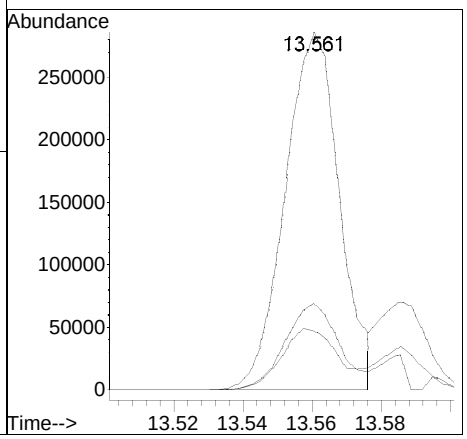


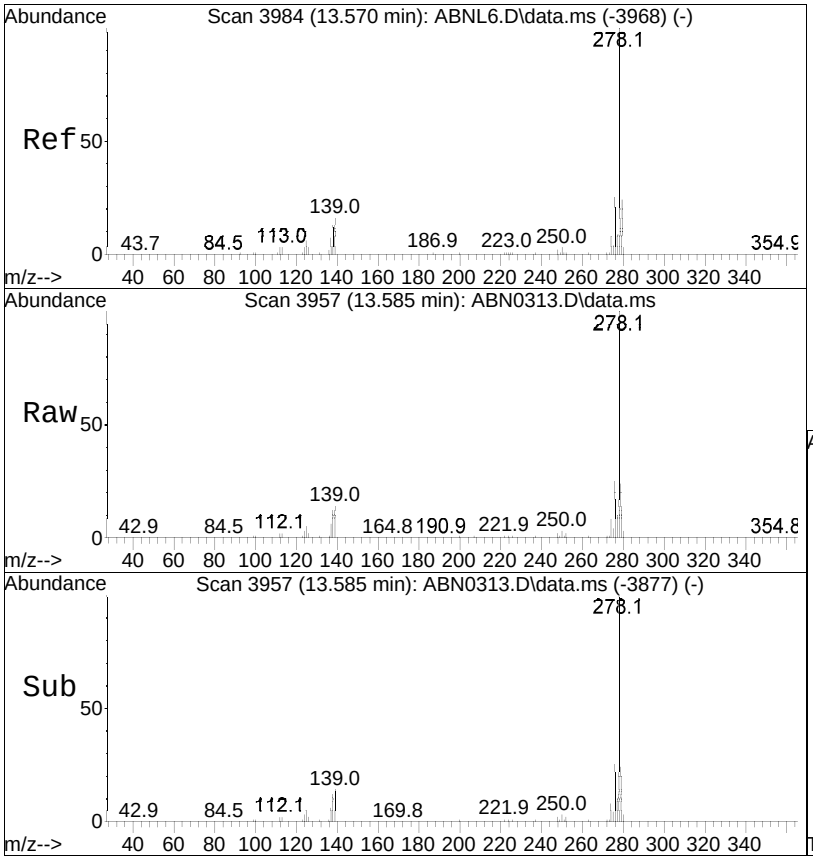


#116
Indeno(1,2,3-cd)pyrene
Concen: 4.62 ug/mL
RT: 13.561 min Scan# 3949
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:276 Resp: 311473

Ion	Ratio	Lower	Upper
276	100		
138	17.7	25.1	37.7#
277	24.2	18.6	28.0

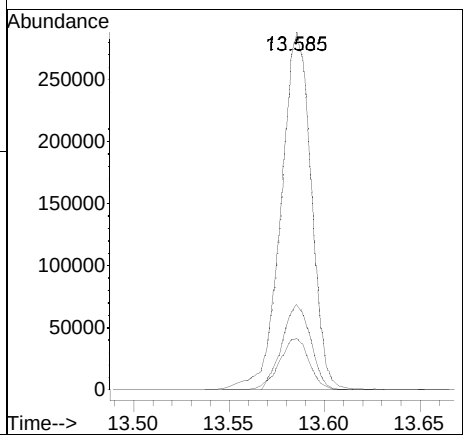


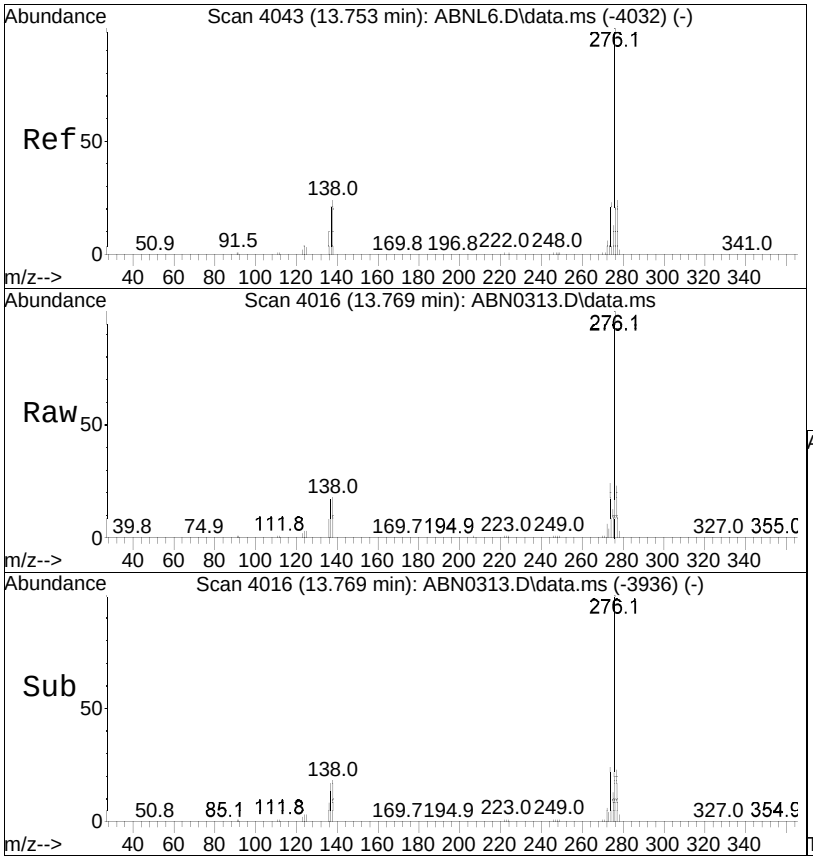


#117
Dibenzo(a,h)anthracene
Concen: 4.76 ug/ml
RT: 13.585 min Scan# 3957
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:278 Resp: 315611

Ion	Ratio	Lower	Upper
278	100		
139	13.9	20.8	31.2#
279	23.3	18.3	27.5

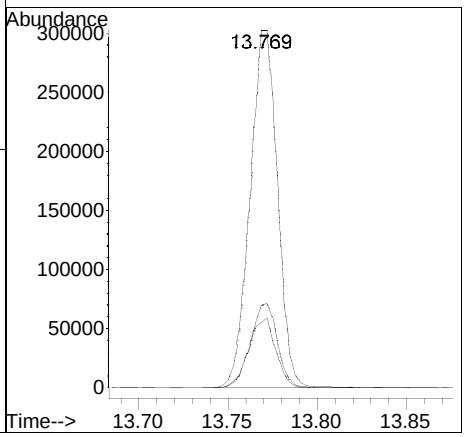




#118
Benzo(ghi)perylene
Concen: 4.90 ug/ml
RT: 13.769 min Scan# 4016
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 8:16 am

Tgt Ion:276 Resp: 319629

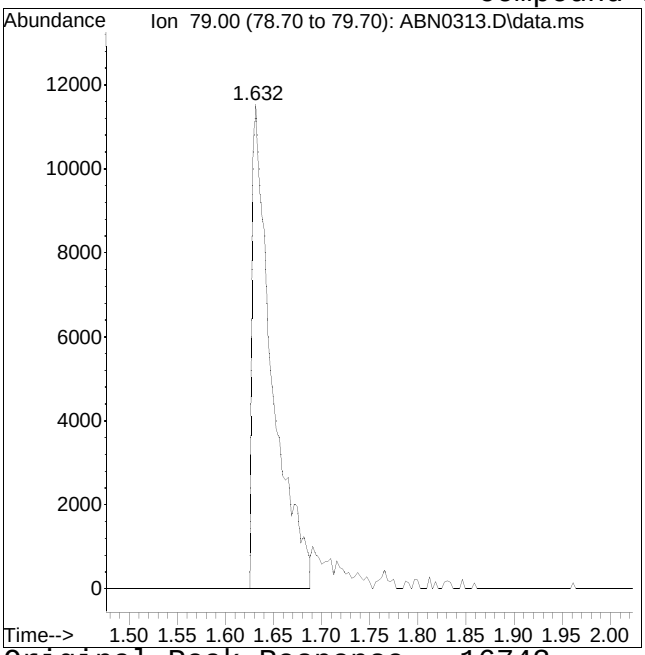
Ion	Ratio	Lower	Upper
276	100		
138	19.2	29.2	43.8#
277	23.4	18.8	28.2



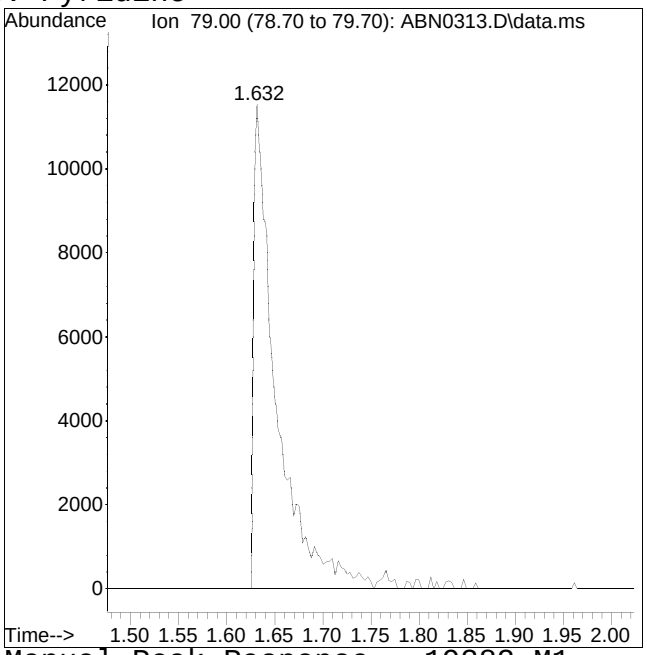
Manual Integration Report

Data Path : I:\8270\Dakota\250313RVT\ QMethod : FS241105RVT_Dakota.m
Data File : ABN0313.D Operator : Dakota:smz
Date Inj'd : 3/13/2025 8:16 am Instrument : Dakota
Sample : wg2040097-3,32,,ABN 11297 Quant Date : 3/13/2025 9:43 am

Compound #3: Pyridine



Original Peak Response = 16743



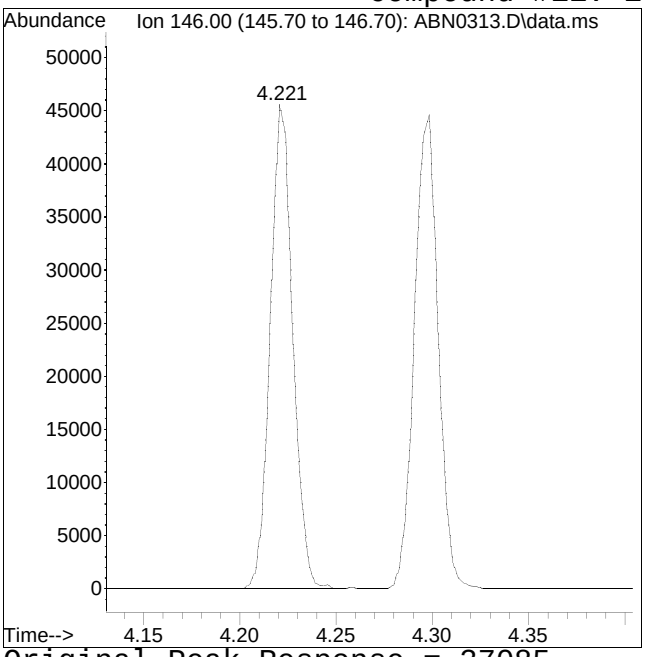
Manual Peak Response = 19282 M1

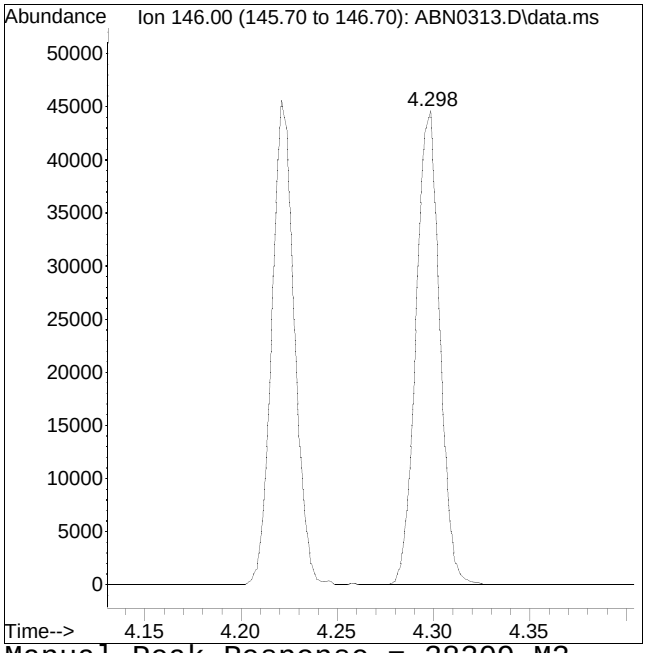
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270\Dakota\250313RVT\ QMethod : FS241105RVT_Dakota.m
Data File : ABN0313.D Operator : Dakota:smz
Date Inj'd : 3/13/2025 8:16 am Instrument : Dakota
Sample : wg2040097-3,32,,ABN 11297 Quant Date : 3/13/2025 9:43 am

Compound #11: 1,4-Dichlorobenzene



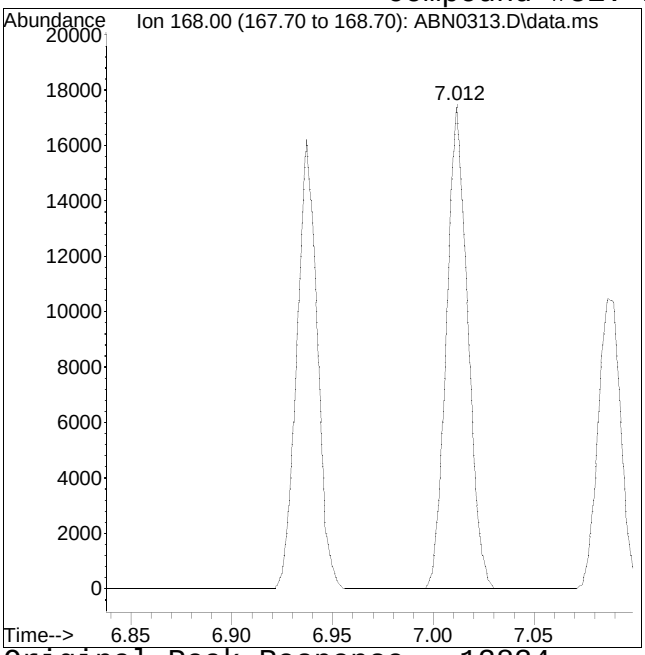


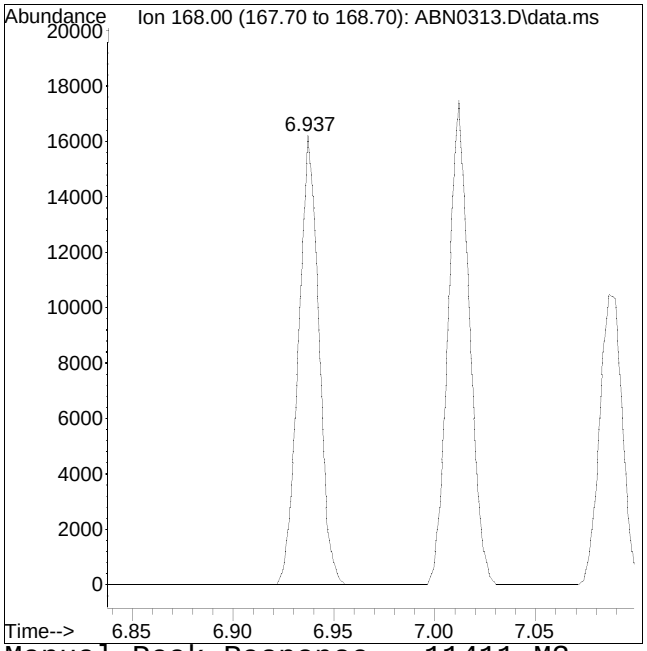
Original Peak Response = 37085 Manual Peak Response = 38309 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\Dakota\250313RVT\ QMethod : FS241105RVT_Dakota.m
Data File : ABN0313.D Operator : Dakota:smz
Date Inj'd : 3/13/2025 8:16 am Instrument : Dakota
Sample : wg2040097-3,32,,ABN 11297 Quant Date : 3/13/2025 9:43 am

Compound #51: 1,4-Dinitrobenzene





Original Peak Response = 12834 Manual Peak Response = 11411 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\250313RVT\
Data File : AP90313.D
Acq On : 13 Mar 2025 8:39 am
Operator : Dakota:smz
Sample : wg2040097-4,32,,AP9 11152 gmr0304B
Misc : wg2040097,,ical21680
ALS Vial : 97 Sample Multiplier: 1

Quant Time: Mar 13 09:52:45 2025
Quant Method : I:\8270\Dakota\250313RVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 09:53:36 2025
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	68	0.00
28	T	Benzaldehyde	0.703	0.726	-3.3	65	0.00
29	T	Acetophenone	1.403	1.574	-12.2	74	0.00
30	T	m-Toluidine	1.287	1.396	-8.5	72	0.00
31	T	2-Chloroaniline	1.368	1.559	-14.0	75	0.00
57	I	IS2_Naphthalene-d8	1.000	1.000	0.0	77	0.00
58	T	a-Terpineol	0.221	0.216	2.3	71	0.00
59	T	3-Chloroaniline	0.115	0.112	2.6	69	0.00
60	T	2,6-Dichlorophenol	0.296	0.351	-18.6	85	0.00
61	T	1-chloro-2-nitrobenzene	0.113	0.134	-18.6	82	0.00
62	T	Caprolactam	0.123	0.122	0.8	74	0.00
63	T	1,2,4,5-Tetrachlorobenzene	0.413	0.477	-15.5	84	0.00
64	T	Biphenyl	0.842	0.957	-13.7	82	0.00
85	I	IS2_Acenaphthene-d10	1.000	1.000	0.0	80	0.00
86	T	Dichloran	0.169	0.198	-17.2	95	0.00
87	T	Pentachloronitrobenzene	0.187	0.219	-17.1	97	0.00
100	I	IS2_Phenanthrene-d10	1.000	1.000	0.0	87	0.00
101	T	Diphenamid	0.416	0.459	-10.3	92	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250313RVT\
Data File : AP90313.D
Acq On : 13 Mar 2025 8:39 am
Operator : Dakota:smz
Sample : wg2040097-4,32,,AP9 11152 gmr0304B
Misc : wg2040097,,ical21680
ALS Vial : 97 Sample Multiplier: 1

Quant Time: Mar 13 09:52:45 2025
Quant Method : I:\8270\Dakota\250313RVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 09:53:36 2025
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
	Internal Standards						
27)	IS2_1,4-Dichlorobenzen...	4.283	152	19371	4.000	ug/ml	0.00
57)	IS2_Naphthalene-d8	5.520	136	75825	4.000	ug/ml	0.00
85)	IS2_Acenaphthene-d10	7.214	164	51321	4.000	ug/ml	0.00
100)	IS2_Phenanthrene-d10	8.628	188	124221	4.000	ug/ml	0.00
	System Monitoring Compounds						
	Target Compounds						Qvalue
28)	Benzaldehyde	3.845	105	17569	5.157	ug/ml	96
29)	Acetophenone	4.697	105	38114	5.608	ug/ml#	78
30)	m-Toluidine	4.780	106	33802	5.424	ug/ml	94
31)	2-Chloroaniline	5.138	127	37739	5.697	ug/ml#	89
58)	a-Terpineol	5.589	59	20462	4.875	ug/ml#	74
59)	3-Chloroaniline	5.607	65	10650	4.903	ug/ml	79
60)	2,6-Dichlorophenol	5.632	162	33311	5.945	ug/ml#	79
61)	1-chloro-2-nitrobenzene	5.881	111	12671	5.892	ug/ml#	1
62)	Caprolactam	5.921	55	11596	4.977	ug/ml#	68
63)	1,2,4,5-Tetrachloroben...	6.390	216	45173	5.770	ug/ml	95
64)	Biphenyl	6.679	154	90726	5.687	ug/ml	98
86)	Dichloran	8.342	206	12683	5.851	ug/ml#	58
87)	Pentachloronitrobenzene	8.488	237	14042	5.866	ug/ml#	75
101)	Diphenamid	9.542	167	71305	5.520	ug/ml#	66

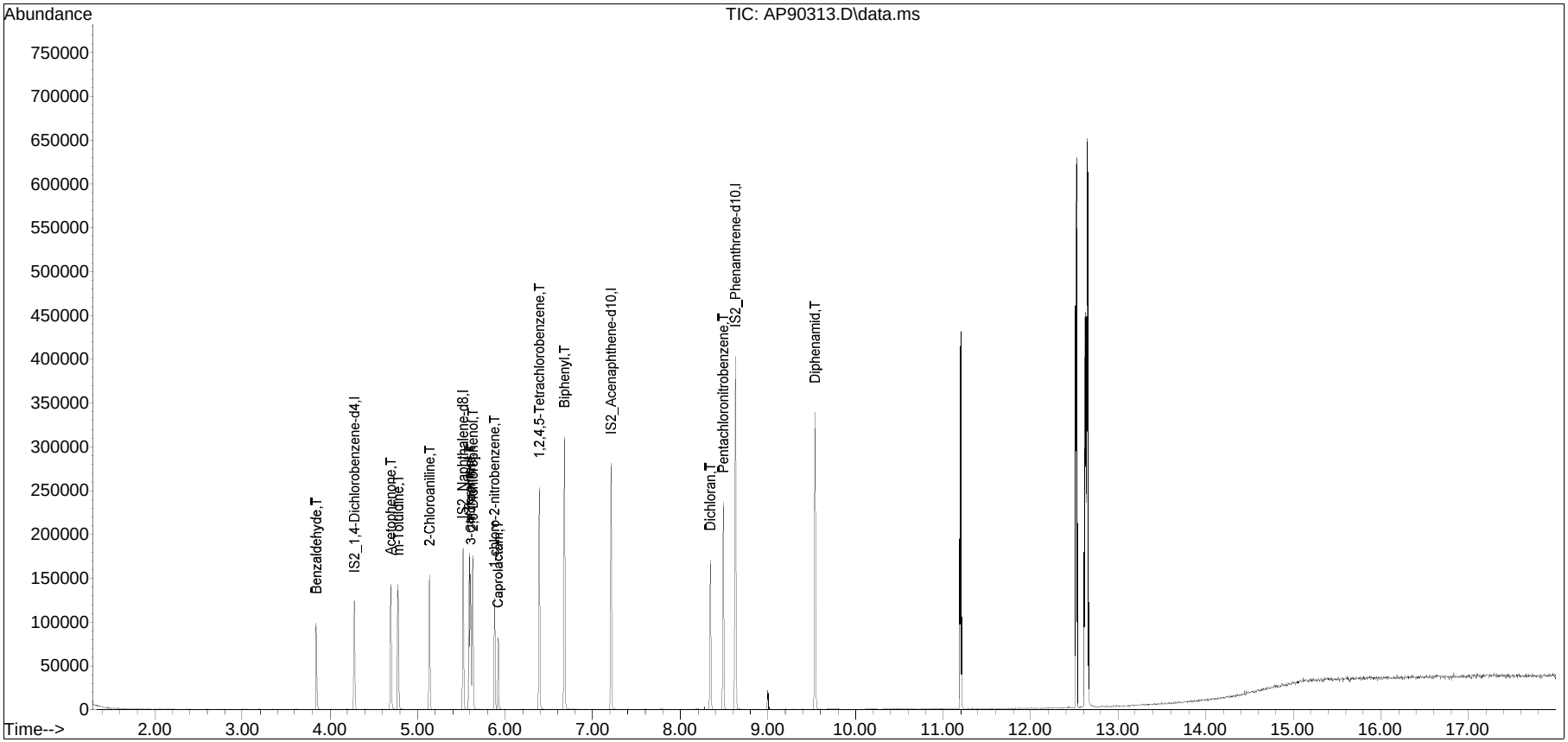
(#) = qualifier out of range (m) = manual integration (+) = signals summed

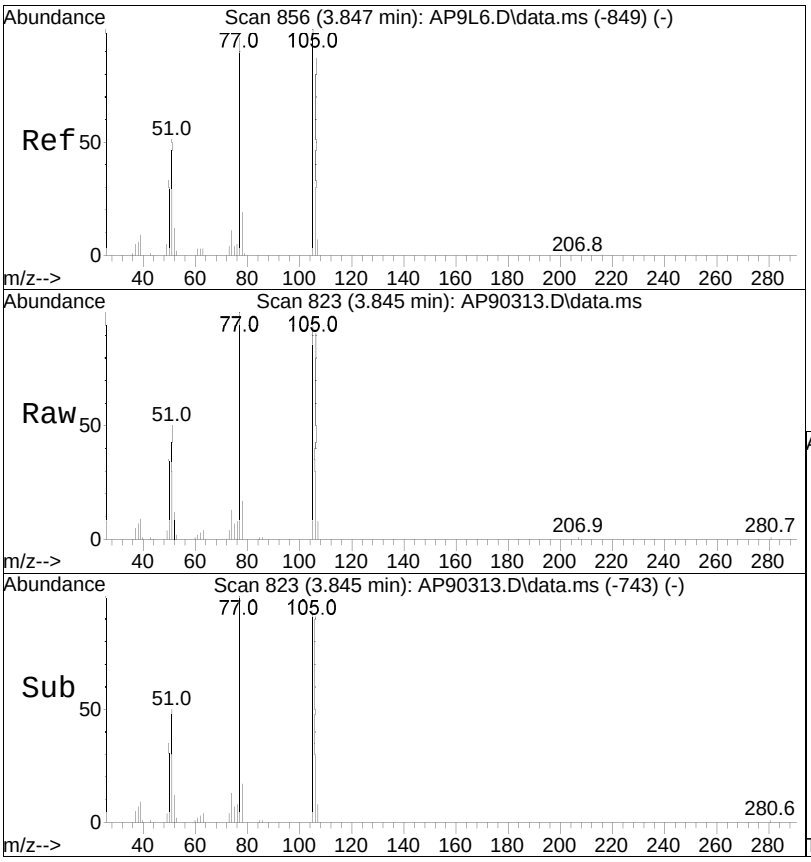
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250313RVT\
Data File : AP90313.D
Acq On : 13 Mar 2025 8:39 am
Operator : Dakota:smz
Sample : wg2040097-4,32,,AP9 11152 gmr0304B
Misc : wg2040097,,ical21680
ALS Vial : 97 Sample Multiplier: 1

Quant Time: Mar 13 09:52:45 2025
Quant Method : I:\8270\Dakota\250313RVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 09:53:36 2025
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

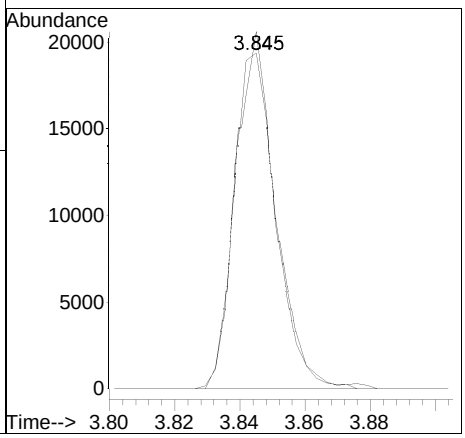


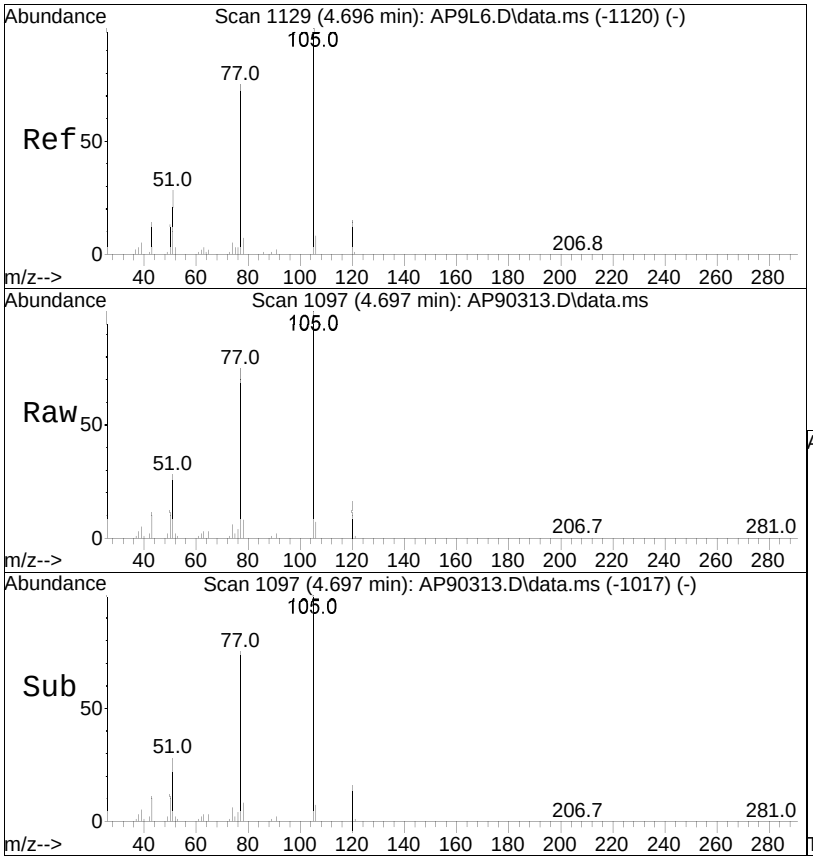


#28
Benzaldehyde
Concen: 5.16 ug/ml
RT: 3.845 min Scan# 823
Delta R.T. 0.000 min
Lab File: AP90313.D
Acq: 13 Mar 2025 8:39 am

Tgt Ion:105 Resp: 17569

Ion	Ratio	Lower	Upper
105	100		
77	99.1	82.2	123.4

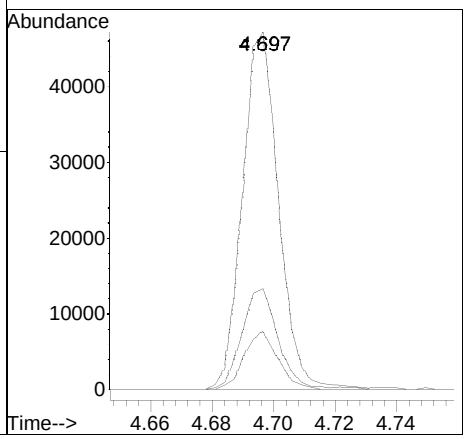


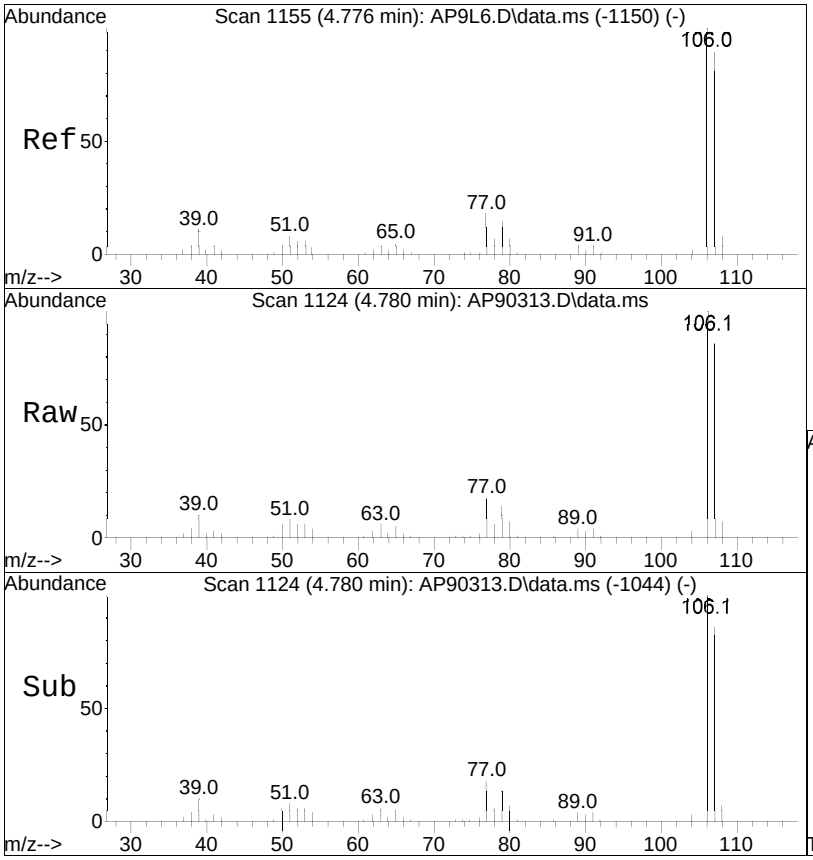


#29
Acetophenone
Concen: 5.61 ug/ml
RT: 4.697 min Scan# 1097
Delta R.T. 0.000 min
Lab File: AP90313.D
Acq: 13 Mar 2025 8:39 am

Tgt Ion:105 Resp: 38114

Ion	Ratio	Lower	Upper
105	100		
120	15.3	20.5	30.7#
51	28.7	34.9	52.3#

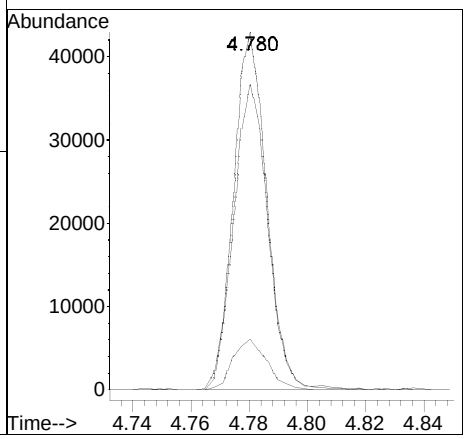


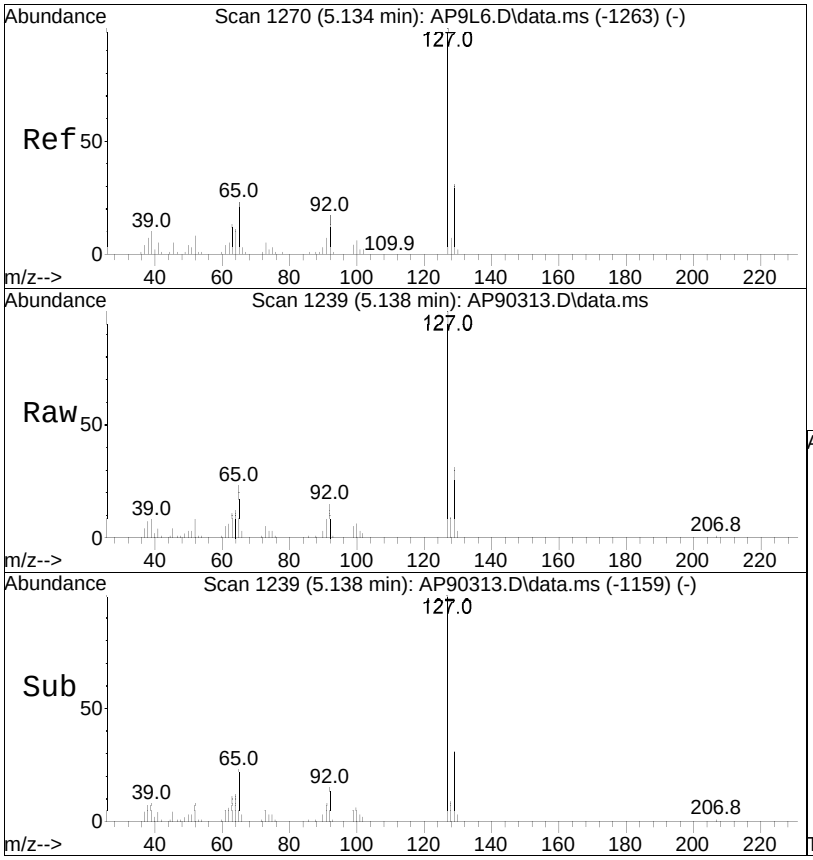


#30
m-Toluidine
Concen: 5.42 ug/ml
RT: 4.780 min Scan# 1124
Delta R.T. 0.000 min
Lab File: AP90313.D
Acq: 13 Mar 2025 8:39 am

Tgt Ion:106 Resp: 33802

Ion	Ratio	Lower	Upper
106	100		
107	87.7	75.7	113.5
79	14.6	11.8	17.8

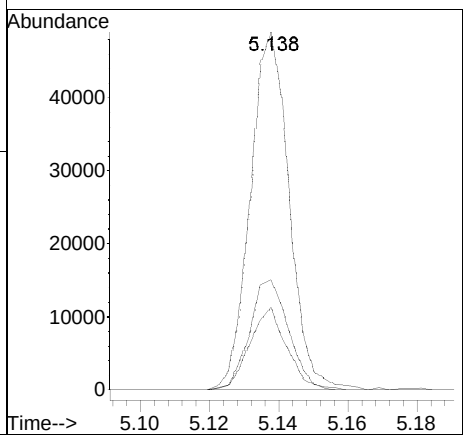


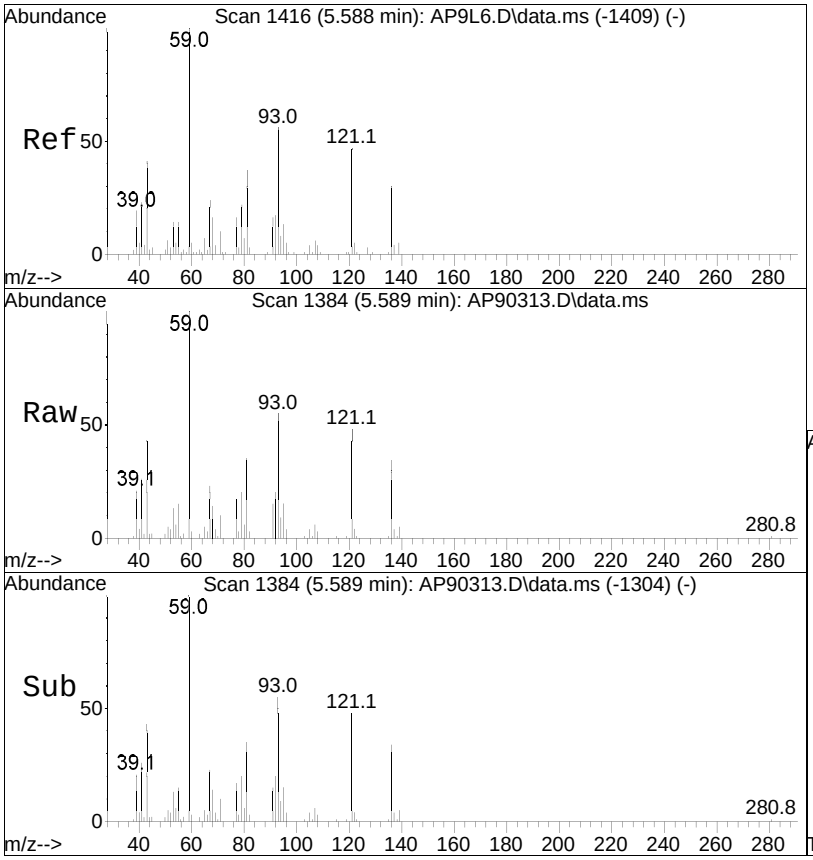


#31
2-Chloroaniline
Concen: 5.70 ug/ml
RT: 5.138 min Scan# 1239
Delta R.T. 0.000 min
Lab File: AP90313.D
Acq: 13 Mar 2025 8:39 am

Tgt Ion:127 Resp: 37739

Ion	Ratio	Lower	Upper
127	100		
129	31.2	25.9	38.9
65	22.0	26.3	39.5#

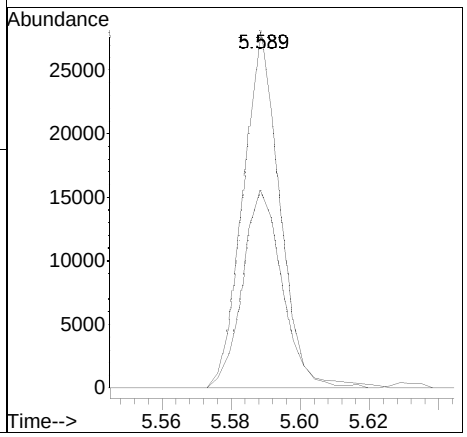


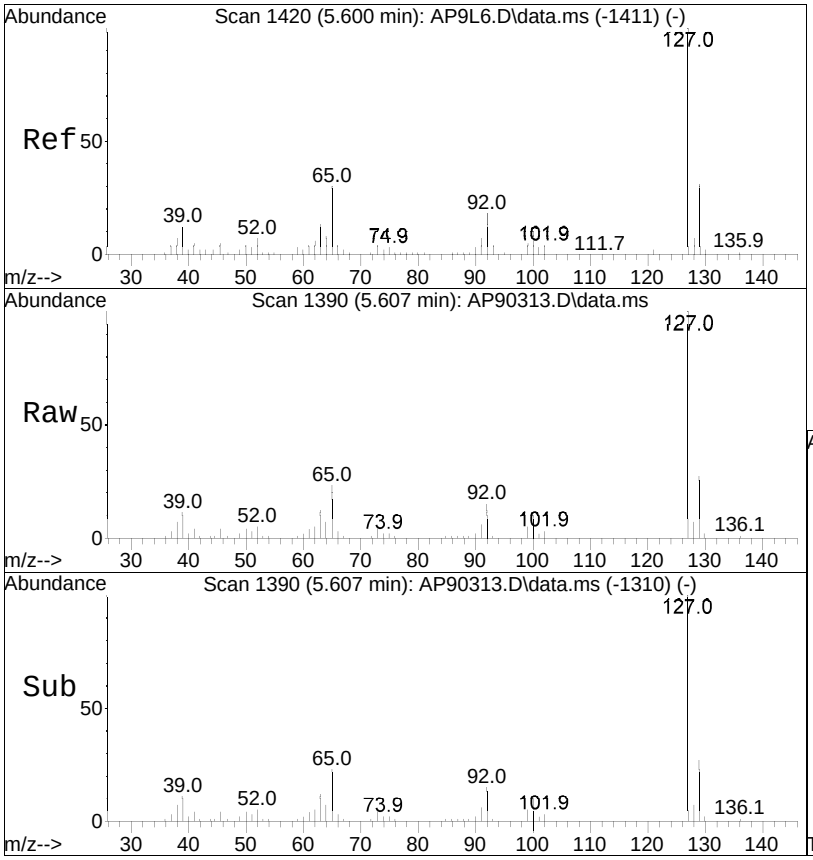


#58
a-Terpineol
Concen: 4.88 ug/ml
RT: 5.589 min Scan# 1384
Delta R.T. 0.000 min
Lab File: AP90313.D
Acq: 13 Mar 2025 8:39 am

Tgt Ion: 59 Resp: 20462

Ion	Ratio	Lower	Upper
59	100		
93	61.7	35.6	53.4#

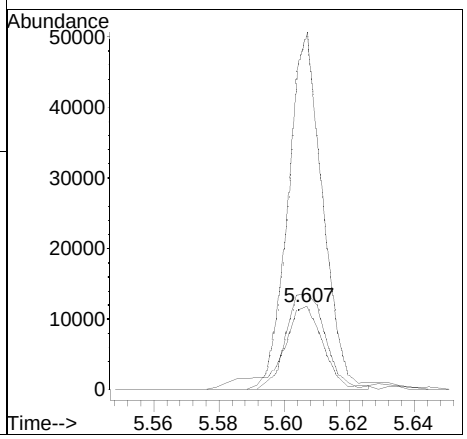


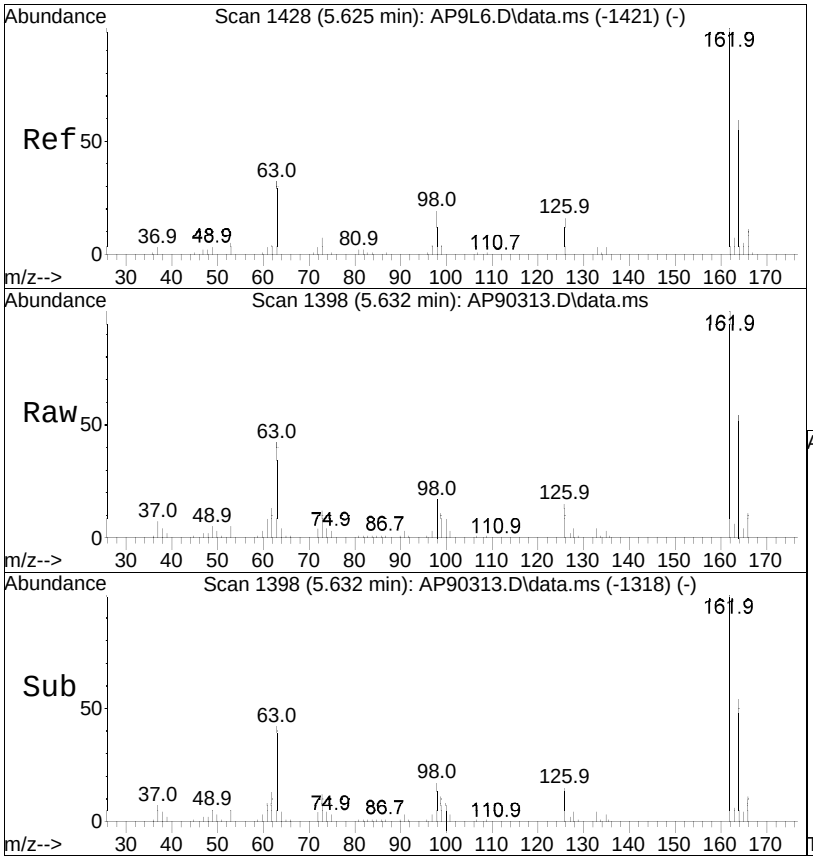


#59
3-Chloroaniline
Concen: 4.90 ug/ml
RT: 5.607 min Scan# 1390
Delta R.T. 0.000 min
Lab File: AP90313.D
Acq: 13 Mar 2025 8:39 am

Tgt Ion: 65 Resp: 10650

Ion	Ratio	Lower	Upper
65	100		
127	353.0	243.2	364.8
129	107.1	78.8	118.2

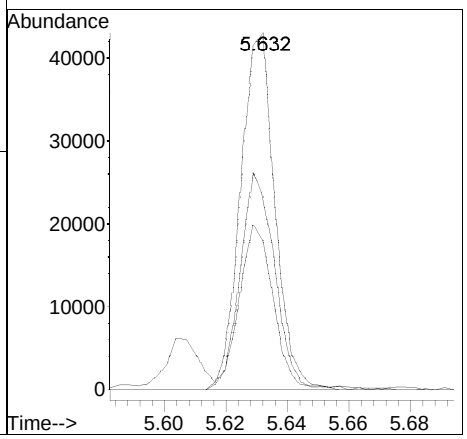


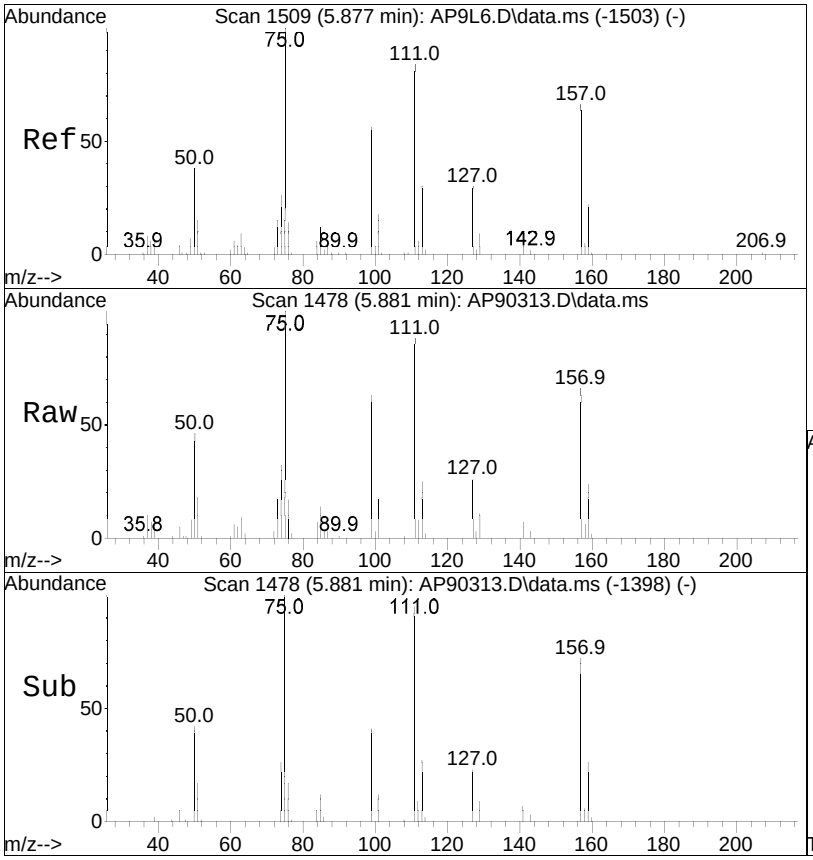


#60
2,6-Dichlorophenol
Concen: 5.95 ug/ml
RT: 5.632 min Scan# 1398
Delta R.T. 0.000 min
Lab File: AP90313.D
Acq: 13 Mar 2025 8:39 am

Tgt Ion:162 Resp: 33311

Ion	Ratio	Lower	Upper
162	100		
164	61.0	51.1	76.7
63	45.5	60.8	91.2#

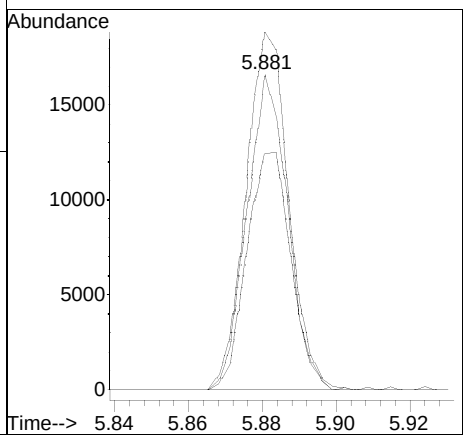


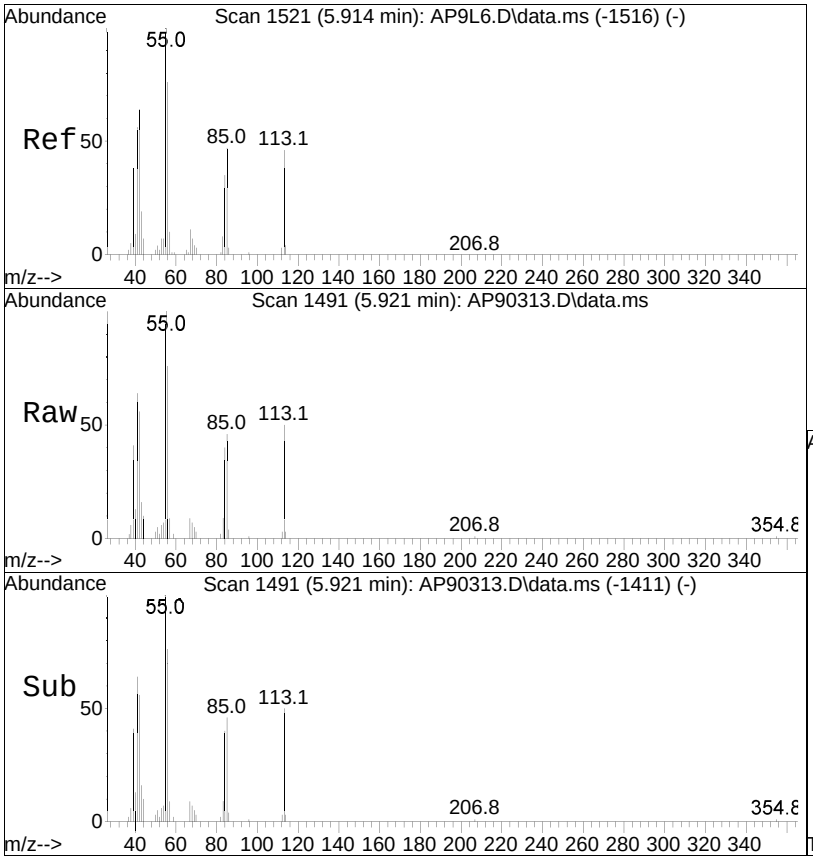


#61
1-chloro-2-nitrobenzene
Concen: 5.89 ug/ml
RT: 5.881 min Scan# 1478
Delta R.T. 0.000 min
Lab File: AP90313.D
Acq: 13 Mar 2025 8:39 am

Tgt Ion:111 Resp: 12671

Ion	Ratio	Lower	Upper
111	100		
157	81.7	0.0	0.0#
75	118.9	28.2	42.2#

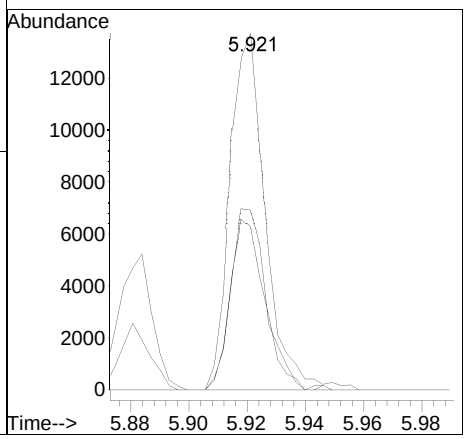


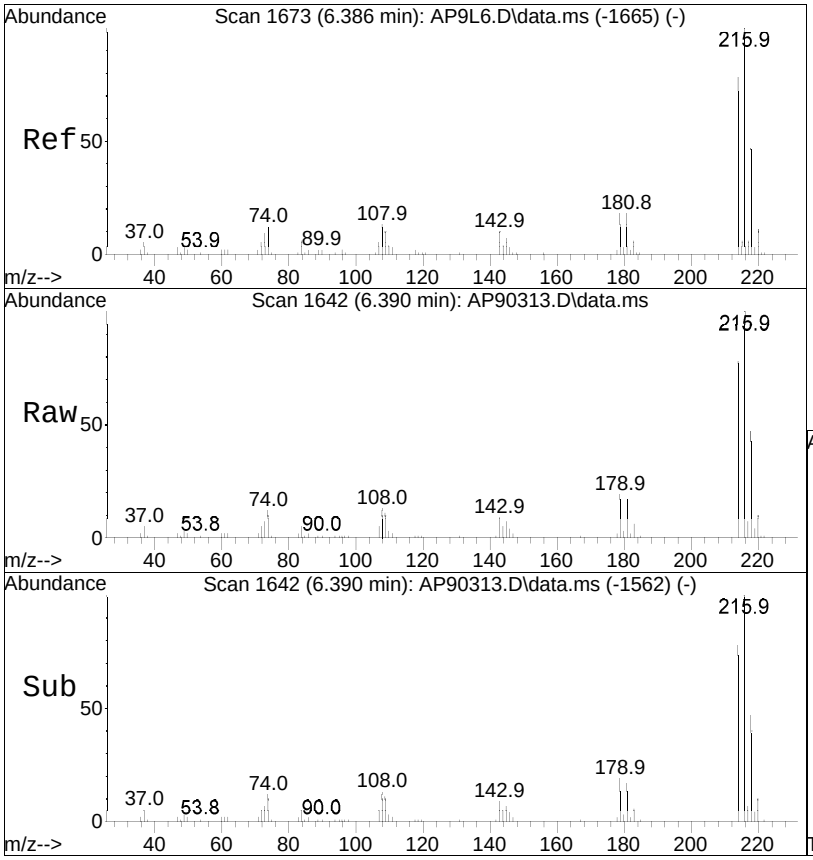


#62
Caprolactam
Concen: 4.98 ug/ml
RT: 5.921 min Scan# 1491
Delta R.T. 0.000 min
Lab File: AP90313.D
Acq: 13 Mar 2025 8:39 am

Tgt Ion: 55 Resp: 11596

Ion	Ratio	Lower	Upper
55	100		
85	46.9	19.8	29.6#
113	50.7	29.6	44.4#

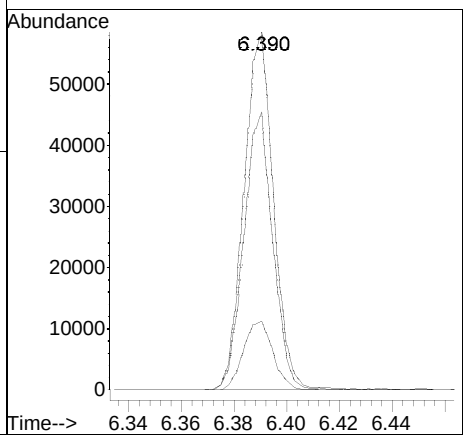


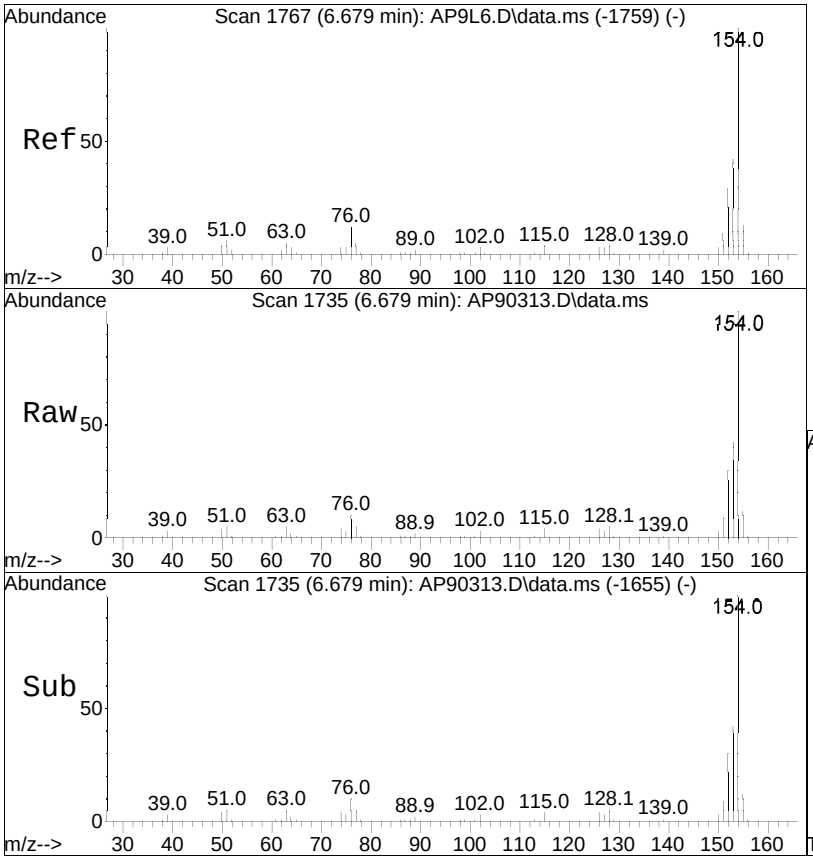


#63
1,2,4,5-Tetrachlorobenzene
Concen: 5.77 ug/ml
RT: 6.390 min Scan# 1642
Delta R.T. 0.000 min
Lab File: AP90313.D
Acq: 13 Mar 2025 8:39 am

Tgt Ion:216 Resp: 45173

Ion	Ratio	Lower	Upper
216	100		
214	76.2	63.7	95.5
179	19.4	19.0	28.6

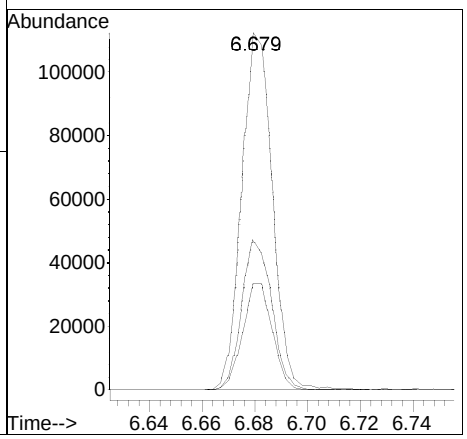


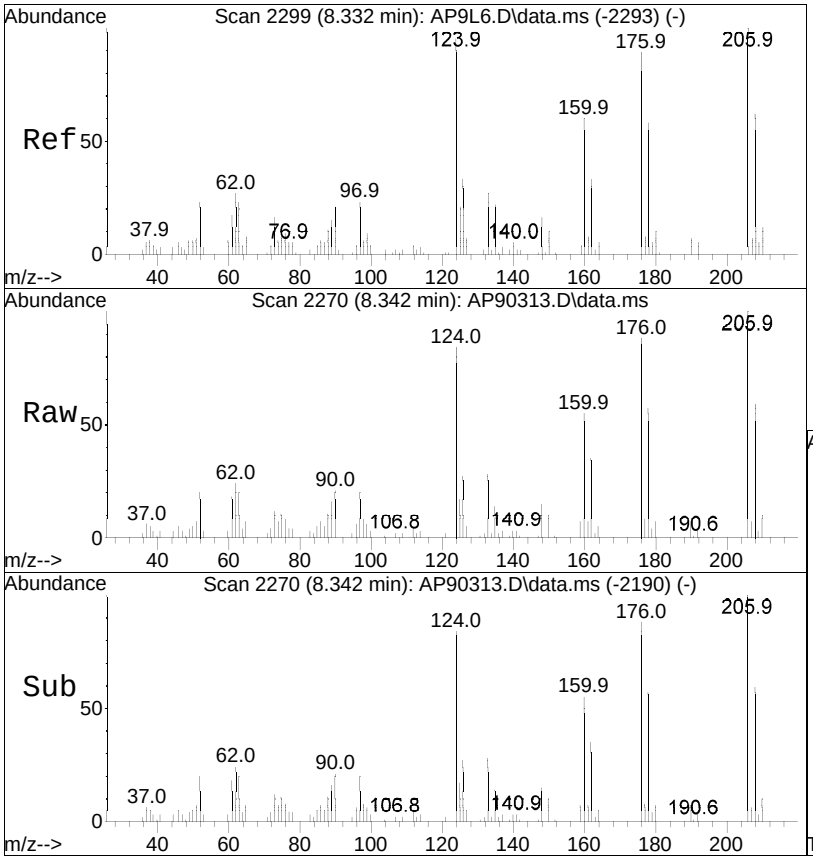


#64
Biphenyl
Concen: 5.69 ug/ml
RT: 6.679 min Scan# 1735
Delta R.T. 0.000 min
Lab File: AP90313.D
Acq: 13 Mar 2025 8:39 am

Tgt Ion:154 Resp: 90726

Ion	Ratio	Lower	Upper
154	100		
153	41.3	32.3	48.5
152	29.1	22.5	33.7

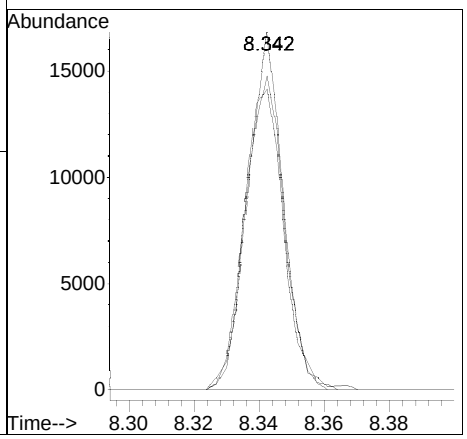


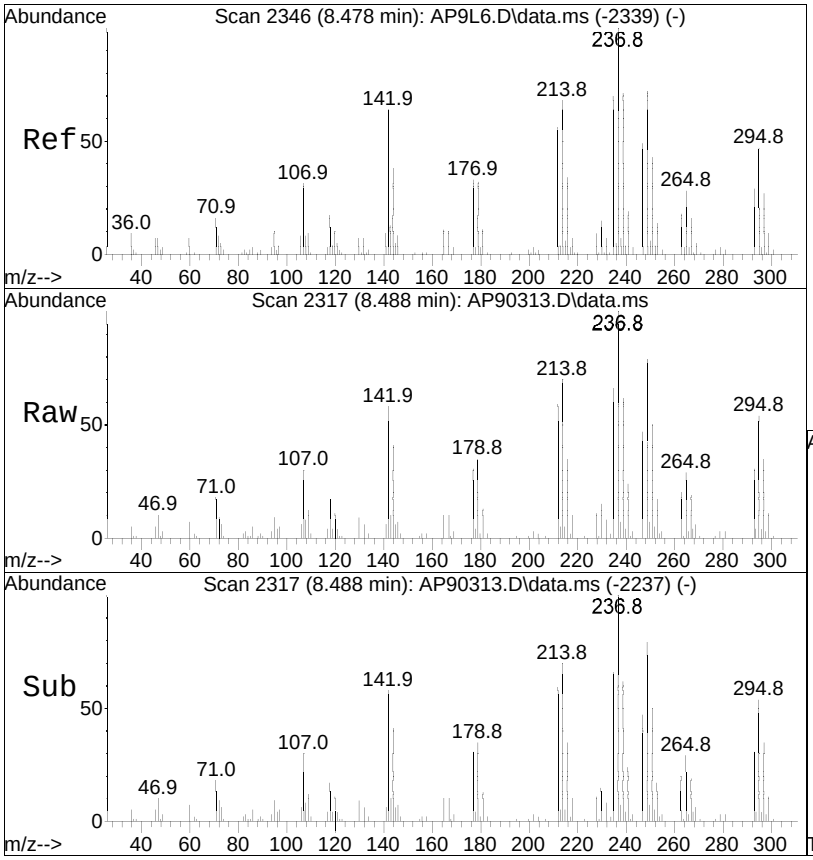


#86
Dichloran
Concen: 5.85 ug/ml
RT: 8.342 min Scan# 2270
Delta R.T. 0.000 min
Lab File: AP90313.D
Acq: 13 Mar 2025 8:39 am

Tgt Ion:206 Resp: 12683

Ion	Ratio	Lower	Upper
206	100		
176	96.5	104.6	157.0#
124	93.4	130.5	195.7#

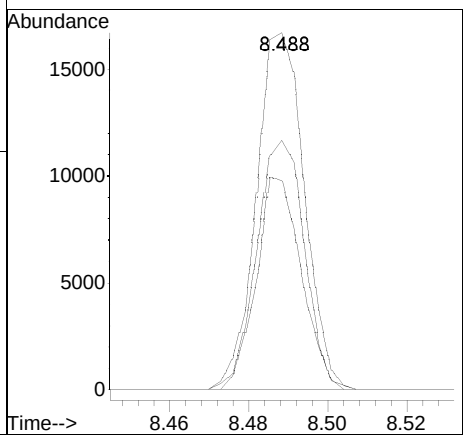


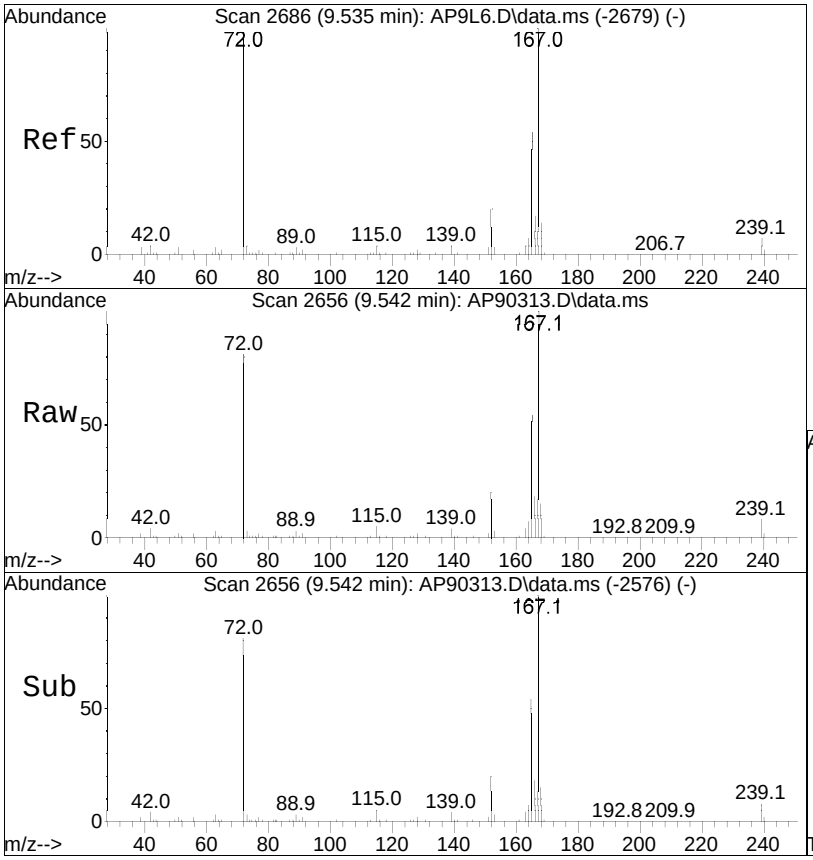


#87
Pentachloronitrobenzene
Concen: 5.87 ug/ml
RT: 8.488 min Scan# 2317
Delta R.T. 0.000 min
Lab File: AP90313.D
Acq: 13 Mar 2025 8:39 am

Tgt Ion:237 Resp: 14042

Ion	Ratio	Lower	Upper
237	100		
142	56.0	77.0	115.4#
214	69.6	58.2	87.4

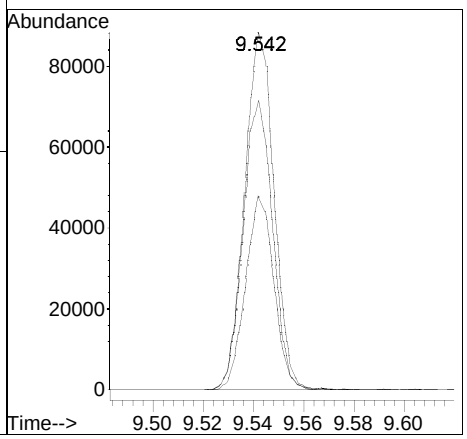




#101
Diphenamid
Concen: 5.52 ug/ml
RT: 9.542 min Scan# 2656
Delta R.T. 0.000 min
Lab File: AP90313.D
Acq: 13 Mar 2025 8:39 am

Tgt Ion:167 Resp: 71305

Ion	Ratio	Lower	Upper
167	100		
72	80.8	109.7	164.5#
165	52.2	41.8	62.6



Manual Integration Report

Data Path	: I:\8270\Dakota\250313RVT\	QMethod	: FS241105RVT_Dakota.m
Data File	: AP90313.D	Operator	: Dakota:smz
Date Inj'd	: 3/13/2025 8:39 am	Instrument	: Dakota
Sample	: wg2040097-4,32,,AP9 11152	Quant Date	: 3/13/2025 9:53 am

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\250313RVT\
Data File : ADP0313.D
Acq On : 13 Mar 2025 9:01 am
Operator : Dakota:smz
Sample : wg2040097-5,32,,ADP 11153 gmr0304B
Misc : wg2040097,,ical21680
ALS Vial : 98 Sample Multiplier: 1

Quant Time: Mar 13 09:53:17 2025
Quant Method : I:\8270\Dakota\250313RVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 09:54:10 2025
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	75	0.00
33	T	1,4-Dioxane		0.381	0.347	8.9	65	0.00
35	T	n-Decane		1.048	0.851	18.8	59	0.00
88	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	83	0.00
89	T	Atrazine		0.343	0.369	-7.6	90	0.00
102	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	88	0.00
103	T	n-Octadecane		0.334	0.272	18.6	72	0.00
104	T	Parathion	*	5.000	4.820	3.6	95	0.00
105	T	3,3'-Dimethylbenzidine	*	5.000	4.840	3.2	96	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250313RVT\
Data File : ADP0313.D
Acq On : 13 Mar 2025 9:01 am
Operator : Dakota:smz
Sample : wg2040097-5,32,,ADP 11153 gmr0304B
Misc : wg2040097,,ical21680
ALS Vial : 98 Sample Multiplier: 1

Quant Time: Mar 13 09:53:17 2025
Quant Method : I:\8270\Dakota\250313RVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 09:54:10 2025
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
	Internal Standards						
32)	IS3_1,4-Dichlorobenzen...	4.280	152	20407	4.000	ug/ml	0.00
88)	IS3_Acenaphthene-d10	7.214	164	50349	4.000	ug/ml	0.00
102)	IS3_Phenanthrene-d10	8.628	188	118135	4.000	ug/ml	0.00
	System Monitoring Compounds						
	Target Compounds						Qvalue
33)	1,4-Dioxane	1.399	88	8860	4.559	ug/ml#	87
35)	n-Decane	4.183	57	21705	4.058	ug/ml#	29
89)	Atrazine	8.429	200	23222	5.377	ug/ml#	90
103)	n-Octadecane	8.637	57	40162	4.075	ug/ml#	1
104)	Parathion	9.427	109	11831	4.820	ug/ml	96
105)	3,3'-Dimethylbenzidine	10.670	212	104770	4.840	ug/ml	99

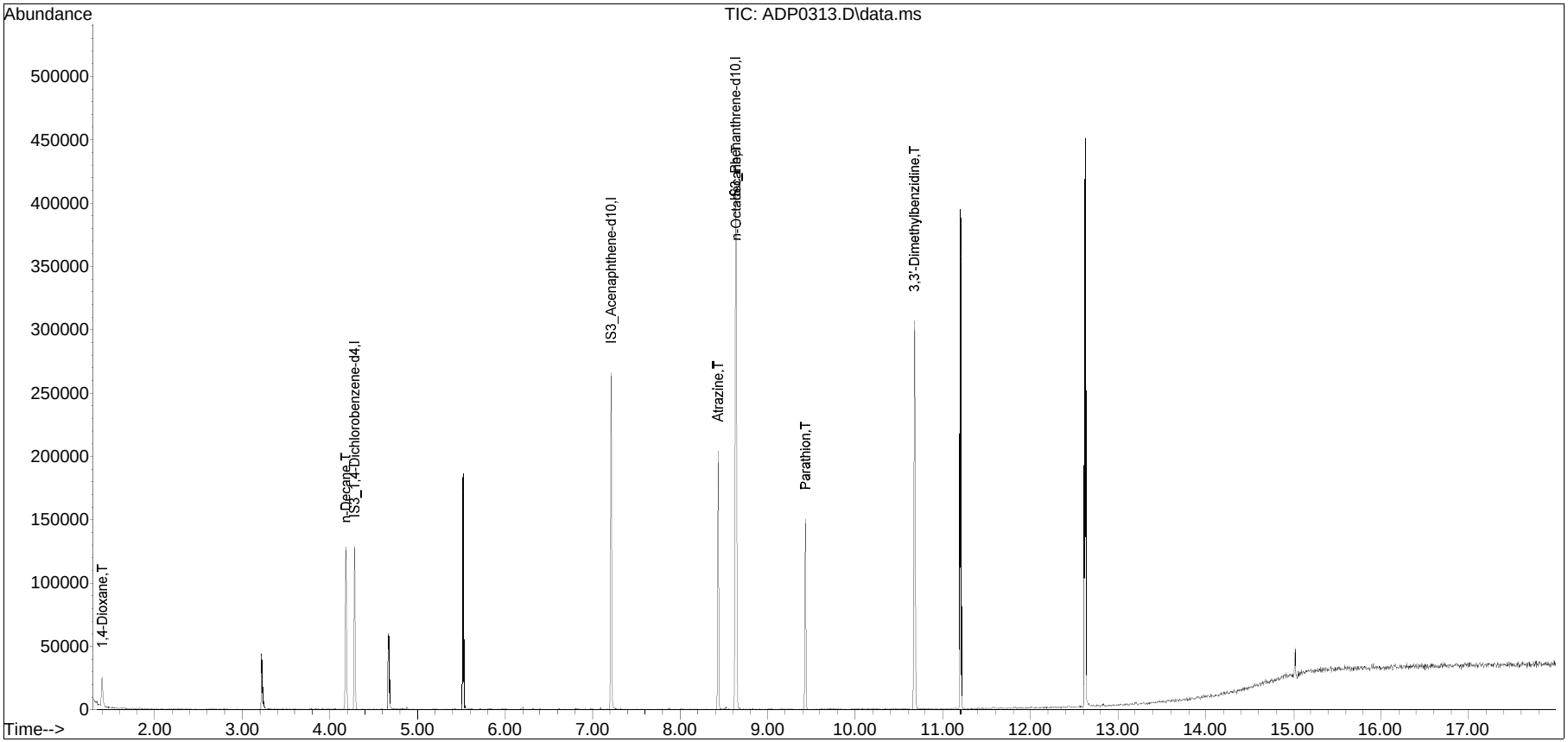
(#) = qualifier out of range (m) = manual integration (+) = signals summed

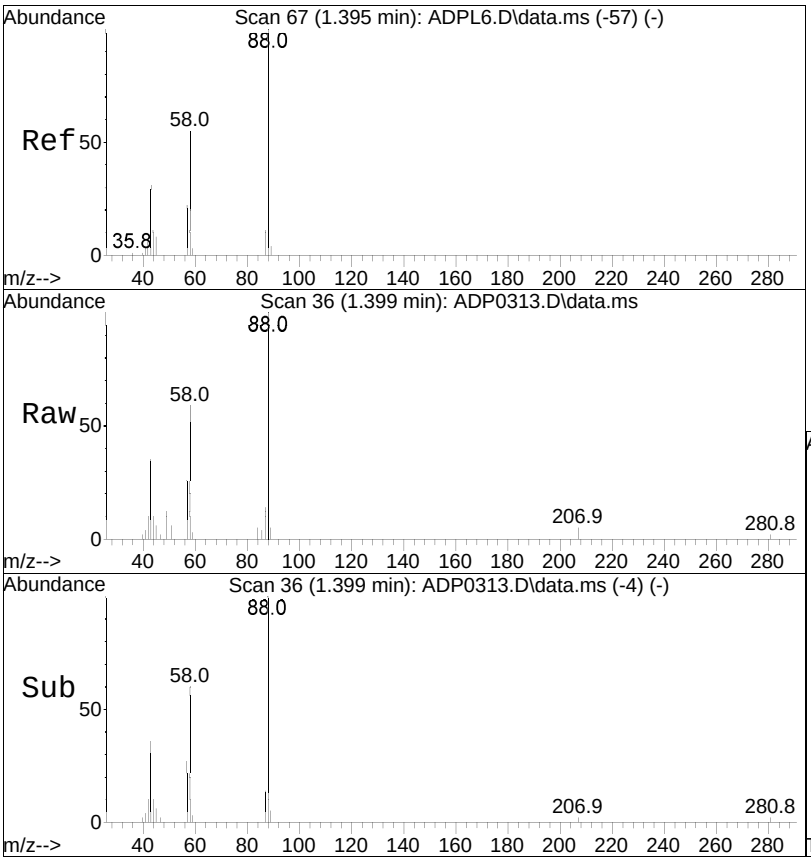
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250313RVT\
Data File : ADP0313.D
Acq On : 13 Mar 2025 9:01 am
Operator : Dakota:smz
Sample : wg2040097-5,32,,ADP 11153 gmr0304B
Misc : wg2040097,,ical21680
ALS Vial : 98 Sample Multiplier: 1

Quant Time: Mar 13 09:53:17 2025
Quant Method : I:\8270\Dakota\250313RVT\FS241105RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 09:54:10 2025
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

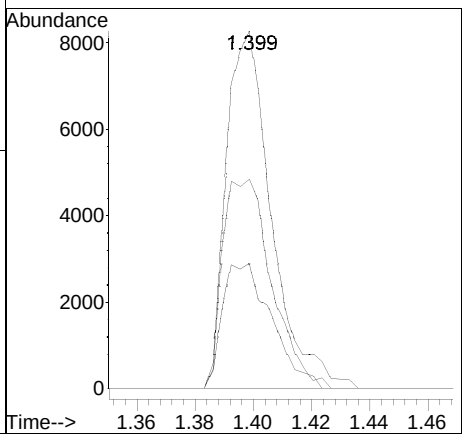


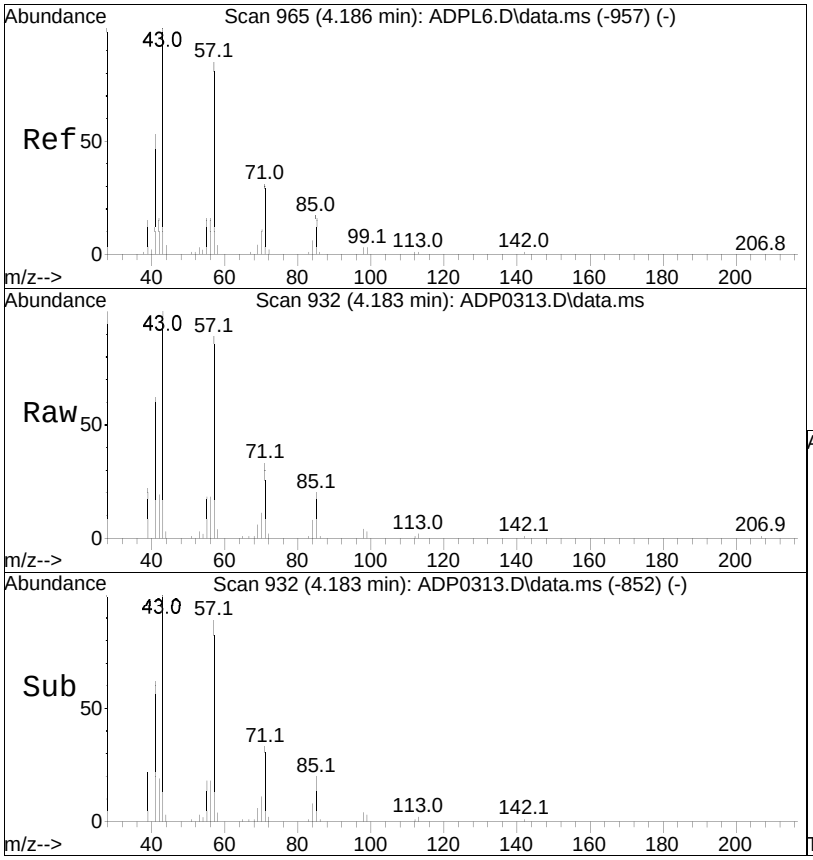


#33
1,4-Dioxane
Concen: 4.56 ug/ml
RT: 1.399 min Scan# 36
Delta R.T. 0.000 min
Lab File: ADP0313.D
Acq: 13 Mar 2025 9:01 am

Tgt Ion: 88 Resp: 8860

Ion	Ratio	Lower	Upper
88	100		
58	63.4	44.8	67.2
43	38.3	22.4	33.6#

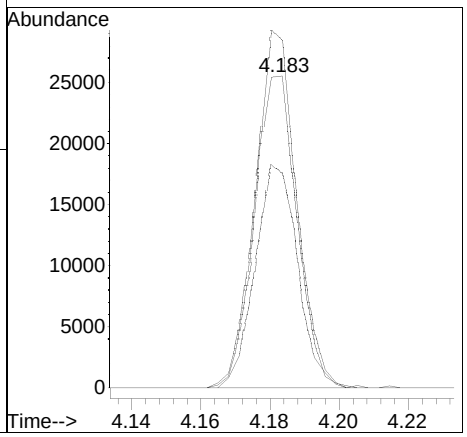


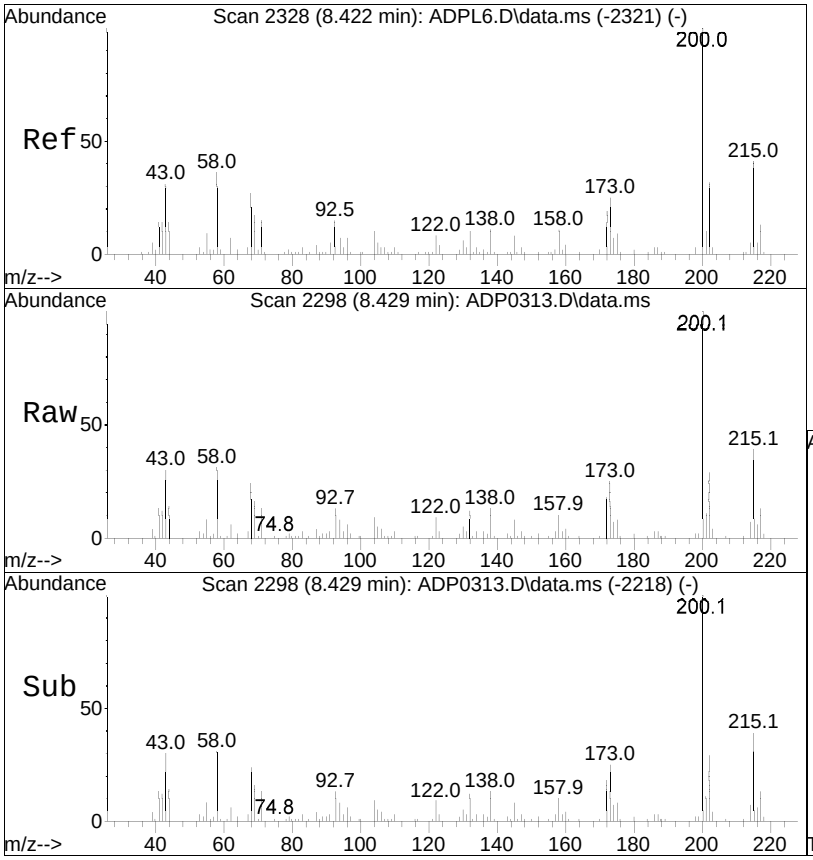


#35
n-Decane
Concen: 4.06 ug/ml
RT: 4.183 min Scan# 932
Delta R.T. 0.000 min
Lab File: ADP0313.D
Acq: 13 Mar 2025 9:01 am

Tgt Ion: 57 Resp: 21705

Ion	Ratio	Lower	Upper
57	100		
43	112.1	0.2	0.2#
41	71.4	0.2	0.2#

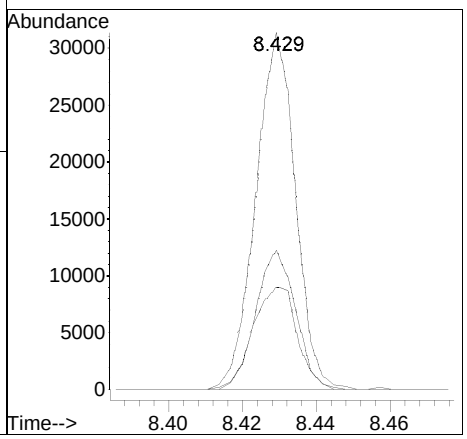


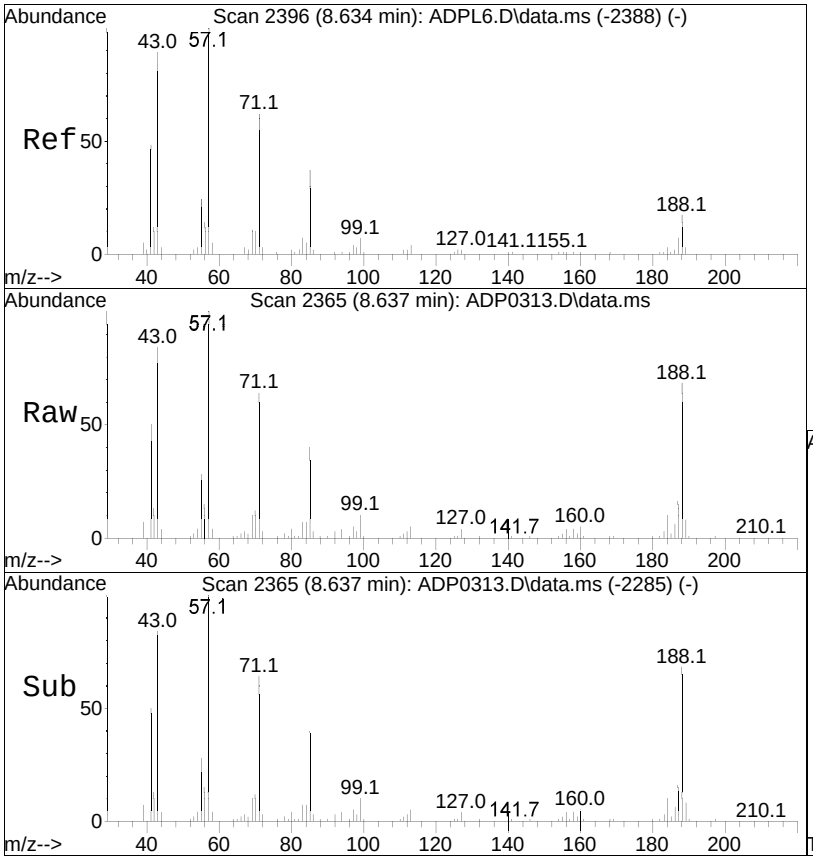


#89
Atrazine
Concen: 5.38 ug/ml
RT: 8.429 min Scan# 2298
Delta R.T. 0.000 min
Lab File: ADP0313.D
Acq: 13 Mar 2025 9:01 am

Tgt Ion:200 Resp: 23222

Ion	Ratio	Lower	Upper
200	100		
202	32.1	25.8	38.6
215	39.6	40.2	60.4#

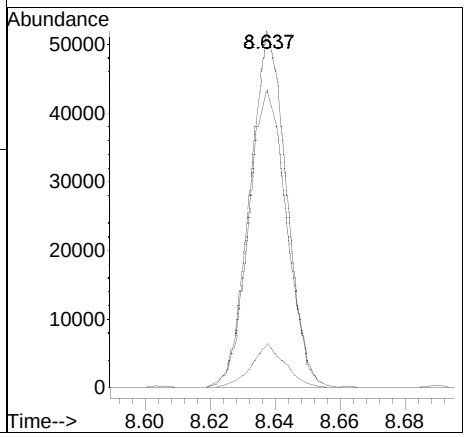


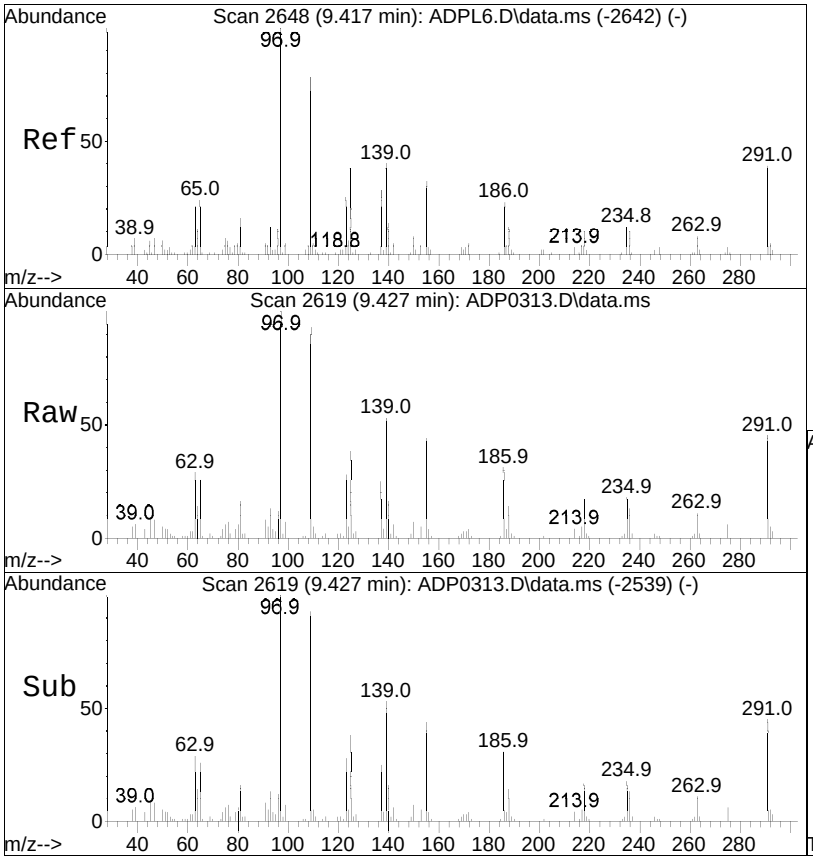


#103
n-Octadecane
Concen: 4.08 ug/ml
RT: 8.637 min Scan# 2365
Delta R.T. 0.000 min
Lab File: ADP0313.D
Acq: 13 Mar 2025 9:01 am

Tgt Ion: 57 Resp: 40162

Ion	Ratio	Lower	Upper
57	100		
43	87.2	9.0	13.6#
70	11.4	0.2	0.2#

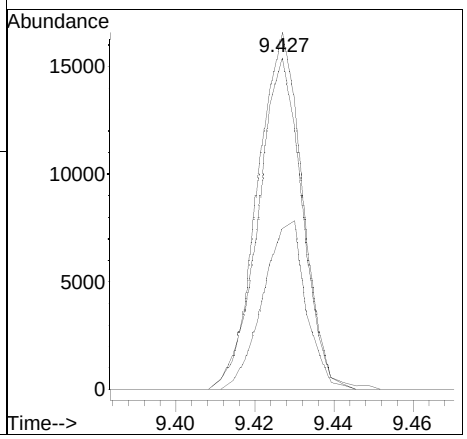


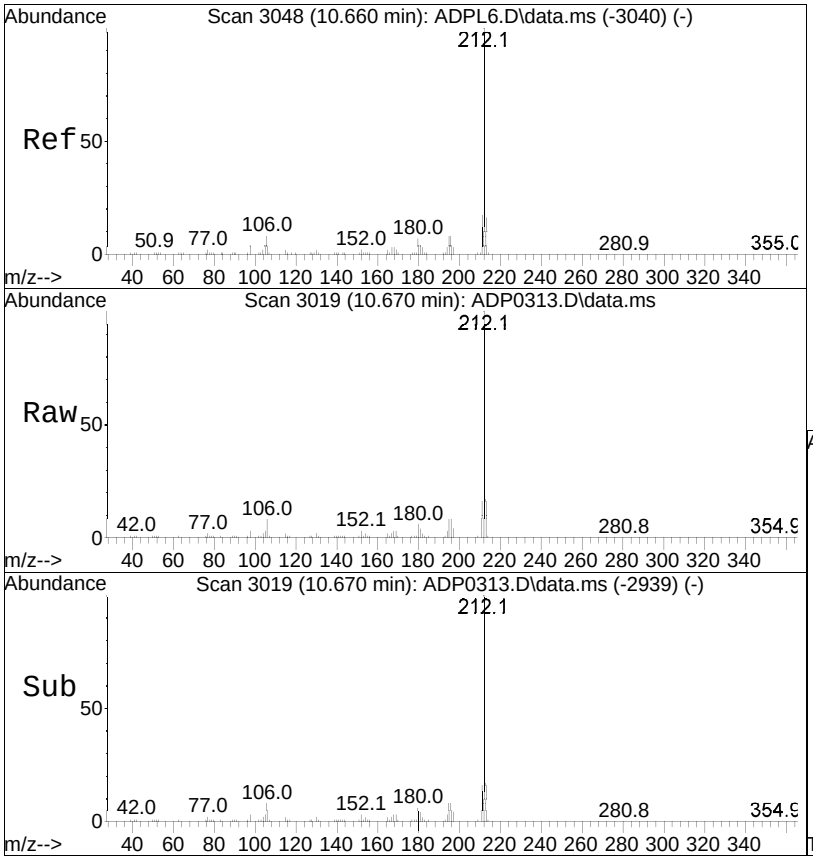


#104
Parathion
Concen: 4.82 ug/ml
RT: 9.427 min Scan# 2619
Delta R.T. 0.000 min
Lab File: ADP0313.D
Acq: 13 Mar 2025 9:01 am

Tgt Ion:109 Resp: 11831

Ion	Ratio	Lower	Upper
109	100		
97	110.3	87.4	131.2
291	49.9	34.2	51.2

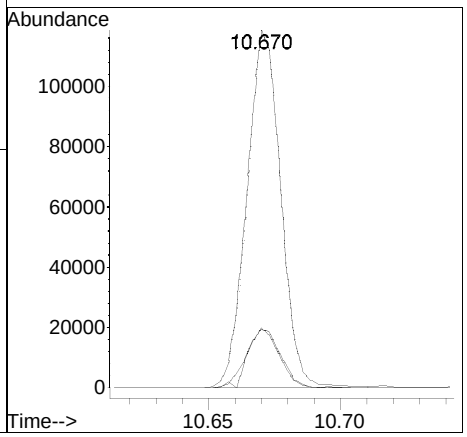




#105
3,3'-Dimethylbenzidine
Concen: 4.84 ug/ml
RT: 10.670 min Scan# 3019
Delta R.T. 0.000 min
Lab File: ADP0313.D
Acq: 13 Mar 2025 9:01 am

Tgt Ion:212 Resp: 104770

Ion	Ratio	Lower	Upper
212	100		
211	16.0	12.9	19.3
213	16.1	13.2	19.8



Manual Integration Report

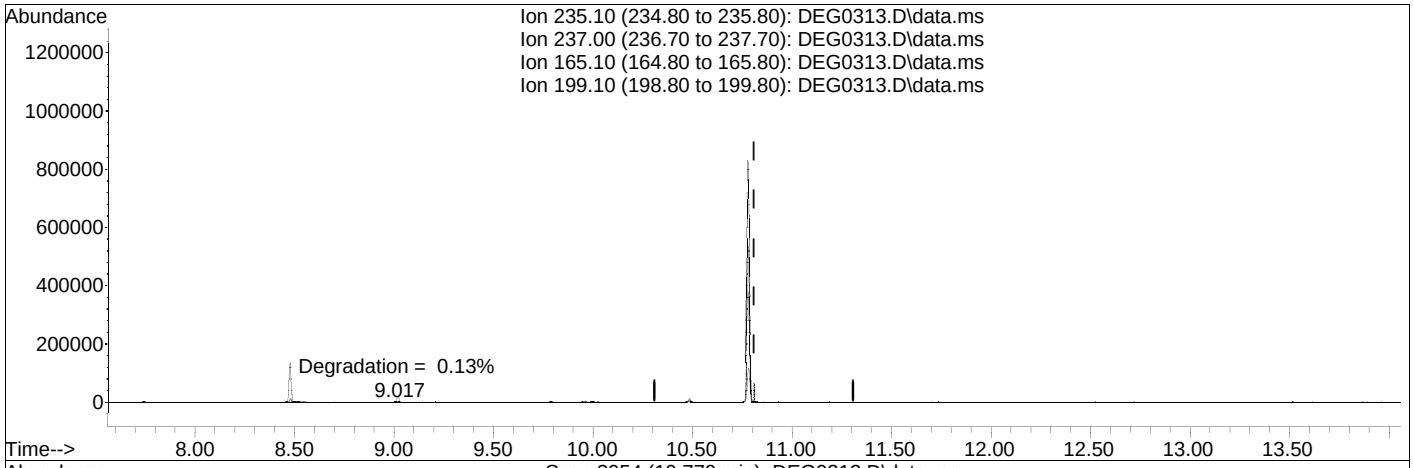
Data Path	: I:\8270\Dakota\250313RVT\	QMethod	: FS241105RVT_Dakota.m
Data File	: ADP0313.D	Operator	: Dakota:smz
Date Inj'd	: 3/13/2025 9:01 am	Instrument	: Dakota
Sample	: wg2040097-5,32,,ADP 11153	Quant Date	: 3/13/2025 9:54 am

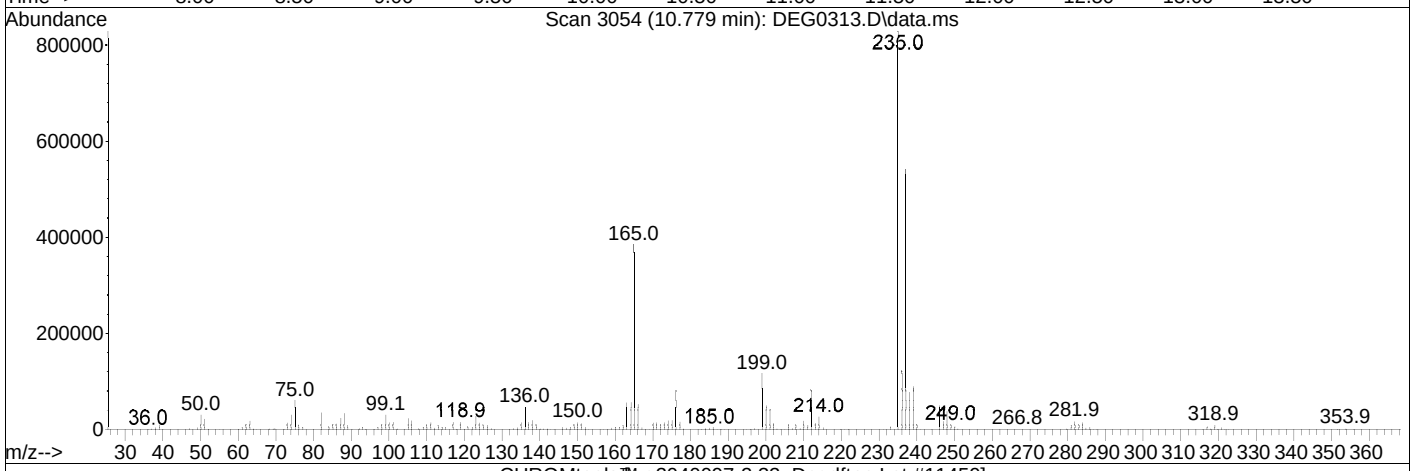
There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\250313RVT\
Data File : DEG0313.D
Acq On : 13 Mar 2025 7:54 am
Operator : Dakota:smz
Sample : wg2040097-2,32,,Degdftpp Lot #11459
Misc : wg2040097,,ical21680
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Mar 13 08:15:12 2025
Quant Method : I:\8270\Dakota\250313RVT\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 09:03:41 2025
Response via : Initial Calibration





CHROMtools™ [wg2040097-2,32,,Degdftpp Lot #11459]

(6) DDT (T)

10.779min (-0.031) 121.79

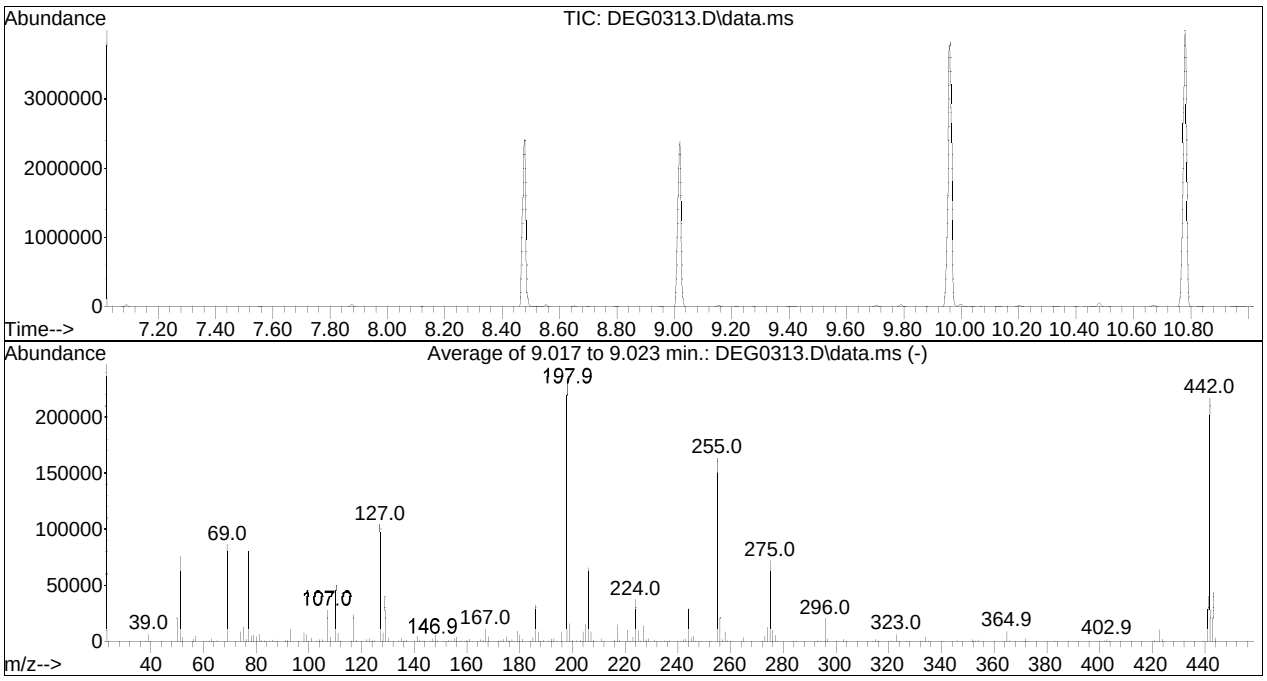
response 742382

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.90	64.21
165.10	48.70	45.57
199.10	15.80	14.05

Data Path : I:\8270\Dakota\250313RVT\
Data File : DEG0313.D
Acq On : 13 Mar 2025 7:54 am
Operator : Dakota:gmr
Sample : WG2040097-1,32,,Degdftpp Lot #11459
Misc : WG2040097,,ical21680
ALS Vial : 100 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\Dakota\250313RVT\FS241105RVT_Dakota.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Mar 13 09:43:29 2025



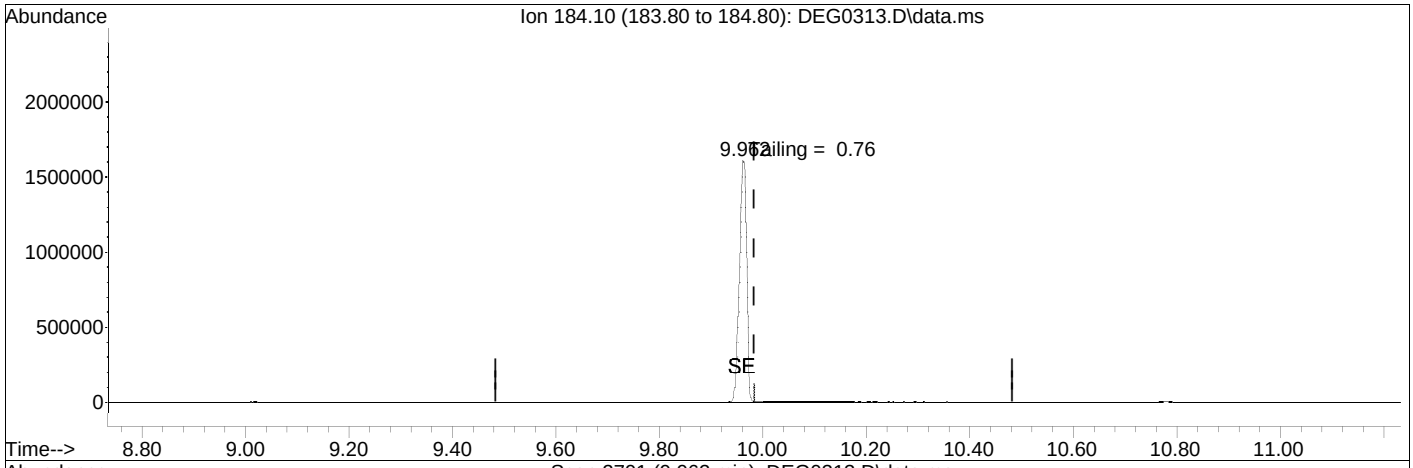
Spectrum Information: Average of 9.017 to 9.023 min.

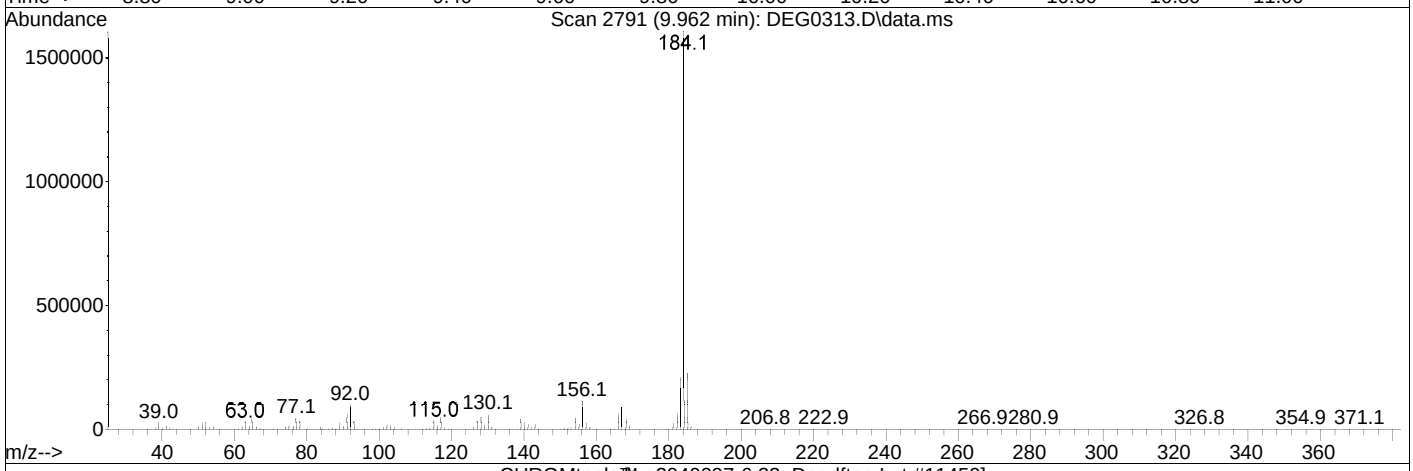
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	32.2	75776	PASS
68	69	0.00	2	0.0	0	PASS
69	69	100	100	100.0	85912	PASS
70	69	0.00	2	0.4	370	PASS
127	198	10	80	44.2	104000	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	235136	PASS
199	198	5	9	6.6	15584	PASS
275	198	10	60	30.5	71811	PASS
365	198	1	100	3.9	9075	PASS
441	442	0.01	24	18.3	39699	PASS
442	198	50	100	92.2	216832	PASS
443	442	15	24	20.1	43523	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\250313RVT\
Data File : DEG0313.D
Acq On : 13 Mar 2025 7:54 am
Operator : Dakota:smz
Sample : wg2040097-6,32,,Degdftpp Lot #11459
Misc : wg2040097,,ical21680
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Mar 13 08:15:12 2025
Quant Method : I:\8270\Dakota\250313RVT\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 09:03:41 2025
Response via : Initial Calibration





CHROMtools TM [wg2040097-6,32,,Degdftpp Lot #11459]

(3) Benzidine (T)

9.962min (-0.021) 141.05

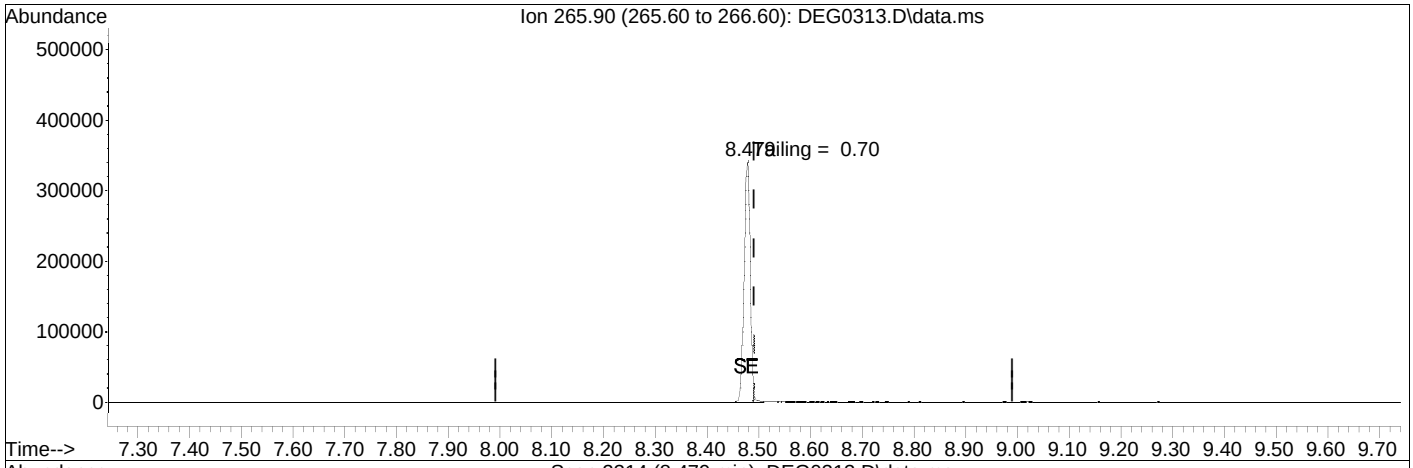
response 1435923

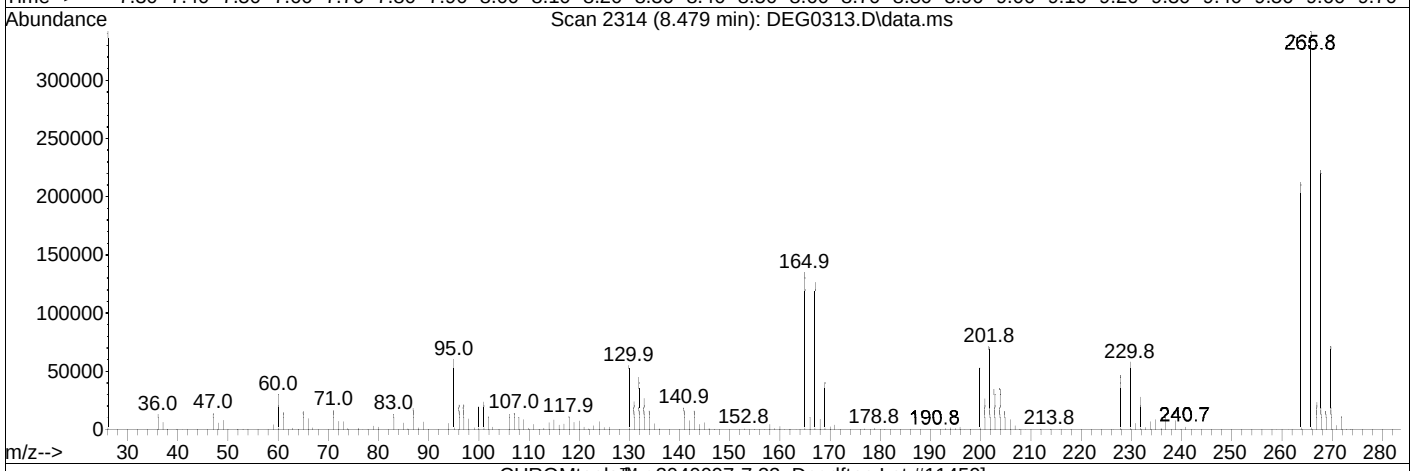
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\250313RVT\
Data File : DEG0313.D
Acq On : 13 Mar 2025 7:54 am
Operator : Dakota:smz
Sample : wg2040097-7,32,,Degdftpp Lot #11459
Misc : wg2040097,,ical21680
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Mar 13 08:15:12 2025
Quant Method : I:\8270\Dakota\250313RVT\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 09:03:41 2025
Response via : Initial Calibration





CHROMtools™ [wg2040097-7,32,,Degdftpp Lot #11459]

(1) Pentachlorophenol (T)

8.479min (-0.012) 126.74

response 266197

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: DAKOTA	**Calibration Date**	: 03/13/25 08:16		
Lab File ID	: ABN0313	**Init. Calib. Date(s)**	: 11/05/24	11/06/24	
Sample No	: WG2040097-3	**Init. Calib. Times**	: 16:59	04:17	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	74	0
n-Nitrosodimethylamine	0.63	0.516	-	18.1	20	61	0
Pyridine	0.954	0.723	-	24.2*	20	52	0
2-Fluorophenol	1.028	0.857	-	16.6	20	63	0
Aniline	1.567	1.365	-	12.9	20	66	0
2-Chlorophenol	1.225	1.09	-	11	20	66	0
Phenol-d6	1.317	1.112	-	15.6	20	64	0
Phenol	1.421	1.181	-	16.9	20	63	0
Bis(2-chloroethyl)ether	1.017	0.831	-	18.3	20	62	0
1,3-Dichlorobenzene	1.577	1.39	-	11.9	20	68	0
1,4-Dichlorobenzene	1.61	1.436	-	10.8	20	69	0
1,2-Dichlorobenzene	1.534	1.366	-	11	20	69	0
Benzyl alcohol	0.93	0.866	-	6.9	20	70	0
Bis(2-chloroisopropyl)ethe	1.794	1.249	-	30.4*	20	54	0
2-Methylphenol	1.079	0.95	-	12	20	69	0
Hexachloroethane	0.589	0.485	-	17.7	20	66	0
n-Nitrosodi-n-propylamine	0.863	0.711	-	17.6	20	64	0
3-Methylphenol/4-Methylphe	1.182	1.027	-	13.1	20	68	0
Nitrobenzene-d5	1.195	1.114	-	6.8	20	70	0
Nitrobenzene	1.222	1.13	-	7.5	20	69	0
Isophorone	2.247	1.999	-	11	20	68	0
2-Nitrophenol	0.619	0.647	-	-4.5	20	80	0
2,4-Dimethylphenol	1.101	1.196	-	-8.6	20	83	0
Bis(2-chloroethoxy)methane	1.4	1.221	-	12.8	20	67	0
2,4-Dichlorophenol	1.285	1.267	-	1.4	20	75	0
1,2,4-Trichlorobenzene	1.555	1.492	-	4.1	20	74	0
IS1_Naphthalene-d8	1	1	-	0	20	76	0
Naphthalene	1.1	0.956	-	13.1	20	71	0
Benzoic Acid	0.228	0.126	-	44.7*	20	46	0
4-Chloroaniline	0.121	0.109	-	9.9	20	69	0
Hexachlorobutadiene	0.258	0.255	-	1.2	20	77	0
p-Chloro-m-cresol	0.29	0.287	-	1	20	78	0
2-Methylnaphthalene	0.761	0.67	-	12	20	72	0
1-Methylnaphthalene	0.242	0.244	-	-0.8	20	80	0
Hexachlorocyclopentadiene	0.272	0.339	-	-24.6*	20	95	0
2,4,6-Trichlorophenol	0.287	0.299	-	-4.2	20	81	0
2,4,5-Trichlorophenol	0.32	0.33	-	-3.1	20	83	0
2-Fluorobiphenyl	0.99	0.97	-	2	20	81	0
2-Chloronaphthalene	0.852	0.813	-	4.6	20	77	0
2-Nitroaniline	0.218	0.218	-	0	20	76	0
1,4-Dinitrobenzene	0.095	0.112	-	-17.9	20	90	0
1,3-Dinitrobenzene	0.113	0.126	-	-11.5	20	83	0
Dimethyl phthalate	0.991	0.995	-	-0.4	20	82	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: DAKOTA	**Calibration Date**	: 03/13/25 08:16		
Lab File ID	: ABN0313	**Init. Calib. Date(s)**	: 11/05/24	11/06/24	
Sample No	: WG2040097-3	**Init. Calib. Times**	: 16:59	04:17	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.252	1.319	-	-5.4	20	84	0
2,6-Dinitrotoluene	0.185	0.204	-	-10.3	20	83	0
1,2-Dinitrobenzene	0.066	0.081	-	-22.7*	20	88	0
IS1_Acenaphthene-d10	1	1	-	0	20	85	0
3-Nitroaniline	0.309	0.293	-	5.2	20	80	0
Acenaphthene	1.163	0.99	-	14.9	20	79	0
2,4-Dinitrophenol	5	3.718	-	25.6*	20	67	0
Dibenzofuran	2.006	1.737	-	13.4	20	81	0
2,4-Dinitrotoluene	0.387	0.415	-	-7.2	20	88	0
4-Nitrophenol	0.23	0.239	-	-3.9	20	87	0
2,3,5,6-Tetrachlorophenol	0.436	0.421	-	3.4	20	84	0
2,3,4,6-Tetrachlorophenol	0.428	0.419	-	2.1	20	86	0
Diethyl phthalate	1.575	1.396	-	11.4	20	83	0
Fluorene	1.536	1.393	-	9.3	20	83	0
4-Chlorophenyl phenyl ethe	0.792	0.737	-	6.9	20	87	0
4-Nitroaniline	0.299	0.31	-	-3.7	20	84	0
4,6-Dinitro-o-cresol	0.234	0.255	-	-9	20	90	0
NDPA/DPA	1.337	1.225	-	8.4	20	85	0
Azobenzene	1.281	1.082	-	15.5	20	76	0
2,4,6-Tribromophenol	0.286	0.287	-	-0.3	20	90	0
4-Bromophenyl phenyl ether	0.522	0.491	-	5.9	20	88	0
Hexachlorobenzene	0.656	0.634	-	3.4	20	92	0
Pentachlorophenol	0.356	0.379	-	-6.5	20	90	0
IS1_Phenanthrene-d10	1	1	-	0	20	92	0
Phenanthrene	1.183	1.026	-	13.3	20	87	0
Anthracene	1.16	1.028	-	11.4	20	88	0
Carbazole	1.064	0.962	-	9.6	20	87	0
Di-n-butylphthalate	1.207	1.071	-	11.3	20	83	0
Fluoranthene	1.422	1.339	-	5.8	20	93	0
Benzidine	0.772	0.845	-	-9.5	20	97	0
Pyrene	1.52	1.442	-	5.1	20	93	0
4-Terphenyl-d14	1.157	1.12	-	3.2	20	97	0
Butyl benzyl phthalate	0.517	0.503	-	2.7	20	89	0
IS1_Chrysene-d12	1	1	-	0	20	104	0
Benzo(a)anthracene	1.355	1.201	-	11.4	20	100	0
3,3'-Dichlorobenzidine	0.505	0.468	-	7.3	20	97	0
Chrysene	1.349	1.167	-	13.5	20	99	0
Bis(2-ethylhexyl)phthalate	0.726	0.637	-	12.3	20	90	0
Di-n-octylphthalate	1.212	1.067	-	12	20	91	0
Benzo(b)fluoranthene	1.42	1.371	-	3.5	20	109	0
Benzo(k)fluoranthene	1.383	1.295	-	6.4	20	99	0
Benzo(a)pyrene	1.267	1.249	-	1.4	20	105	0
IS1_Perylene-d12	1	1	-	0	20	108	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: DAKOTA	**Calibration Date**	: 03/13/25 08:16		
Lab File ID	: ABN0313	**Init. Calib. Date(s)**	: 11/05/24	11/06/24	
Sample No	: WG2040097-3	**Init. Calib. Times**	: 16:59	04:17	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.234	1.14	-	7.6	20	105	0
Dibenzo(a,h)anthracene	1.213	1.155	-	4.8	20	106	0
Benzo(ghi)perylene	1.192	1.169	-	1.9	20	112	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: DAKOTA	**Calibration Date**	: 03/13/25 08:39		
Lab File ID	: AP90313	**Init. Calib. Date(s)**	: 11/05/24	11/06/24	
Sample No	: WG2040097-4	**Init. Calib. Times**	: 16:59	04:17	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	68	0
Benzaldehyde	0.703	0.726	-	-3.3	20	65	0
Acetophenone	1.403	1.574	-	-12.2	20	74	0
m-Toluidine	1.287	1.396	-	-8.5	20	72	0
2-Chloroaniline	1.368	1.559	-	-14	20	75	0
IS2_Naphthalene-d8	1	1	-	0	20	77	0
a-Terpineol	0.221	0.216	-	2.3	20	71	0
3-Chloroaniline	0.115	0.112	-	2.6	20	69	0
2,6-Dichlorophenol	0.296	0.351	-	-18.6	20	85	0
1-chloro-2-nitrobenzene	0.113	0.134	-	-18.6	20	82	0
Caprolactam	0.123	0.122	-	0.8	20	74	0
1,2,4,5-Tetrachlorobenzene	0.413	0.477	-	-15.5	20	84	0
Biphenyl	0.842	0.957	-	-13.7	20	82	0
IS2_Acenaphthene-d10	1	1	-	0	20	80	0
Dichloran	0.169	0.198	-	-17.2	20	95	0
Pentachloronitrobenzene	0.187	0.219	-	-17.1	20	97	0
IS2_Phenanthrene-d10	1	1	-	0	20	87	0
Diphenamid	0.416	0.459	-	-10.3	20	92	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: DAKOTA	**Calibration Date**	: 03/13/25 09:01		
Lab File ID	: ADP0313	**Init. Calib. Date(s)**	: 11/05/24	11/06/24	
Sample No	: WG2040097-5	**Init. Calib. Times**	: 16:59	04:17	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	75	0
1,4-Dioxane	0.381	0.347	-	8.9	20	65	0
n-Decane	1.048	0.851	-	18.8	20	59	0
IS3_Acenaphthene-d10	1	1	-	0	20	83	0
Atrazine	0.343	0.369	-	-7.6	20	90	0
IS3_Phenanthrene-d10	1	1	-	0	20	88	0
n-Octadecane	0.334	0.272	-	18.6	20	72	0
Parathion	5	4.82	-	3.6	20	95	0
3,3'-Dimethylbenzidine	5	4.84	-	3.2	20	96	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 03/13/25 11:03		
Lab File ID	: ABN0313	**Init. Calib. Date(s)**	: 03/11/25	03/12/25	
Sample No	: WG2040166-3	**Init. Calib. Times**	: 16:50	06:06	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	107	0
n-Nitrosodimethylamine	0.718	0.729	-	-1.5	20	111	0
Pyridine	1.251	0.961	-	23.2*	20	90	0
2-Fluorophenol	1.128	1.061	-	5.9	20	103	0
Aniline	1.738	1.776	-	-2.2	20	105	0
2-Chlorophenol	1.218	1.195	-	1.9	20	107	0
Phenol-d6	1.323	1.297	-	2	20	106	0
Phenol	1.459	1.451	-	0.5	20	109	0
Bis(2-chloroethyl)ether	1.159	1.182	-	-2	20	112	0
1,3-Dichlorobenzene	1.54	1.458	-	5.3	20	107	0
1,4-Dichlorobenzene	1.574	1.509	-	4.1	20	105	0
1,2-Dichlorobenzene	1.49	1.452	-	2.6	20	109	0
Benzyl alcohol	0.91	0.891	-	2.1	20	106	0
Bis(2-chloroisopropyl)ethe	2.704	2.936	-	-8.6	20	121	0
2-Methylphenol	1.283	1.25	-	2.6	20	109	0
Hexachloroethane	0.546	0.533	-	2.4	20	106	0
n-Nitrosodi-n-propylamine	0.855	0.856	-	-0.1	20	108	0
3-Methylphenol/4-Methylphe	1.11	1.135	-	-2.3	20	110	0
Nitrobenzene-d5	1.096	1.138	-	-3.8	20	111	0
Nitrobenzene	1.118	1.204	-	-7.7	20	113	0
Isophorone	2.296	2.3	-	-0.2	20	108	0
2-Nitrophenol	0.509	0.527	-	-3.5	20	110	0
2,4-Dimethylphenol	1.198	1.215	-	-1.4	20	106	0
Bis(2-chloroethoxy)methane	1.639	1.269	-	22.6*	20	93	0
2,4-Dichlorophenol	1.137	1.145	-	-0.7	20	106	0
1,2,4-Trichlorobenzene	1.457	1.381	-	5.2	20	107	0
IS1_Naphthalene-d8	1	1	-	0	20	113	0
Naphthalene	1.066	1.011	-	5.2	20	112	0
Benzoic Acid	5	3.27	-	34.6*	20	95	0
4-Chloroaniline	0.132	0.128	-	3	20	109	0
Hexachlorobutadiene	0.244	0.225	-	7.8	20	106	0
p-Chloro-m-cresol	0.325	0.292	-	10.2	20	106	0
2-Methylnaphthalene	0.638	0.616	-	3.4	20	111	0
1-Methylnaphthalene	0.245	0.224	-	8.6	20	108	0
Hexachlorocyclopentadiene	0.3	0.264	-	12	20	100	0
2,4,6-Trichlorophenol	0.251	0.223	-	11.2	20	100	0
2,4,5-Trichlorophenol	0.255	0.257	-	-0.8	20	110	0
2-Fluorobiphenyl	0.923	0.846	-	8.3	20	107	0
2-Chloronaphthalene	0.756	0.701	-	7.3	20	108	0
2-Nitroaniline	0.166	0.166	-	0	20	108	0
1,4-Dinitrobenzene	5	3.259	-	34.8*	20	63	0
1,3-Dinitrobenzene	0.104	0.096	-	7.7	20	108	0
Dimethyl phthalate	0.908	0.85	-	6.4	20	106	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 03/13/25 11:03		
Lab File ID	: ABN0313	**Init. Calib. Date(s)**	: 03/11/25	03/12/25	
Sample No	: WG2040166-3	**Init. Calib. Times**	: 16:50	06:06	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.201	1.118	-	6.9	20	107	0
2,6-Dinitrotoluene	0.151	0.164	-	-8.6	20	104	0
1,2-Dinitrobenzene	0.063	0.066	-	-4.8	20	106	0
IS1_Acenaphthene-d10	1	1	-	0	20	106	0
3-Nitroaniline	0.252	0.269	-	-6.7	20	108	0
Acenaphthene	1.101	1.045	-	5.1	20	108	0
2,4-Dinitrophenol	5	4.576	-	8.5	20	108	0
Dibenzofuran	1.914	1.738	-	9.2	20	109	0
2,4-Dinitrotoluene	5	4.809	-	3.8	20	107	0
4-Nitrophenol	0.192	0.202	-	-5.2	20	108	0
2,3,5,6-Tetrachlorophenol	0.365	0.48	-	-31.5*	20	144	0
2,3,4,6-Tetrachlorophenol	0.344	0.337	-	2	20	102	0
Diethyl phthalate	1.359	1.307	-	3.8	20	103	0
Fluorene	1.41	1.358	-	3.7	20	107	0
4-Chlorophenyl phenyl ethe	0.738	0.689	-	6.6	20	106	0
4-Nitroaniline	0.246	0.279	-	-13.4	20	114	0
4,6-Dinitro-o-cresol	5	4.31	-	13.8	20	107	0
NDPA/DPA	1.176	1.128	-	4.1	20	106	0
Azobenzene	1.121	1.165	-	-3.9	20	111	0
2,4,6-Tribromophenol	0.206	0.189	-	8.3	20	94	0
4-Bromophenyl phenyl ether	0.463	0.428	-	7.6	20	103	0
Hexachlorobenzene	0.543	0.486	-	10.5	20	103	0
Pentachlorophenol	0.282	0.257	-	8.9	20	98	0
IS1_Phenanthrene-d10	1	1	-	0	20	107	0
Phenanthrene	1.135	1.078	-	5	20	108	0
Anthracene	1.107	1.077	-	2.7	20	106	0
Carbazole	0.989	0.986	-	0.3	20	106	0
Di-n-butylphthalate	1.116	1.239	-	-11	20	119	0
Fluoranthene	1.298	1.268	-	2.3	20	108	0
Benzidine	0.704	0.746	-	-6	20	108	0
Pyrene	1.359	1.341	-	1.3	20	108	0
4-Terphenyl-d14	1.038	0.977	-	5.9	20	105	0
Butyl benzyl phthalate	5	4.197	-	16.1	20	103	0
IS1_Chrysene-d12	1	1	-	0	20	106	0
Benzo(a)anthracene	1.278	1.252	-	2	20	108	0
3,3'-Dichlorobenzidine	0.429	0.446	-	-4	20	103	0
Chrysene	1.267	1.184	-	6.6	20	105	0
Bis(2-ethylhexyl)phthalate	5	4.472	-	10.6	20	104	0
Di-n-octylphthalate	5	4.133	-	17.3	20	101	0
Benzo(b)fluoranthene	1.314	1.203	-	8.4	20	95	0
Benzo(k)fluoranthene	1.222	1.174	-	3.9	20	104	0
Benzo(a)pyrene	1.157	1.091	-	5.7	20	98	0
IS1_Perylene-d12	1	1	-	0	20	100	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 03/13/25 11:03		
Lab File ID	: ABN0313	**Init. Calib. Date(s)**	: 03/11/25	03/12/25	
Sample No	: WG2040166-3	**Init. Calib. Times**	: 16:50	06:06	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.068	1.126	-	-5.4	20	99	0
Dibenzo(a,h)anthracene	1.063	1.085	-	-2.1	20	99	0
Benzo(ghi)perylene	1.047	1.074	-	-2.6	20	101	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 03/13/25 11:27		
Lab File ID	: AP90313	**Init. Calib. Date(s)**	: 03/11/25	03/12/25	
Sample No	: WG2040166-4	**Init. Calib. Times**	: 16:50	06:06	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	101	0
Benzaldehyde	0.954	0.85	-	10.9	20	91	0
Acetophenone	1.646	1.733	-	-5.3	20	105	0
m-Toluidine	1.514	1.529	-	-1	20	99	0
2-Chloroaniline	1.481	1.589	-	-7.3	20	109	0
IS2_Naphthalene-d8	1	1	-	0	20	101	0
a-Terpineol	0.275	0.308	-	-12	20	115	0
3-Chloroaniline	0.139	0.15	-	-7.9	20	108	0
2,6-Dichlorophenol	0.27	0.286	-	-5.9	20	110	0
1-chloro-2-nitrobenzene	0.108	0.125	-	-15.7	20	122	0
Caprolactam	0.165	0.174	-	-5.5	20	119	0
1,2,4,5-Tetrachlorobenzene	0.401	0.409	-	-2	20	108	0
Biphenyl	0.885	0.907	-	-2.5	20	109	0
IS2_Acenaphthene-d10	1	1	-	0	20	103	0
Dichloran	5	5.77	-	-15.4	20	129	0
Pentachloronitrobenzene	0.144	0.16	-	-11.1	20	124	0
IS2_Phenanthrene-d10	1	1	-	0	20	102	0
Diphenamid	0.413	0.458	-	-10.9	20	109	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 03/13/25 11:50		
Lab File ID	: ADP0313	**Init. Calib. Date(s)**	: 03/11/25	03/12/25	
Sample No	: WG2040166-5	**Init. Calib. Times**	: 16:50	06:06	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	101	0
1,4-Dioxane	0.548	0.453	-	17.3	20	98	0
n-Decane	1.7	1.615	-	5	20	104	0
IS3_Acenaphthene-d10	1	1	-	0	20	104	0
Atrazine	0.366	0.312	-	14.8	20	97	0
IS3_Phenanthrene-d10	1	1	-	0	20	104	0
n-Octadecane	0.458	0.45	-	1.7	20	107	0
Parathion	5	5.766	-	-15.3	20	122	0
3,3'-Dimethylbenzidine	5	4.306	-	13.9	20	101	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\250313RVT\
Data File : ABN0313.D
Acq On : 13 Mar 2025 11:03 am
Operator : SV106:jg
Sample : WG2040166-3,32,,ABN 11297 gmr0304B
Misc : WG2040166,,ical22075
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Mar 13 12:05:53 2025
Quant Method : I:\8270\SV106\250313RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 12:06:46 2025
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	107	0.00
2	t	n-Nitrosodimethylamine		0.718	0.729	-1.5	111	0.00
3	t	Pyridine		1.251	0.961	23.2#	90	0.00
4	S	2-Fluorophenol		1.128	1.061	5.9	103	0.00
5	T	Aniline		1.738	1.776	-2.2	105	0.00
6	t	2-Chlorophenol		1.218	1.195	1.9	107	0.00
7	S	Phenol-d6		1.323	1.297	2.0	106	0.00
8	T	Phenol		1.459	1.451	0.5	109	0.00
9	T	Bis(2-chloroethyl)ether		1.159	1.182	-2.0	112	0.00
10	T	1,3-Dichlorobenzene		1.540	1.458	5.3	107	0.00
11	T	1,4-Dichlorobenzene		1.574	1.509	4.1	105	0.00
12	T	1,2-Dichlorobenzene		1.490	1.452	2.6	109	0.00
13	t	Benzyl alcohol		0.910	0.891	2.1	106	0.00
14	T	Bis(2-chloroisopropyl)ether		2.704	2.936	-8.6	121	0.00
15	T	2-Methylphenol		1.283	1.250	2.6	109	0.00
16	T	Hexachloroethane		0.546	0.533	2.4	106	0.00
17	T	n-Nitrosodi-n-propylamine		0.855	0.856	-0.1	108	0.00
18	T	3-Methylphenol/4-Methylphen		1.110	1.135	-2.3	110	0.00
19	S	Nitrobenzene-d5		1.096	1.138	-3.8	111	0.00
20	T	Nitrobenzene		1.118	1.204	-7.7	113	0.00
21	T	Isophorone		2.296	2.300	-0.2	108	0.00
22	T	2-Nitrophenol		0.509	0.527	-3.5	110	0.00
23	T	2,4-Dimethylphenol		1.198	1.215	-1.4	106	0.00
24	T	Bis(2-chloroethoxy)methane		1.639	1.269	22.6#	93	0.00
25	T	2,4-Dichlorophenol		1.137	1.145	-0.7	106	0.00
26	T	1,2,4-Trichlorobenzene		1.457	1.381	5.2	107	0.00
35	I	IS1_Naphthalene-d8		1.000	1.000	0.0	113	0.00
36	T	Naphthalene		1.066	1.011	5.2	112	0.00
37	T	Benzoic Acid	*	5.000	3.270	34.6#	95	0.00
38	T	4-Chloroaniline		0.132	0.128	3.0	109	0.00
39	T	Hexachlorobutadiene		0.244	0.225	7.8	106	0.00
40	T	p-Chloro-m-cresol		0.325	0.292	10.2	106	0.00
41	T	2-Methylnaphthalene		0.638	0.616	3.4	111	0.00
42	T	1-Methylnaphthalene		0.245	0.224	8.6	108	0.00
43	T	Hexachlorocyclopentadiene		0.300	0.264	12.0	100	0.00
44	T	2,4,6-Trichlorophenol		0.251	0.223	11.2	100	0.00
45	T	2,4,5-Trichlorophenol		0.255	0.257	-0.8	110	0.00
46	S	2-Fluorobiphenyl		0.923	0.846	8.3	107	0.00

Data Path : I:\8270\SV106\250313RVT\
Data File : ABN0313.D
Acq On : 13 Mar 2025 11:03 am
Operator : SV106:jg
Sample : WG2040166-3,32,,ABN 11297 gmr0304B
Misc : WG2040166,,ical22075
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Mar 13 12:05:53 2025
Quant Method : I:\8270\SV106\250313RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 12:06:46 2025
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
47	T	2-Chloronaphthalene		0.756	0.701	7.3	108	0.00
48	T	2-Nitroaniline		0.166	0.166	0.0	108	0.00
49	T	1,4-Dinitrobenzene	*	5.000	3.259	34.8#	63	0.00
50	T	1,3-Dinitrobenzene		0.104	0.096	7.7	108	0.00
51	T	Dimethyl phthalate		0.908	0.850	6.4	106	0.00
52	T	Acenaphthylene		1.201	1.118	6.9	107	0.00
53	T	2,6-Dinitrotoluene		0.151	0.164	-8.6	104	0.00
54	T	1,2-Dinitrobenzene		0.063	0.066	-4.8	106	0.00
63	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	106	0.00
64	T	3-Nitroaniline		0.252	0.269	-6.7	108	0.00
65	T	Acenaphthene		1.101	1.045	5.1	108	0.00
66	T	2,4-Dinitrophenol	*	5.000	4.576	8.5	108	0.00
67	T	Dibenzofuran		1.914	1.738	9.2	109	0.00
68	T	2,4-Dinitrotoluene	*	5.000	4.809	3.8	107	0.00
69	T	4-Nitrophenol		0.192	0.202	-5.2	108	0.00
70	T	2,3,5,6-Tetrachlorophenol		0.365	0.480	-31.5#	144	0.00
71	T	2,3,4,6-Tetrachlorophenol		0.344	0.337	2.0	102	0.00
72	T	Diethyl phthalate		1.359	1.307	3.8	103	0.00
73	T	Fluorene		1.410	1.358	3.7	107	0.00
74	T	4-Chlorophenyl phenyl ether		0.738	0.689	6.6	106	0.00
75	T	4-Nitroaniline		0.246	0.279	-13.4	114	0.00
76	T	4,6-Dinitro-o-cresol	*	5.000	4.310	13.8	107	0.00
77	T	NDPA/DPA		1.176	1.128	4.1	106	0.00
78	T	Azobenzene		1.121	1.165	-3.9	111	0.00
79	S	2,4,6-Tribromophenol		0.206	0.189	8.3	94	0.00
80	T	4-Bromophenyl phenyl ether		0.463	0.428	7.6	103	0.00
81	T	Hexachlorobenzene		0.543	0.486	10.5	103	0.00
82	T	Pentachlorophenol		0.282	0.257	8.9	98	0.00
88	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	107	0.00
89	T	Phenanthrene		1.135	1.078	5.0	108	0.00
90	T	Anthracene		1.107	1.077	2.7	106	0.00
91	T	Carbazole		0.989	0.986	0.3	106	0.00
92	T	Di-n-butylphthalate		1.116	1.239	-11.0	119	0.00
93	T	Fluoranthene		1.298	1.268	2.3	108	0.00
94	T	Benzidine		0.704	0.746	-6.0	108	0.00
95	T	Pyrene		1.359	1.341	1.3	108	0.00
96	S	4-Terphenyl-d14		1.038	0.977	5.9	105	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\250313RVT\
Data File : ABN0313.D
Acq On : 13 Mar 2025 11:03 am
Operator : SV106:jg
Sample : WG2040166-3,32,,ABN 11297 gmr0304B
Misc : WG2040166,,ical22075
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Mar 13 12:05:53 2025
Quant Method : I:\8270\SV106\250313RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 12:06:46 2025
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
97	T	Butyl benzyl phthalate	*	5.000	4.197	16.1	103	0.00
104	I	IS1_Chrysene-d12		1.000	1.000	0.0	106	0.00
105	T	Benzo(a)anthracene		1.278	1.252	2.0	108	0.00
106	T	3,3'-Dichlorobenzidine		0.429	0.446	-4.0	103	0.00
107	T	Chrysene		1.267	1.184	6.6	105	0.00
108	T	Bis(2-ethylhexyl)phthalate	*	5.000	4.472	10.6	104	0.00
109	T	Di-n-octylphthalate	*	5.000	4.133	17.3	101	0.00
110	T	Benzo(b)fluoranthene		1.314	1.203	8.4	95	0.00
111	T	Benzo(k)fluoranthene		1.222	1.174	3.9	104	0.00
112	T	Benzo(a)pyrene		1.157	1.091	5.7	98	0.00
113	I	IS1_Perylene-d12		1.000	1.000	0.0	100	0.00
114	T	Indeno(1,2,3-cd)pyrene		1.068	1.126	-5.4	99	0.00
115	T	Dibenzo(a,h)anthracene		1.063	1.085	-2.1	99	0.00
116	T	Benzo(ghi)perylene		1.047	1.074	-2.6	101	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250313RVT\
Data File : ABN0313.D
Acq On : 13 Mar 2025 11:03 am
Operator : SV106:jg
Sample : WG2040166-3,32,,ABN 11297 gmr0304B
Misc : WG2040166,,ical22075
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Mar 13 12:05:53 2025
Quant Method : I:\8270\SV106\250313RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 12:06:46 2025
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.351	152	59871	4.000	ug/ml		0.00
35) IS1_Naphthalene-d8	7.782	136	230532	4.000	ug/ml	#	0.00
63) IS1_Acenaphthene-d10	9.550	164	140631	4.000	ug/ml		0.00
88) IS1_Phenanthrene-d10	10.987	188	279147	4.000	ug/ml	#	0.00
104) IS1_Chrysene-d12	13.617	240	296814	4.000	ug/ml		0.00
113) IS1_Perylene-d12	15.079	264	301762	4.000	ug/ml		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.383	112	79389	4.701	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 235.05%#				
7) Phenol-d6	5.985	99	97095	4.904	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 245.20%#				
19) Nitrobenzene-d5	7.017	82	85147	5.192	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 519.20%#				
46) 2-Fluorobiphenyl	8.910	172	243752	4.581	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 458.10%#				
79) 2,4,6-Tribromophenol	10.321	330	33194	4.591	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 229.55%#				
96) 4-Terphenyl-d14	12.566	244	340896	4.707	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 470.70%#				
Target Compounds							Qvalue
2) n-Nitrosodimethylamine	2.019	74	54550	5.075	ug/ml		88
3) Pyridine	2.076	79	71888	3.841	ug/ml		79
5) Aniline	5.943	93	132892	5.108	ug/ml		100
6) 2-Chlorophenol	6.087	128	89452	4.907	ug/ml		96
8) Phenol	6.002	94	108595	4.972	ug/ml		98
9) Bis(2-chloroethyl)ether	6.079	93	88466	5.098	ug/ml	#	74
10) 1,3-Dichlorobenzene	6.274	146	109132	4.734	ug/ml		97
11) 1,4-Dichlorobenzene	6.376	146	112929	4.792	ug/ml		98
12) 1,2-Dichlorobenzene	6.554	146	108694	4.872	ug/ml		97
13) Benzyl alcohol	6.563	79	66715	4.897	ug/ml		95
14) Bis(2-chloroisopropyl)...	6.747	45	219702	5.429	ug/ml	#	73
15) 2-Methylphenol	6.739	108	93517	4.871	ug/ml		95
16) Hexachloroethane	6.942	117	39881	4.878	ug/ml	#	56
17) n-Nitrosodi-n-propylamine	6.897	70	64026	5.005	ug/ml		94
18) 3-Methylphenol/4-Methy...	6.927	108	84937	5.112	ug/ml		97
20) Nitrobenzene	7.032	77	90075	5.382	ug/ml		100
21) Isophorone	7.318	82	172103	5.009	ug/ml		99
22) 2-Nitrophenol	7.393	139	39408	5.173	ug/ml		92

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250313RVT\
Data File : ABN0313.D
Acq On : 13 Mar 2025 11:03 am
Operator : SV106:jg
Sample : WG2040166-3,32,,ABN 11297 gmr0304B
Misc : WG2040166,,ical22075
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Mar 13 12:05:53 2025
Quant Method : I:\8270\SV106\250313RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 12:06:46 2025
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) 2,4-Dimethylphenol	7.498	107	90896	5.068	ug/ml	97
24) Bis(2-chloroethoxy)met...	7.595	93	94969	3.872	ug/ml	95
25) 2,4-Dichlorophenol	7.660	162	85688	5.035	ug/ml#	92
26) 1,2,4-Trichlorobenzene	7.739	180	103336	4.737	ug/ml	98
36) Naphthalene	7.804	128	291303	4.740	ug/ml	99
37) Benzoic Acid	7.573	105	24316	3.270	ug/ml	91
38) 4-Chloroaniline	7.890	65	36928	4.869	ug/ml	89
39) Hexachlorobutadiene	7.977	225	64816	4.612	ug/ml	98
40) p-Chloro-m-cresol	8.424	107	84236	4.497	ug/ml	93
41) 2-Methylnaphthalene	8.528	142	177561	4.831	ug/ml	96
42) 1-Methylnaphthalene	8.618	115	64536	4.574	ug/ml	96
43) Hexachlorocyclopentadiene	8.708	237	75997	4.397	ug/ml	98
44) 2,4,6-Trichlorophenol	8.828	196	64298	4.442	ug/ml	92
45) 2,4,5-Trichlorophenol	8.851	196	74038	5.041	ug/ml	91
47) 2-Chloronaphthalene	9.000	162	202125	4.636	ug/ml	95
48) 2-Nitroaniline	9.120	138	47795	4.989	ug/ml	89
49) 1,4-Dinitrobenzene	9.266	168	2450M3	3.259	ug/ml	
50) 1,3-Dinitrobenzene	9.329	168	27687	4.608	ug/ml#	1
51) Dimethyl phthalate	9.329	163	244821	4.676	ug/ml#	98
52) Acenaphthylene	9.403	152	322215	4.653	ug/ml	98
53) 2,6-Dinitrotoluene	9.371	165	47130	5.425	ug/ml#	74
54) 1,2-Dinitrobenzene	9.413	168	18903	5.197	ug/ml#	1
64) 3-Nitroaniline	9.519	138	47348	5.338	ug/ml#	94
65) Acenaphthene	9.582	154	183629	4.742	ug/ml	90
66) 2,4-Dinitrophenol	9.624	184	20875	4.576	ug/ml#	86
67) Dibenzofuran	9.750	168	305446	4.540	ug/ml	87
68) 2,4-Dinitrotoluene	9.761	165	58736	4.809	ug/ml#	79
69) 4-Nitrophenol	9.719	65	35437	5.238	ug/ml#	33
70) 2,3,5,6-Tetrachlorophenol	9.842	232	84324	6.567	ug/ml	98
71) 2,3,4,6-Tetrachlorophenol	9.884	232	59231	4.896	ug/ml	96
72) Diethyl phthalate	10.025	149	229757	4.809	ug/ml	99
73) Fluorene	10.081	166	238667	4.815	ug/ml	96
74) 4-Chlorophenyl phenyl ...	10.103	204	121141	4.671	ug/ml#	86
75) 4-Nitroaniline	10.110	138	48996	5.676	ug/ml	87
76) 4,6-Dinitro-o-cresol	10.152	198	31159	4.310	ug/ml#	65
77) NDPA/DPA	10.222	169	198273	4.797	ug/ml	94
78) Azobenzene	10.258	77	204785	5.195	ug/ml	94
80) 4-Bromophenyl phenyl e...	10.579	248	75165	4.617	ug/ml#	82
81) Hexachlorobenzene	10.624	284	85417	4.475	ug/ml#	81
82) Pentachlorophenol	10.821	266	45179	4.550	ug/ml	97
89) Phenanthrene	11.010	178	376101	4.747	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250313RVT\
Data File : ABN0313.D
Acq On : 13 Mar 2025 11:03 am
Operator : SV106:jg
Sample : WG2040166-3,32,,ABN 11297 gmr0304B
Misc : WG2040166,,ical22075
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Mar 13 12:05:53 2025
Quant Method : I:\8270\SV106\250313RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 12:06:46 2025
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
90) Anthracene	11.056	178	375656	4.861	ug/ml	99
91) Carbazole	11.230	167	343977	4.985	ug/ml	99
92) Di-n-butylphthalate	11.624	149	432499	5.551	ug/ml#	96
93) Fluoranthene	12.163	202	442287	4.884	ug/ml#	93
94) Benzidine	12.322	184	260339	5.302	ug/ml#	94
95) Pyrene	12.379	202	467958	4.935	ug/ml	100
97) Butyl benzyl phthalate	13.101	149	147158	4.197	ug/ml	88
105) Benzo(a)anthracene	13.609	228	464397	4.897	ug/ml	100
106) 3,3'-Dichlorobenzidine	13.609	252	165339	5.194	ug/ml#	97
107) Chrysene	13.641	228	439246	4.672	ug/ml	99
108) Bis(2-ethylhexyl)phtha...	13.736	149	239536	4.472	ug/ml	94
109) Di-n-octylphthalate	14.417	149	369355	4.133	ug/ml#	79
110) Benzo(b)fluoranthene	14.712	252	446487	4.579	ug/ml#	94
111) Benzo(k)fluoranthene	14.736	252	435399	4.800	ug/ml#	93
112) Benzo(a)pyrene	15.023	252	404824	4.716	ug/ml#	93
114) Indeno(1,2,3-cd)pyrene	16.046	276	424700M6	5.272	ug/mL	
115) Dibenzo(a,h)anthracene	16.069	278	409432	5.108	ug/ml#	90
116) Benzo(ghi)perylene	16.283	276	404985	5.125	ug/ml#	87

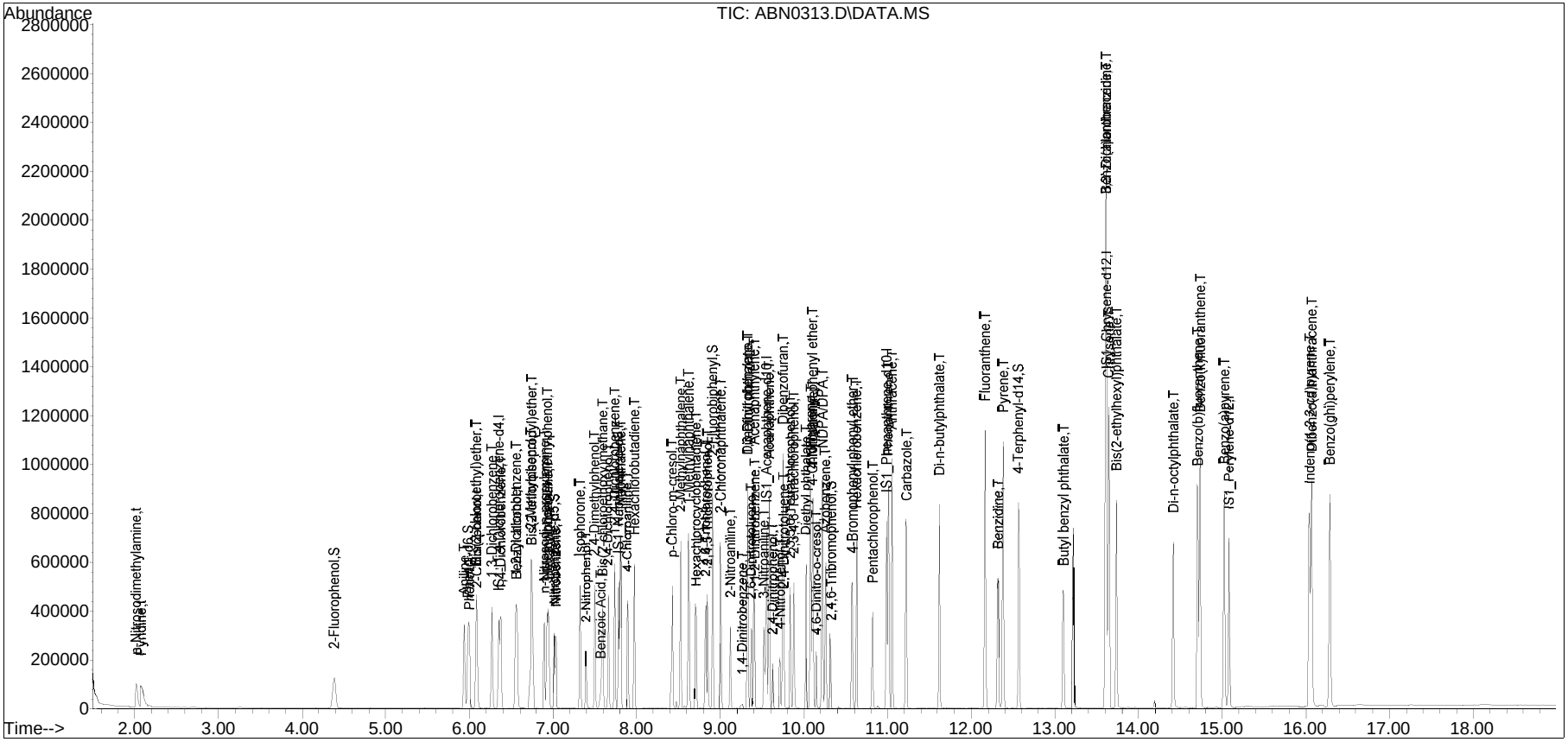
(#) = qualifier out of range (m) = manual integration (+) = signals summed

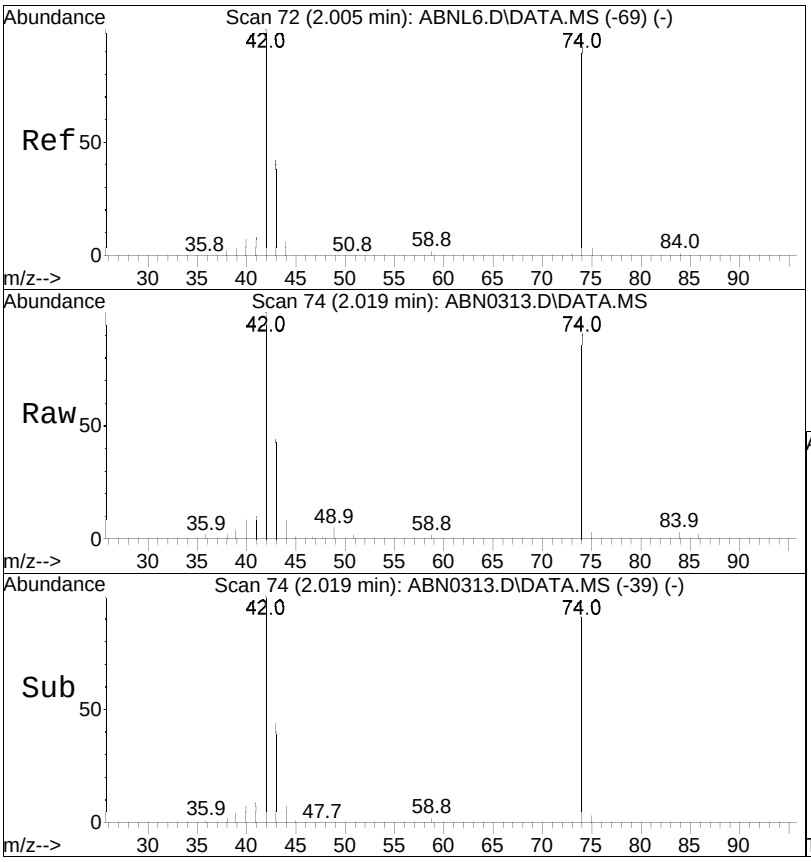
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250313RVT\
Data File : ABN0313.D
Acq On : 13 Mar 2025 11:03 am
Operator : SV106:jg
Sample : WG2040166-3,32,,ABN 11297 gmr0304B
Misc : WG2040166,,ical22075
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Mar 13 12:05:53 2025
Quant Method : I:\8270\SV106\250313RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 12:06:46 2025
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

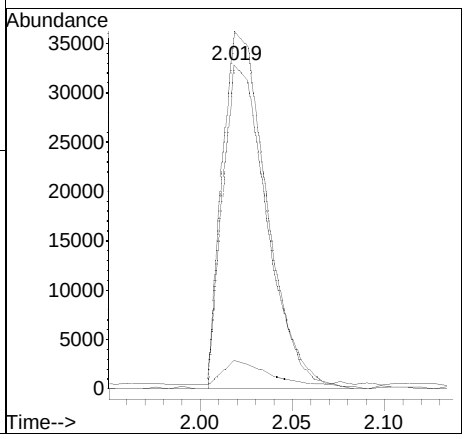


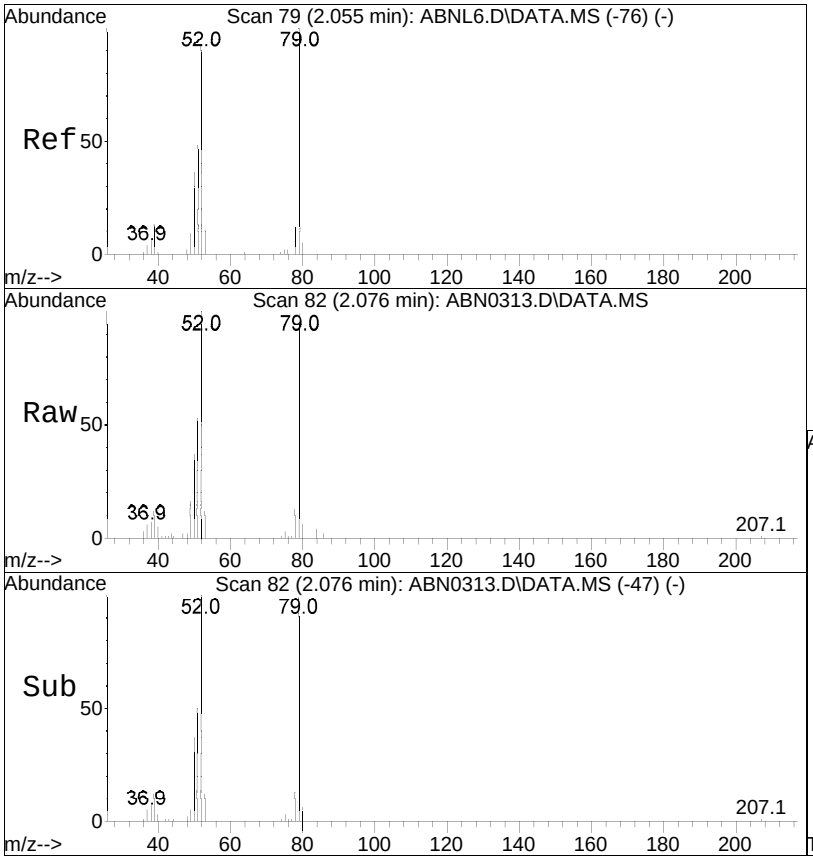


#2
n-Nitrosodimethylamine
Concen: 5.07 ug/ml
RT: 2.019 min Scan# 74
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion: 74 Resp: 54550

Ion	Ratio	Lower	Upper
74	100		
42	110.9	100.0	150.0
44	7.2	6.7	10.1

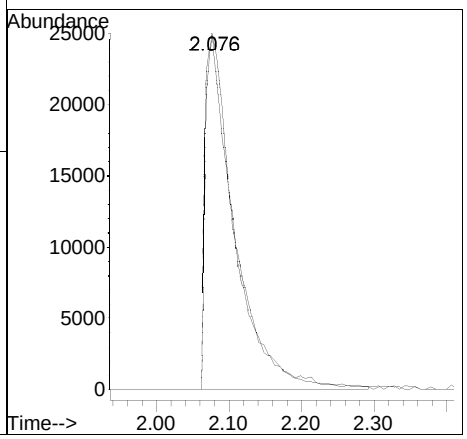


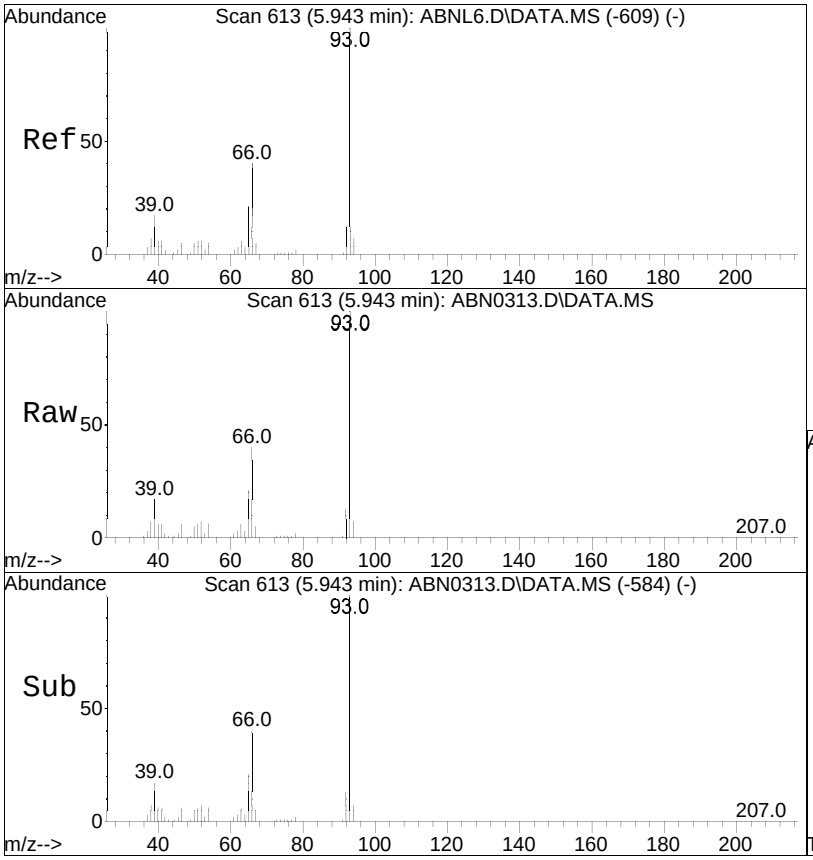


#3
Pyridine
Concen: 3.84 ug/ml
RT: 2.076 min Scan# 82
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion: 79 Resp: 71888

Ion	Ratio	Lower	Upper
79	100		
52	94.0	93.1	139.7

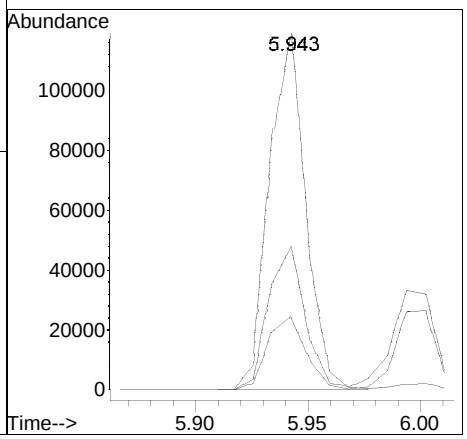


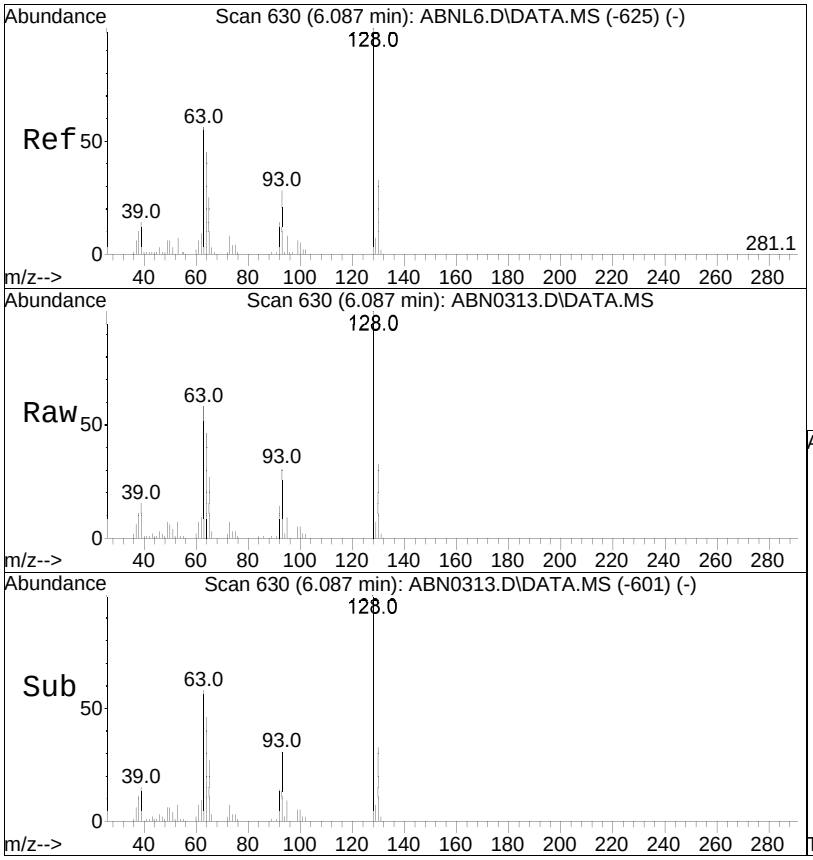


#5
Aniline
Concen: 5.11 ug/ml
RT: 5.943 min Scan# 613
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion: 93 Resp: 132892

Ion	Ratio	Lower	Upper
93	100		
66	40.9	32.6	49.0
65	21.9	17.6	26.4

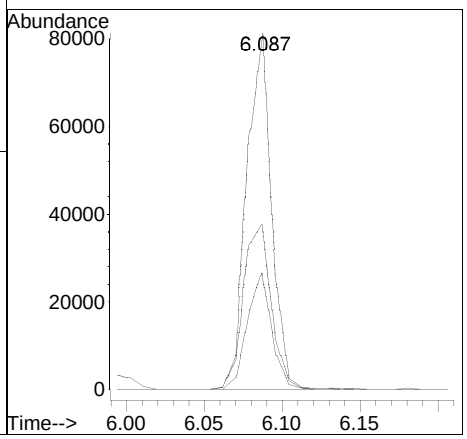


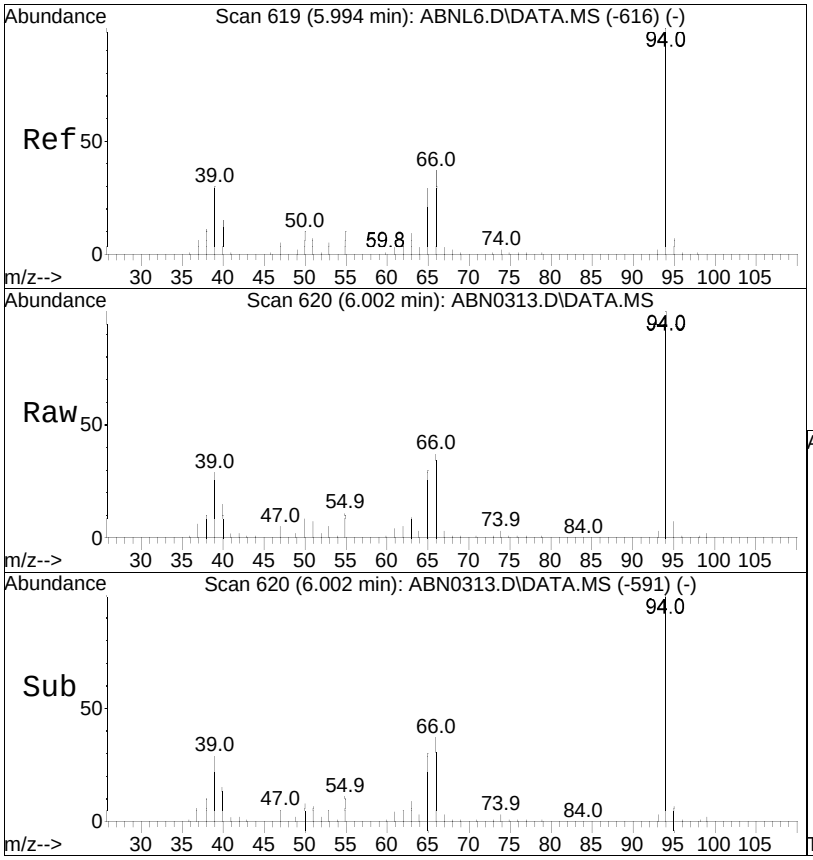


#6
2-Chlorophenol
Concen: 4.91 ug/ml
RT: 6.087 min Scan# 630
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:128 Resp: 89452

Ion	Ratio	Lower	Upper
128	100		
64	52.5	45.1	67.7
130	32.3	26.2	39.4

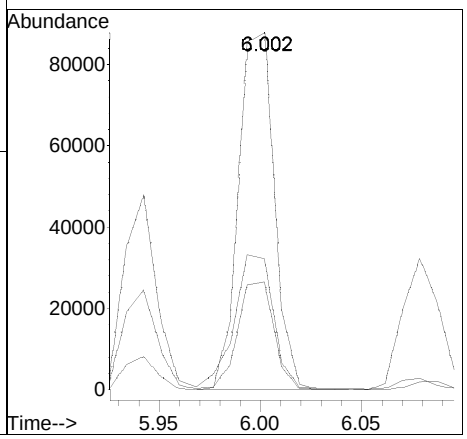


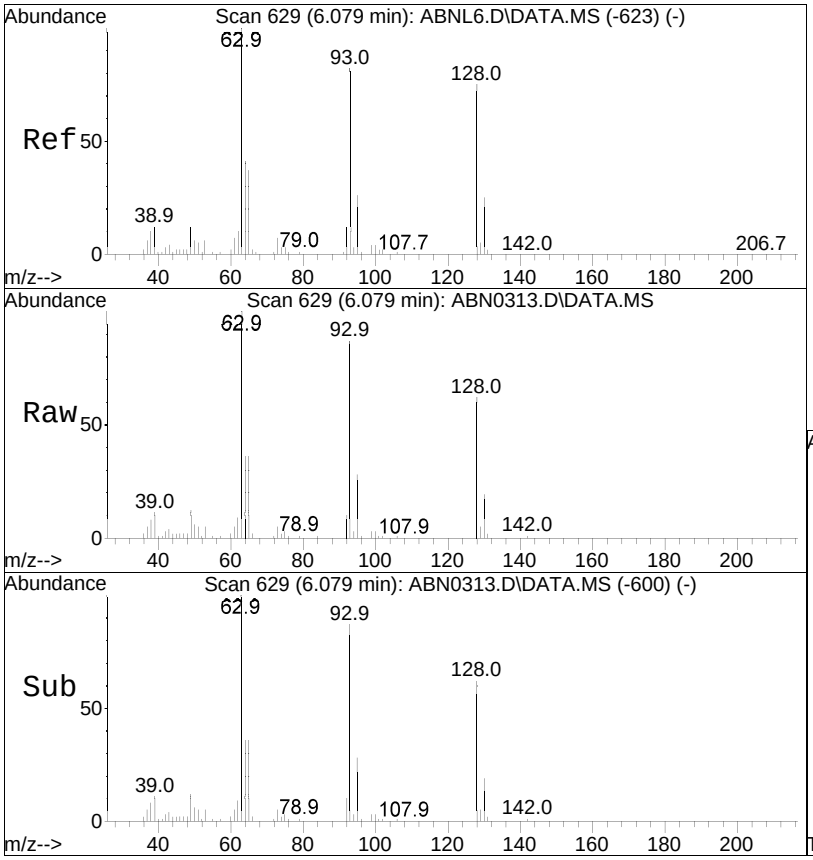


#8
Phenol
Concen: 4.97 ug/ml
RT: 6.002 min Scan# 620
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion: 94 Resp: 108595

Ion	Ratio	Lower	Upper
94	100		
65	30.9	26.0	39.0
66	41.6	33.8	50.8

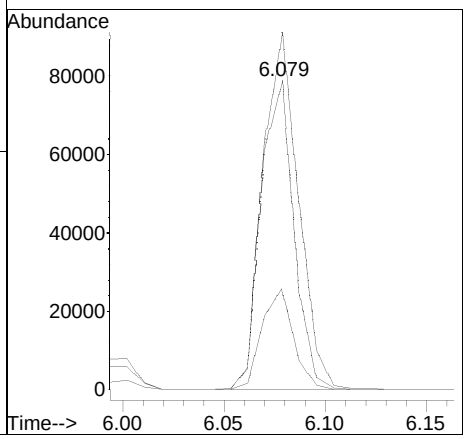


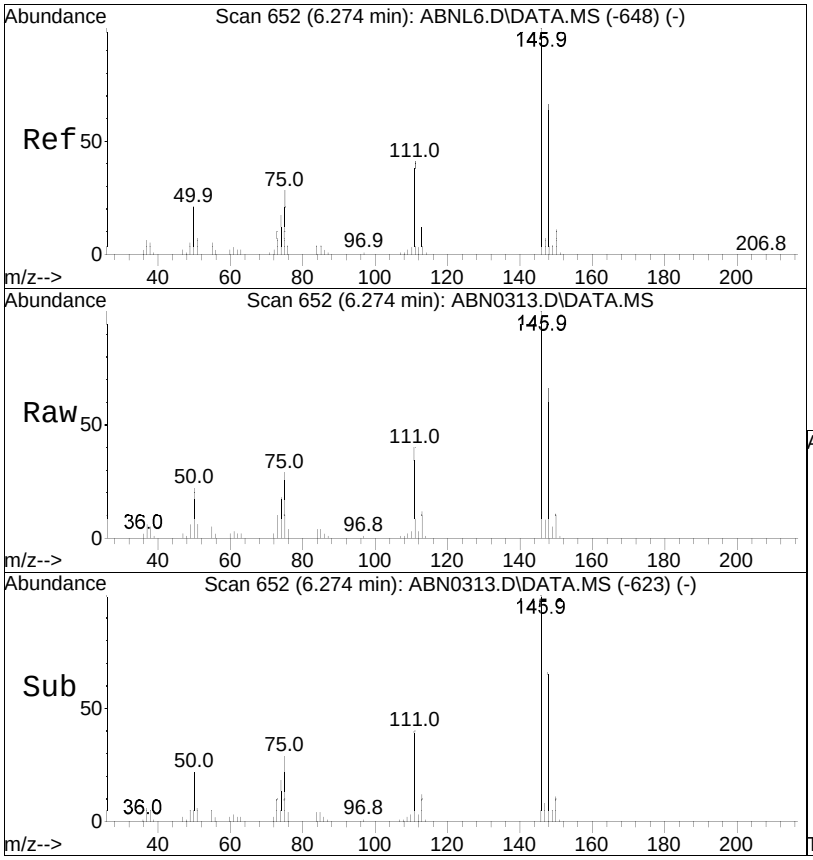


#9
Bis(2-chloroethyl)ether
Concen: 5.10 ug/ml
RT: 6.079 min Scan# 629
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion: 93 Resp: 88466

Ion	Ratio	Lower	Upper
93	100		
63	125.7	74.6	111.8#
95	31.5	25.9	38.9

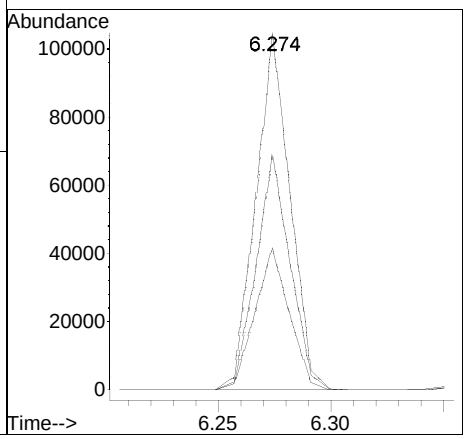


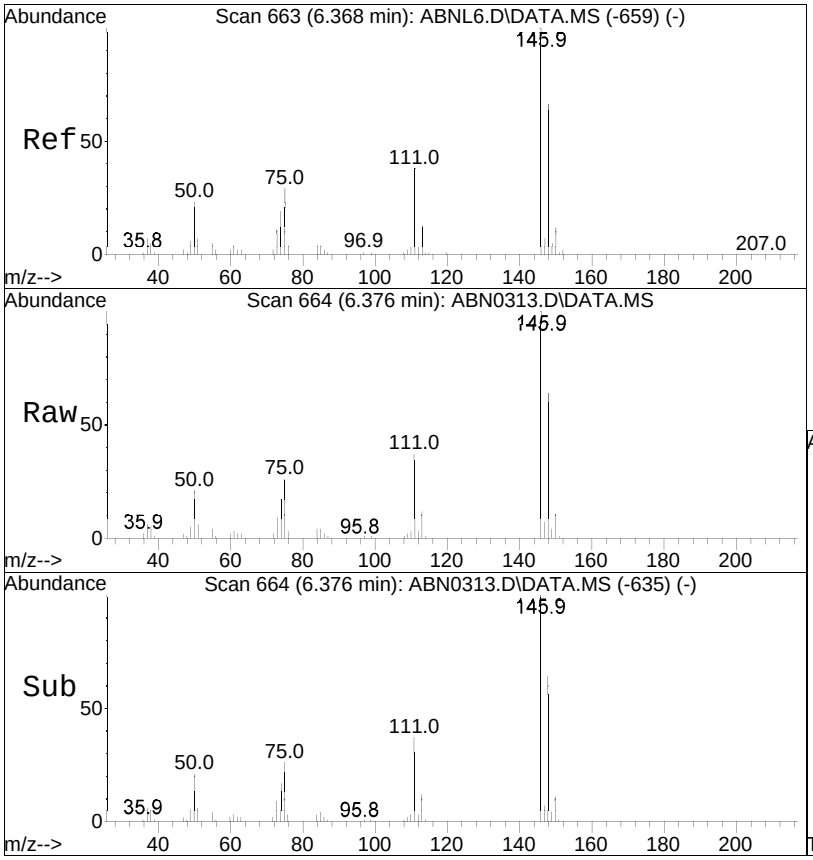


#10
1,3-Dichlorobenzene
Concen: 4.73 ug/ml
RT: 6.274 min Scan# 652
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:146 Resp: 109132

Ion	Ratio	Lower	Upper
146	100		
111	40.1	34.3	51.5
148	65.4	50.8	76.2

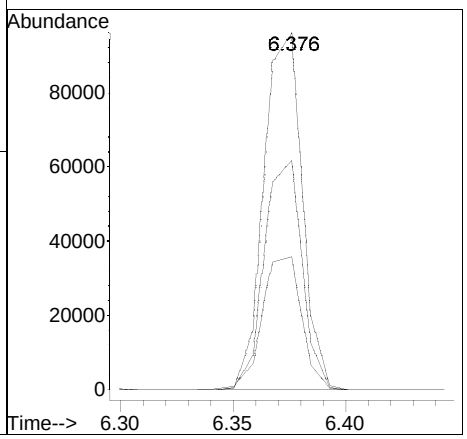


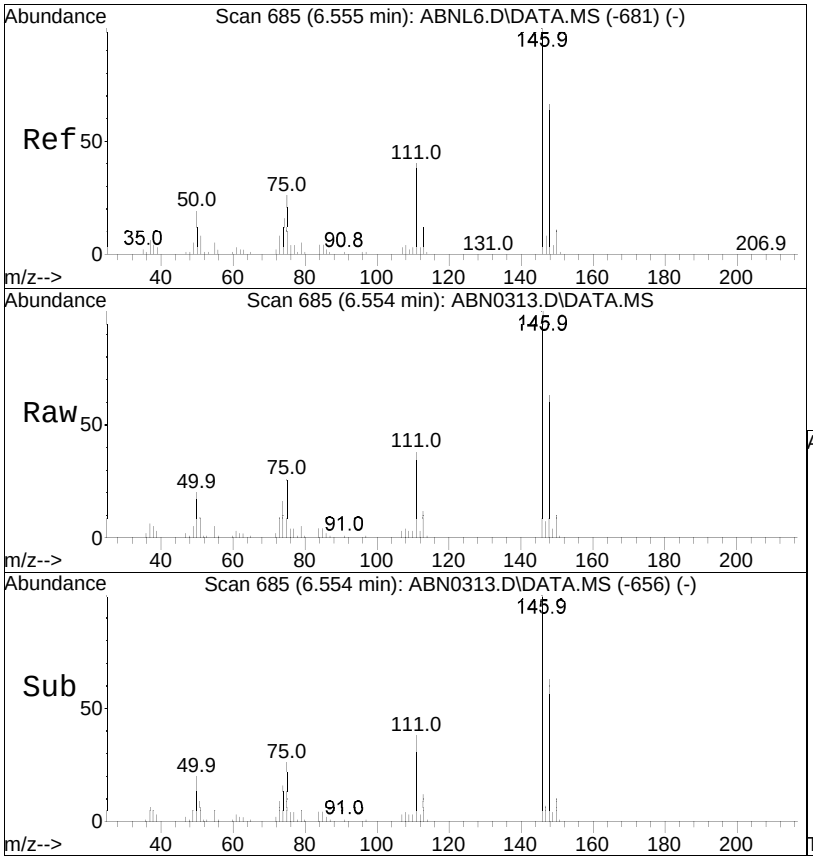


#11
1,4-Dichlorobenzene
Concen: 4.79 ug/ml
RT: 6.376 min Scan# 664
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:146 Resp: 112929

Ion	Ratio	Lower	Upper
146	100		
148	63.6	50.7	76.1
111	38.7	33.4	50.0

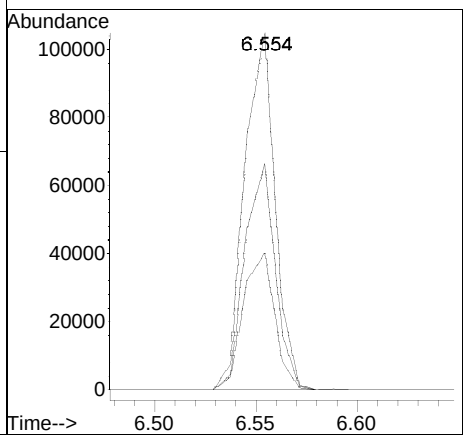


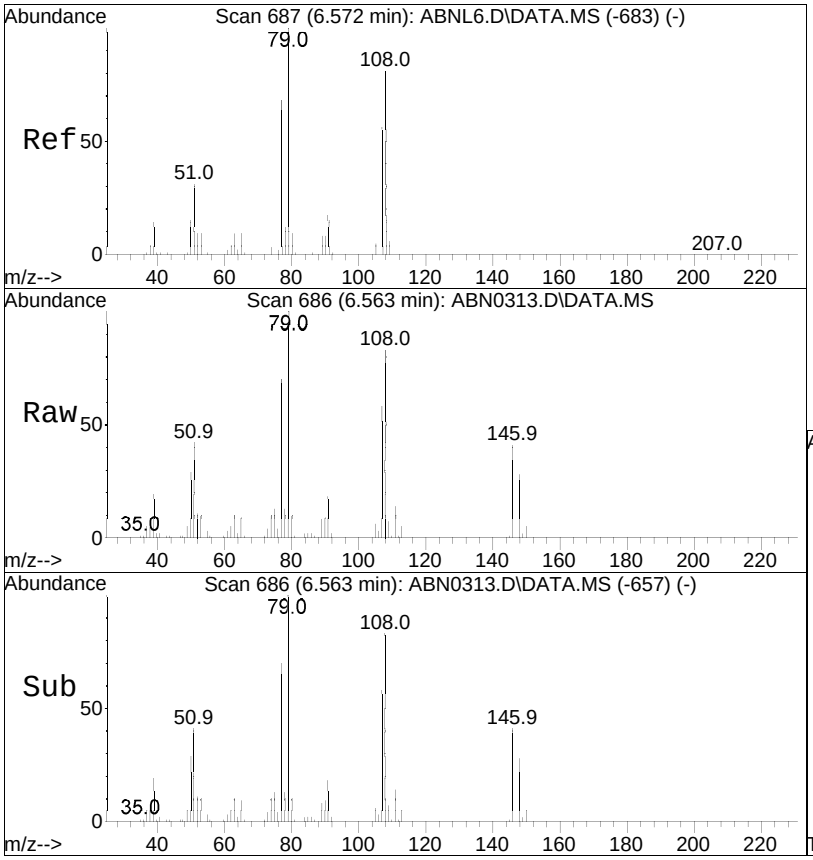


#12
1,2-Dichlorobenzene
Concen: 4.87 ug/ml
RT: 6.554 min Scan# 685
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:146 Resp: 108694

Ion	Ratio	Lower	Upper
146	100		
111	40.0	34.6	52.0
148	63.4	50.2	75.4

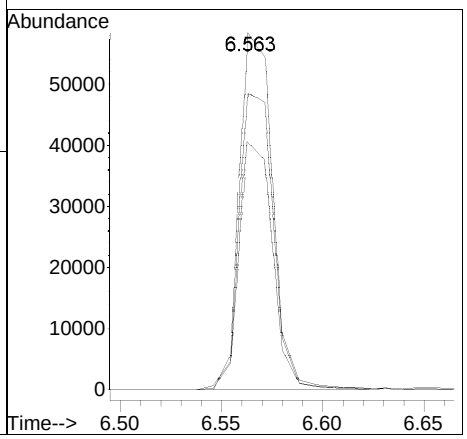


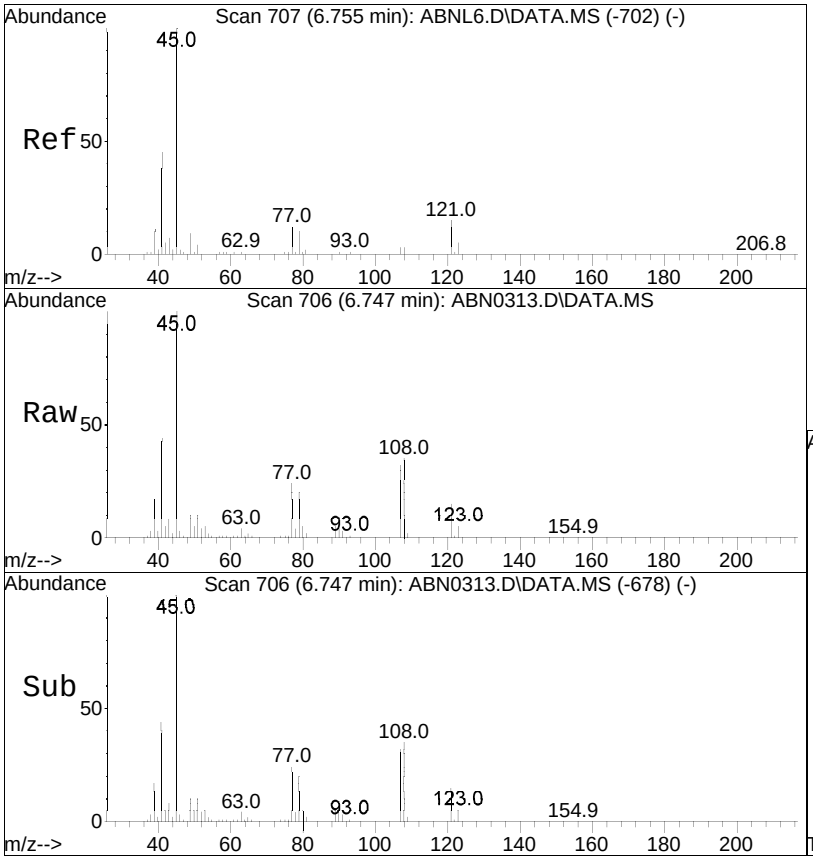


#13
Benzyl alcohol
Concen: 4.90 ug/ml
RT: 6.563 min Scan# 686
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion: 79 Resp: 66715

Ion	Ratio	Lower	Upper
79	100		
77	70.6	54.9	82.3
108	85.0	63.1	94.7

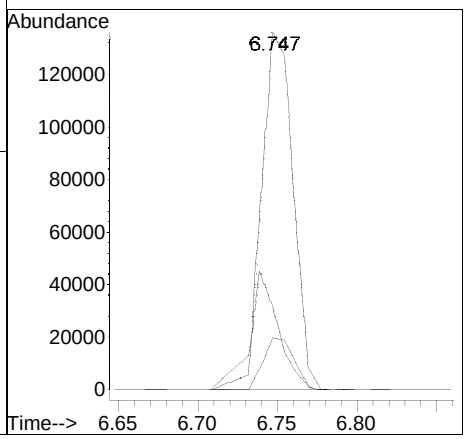


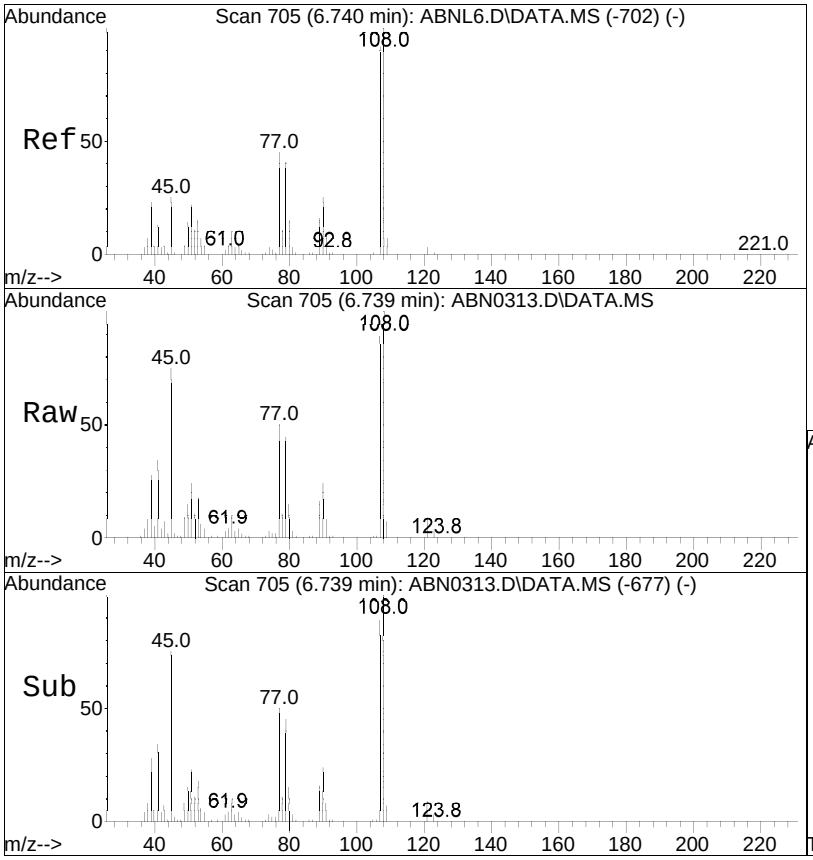


#14
Bis(2-chloroisopropyl)ether
Concen: 5.43 ug/ml
RT: 6.747 min Scan# 706
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion: 45 Resp: 219702

Ion	Ratio	Lower	Upper
45	100		
121	15.3	9.8	14.6#
77	28.2	6.1	9.1#

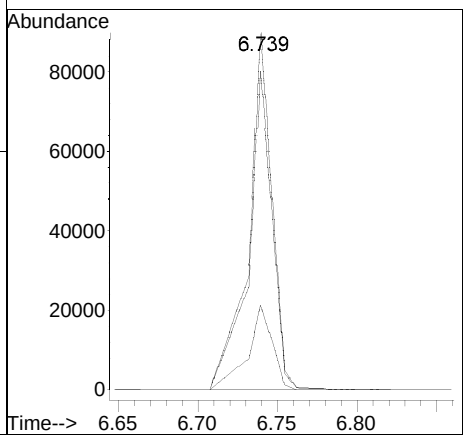


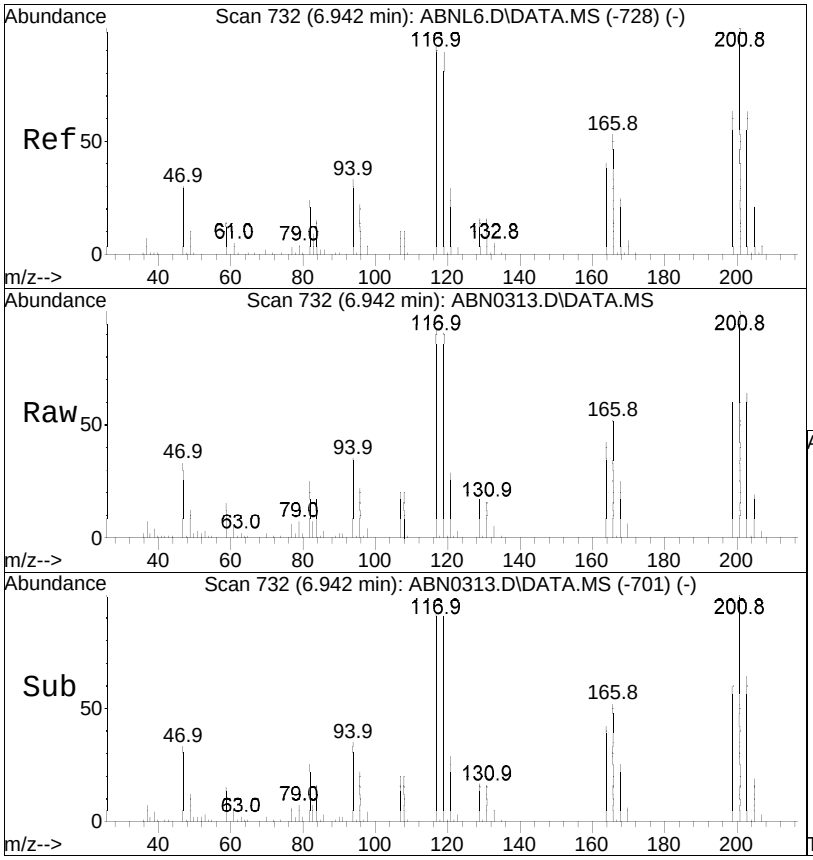


#15
2-Methylphenol
Concen: 4.87 ug/ml
RT: 6.739 min Scan# 705
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:108 Resp: 93517

Ion	Ratio	Lower	Upper
108	100		
107	92.4	70.7	106.1
90	27.3	18.7	28.1

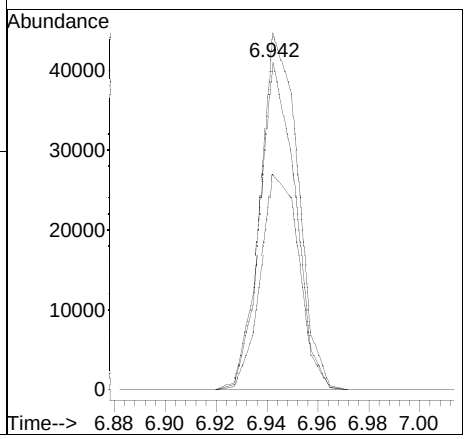


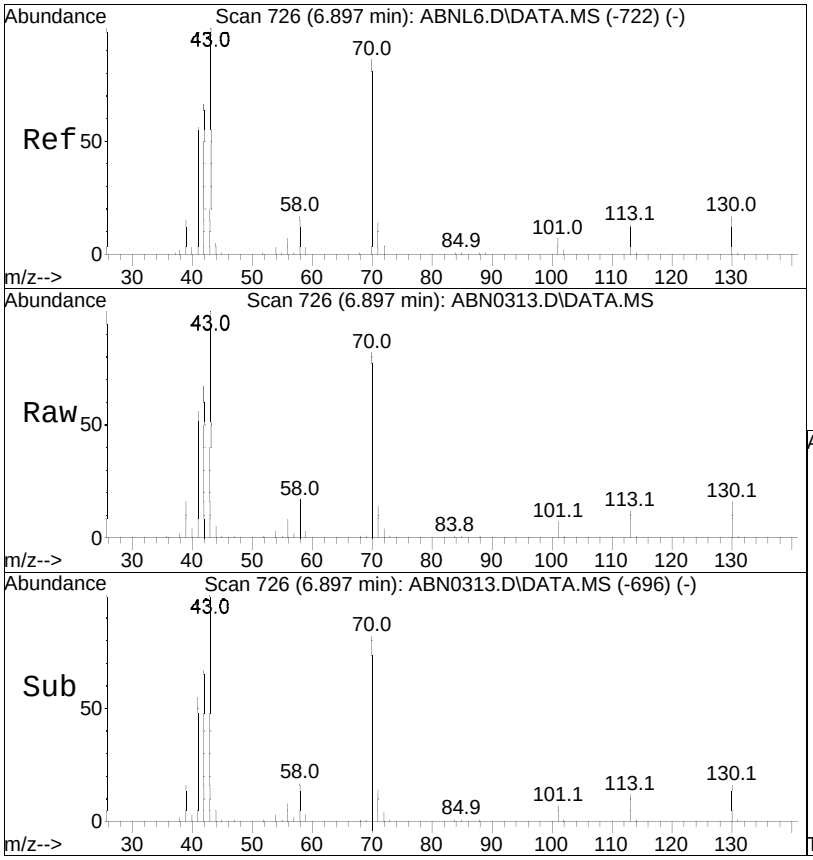


#16
Hexachloroethane
Concen: 4.88 ug/ml
RT: 6.942 min Scan# 732
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:117 Resp: 39881

Ion	Ratio	Lower	Upper
117	100		
201	113.6	58.6	87.8#
199	71.1	36.9	55.3#

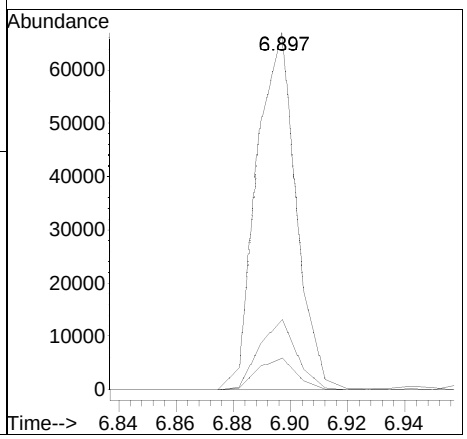


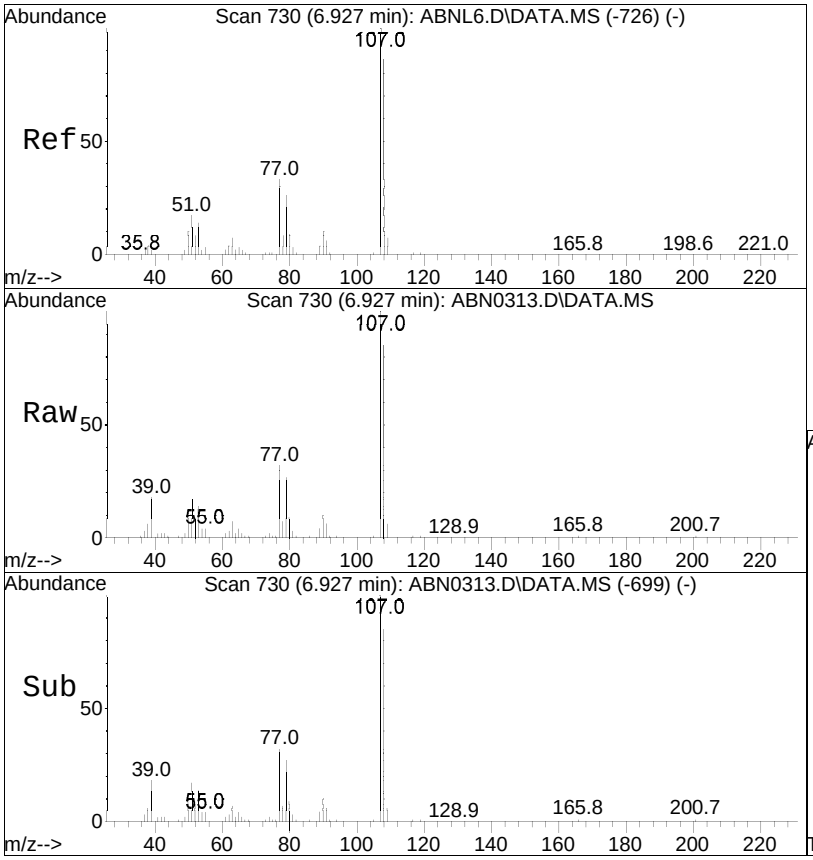


#17
n-Nitrosodi-n-propylamine
Concen: 5.00 ug/ml
RT: 6.897 min Scan# 726
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion: 70 Resp: 64026

Ion	Ratio	Lower	Upper
70	100		
130	18.9	18.2	27.4
101	8.8	7.8	11.8

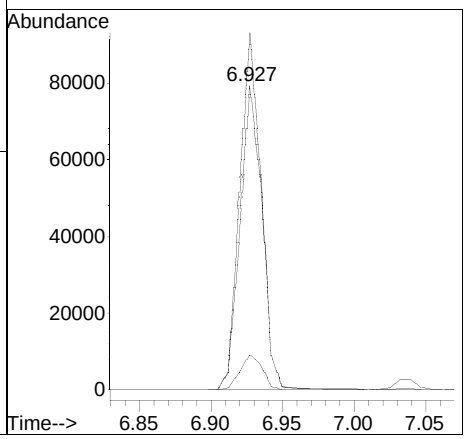


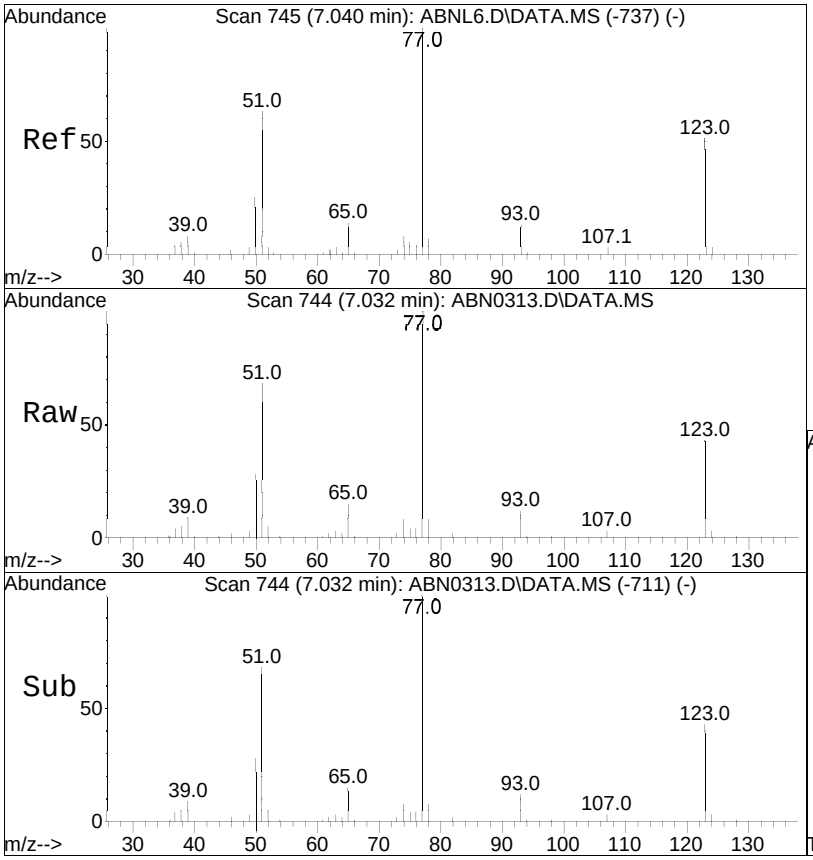


#18
3-Methylphenol/4-Methylphenol
Concen: 5.11 ug/ml
RT: 6.927 min Scan# 730
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:108 Resp: 84937

Ion	Ratio	Lower	Upper
108	100		
107	114.3	88.6	132.8
90	11.6	8.8	13.2

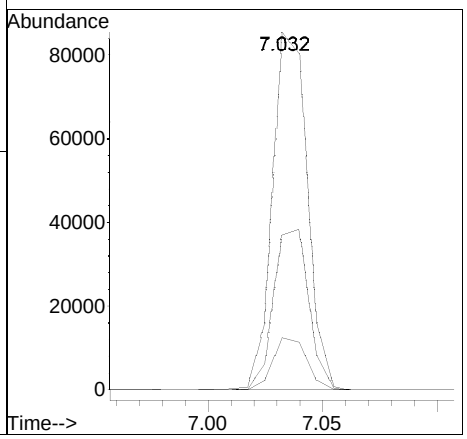


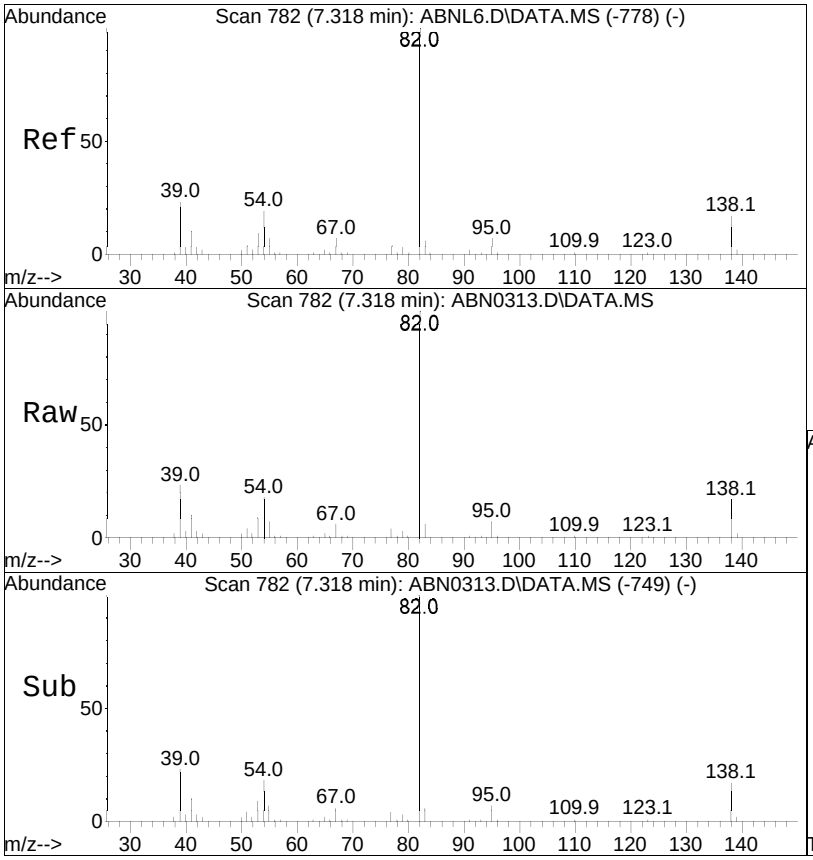


#20
Nitrobenzene
Concen: 5.38 ug/ml
RT: 7.032 min Scan# 744
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion: 77 Resp: 90075

Ion	Ratio	Lower	Upper
77	100		
123	45.4	36.3	54.5
65	14.5	11.6	17.4

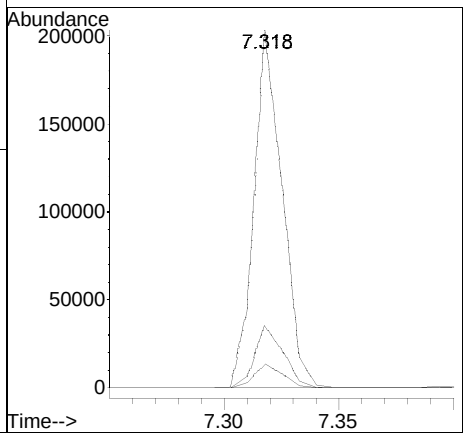


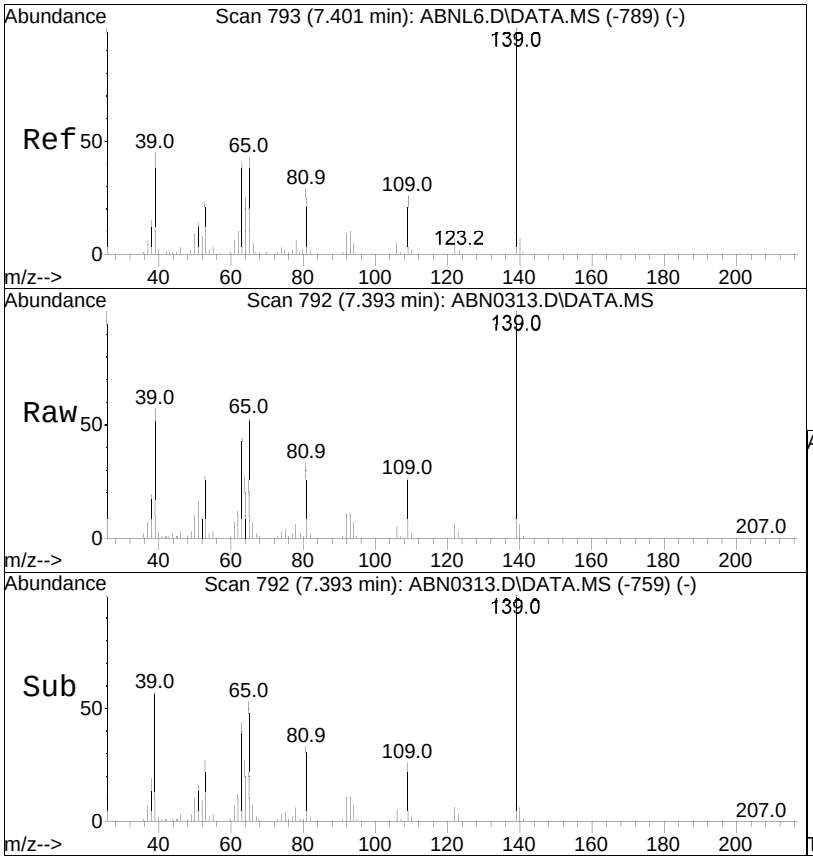


#21
Isophorone
Concen: 5.01 ug/ml
RT: 7.318 min Scan# 782
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion: 82 Resp: 172103

Ion	Ratio	Lower	Upper
82	100		
138	17.8	14.7	22.1
95	6.9	5.2	7.8

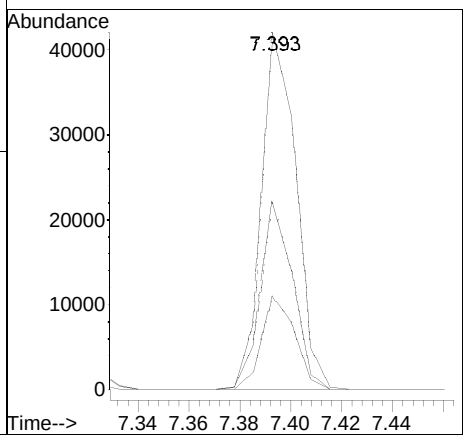


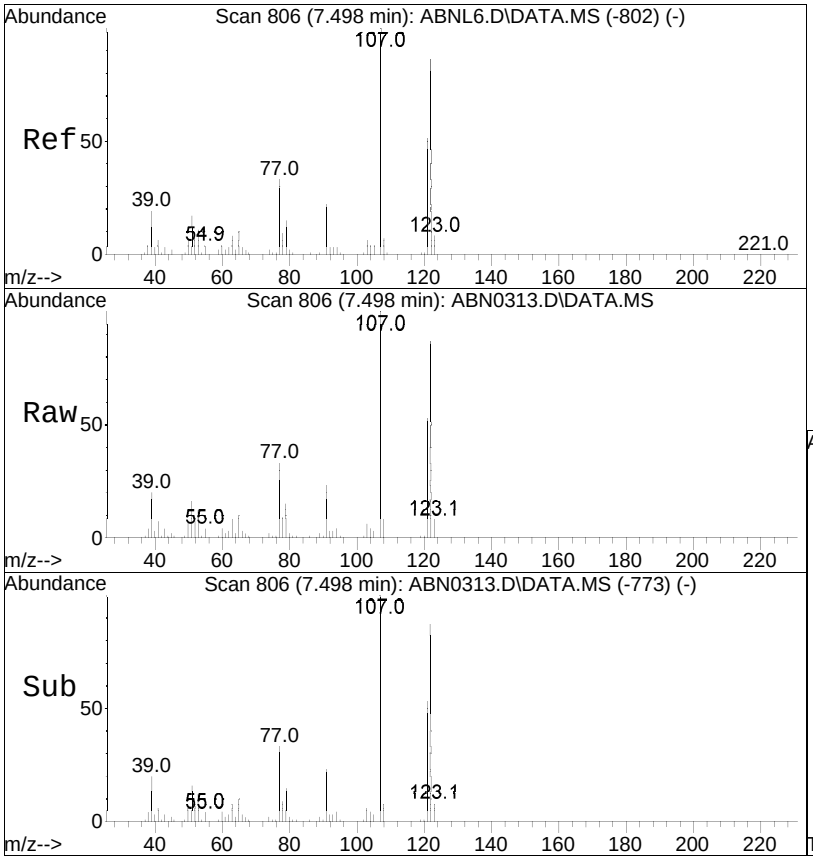


#22
2-Nitrophenol
Concen: 5.17 ug/ml
RT: 7.393 min Scan# 792
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:139 Resp: 39408

Ion	Ratio	Lower	Upper
139	100		
109	25.4	19.4	29.0
65	49.8	46.1	69.1

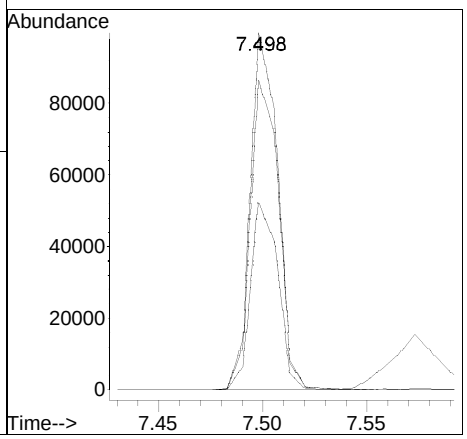


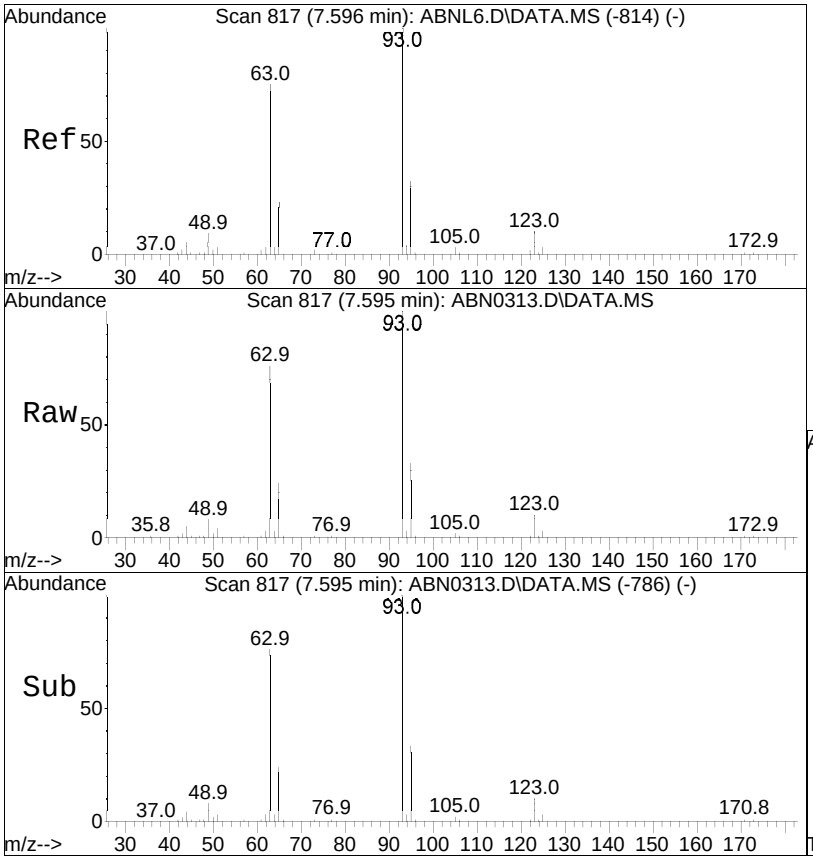


#23
2,4-Dimethylphenol
Concen: 5.07 ug/ml
RT: 7.498 min Scan# 806
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:107 Resp: 90896

Ion	Ratio	Lower	Upper
107	100		
121	52.7	40.0	60.0
122	89.6	70.2	105.4

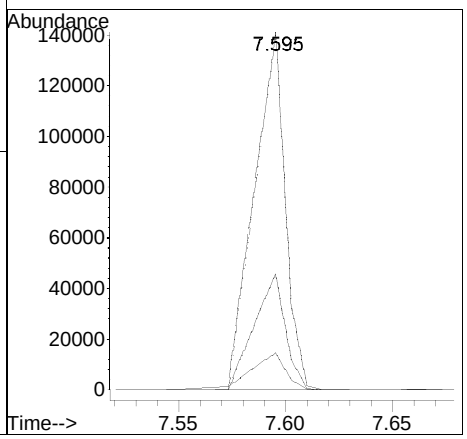


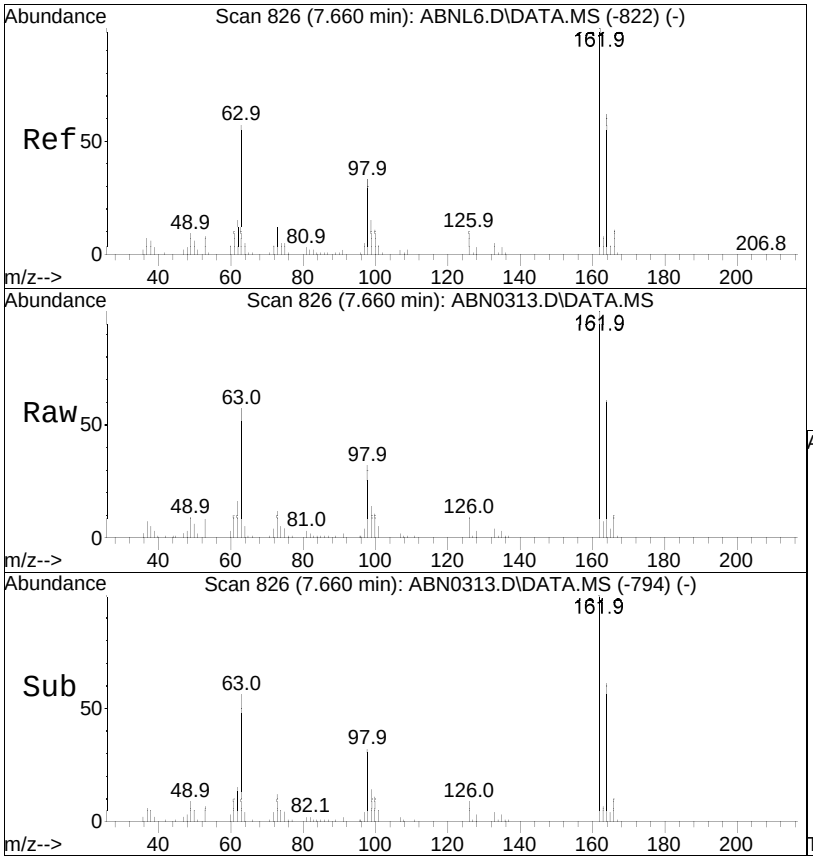


#24
Bis(2-chloroethoxy)methane
Concen: 3.87 ug/ml
RT: 7.595 min Scan# 817
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion: 93 Resp: 94969

Ion	Ratio	Lower	Upper
93	100		
95	36.0	25.8	38.8
123	12.3	10.1	15.1

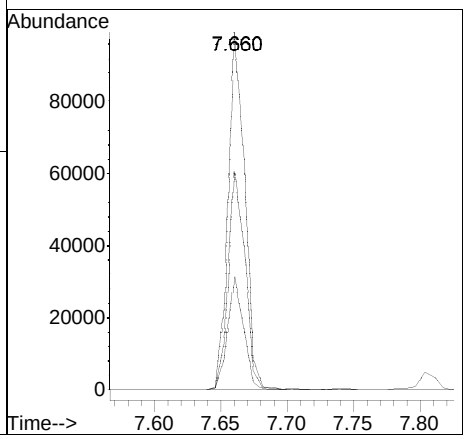


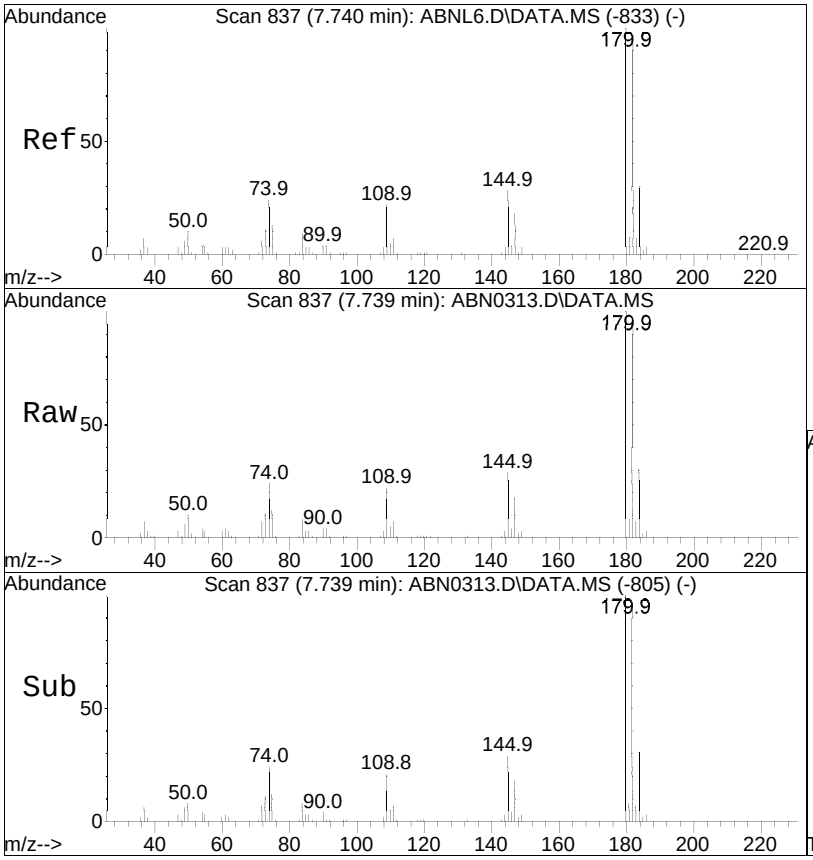


#25
2,4-Dichlorophenol
Concen: 5.03 ug/ml
RT: 7.660 min Scan# 826
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:162 Resp: 85688

Ion	Ratio	Lower	Upper
162	100		
164	61.5	51.0	76.4
98	30.7	32.2	48.2#

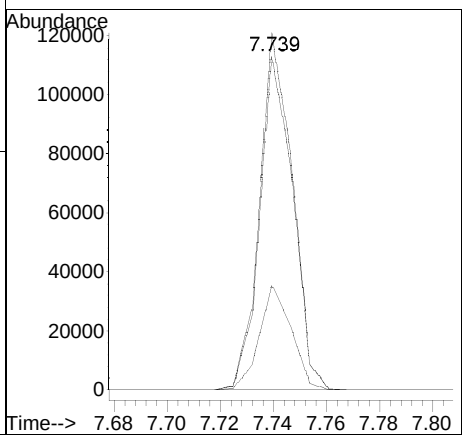


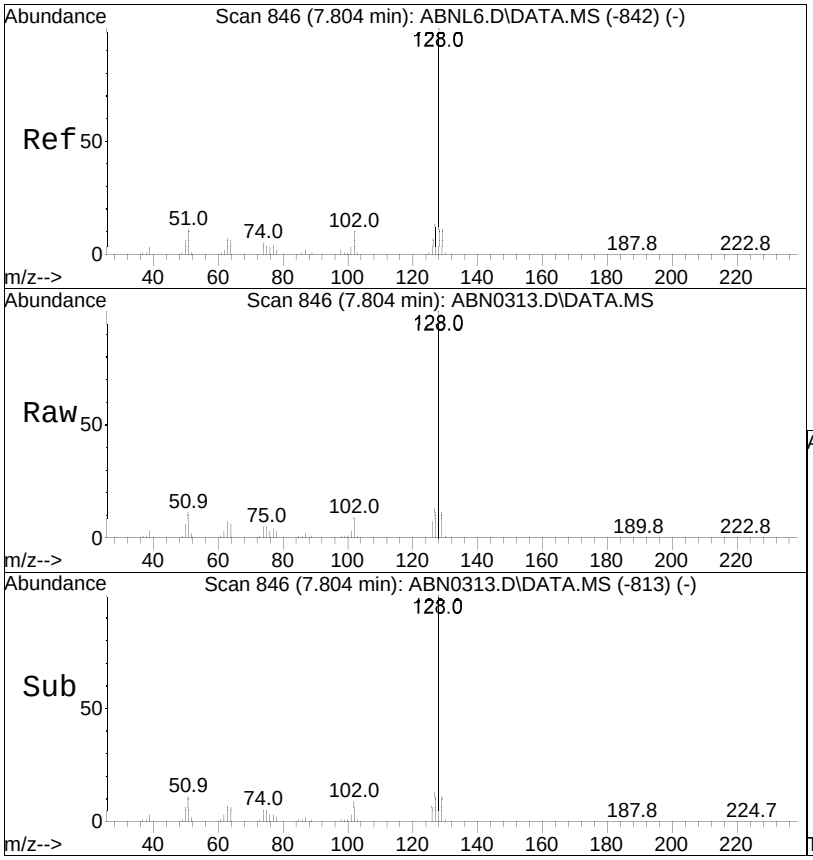


#26
1,2,4-Trichlorobenzene
Concen: 4.74 ug/ml
RT: 7.739 min Scan# 837
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:180 Resp: 103336

Ion	Ratio	Lower	Upper
180	100		
182	94.1	76.0	114.0
145	28.5	25.7	38.5

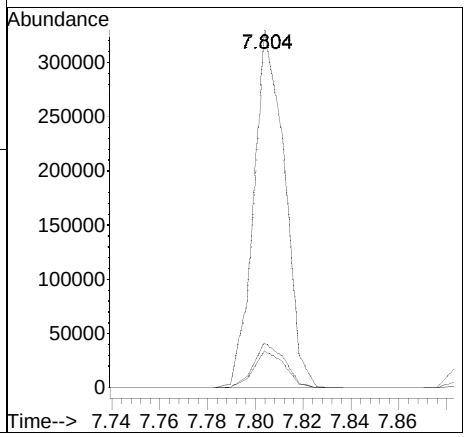


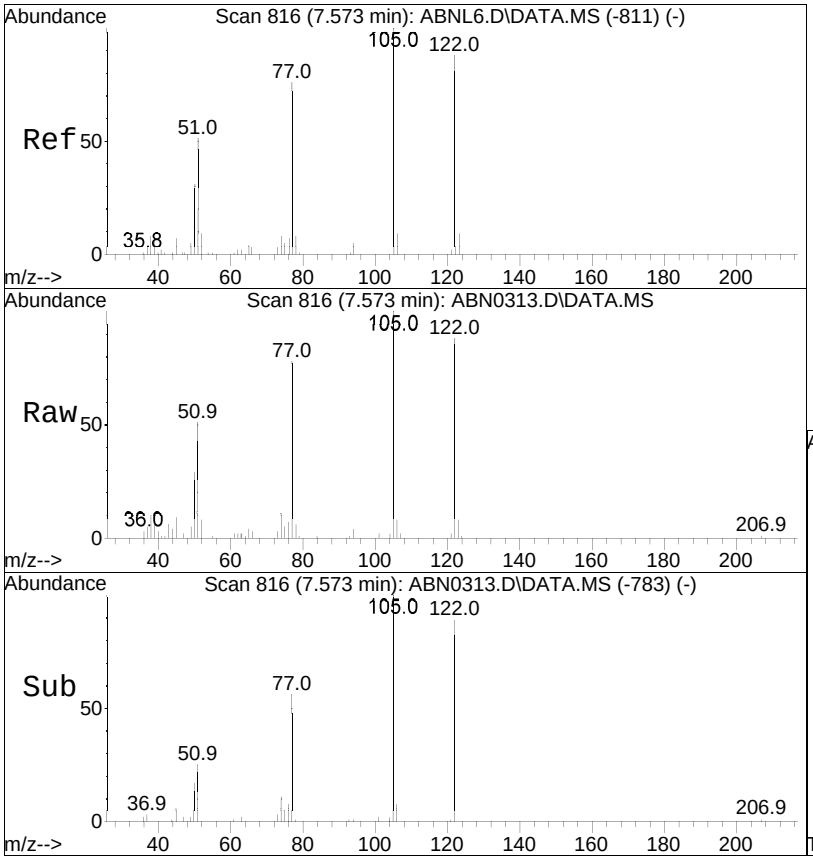


#36
Naphthalene
Concen: 4.74 ug/ml
RT: 7.804 min Scan# 846
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:128 Resp: 291303

Ion	Ratio	Lower	Upper
128	100		
129	10.5	8.7	13.1
127	12.8	10.3	15.5

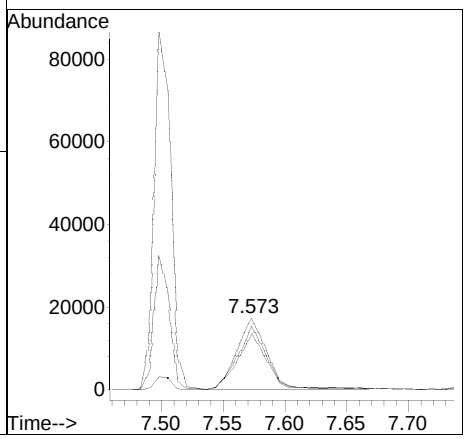


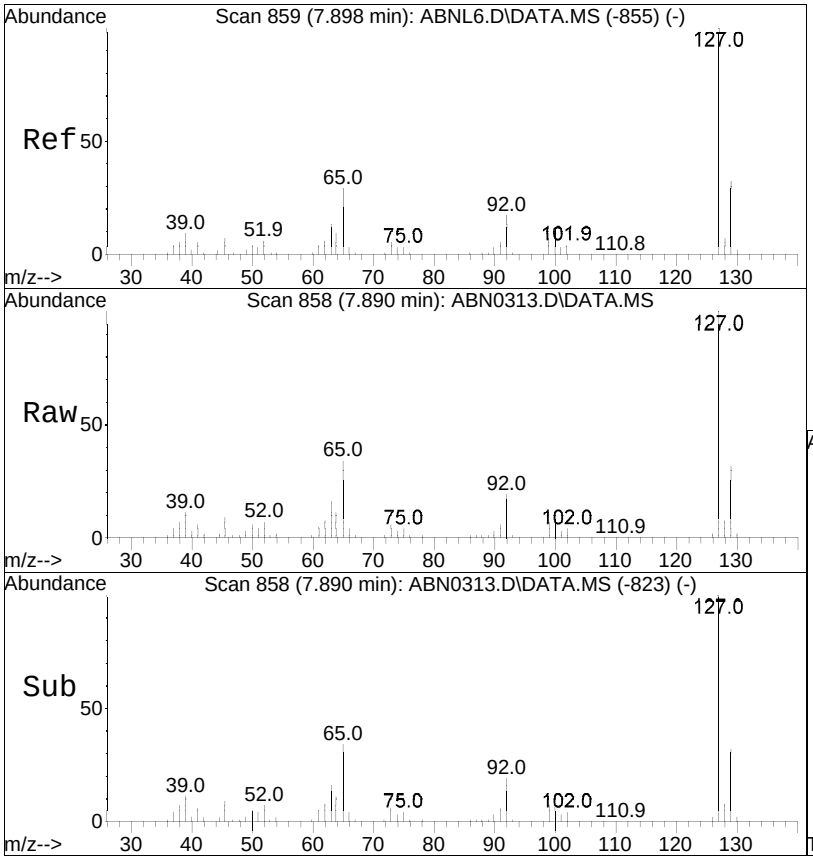


#37
Benzoic Acid
Concen: 3.27 ug/ml
RT: 7.573 min Scan# 816
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:105 Resp: 24316

Ion	Ratio	Lower	Upper
105	100		
122	86.8	59.9	89.9
77	77.8	60.1	90.1

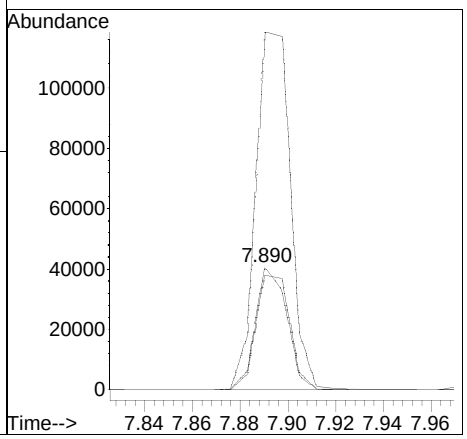


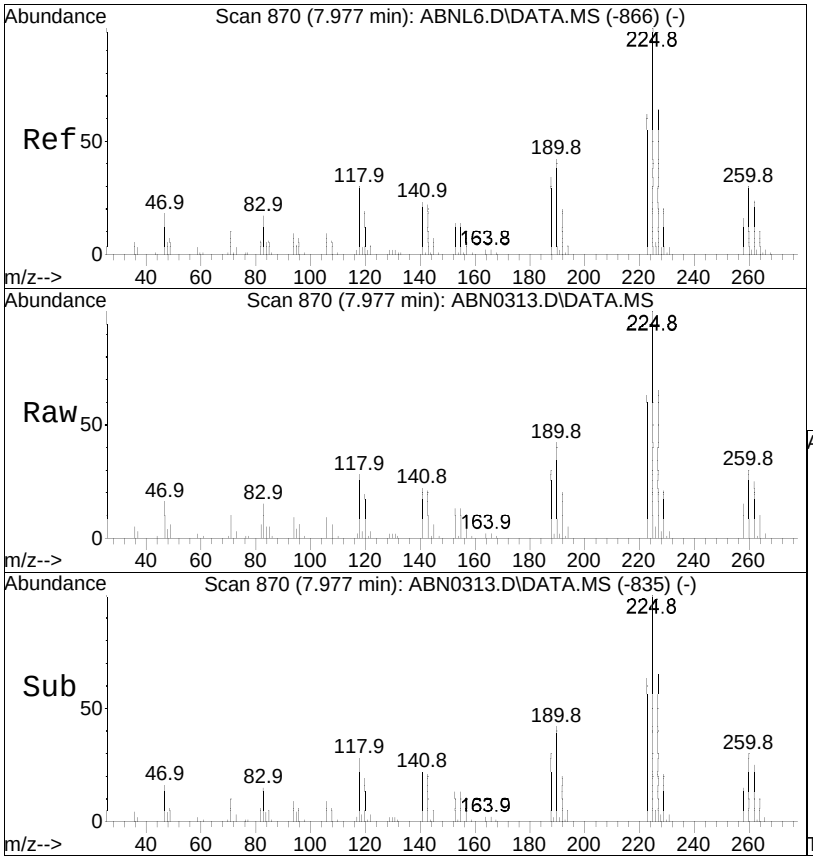


#38
4-Chloroaniline
Concen: 4.87 ug/ml
RT: 7.890 min Scan# 858
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion: 65 Resp: 36928

Ion	Ratio	Lower	Upper
65	100		
127	320.8	237.6	356.4
129	100.8	76.3	114.5

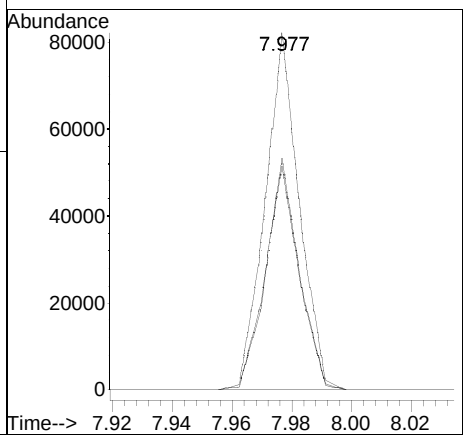


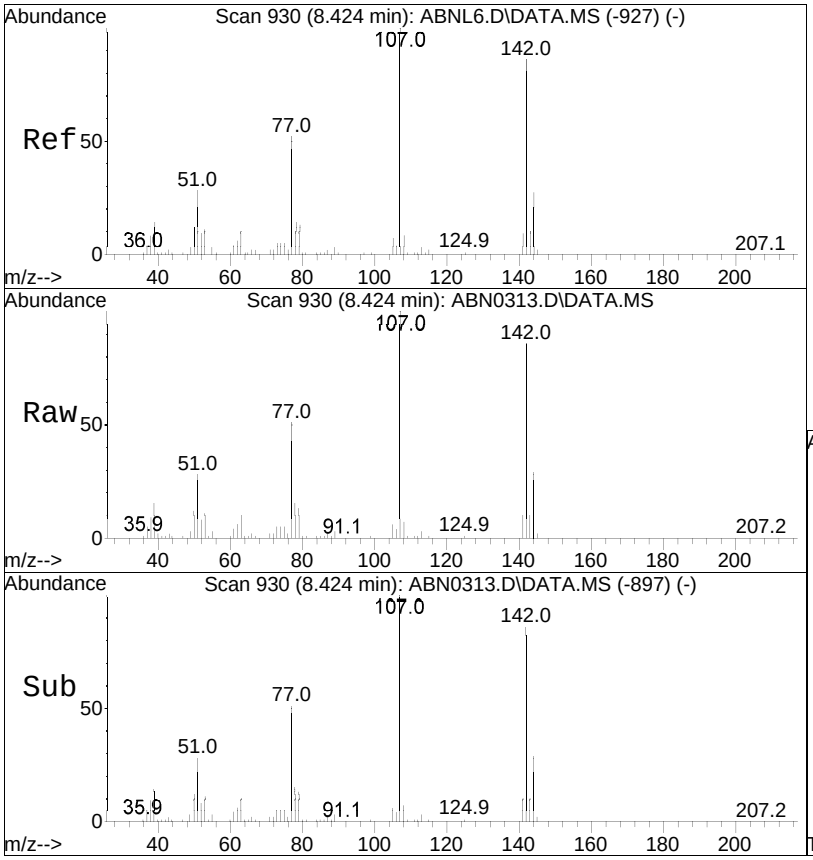


#39
Hexachlorobutadiene
Concen: 4.61 ug/ml
RT: 7.977 min Scan# 870
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:225 Resp: 64816

Ion	Ratio	Lower	Upper
225	100		
223	62.4	50.3	75.5
227	63.3	52.2	78.2

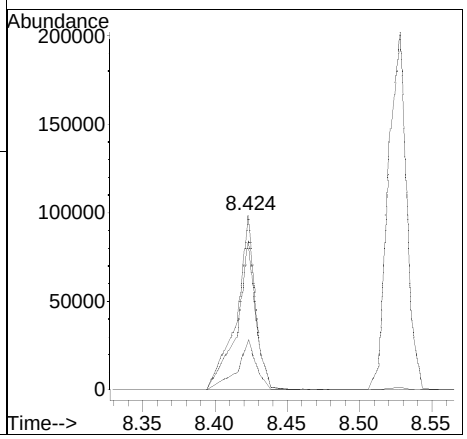


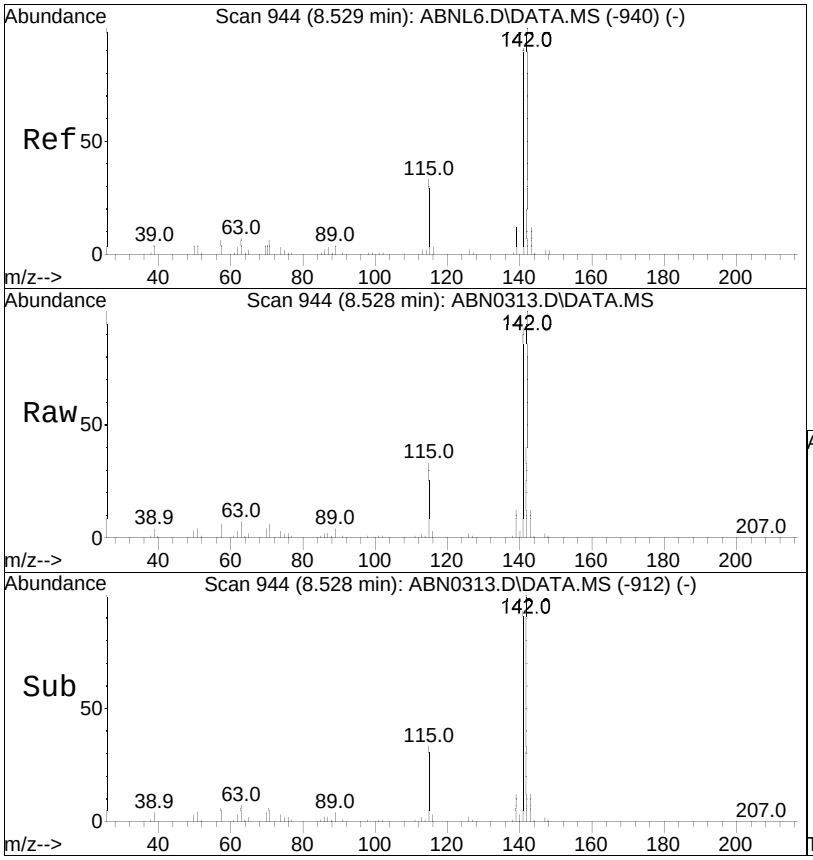


#40
p-Chloro-m-cresol
Concen: 4.50 ug/ml
RT: 8.424 min Scan# 930
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:107 Resp: 84236

Ion	Ratio	Lower	Upper
107	100		
144	30.8	20.9	31.3
142	88.7	66.1	99.1

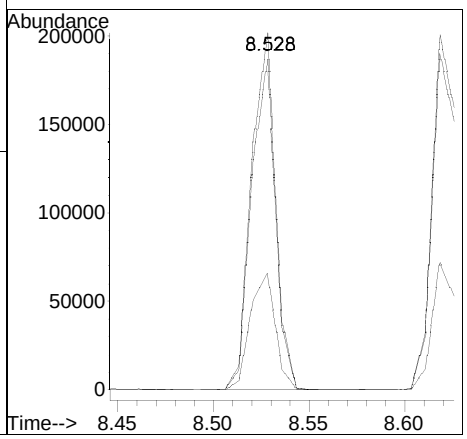


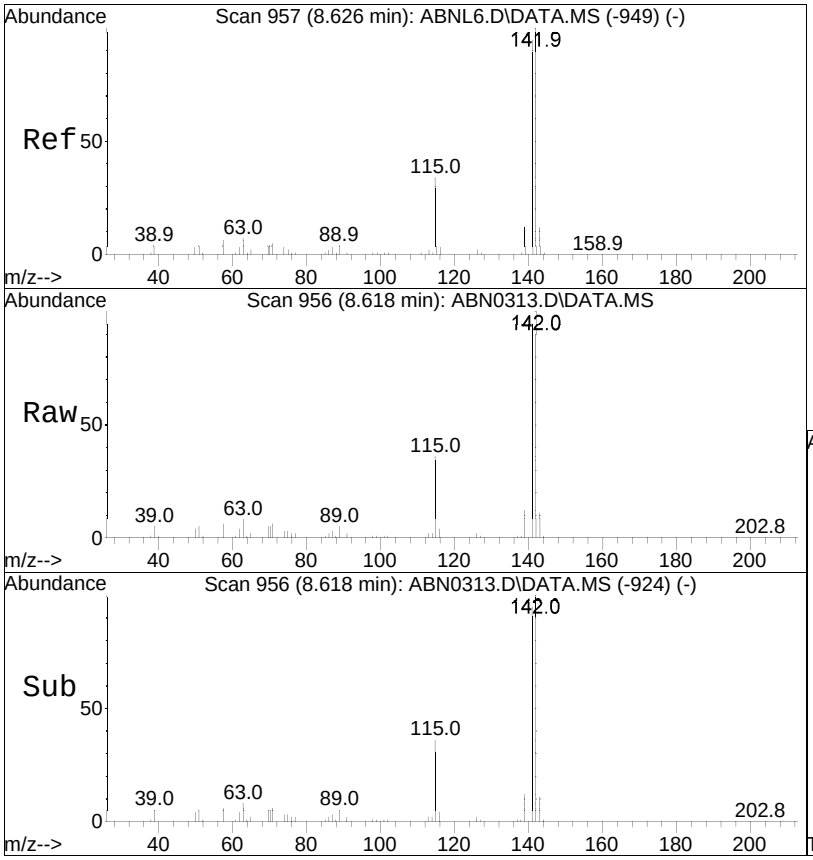


#41
2-Methylnaphthalene
Concen: 4.83 ug/ml
RT: 8.528 min Scan# 944
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:142 Resp: 177561

Ion	Ratio	Lower	Upper
142	100		
141	91.8	69.6	104.4
115	34.0	26.6	40.0

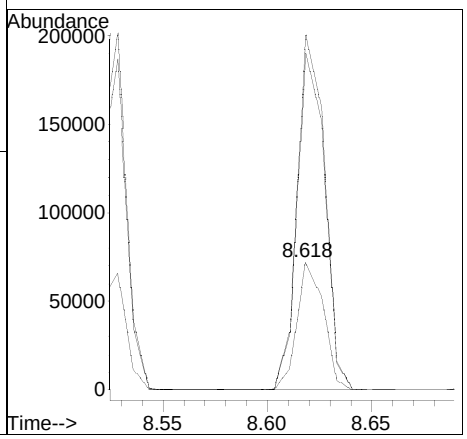


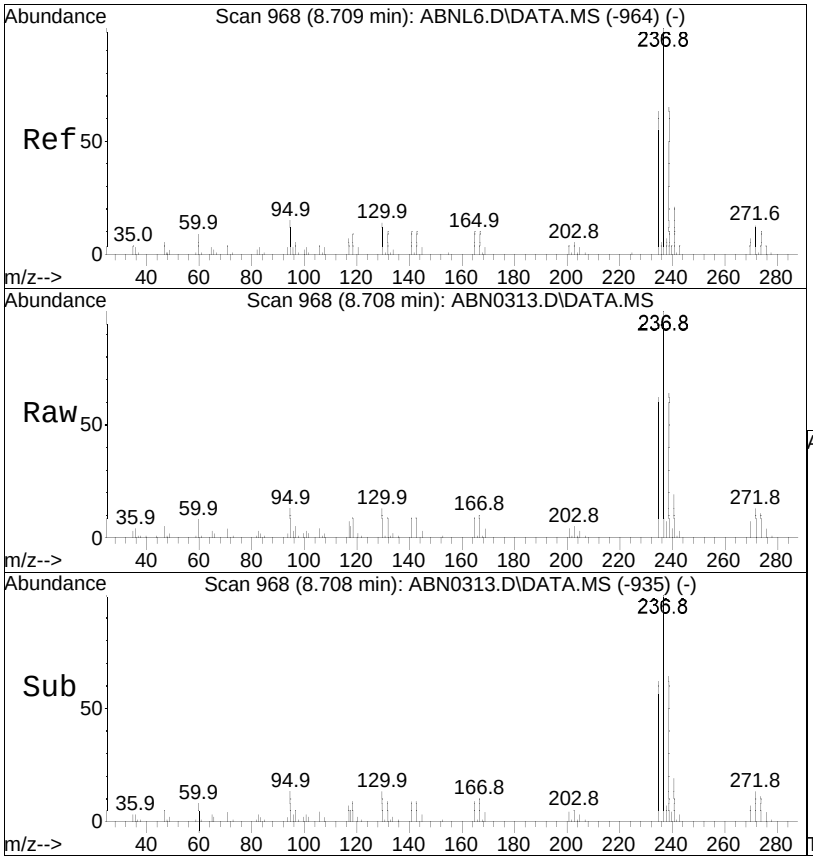


#42
1-Methylnaphthalene
Concen: 4.57 ug/ml
RT: 8.618 min Scan# 956
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:115 Resp: 64536

Ion	Ratio	Lower	Upper
115	100		
141	271.2	207.8	311.6
142	286.1	226.8	340.2

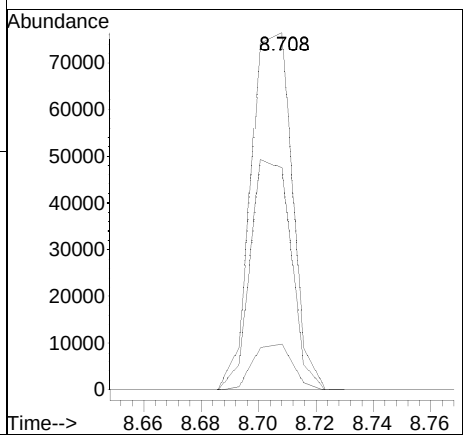


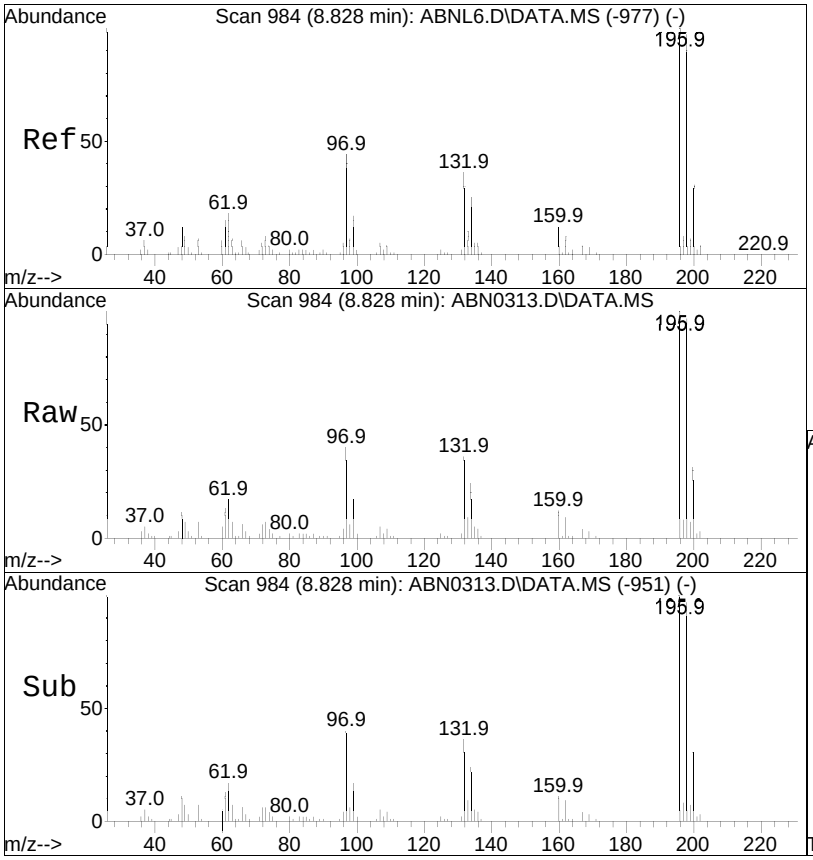


#43
Hexachlorocyclopentadiene
Concen: 4.40 ug/ml
RT: 8.708 min Scan# 968
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:237 Resp: 75997

Ion	Ratio	Lower	Upper
237	100		
235	63.6	49.7	74.5
272	12.5	9.8	14.6

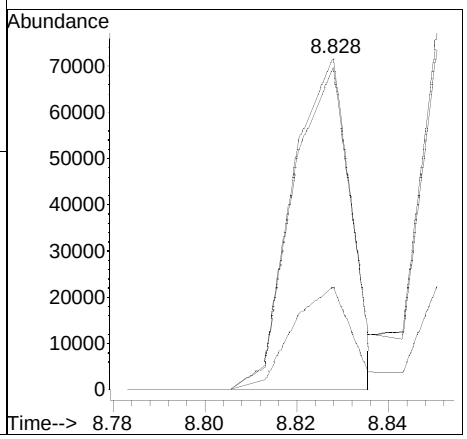


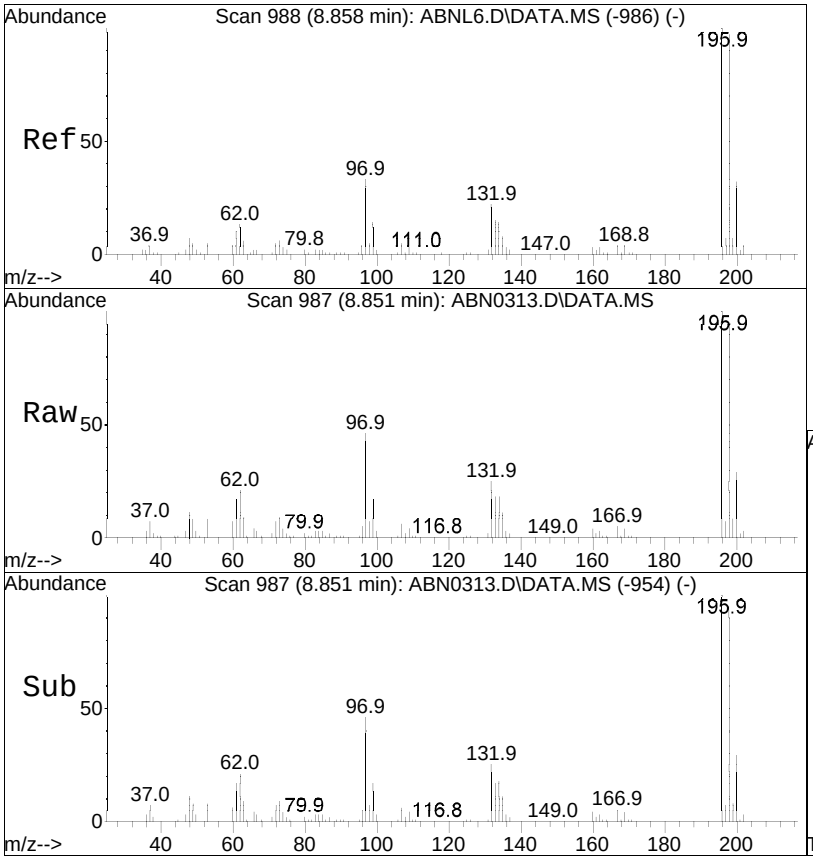


#44
2,4,6-Trichlorophenol
Concen: 4.44 ug/ml
RT: 8.828 min Scan# 984
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:196 Resp: 64298

Ion	Ratio	Lower	Upper
196	100		
198	104.6	77.5	116.3
200	33.7	23.8	35.6

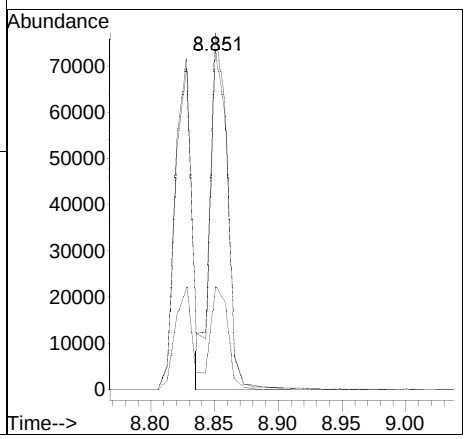


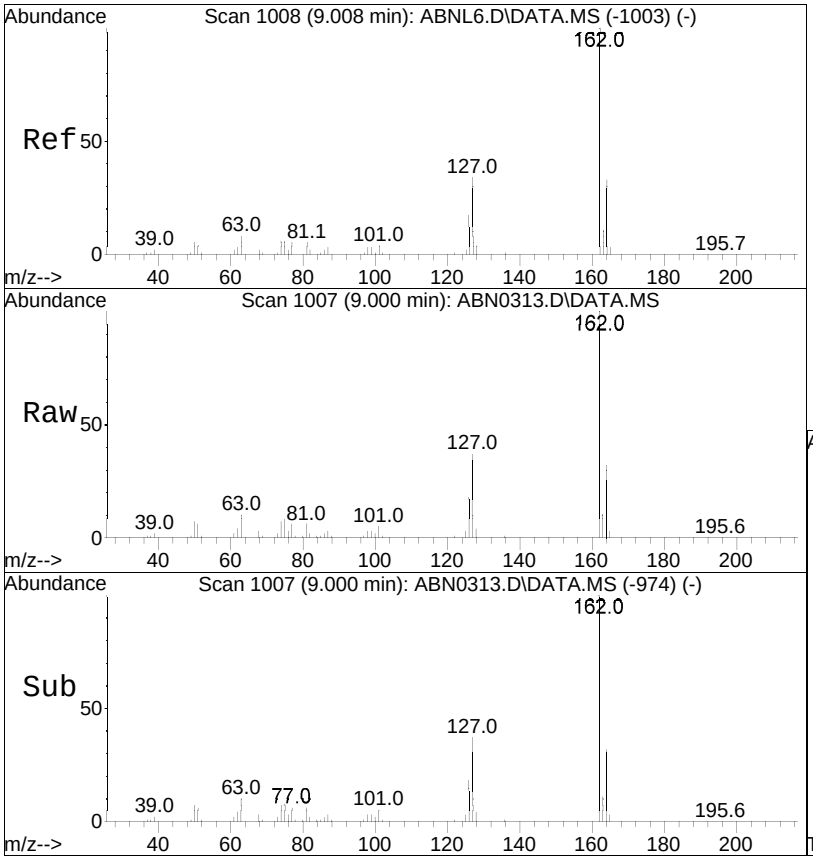


#45
2,4,5-Trichlorophenol
Concen: 5.04 ug/ml
RT: 8.851 min Scan# 987
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:196 Resp: 74038

Ion	Ratio	Lower	Upper
196	100		
200	27.0	25.4	38.0
198	88.7	78.0	117.0

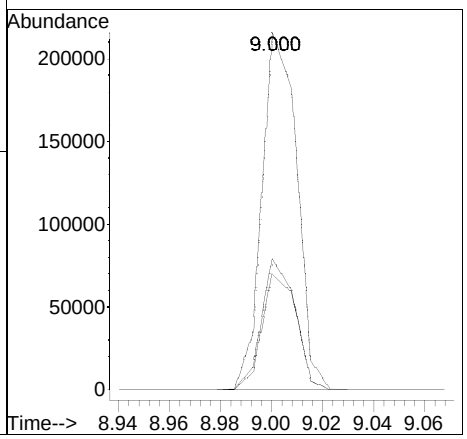


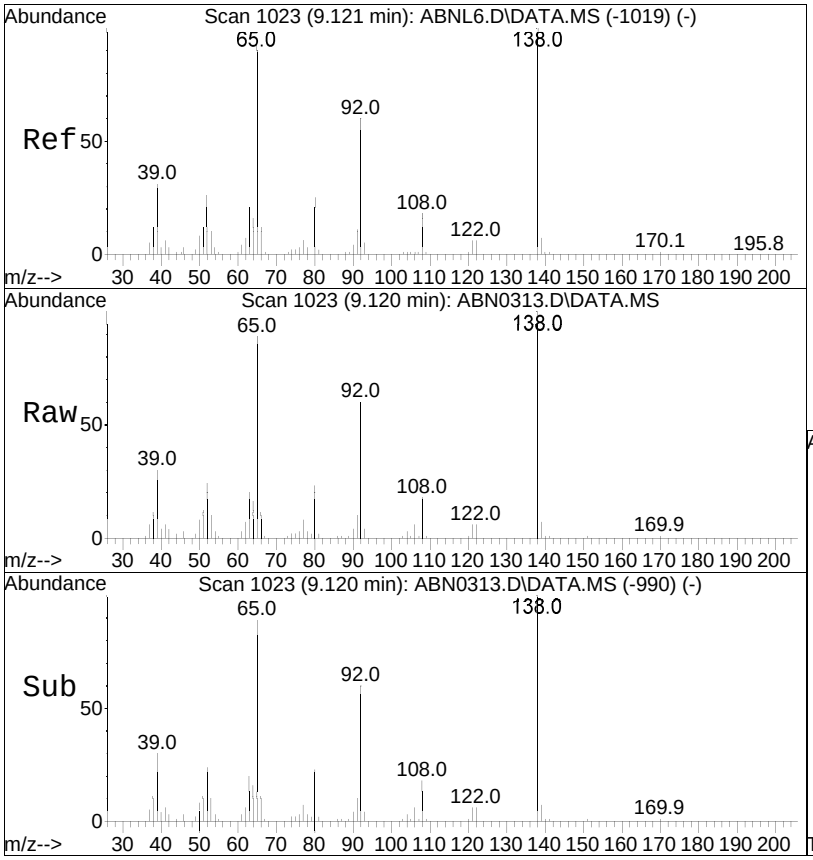


#47
2-Chloronaphthalene
Concen: 4.64 ug/ml
RT: 9.000 min Scan# 1007
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:162 Resp: 202125

Ion	Ratio	Lower	Upper
162	100		
127	35.3	32.2	48.4
164	32.3	25.7	38.5

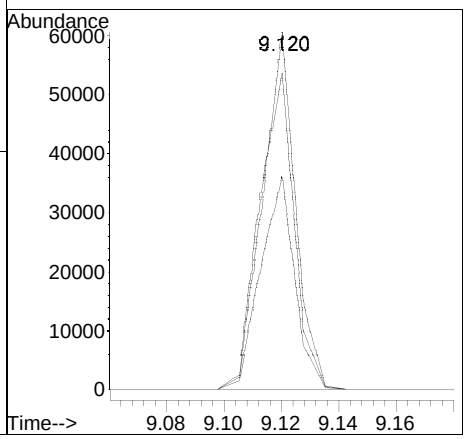


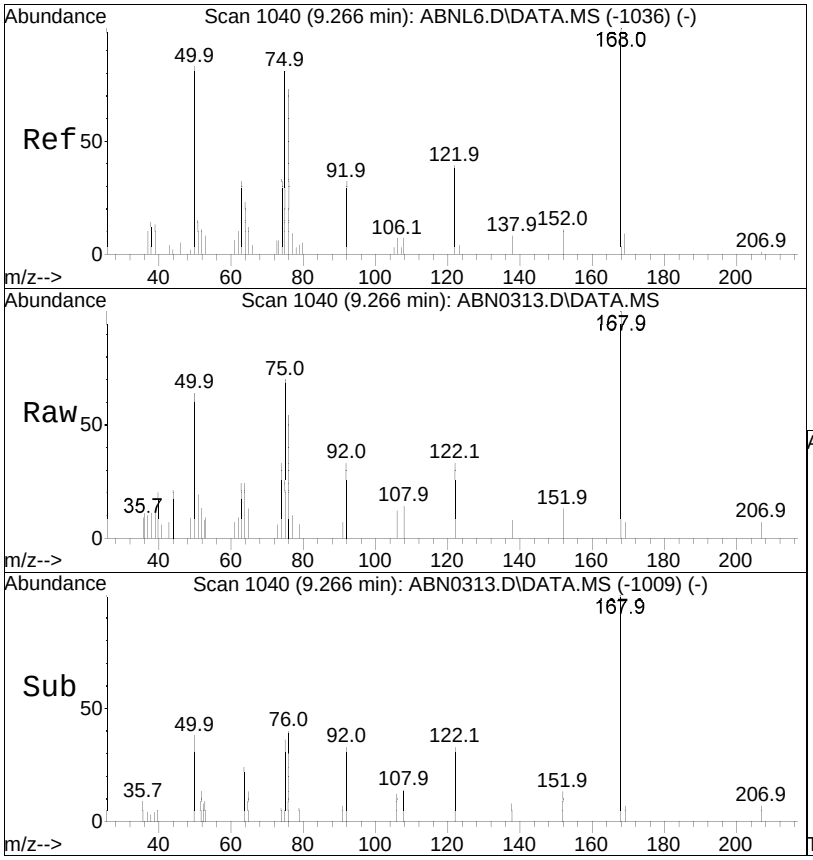


#48
2-Nitroaniline
Concen: 4.99 ug/ml
RT: 9.120 min Scan# 1023
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:138 Resp: 47795

Ion	Ratio	Lower	Upper
138	100		
92	61.9	53.5	80.3
65	93.4	86.3	129.5

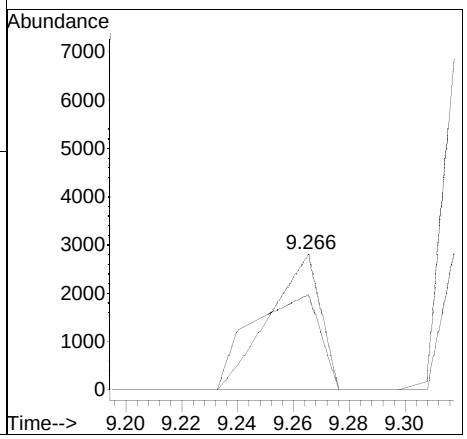


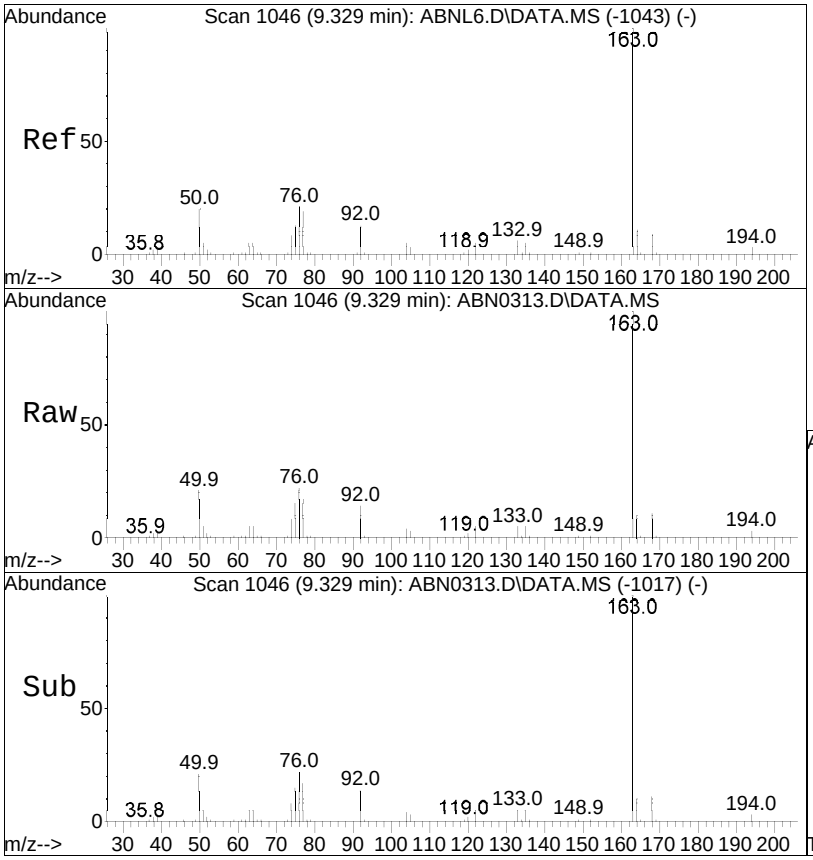


#49
1,4-Dinitrobenzene
Concen: 3.26 ug/ml M3
RT: 9.266 min Scan# 1040
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:168 Resp: 2450

Ion	Ratio	Lower	Upper
168	100		
75	1497.1	121.8	182.8#

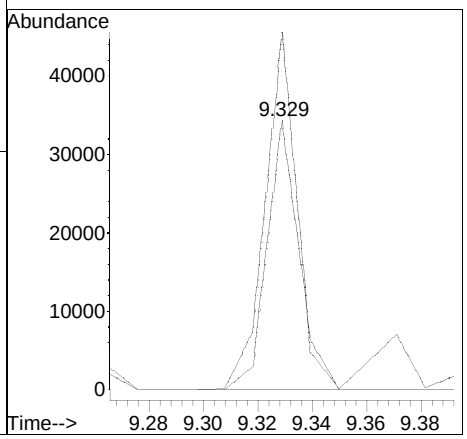


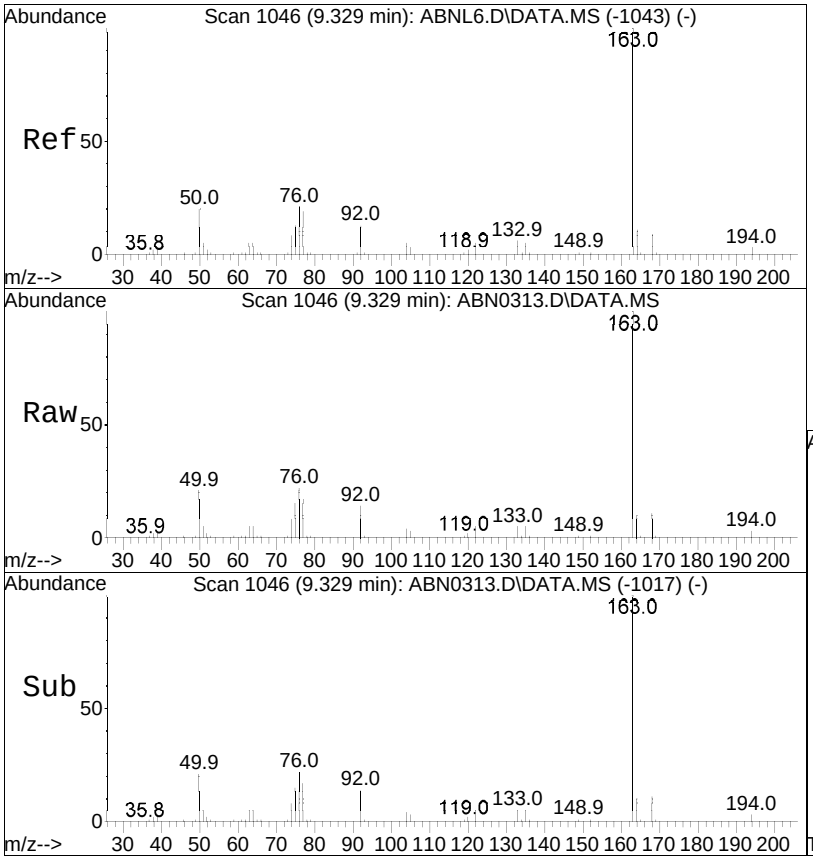


#50
1,3-Dinitrobenzene
Concen: 4.61 ug/ml
RT: 9.329 min Scan# 1046
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:168 Resp: 27687

Ion	Ratio	Lower	Upper
168	100		
75	132.5	22.7	34.1#

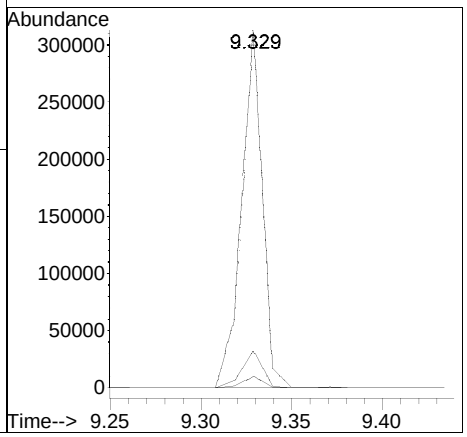


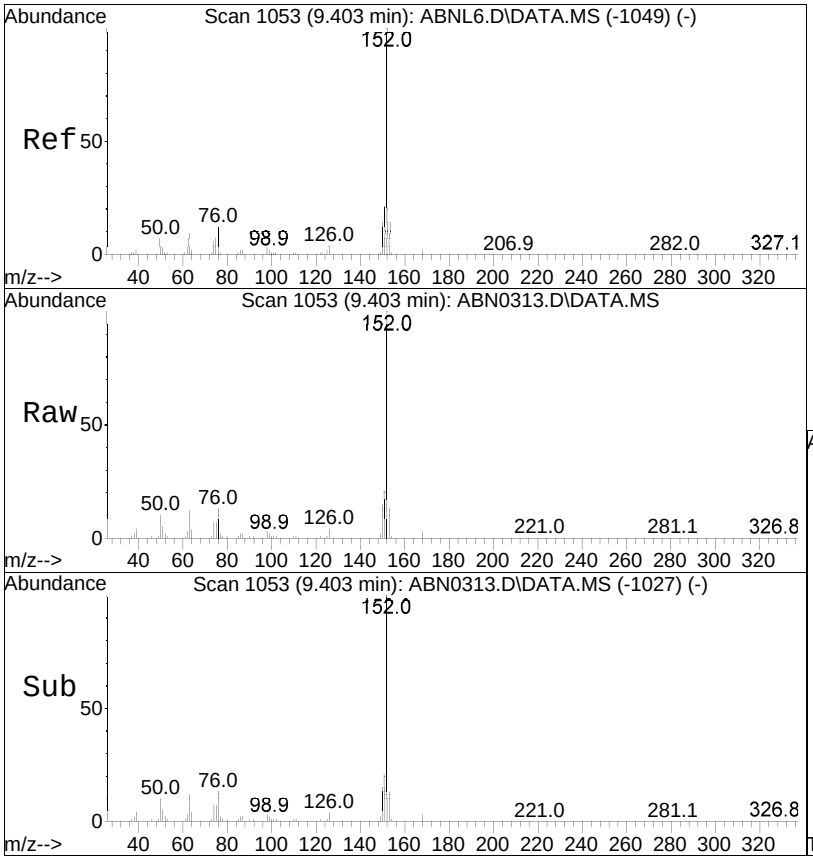


#51
Dimethyl phthalate
Concen: 4.68 ug/ml
RT: 9.329 min Scan# 1046
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:163 Resp: 244821

Ion	Ratio	Lower	Upper
163	100		
194	3.3	3.5	5.3#
164	10.5	7.9	11.9

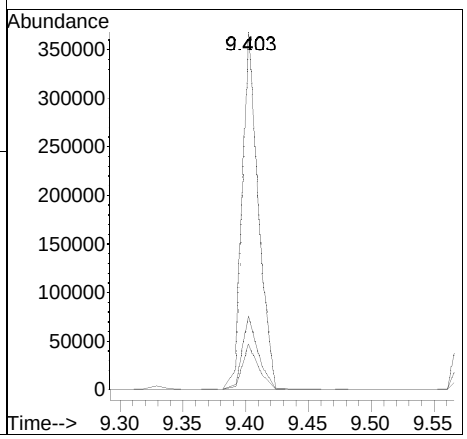


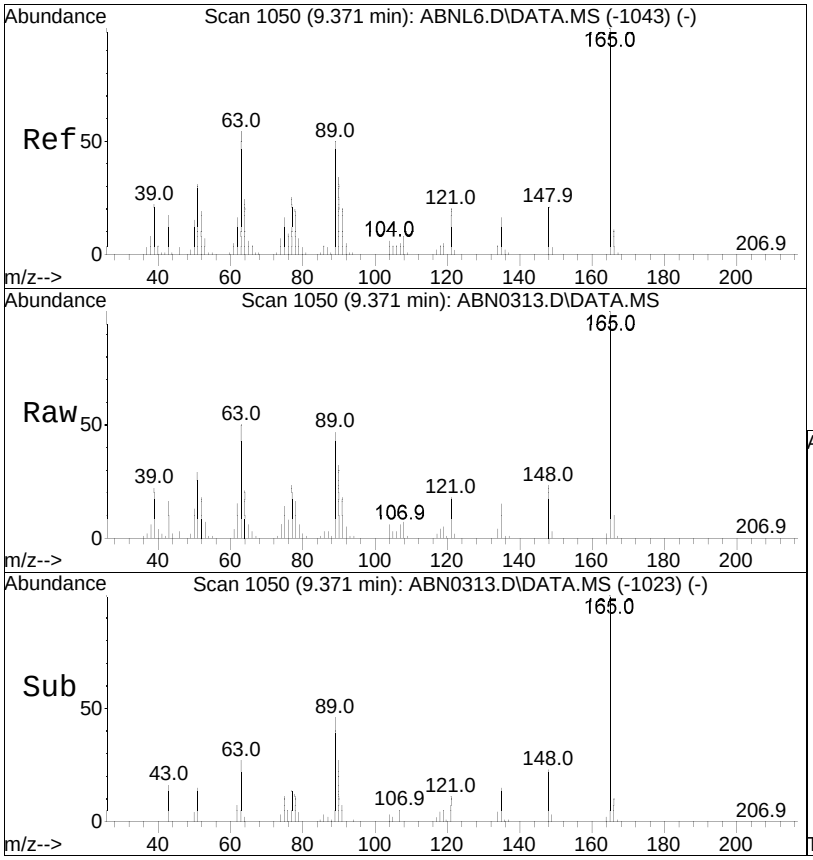


#52
Acenaphthylene
Concen: 4.65 ug/ml
RT: 9.403 min Scan# 1053
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:152 Resp: 322215

Ion	Ratio	Lower	Upper
152	100		
151	20.7	15.8	23.6
153	12.8	10.5	15.7

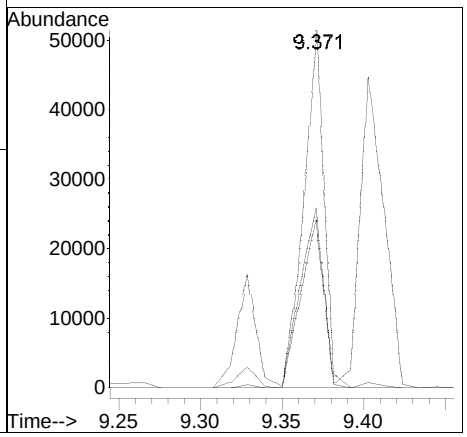


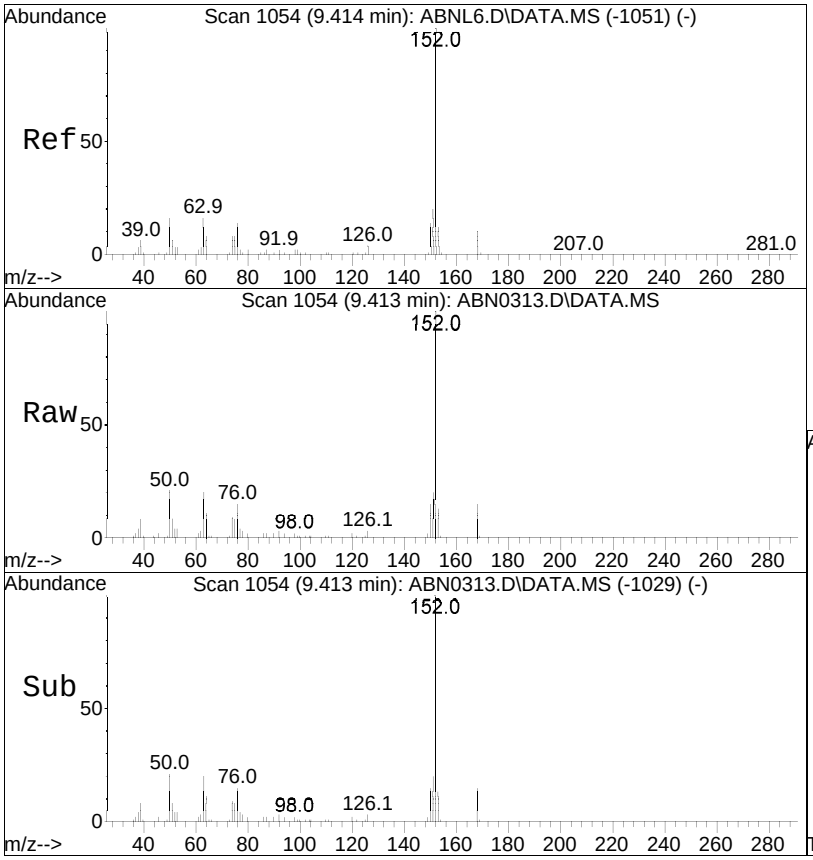


#53
2,6-Dinitrotoluene
Concen: 5.42 ug/ml
RT: 9.371 min Scan# 1050
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:165 Resp: 47130

Ion	Ratio	Lower	Upper
165	100		
89	50.1	54.2	81.2#
63	54.1	64.2	96.2#

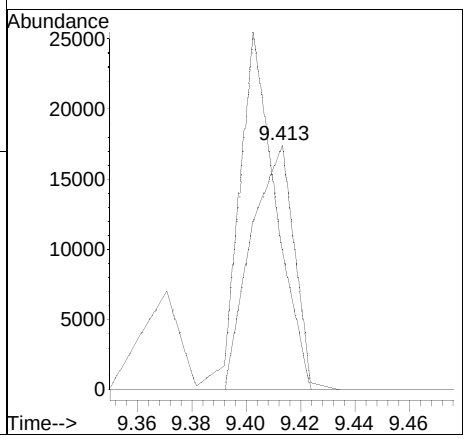


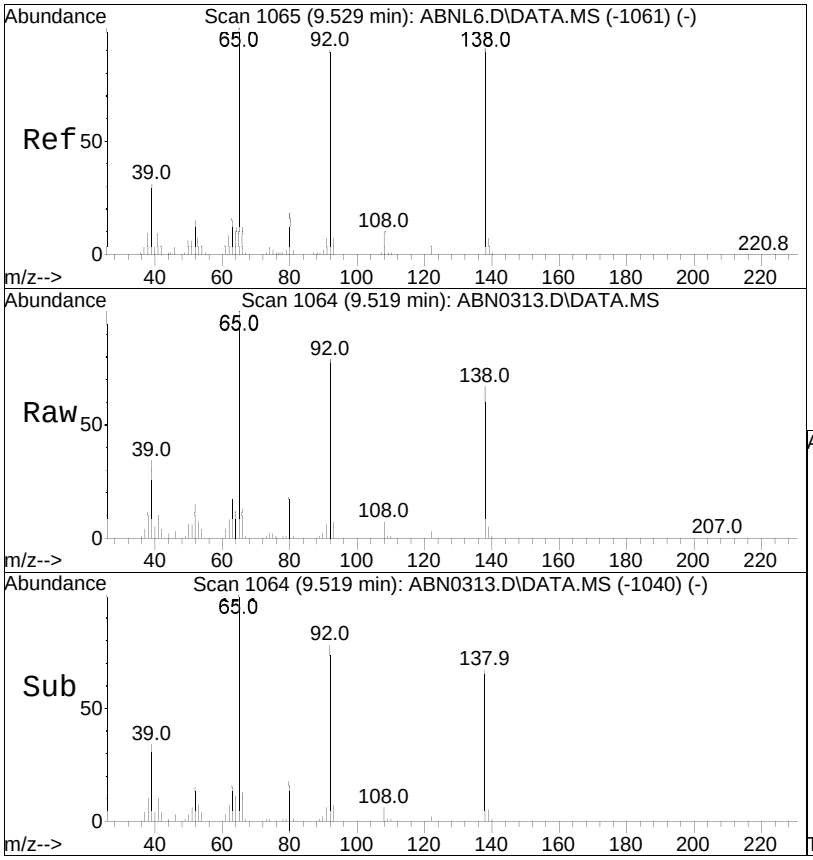


#54
1,2-Dinitrobenzene
Concen: 5.20 ug/ml
RT: 9.413 min Scan# 1054
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:168 Resp: 18903

Ion	Ratio	Lower	Upper
168	100		
75	160.8	30.9	46.3#

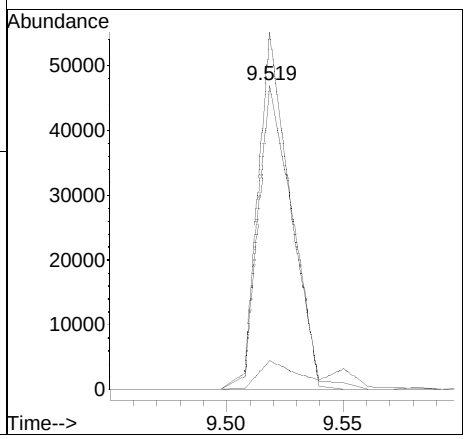


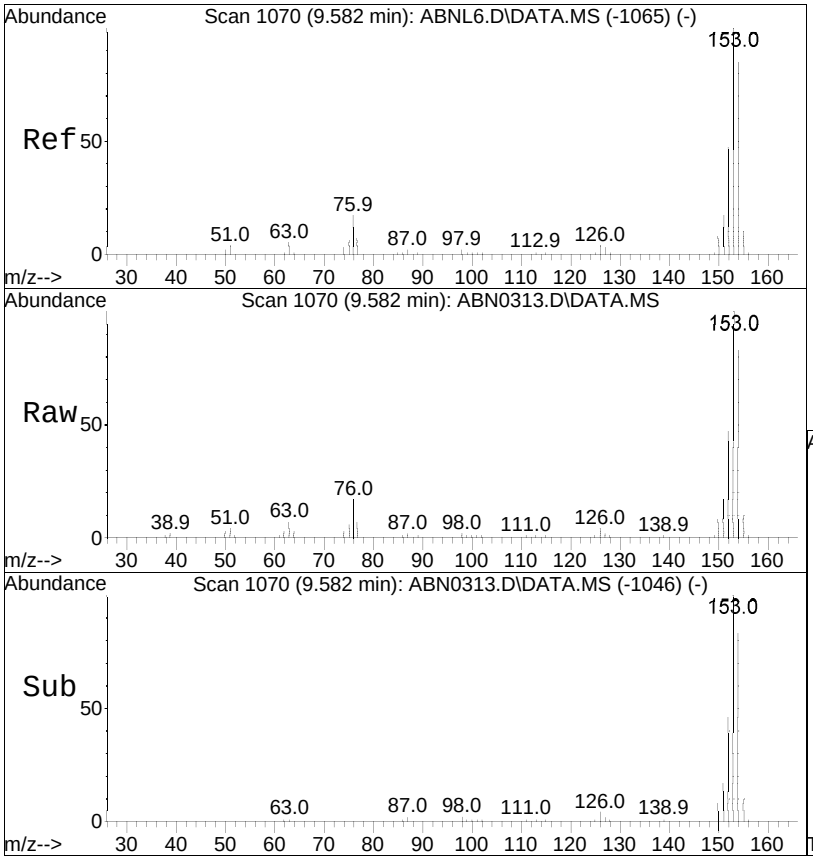


#64
3-Nitroaniline
Concen: 5.34 ug/ml
RT: 9.519 min Scan# 1064
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:138 Resp: 47348

Ion	Ratio	Lower	Upper
138	100		
92	111.5	93.4	140.2
108	17.1	9.5	14.3#

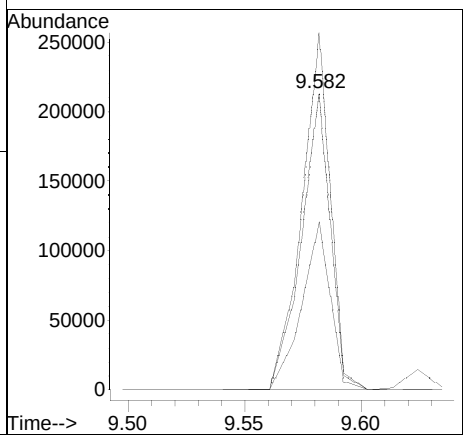


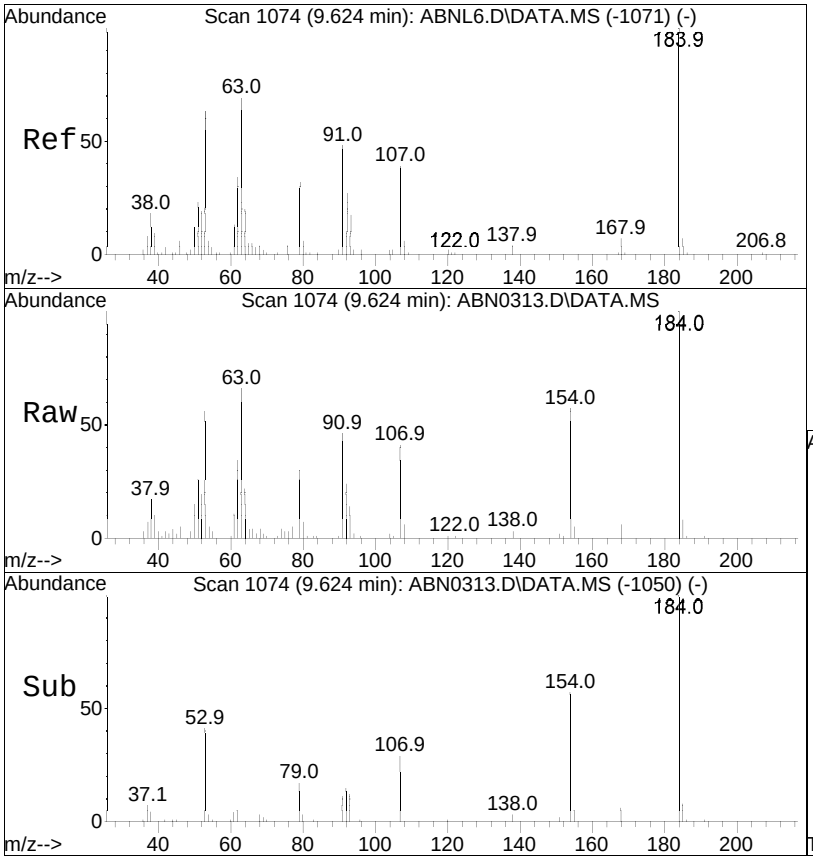


#65
Acenaphthene
Concen: 4.74 ug/ml
RT: 9.582 min Scan# 1070
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:154 Resp: 183629

Ion	Ratio	Lower	Upper
154	100		
153	118.5	85.3	127.9
152	56.1	41.4	62.0

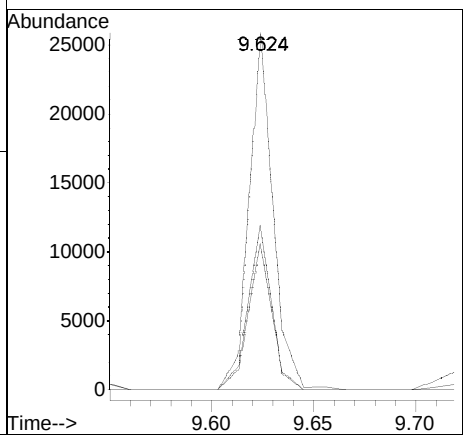


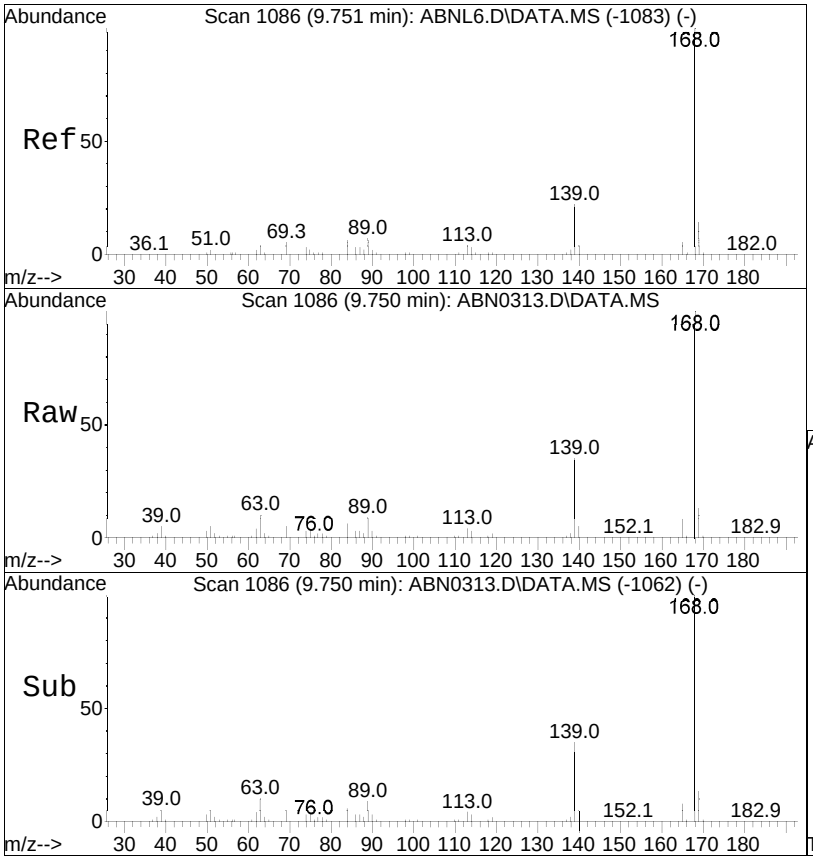


#66
2,4-Dinitrophenol
Concen: 4.58 ug/ml
RT: 9.624 min Scan# 1074
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:184 Resp: 20875

Ion	Ratio	Lower	Upper
184	100		
107	40.7	37.7	56.5
91	45.0	46.3	69.5#

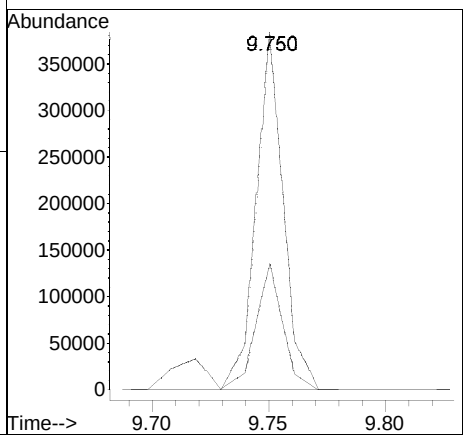


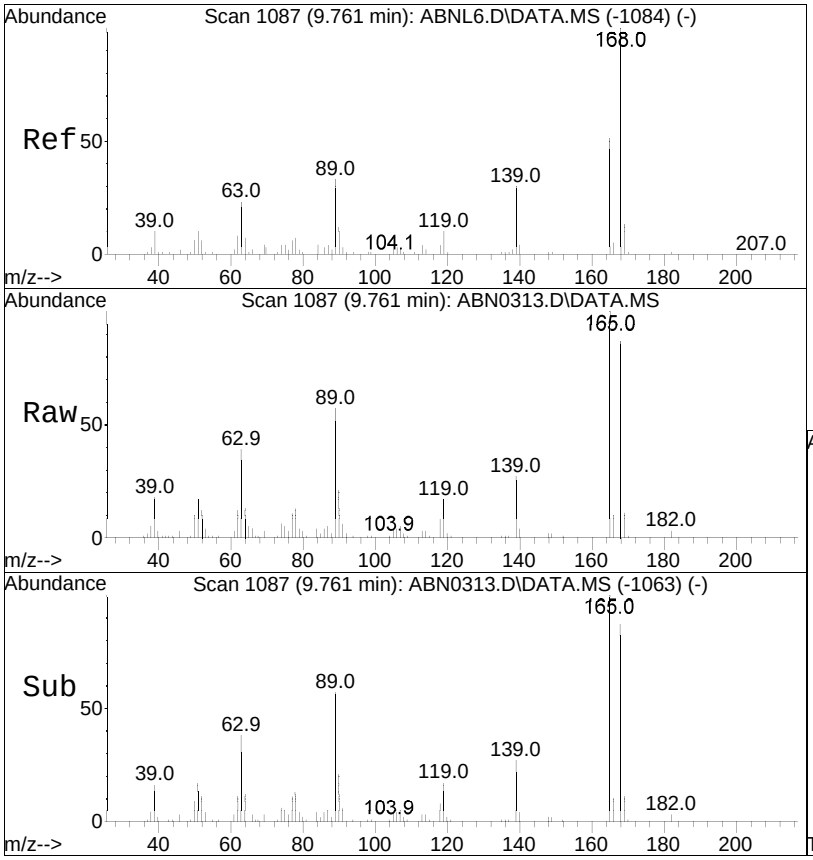


#67
Dibenzofuran
Concen: 4.54 ug/ml
RT: 9.750 min Scan# 1086
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:168 Resp: 305446

Ion	Ratio	Lower	Upper
168	100		
139	47.1	31.4	47.2

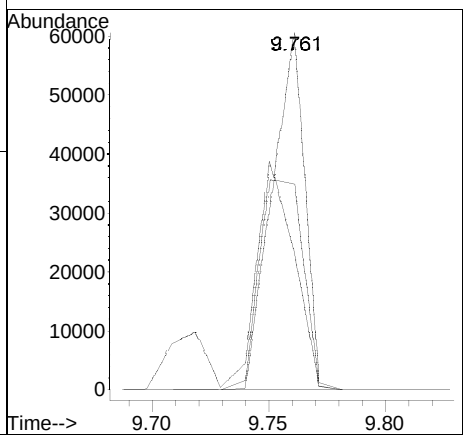


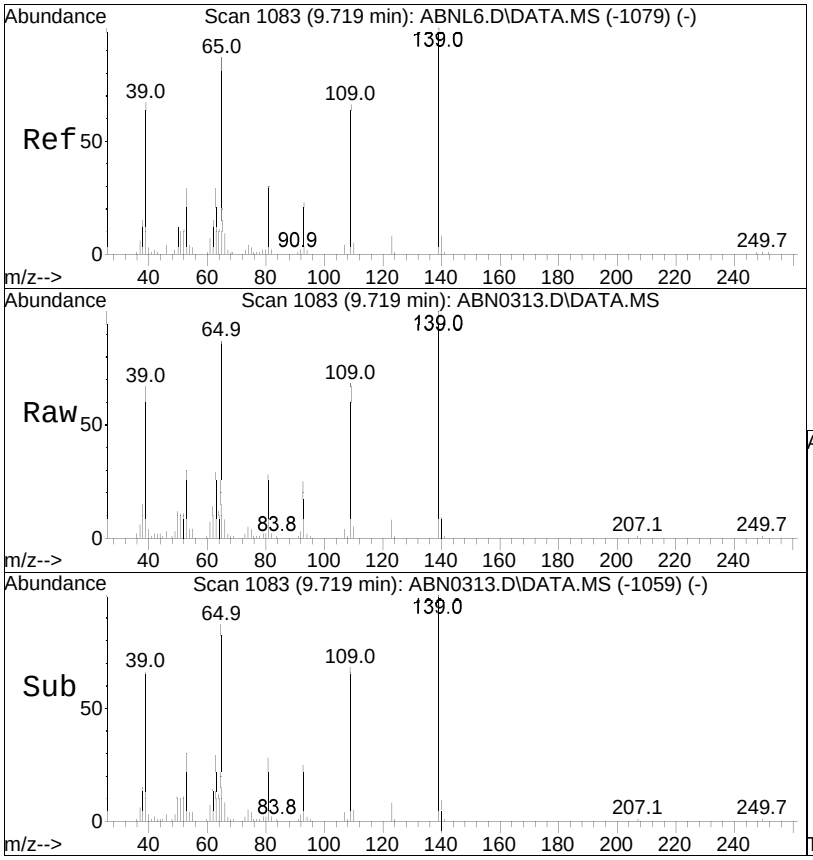


#68
2,4-Dinitrotoluene
Concen: 4.81 ug/ml
RT: 9.761 min Scan# 1087
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:165 Resp: 58736

Ion	Ratio	Lower	Upper
165	100		
89	78.5	72.0	108.0
63	92.4	52.7	79.1#

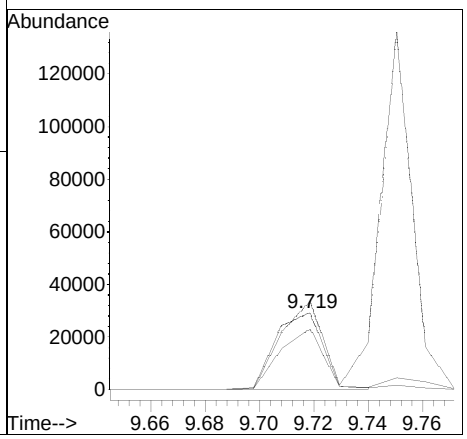


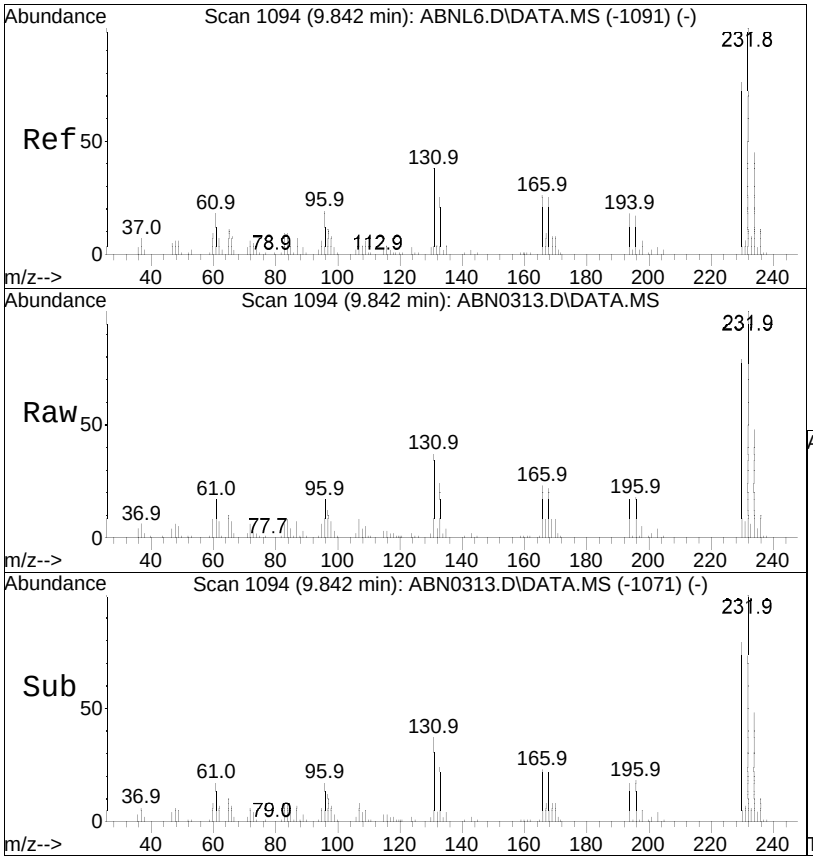


#69
4-Nitrophenol
Concen: 5.24 ug/ml
RT: 9.719 min Scan# 1083
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion: 65 Resp: 35437

Ion	Ratio	Lower	Upper
65	100		
109	72.5	47.4	71.2#
139	0.0	76.6	115.0#

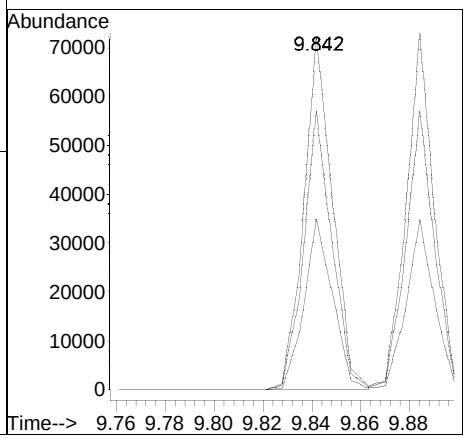


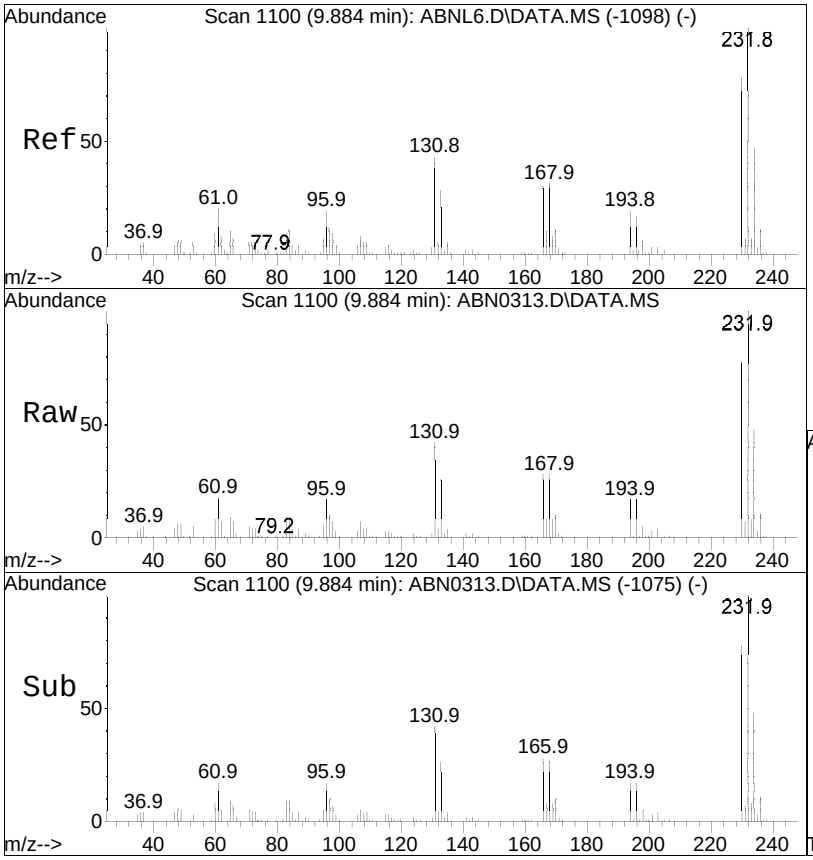


#70
2,3,5,6-Tetrachlorophenol
Concen: 6.57 ug/ml
RT: 9.842 min Scan# 1094
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:232 Resp: 84324

Ion	Ratio	Lower	Upper
232	100		
230	77.7	64.2	96.4
234	48.1	38.1	57.1

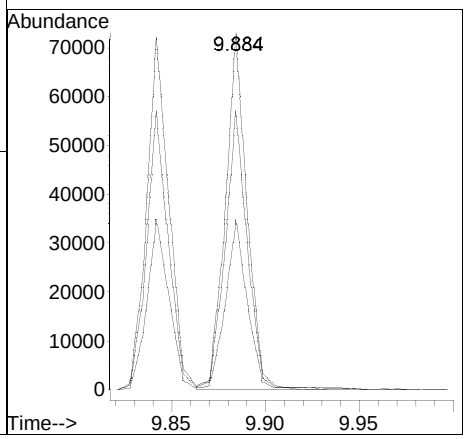


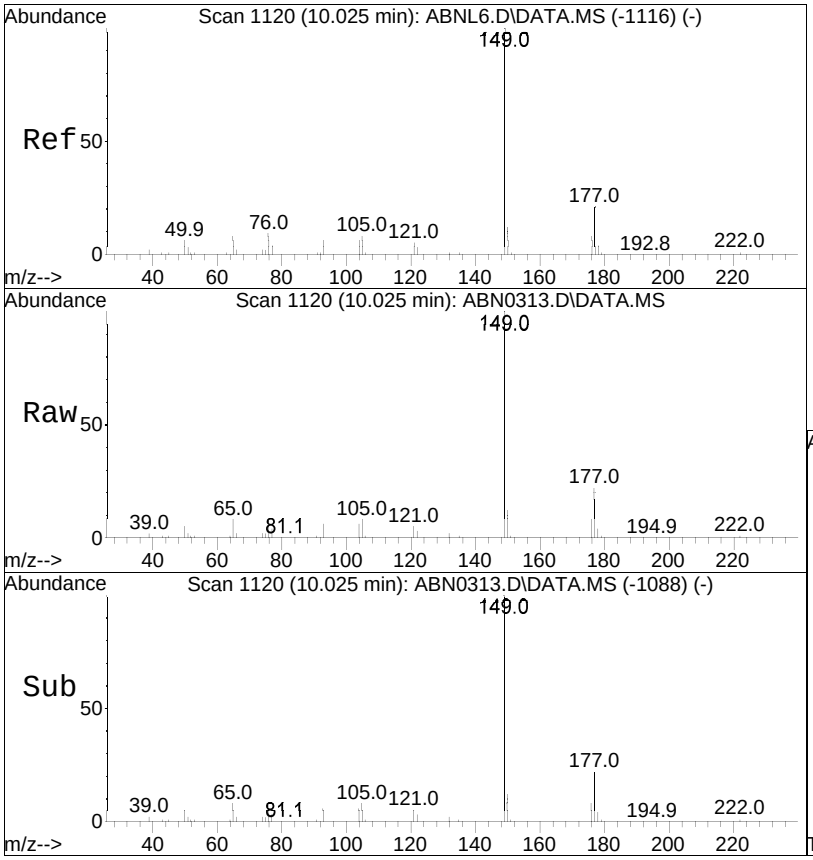


#71
2,3,4,6-Tetrachlorophenol
Concen: 4.90 ug/ml
RT: 9.884 min Scan# 1100
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:232 Resp: 59231

Ion	Ratio	Lower	Upper
232	100		
230	80.3	61.8	92.8
234	47.9	36.2	54.2

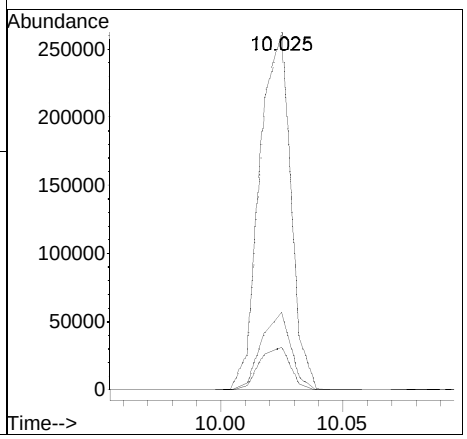


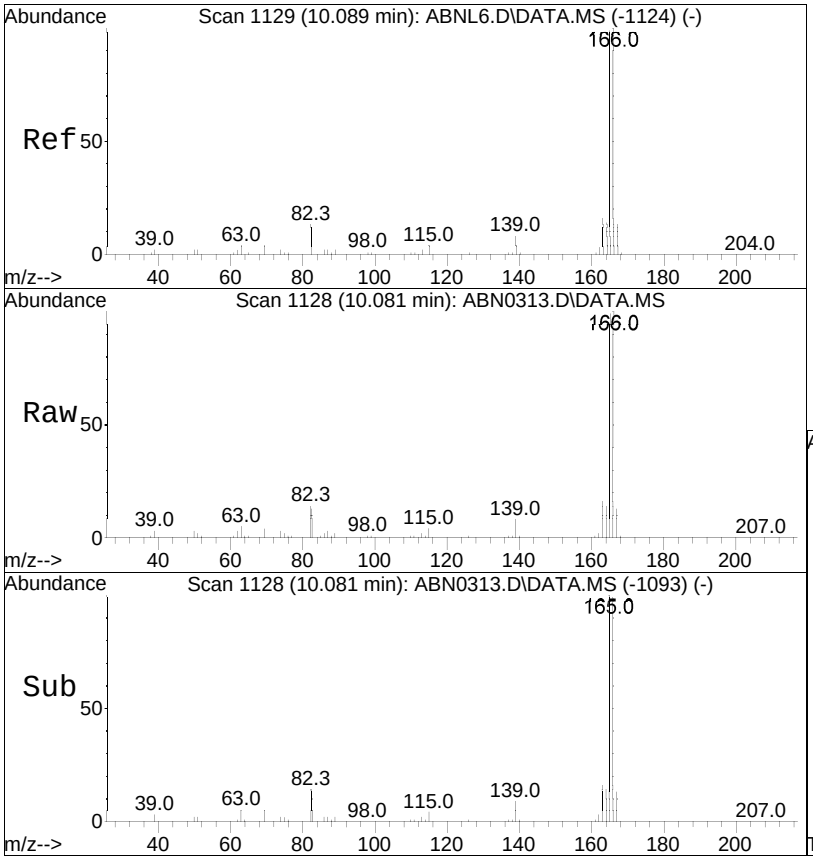


#72
Diethyl phthalate
Concen: 4.81 ug/ml
RT: 10.025 min Scan# 1120
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:149 Resp: 229757

Ion	Ratio	Lower	Upper
149	100		
177	20.7	16.1	24.1
150	12.1	9.4	14.2

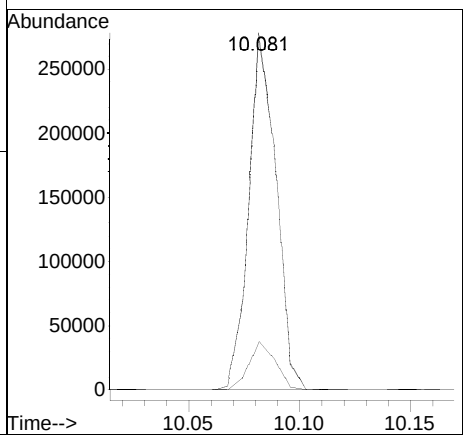


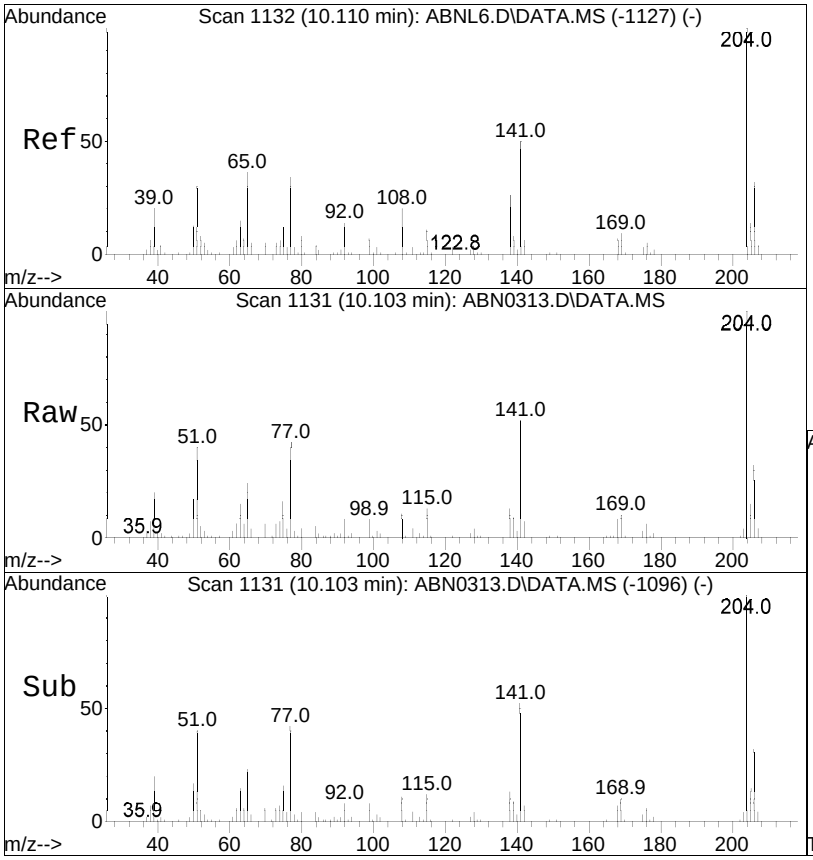


#73
Fluorene
Concen: 4.81 ug/ml
RT: 10.081 min Scan# 1128
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:166 Resp: 238667

Ion	Ratio	Lower	Upper
166	100		
165	99.0	76.2	114.2
167	13.4	10.6	15.8

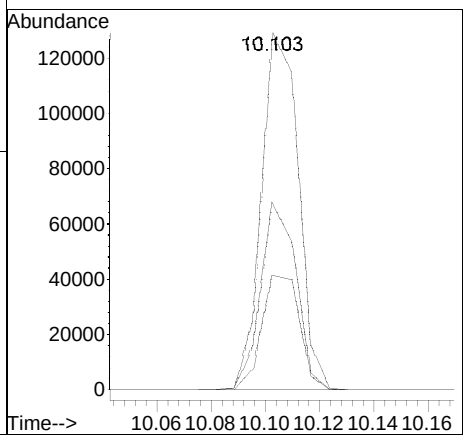


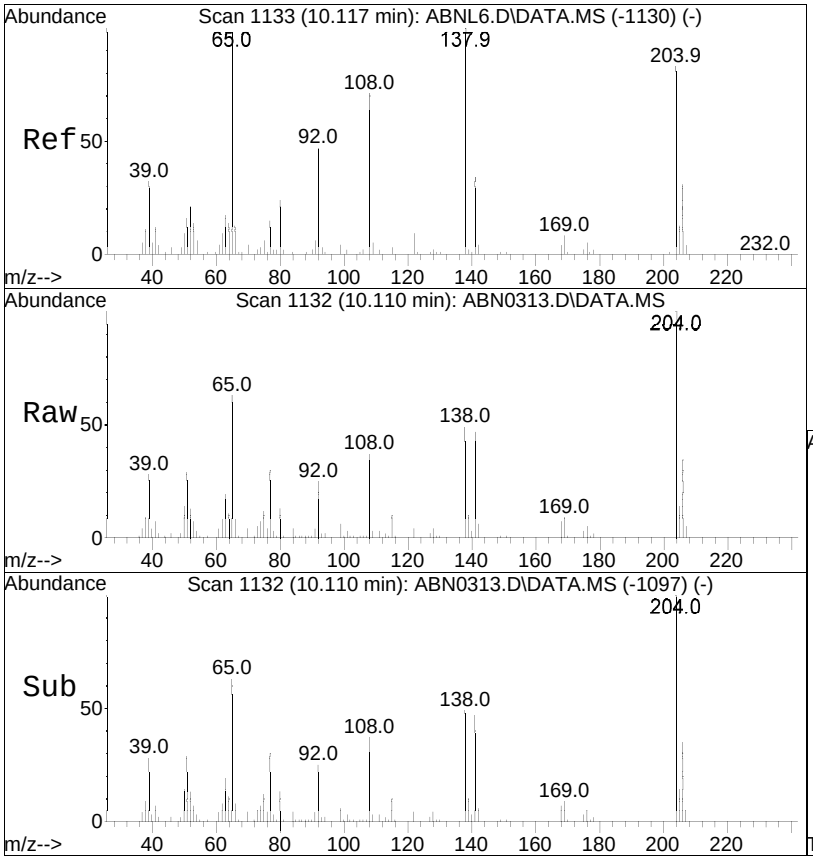


#74
4-Chlorophenyl phenyl ether
Concen: 4.67 ug/ml
RT: 10.103 min Scan# 1131
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:204 Resp: 121141

Ion	Ratio	Lower	Upper
204	100		
206	33.1	25.8	38.6
141	50.6	53.6	80.4#

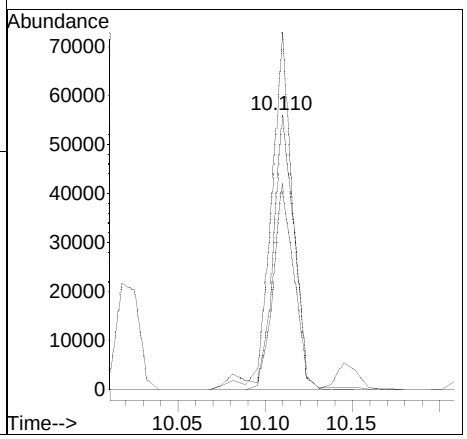


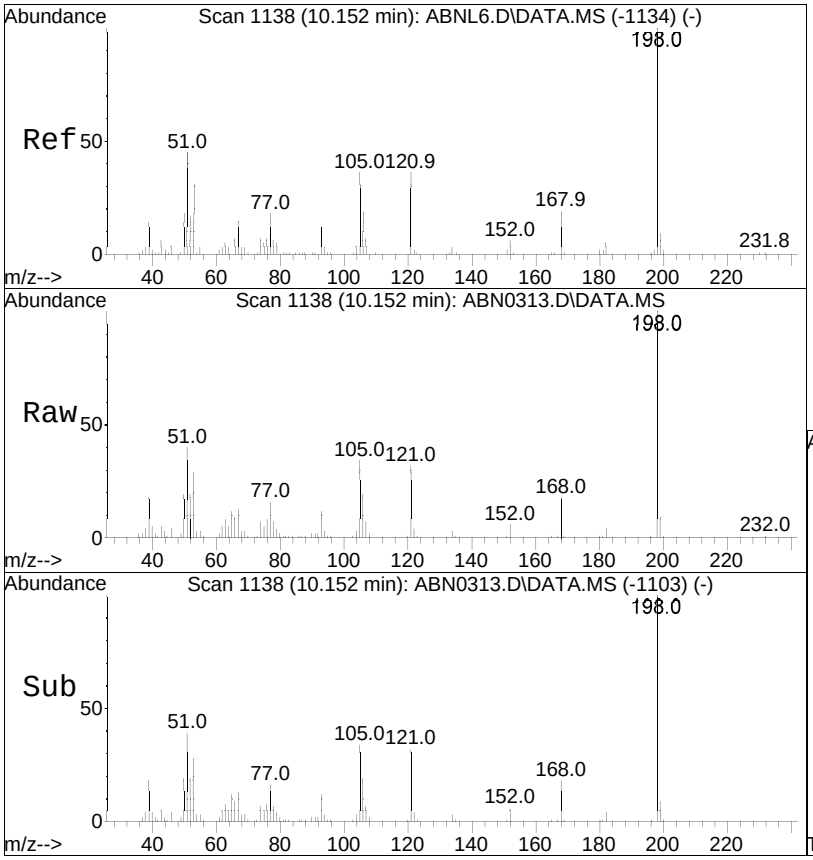


#75
4-Nitroaniline
Concen: 5.68 ug/ml
RT: 10.110 min Scan# 1132
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:138 Resp: 48996

Ion	Ratio	Lower	Upper
138	100		
108	73.5	52.1	78.1
65	126.0	115.0	172.6

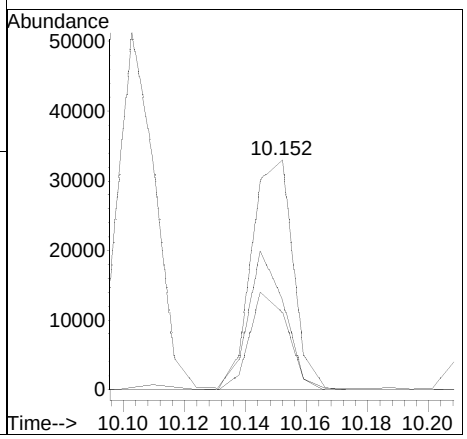


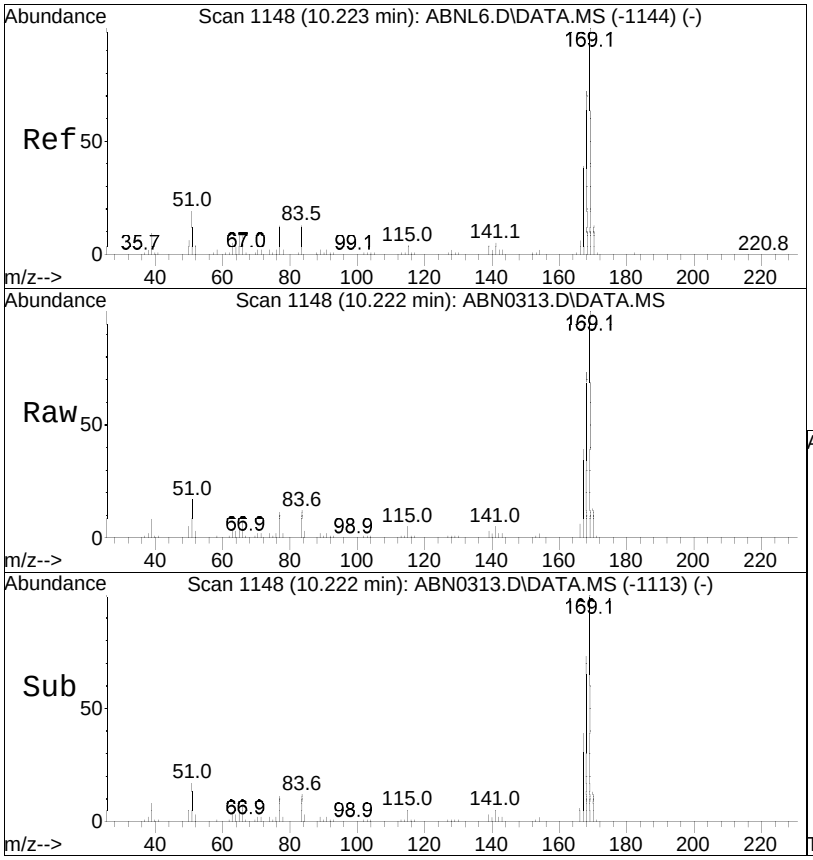


#76
4,6-Dinitro-o-cresol
Concen: 4.31 ug/ml
RT: 10.152 min Scan# 1138
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:198 Resp: 31159

Ion	Ratio	Lower	Upper
198	100		
51	54.0	76.0	114.0#
105	39.2	45.6	68.4#

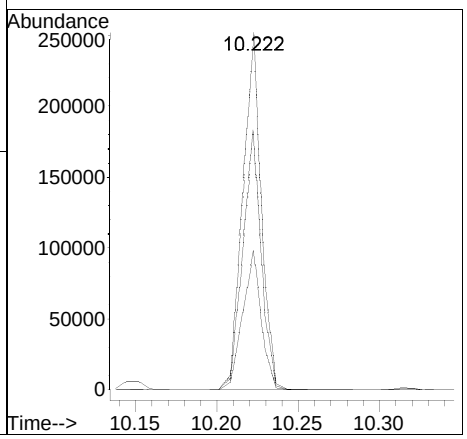


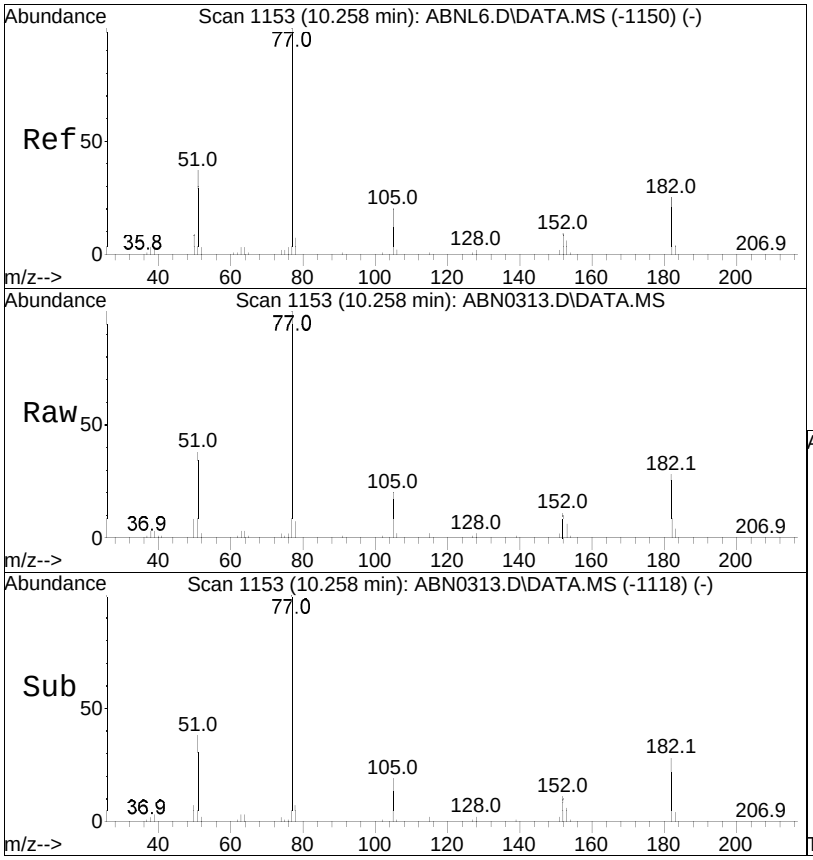


#77
NDPA/DPA
Concen: 4.80 ug/ml
RT: 10.222 min Scan# 1148
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:169 Resp: 198273

Ion	Ratio	Lower	Upper
169	100		
168	72.4	54.0	81.0
167	39.4	28.6	42.8

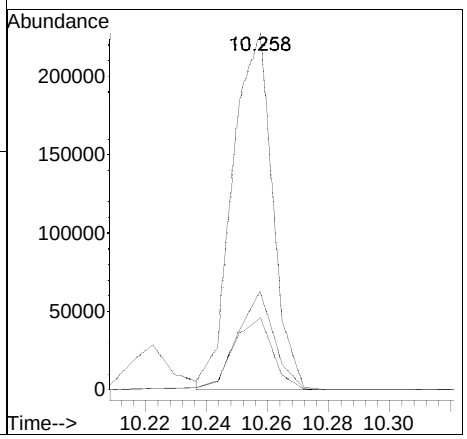


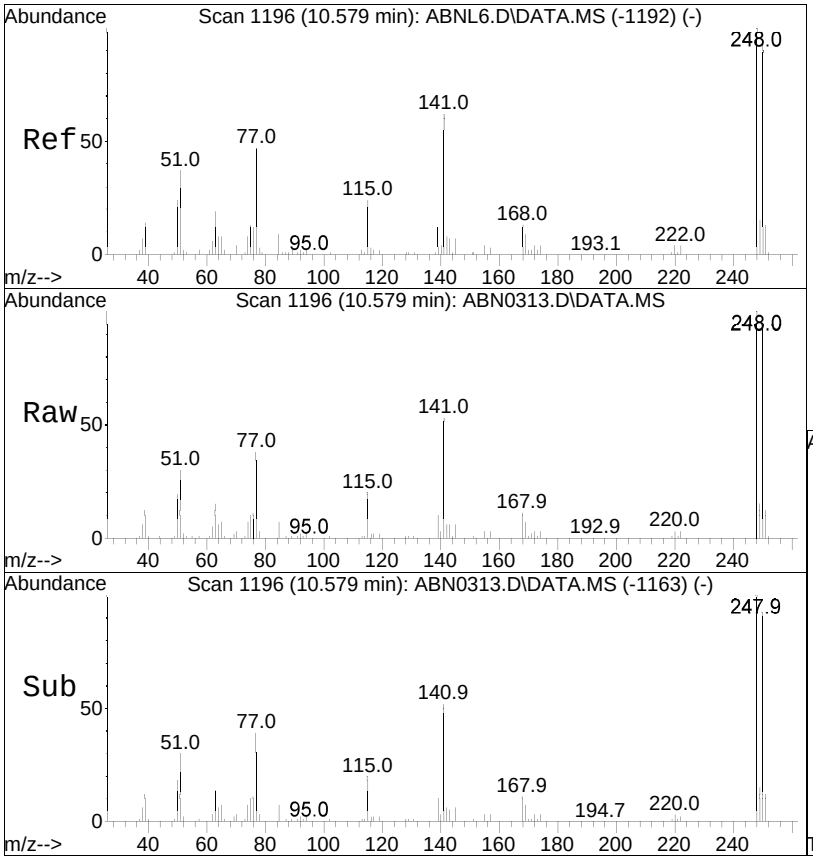


#78
Azobenzene
Concen: 5.20 ug/ml
RT: 10.258 min Scan# 1153
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion: 77 Resp: 204785

Ion	Ratio	Lower	Upper
77	100		
182	26.1	17.4	26.2
105	20.7	15.4	23.2

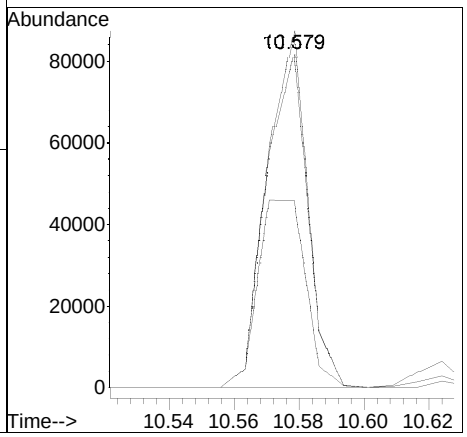


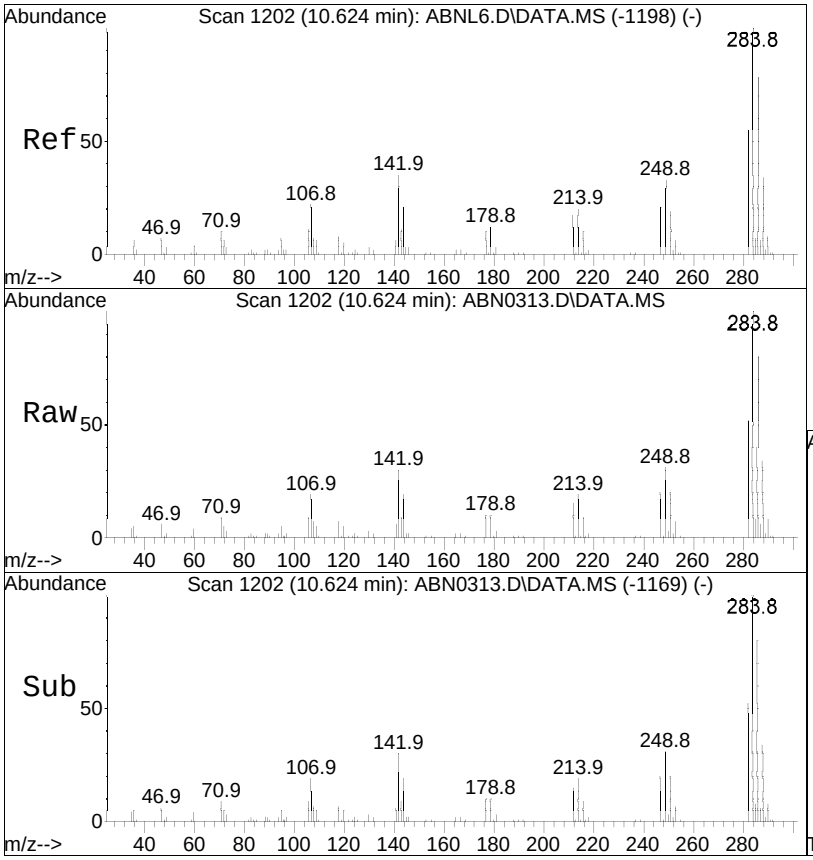


#80
4-Bromophenyl phenyl ether
Concen: 4.62 ug/ml
RT: 10.579 min Scan# 1196
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:248 Resp: 75165

Ion	Ratio	Lower	Upper
248	100		
141	61.9	76.6	114.8#
250	96.0	77.3	115.9

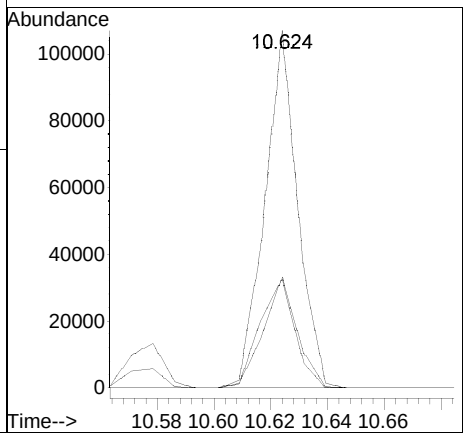


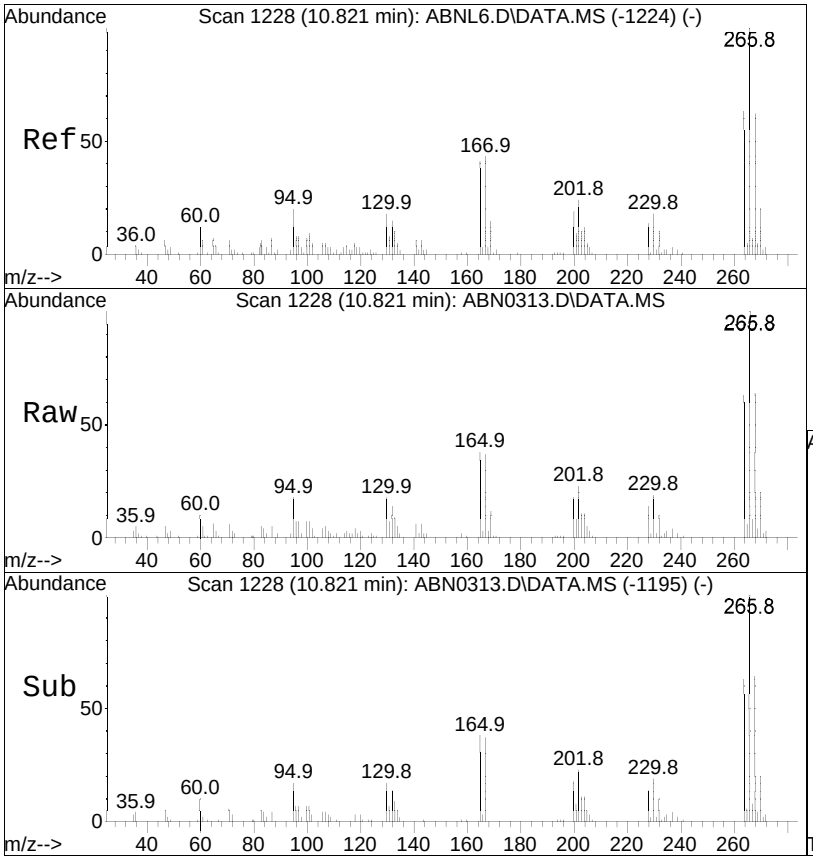


#81
Hexachlorobenzene
Concen: 4.47 ug/ml
RT: 10.624 min Scan# 1202
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:284 Resp: 85417

Ion	Ratio	Lower	Upper
284	100		
142	32.7	41.9	62.9#
249	32.1	24.1	36.1

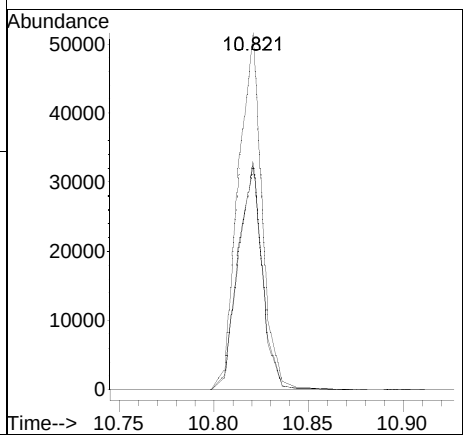


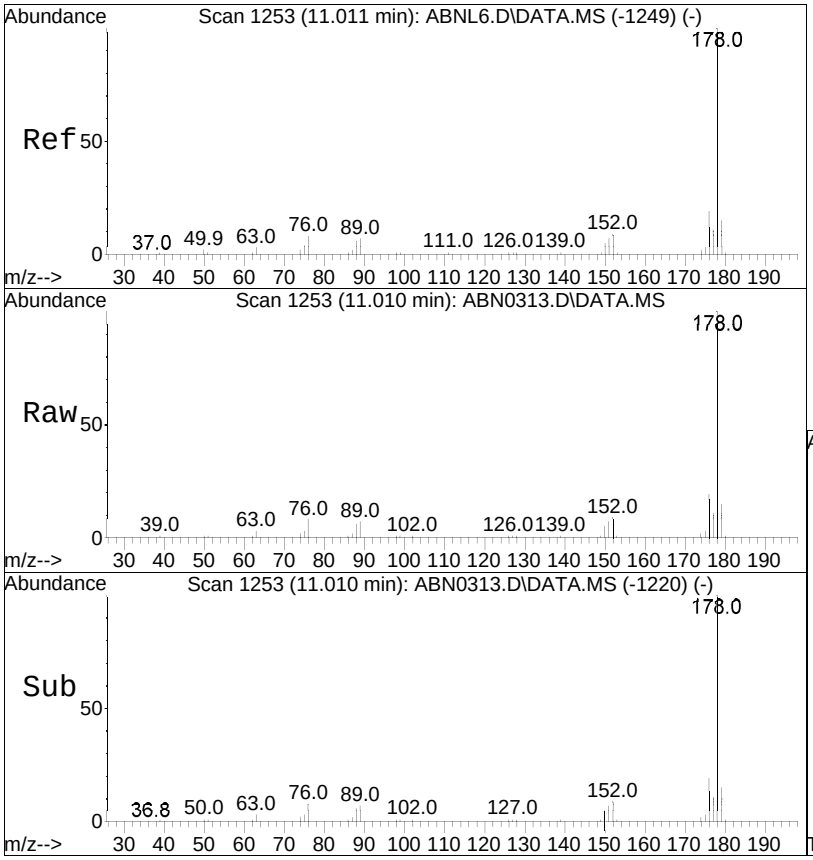


#82
Pentachlorophenol
Concen: 4.55 ug/ml
RT: 10.821 min Scan# 1228
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:266 Resp: 45179

Ion	Ratio	Lower	Upper
266	100		
264	64.6	49.7	74.5
268	64.5	50.5	75.7

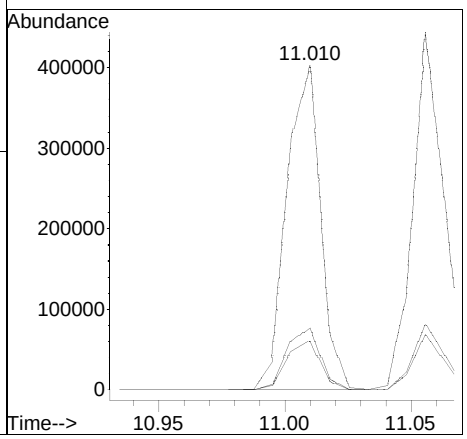


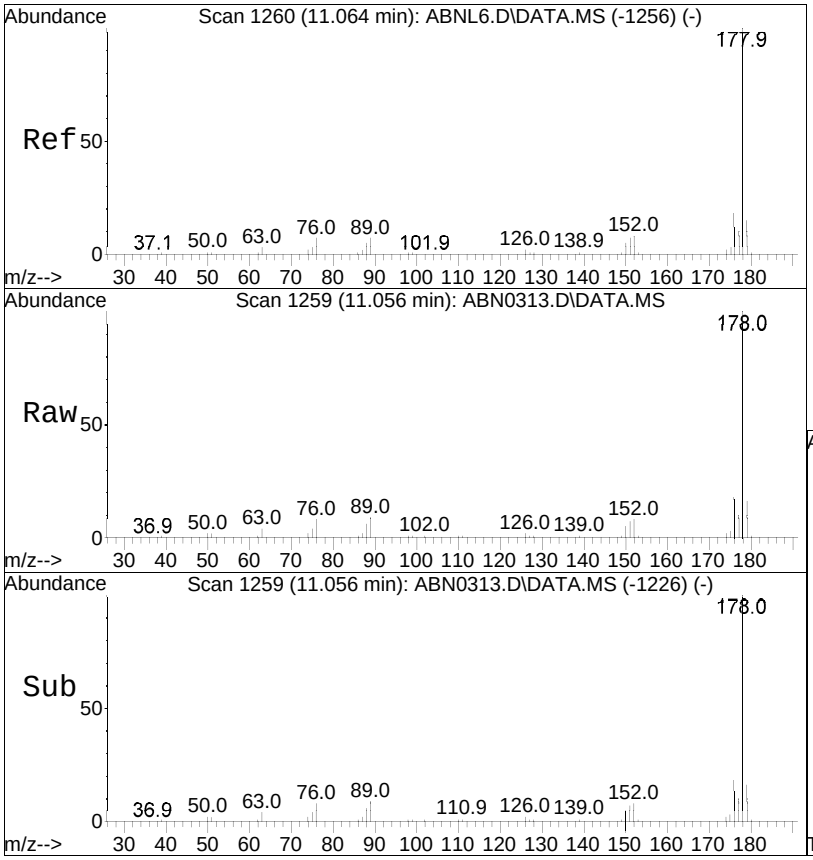


#89
Phenanthrene
Concen: 4.75 ug/ml
RT: 11.010 min Scan# 1253
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:178 Resp: 376101

Ion	Ratio	Lower	Upper
178	100		
179	15.1	12.2	18.2
176	19.1	15.4	23.2

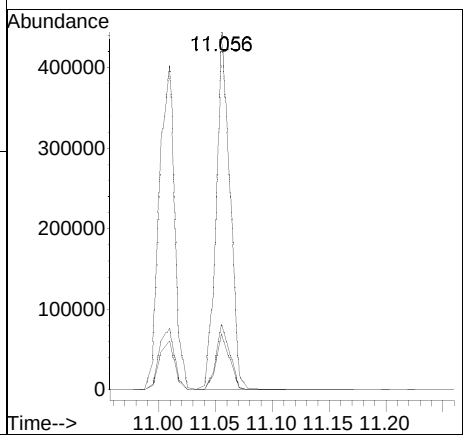


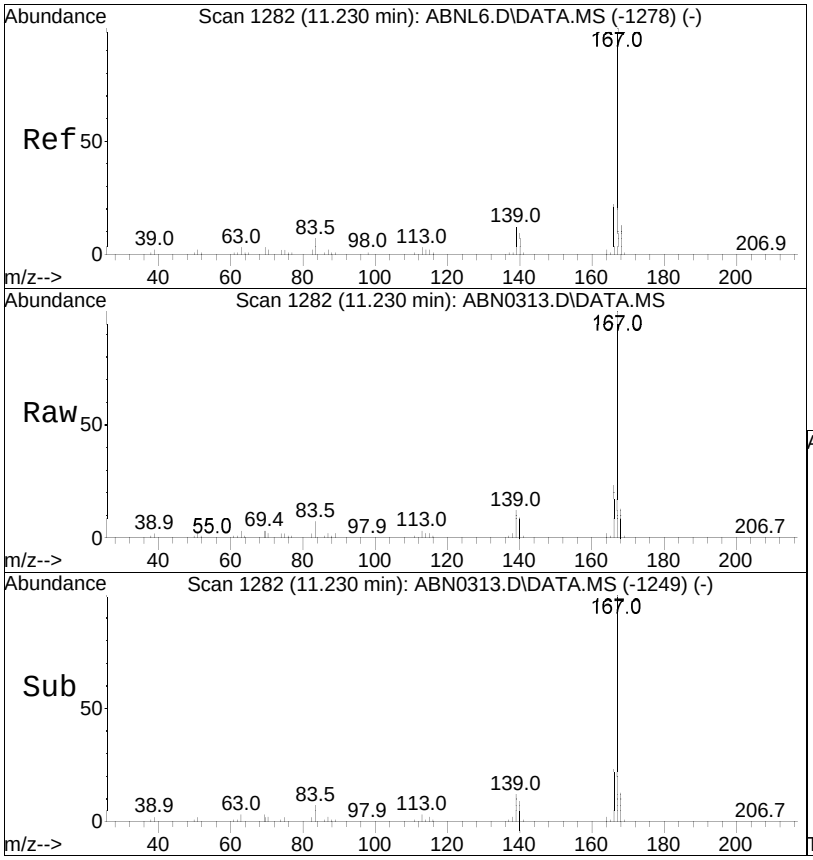


#90
Anthracene
Concen: 4.86 ug/ml
RT: 11.056 min Scan# 1259
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:178 Resp: 375656

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.0	18.0
176	18.5	14.6	22.0

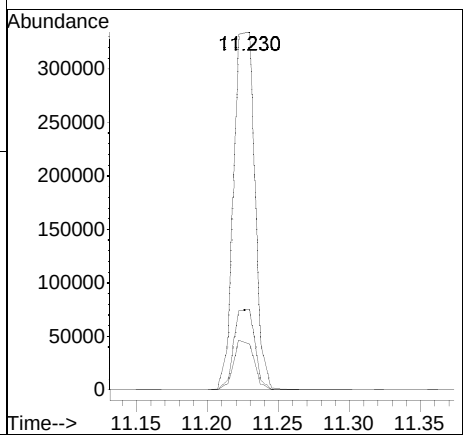


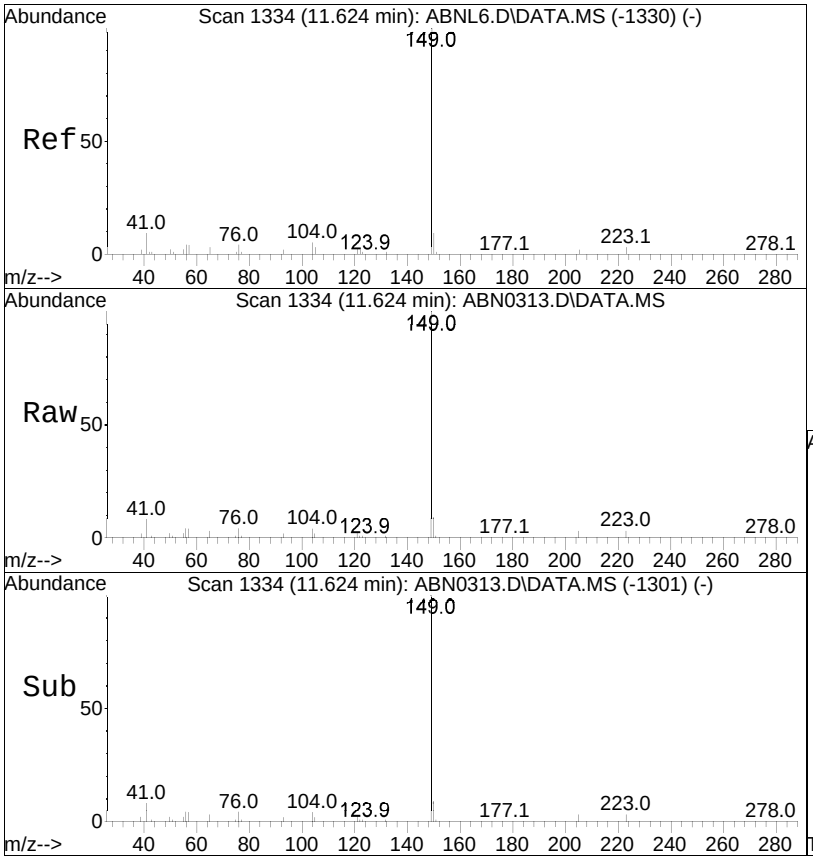


#91
Carbazole
Concen: 4.98 ug/ml
RT: 11.230 min Scan# 1282
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:167 Resp: 343977

Ion	Ratio	Lower	Upper
167	100		
168	13.3	10.6	15.8
166	22.4	17.4	26.0

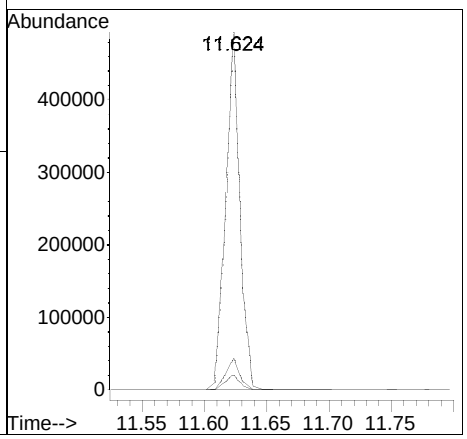


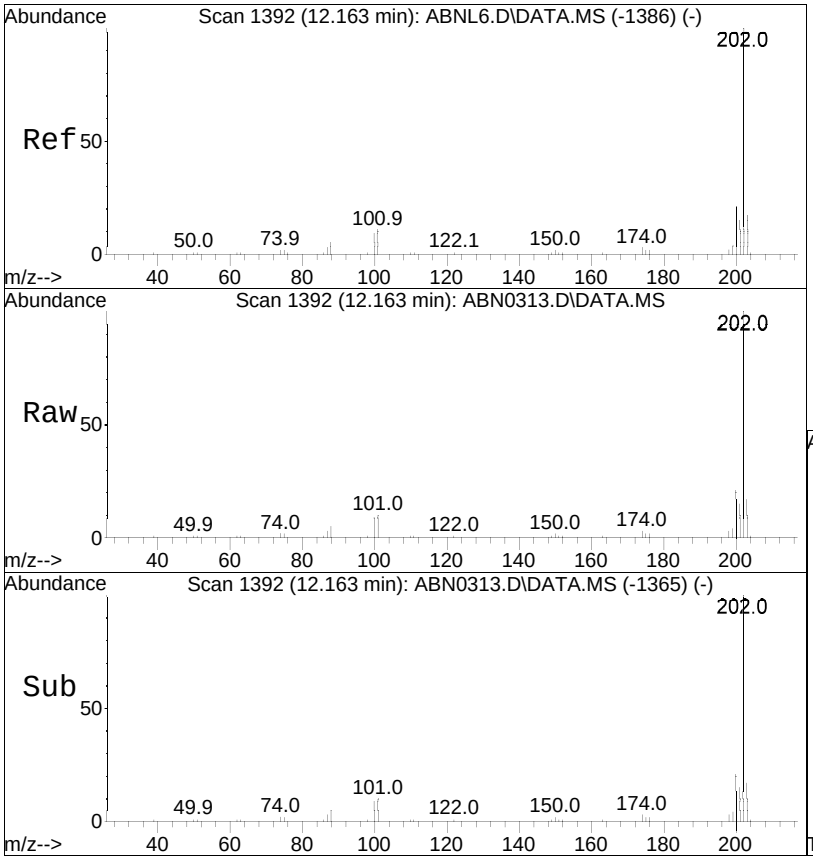


#92
Di-n-butylphthalate
Concen: 5.55 ug/ml
RT: 11.624 min Scan# 1334
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:149 Resp: 432499

Ion	Ratio	Lower	Upper
149	100		
150	7.7	7.0	10.6
104	4.0	4.5	6.7#

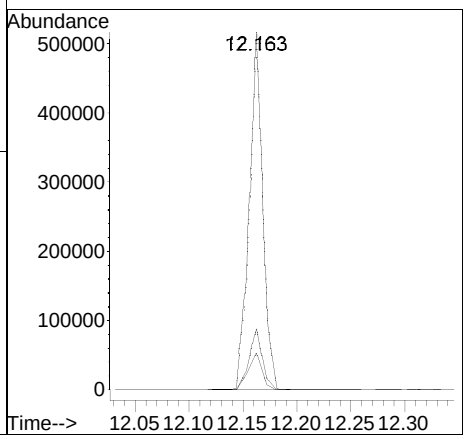


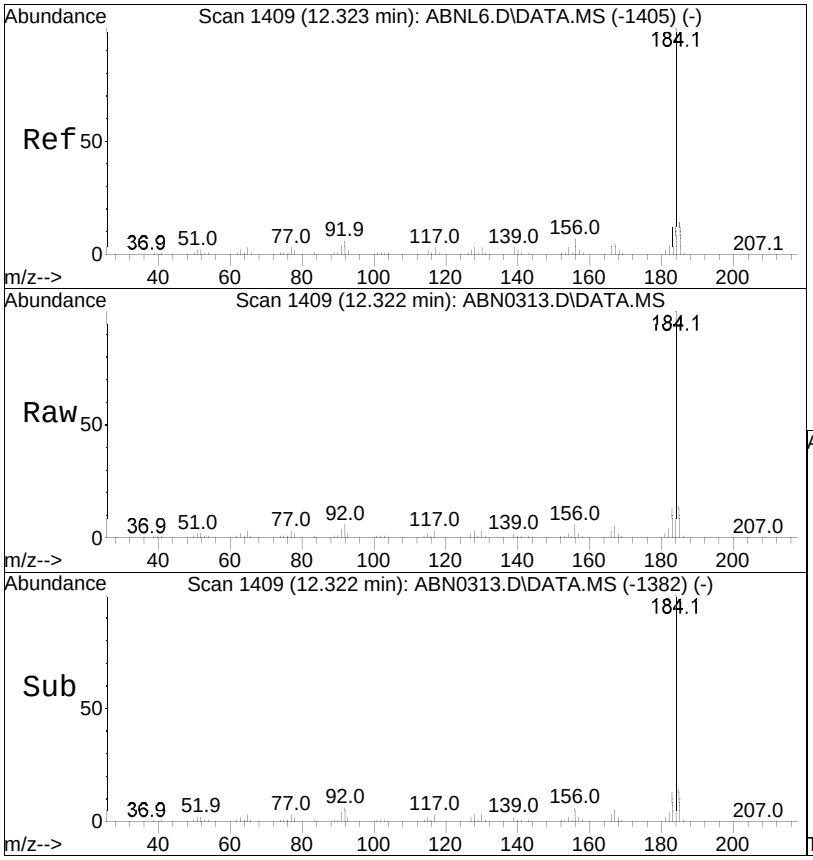


#93
Fluoranthene
Concen: 4.88 ug/ml
RT: 12.163 min Scan# 1392
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:202 Resp: 442287

Ion	Ratio	Lower	Upper
202	100		
101	11.0	13.5	20.3#
203	17.3	13.6	20.4

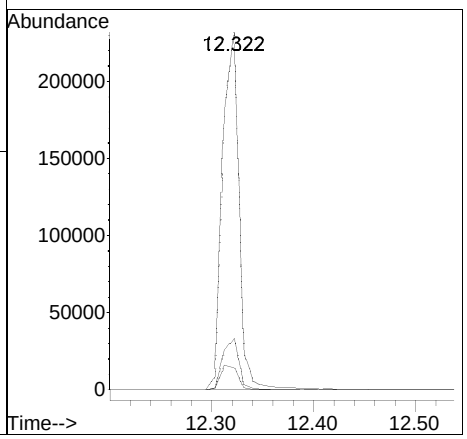


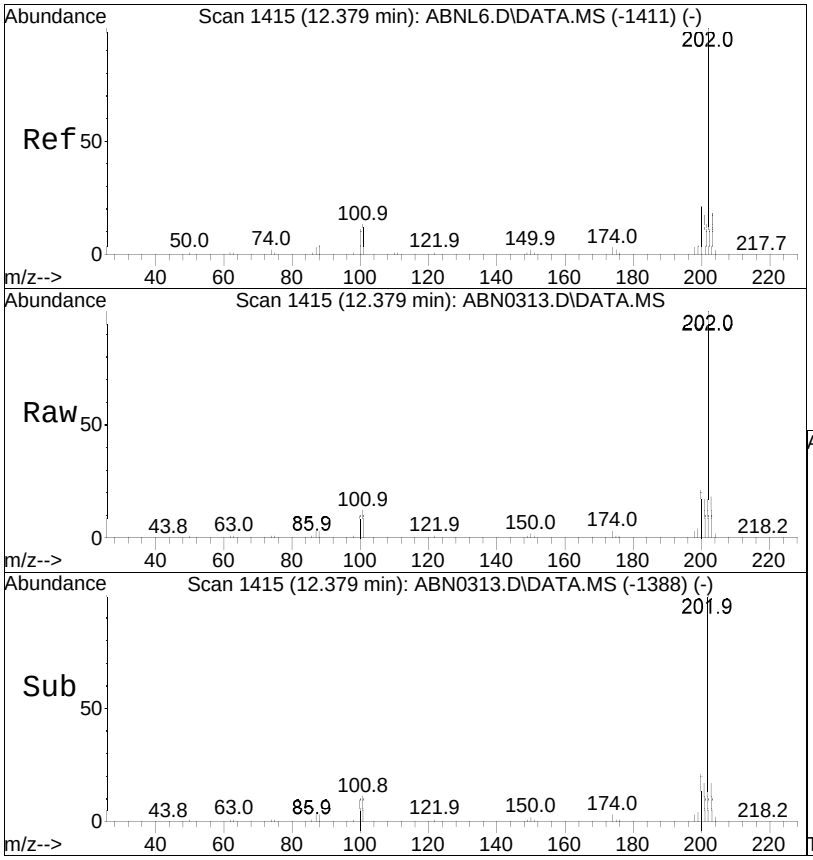


#94
Benzidine
Concen: 5.30 ug/ml
RT: 12.322 min Scan# 1409
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:184 Resp: 260339

Ion	Ratio	Lower	Upper
184	100		
92	7.2	9.1	13.7#
185	14.4	11.1	16.7

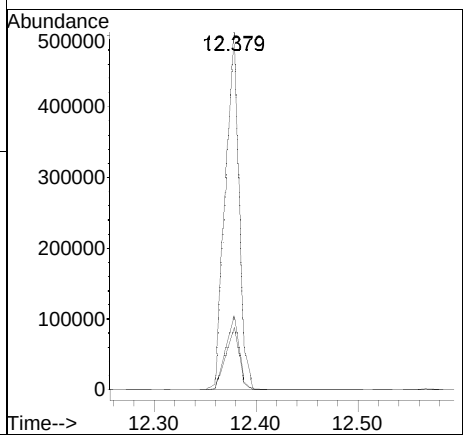


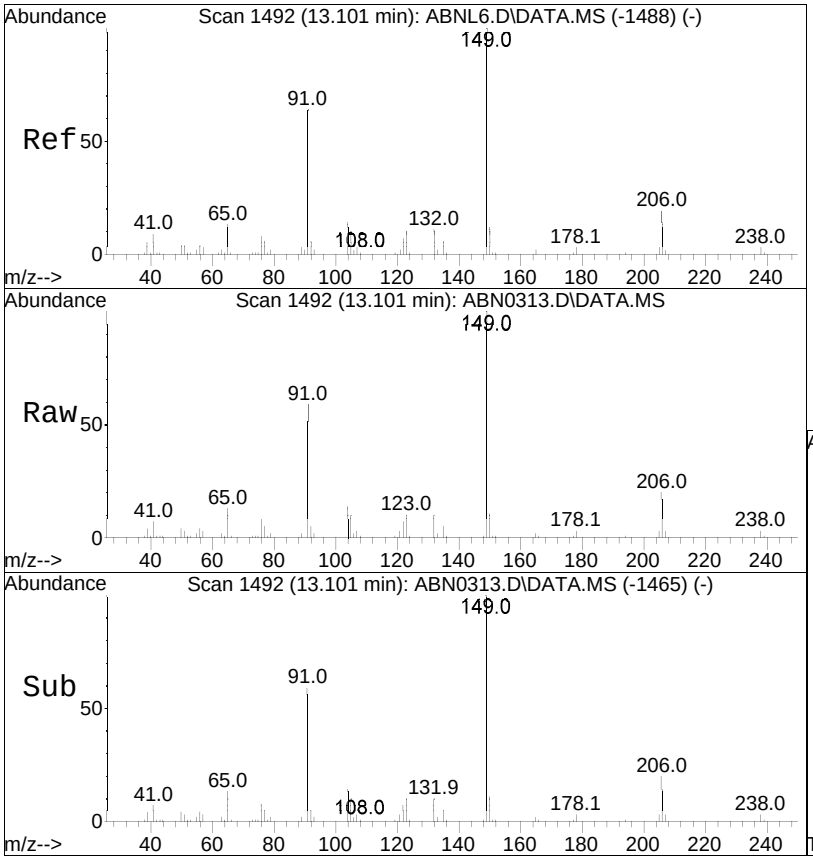


#95
Pyrene
Concen: 4.93 ug/ml
RT: 12.379 min Scan# 1415
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:202 Resp: 467958

Ion	Ratio	Lower	Upper
202	100		
200	20.8	16.7	25.1
203	17.6	14.2	21.4

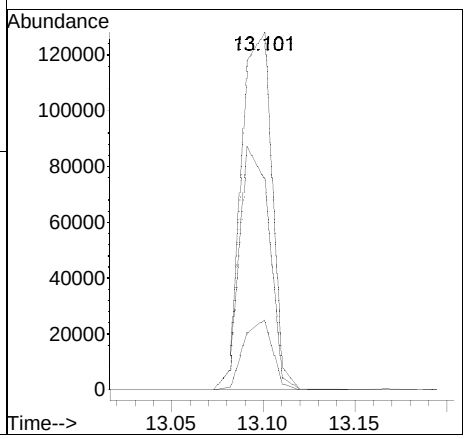


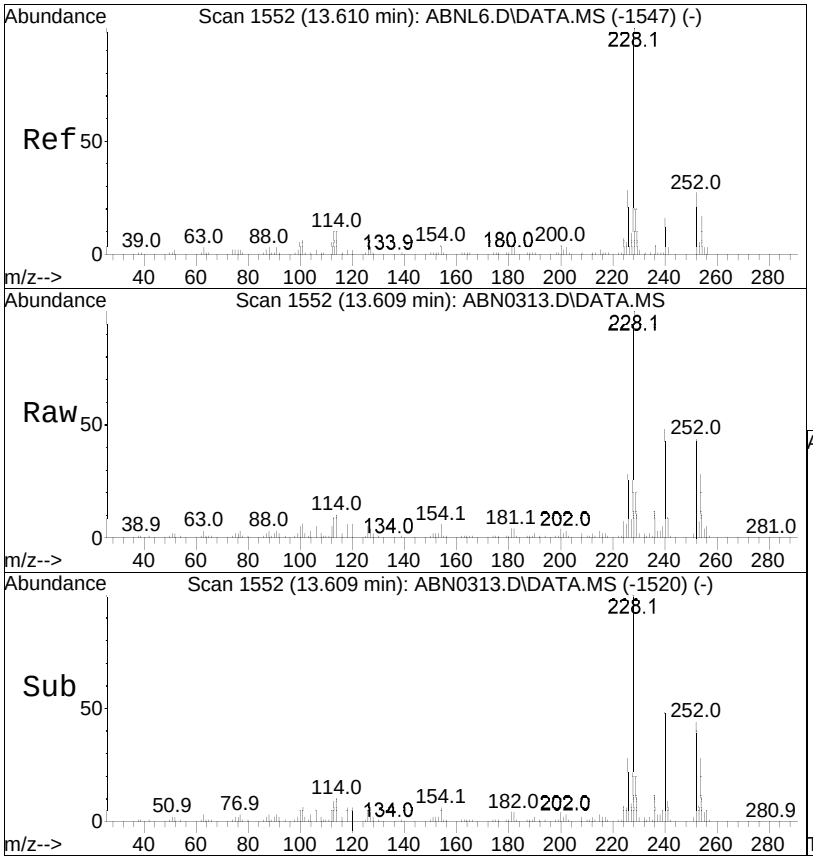


#97
Butyl benzyl phthalate
Concen: 4.20 ug/ml
RT: 13.101 min Scan# 1492
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:149 Resp: 147158

Ion	Ratio	Lower	Upper
149	100		
91	67.0	63.3	94.9
206	18.5	13.9	20.9

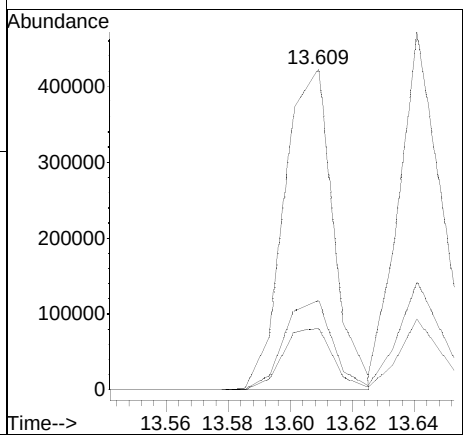


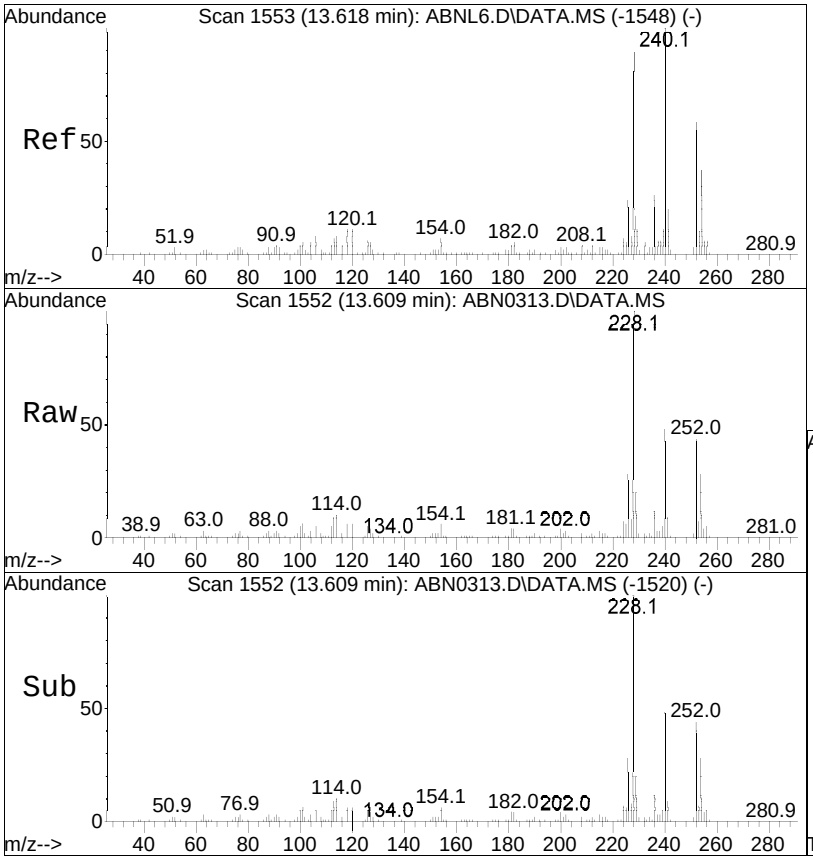


#105
Benzo(a)anthracene
Concen: 4.90 ug/ml
RT: 13.609 min Scan# 1552
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:228 Resp: 464397

Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.2	33.4
229	19.8	15.6	23.4

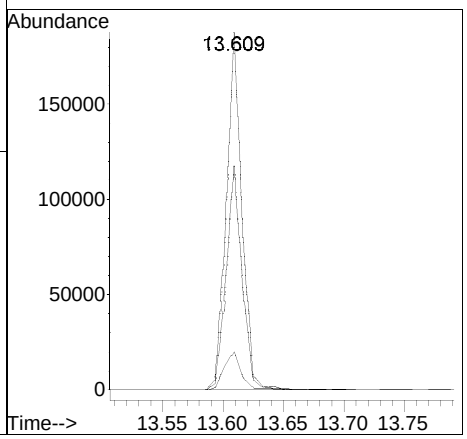


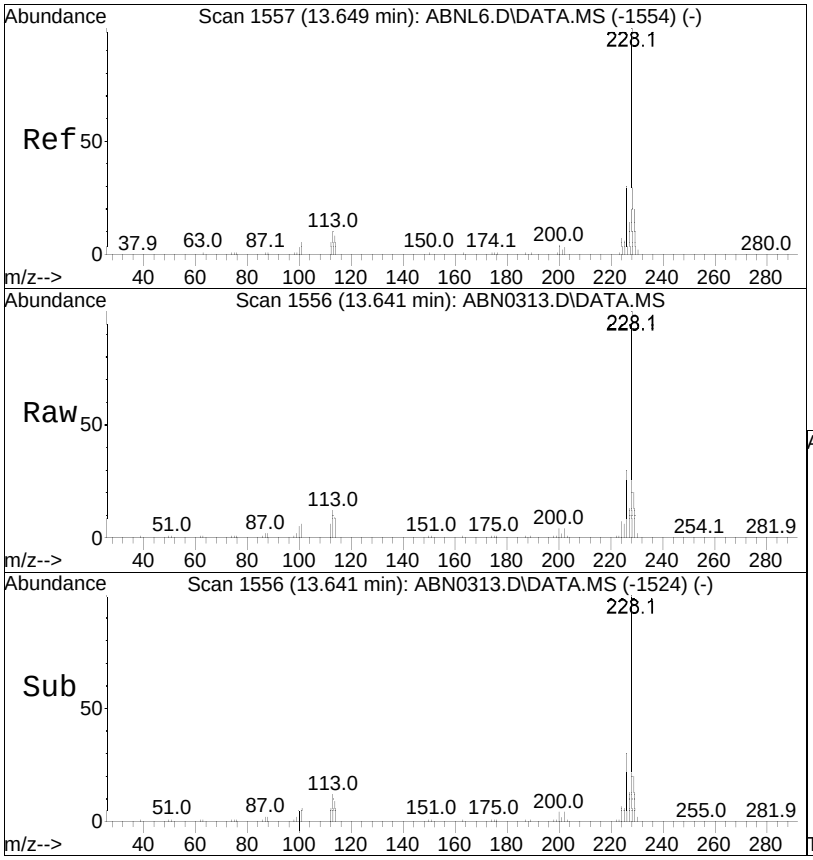


#106
3,3'-Dichlorobenzidine
Concen: 5.19 ug/ml
RT: 13.609 min Scan# 1552
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:252 Resp: 165339

Ion	Ratio	Lower	Upper
252	100		
126	12.6	14.5	21.7#
254	63.8	51.2	76.8

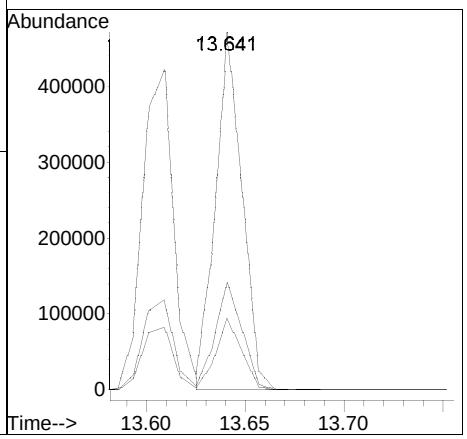


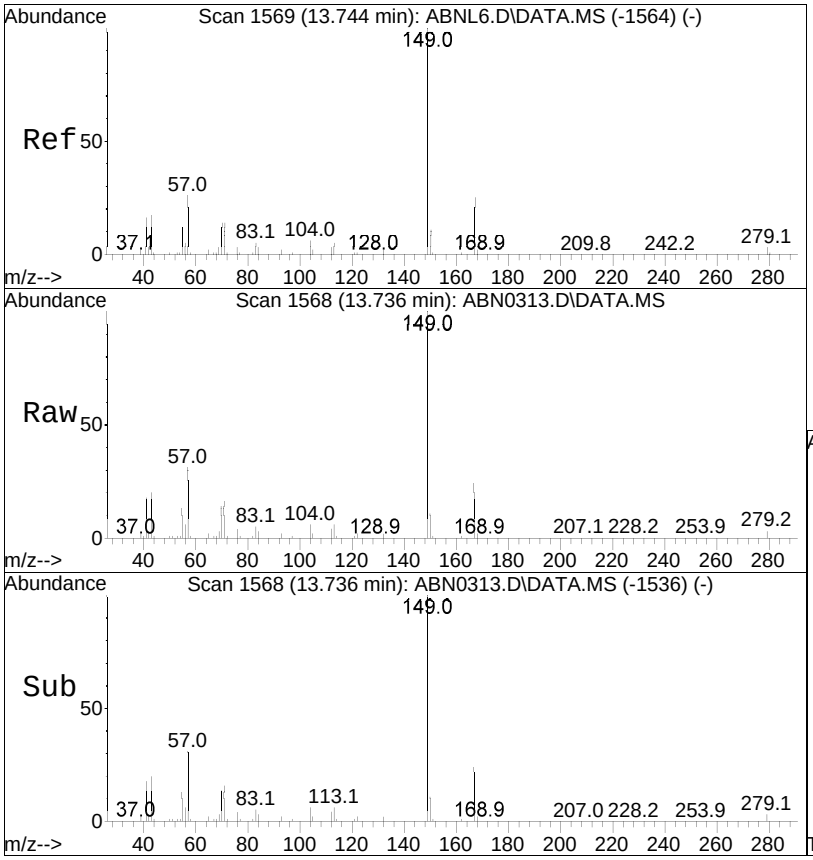


#107
Chrysene
Concen: 4.67 ug/ml
RT: 13.641 min Scan# 1556
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:228 Resp: 439246

Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.0	36.0
229	19.5	15.8	23.8

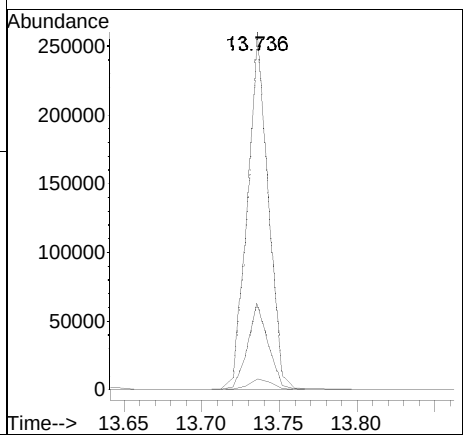


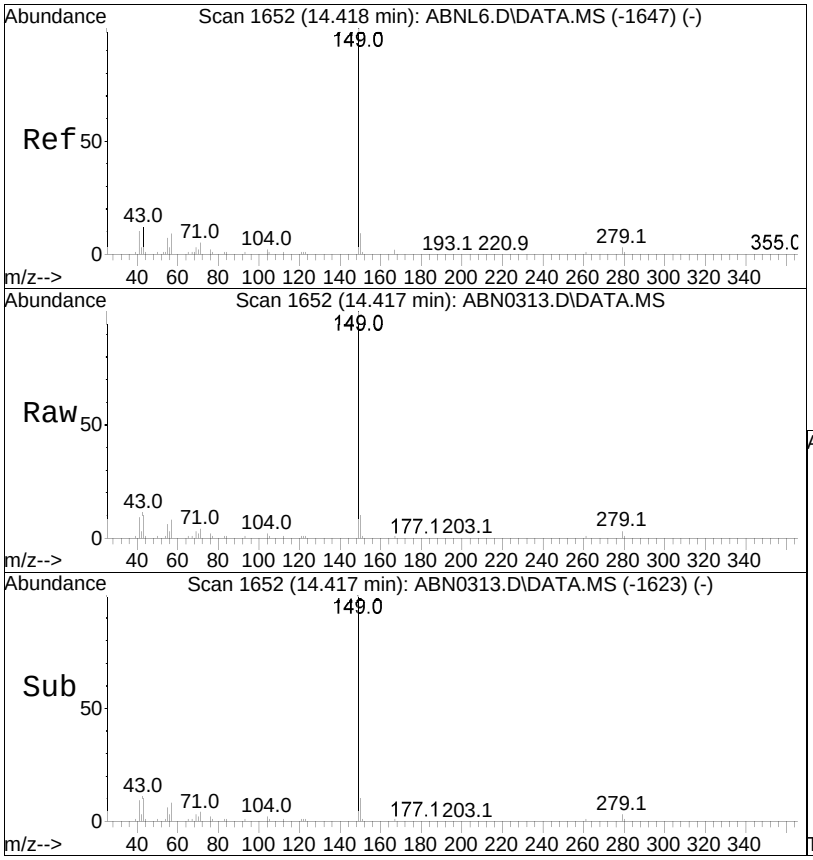


#108
Bis(2-ethylhexyl)phthalate
Concen: 4.47 ug/ml
RT: 13.736 min Scan# 1568
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:149 Resp: 239536

Ion	Ratio	Lower	Upper
149	100		
167	24.1	22.1	33.1
279	3.0	3.0	4.4

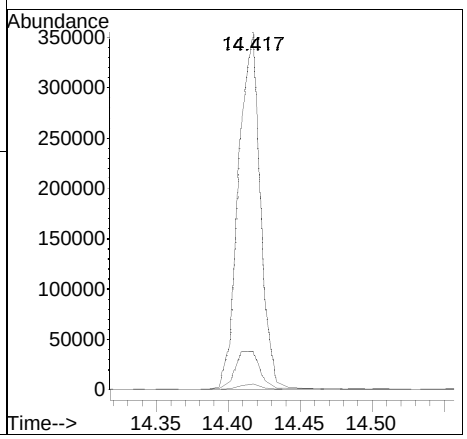


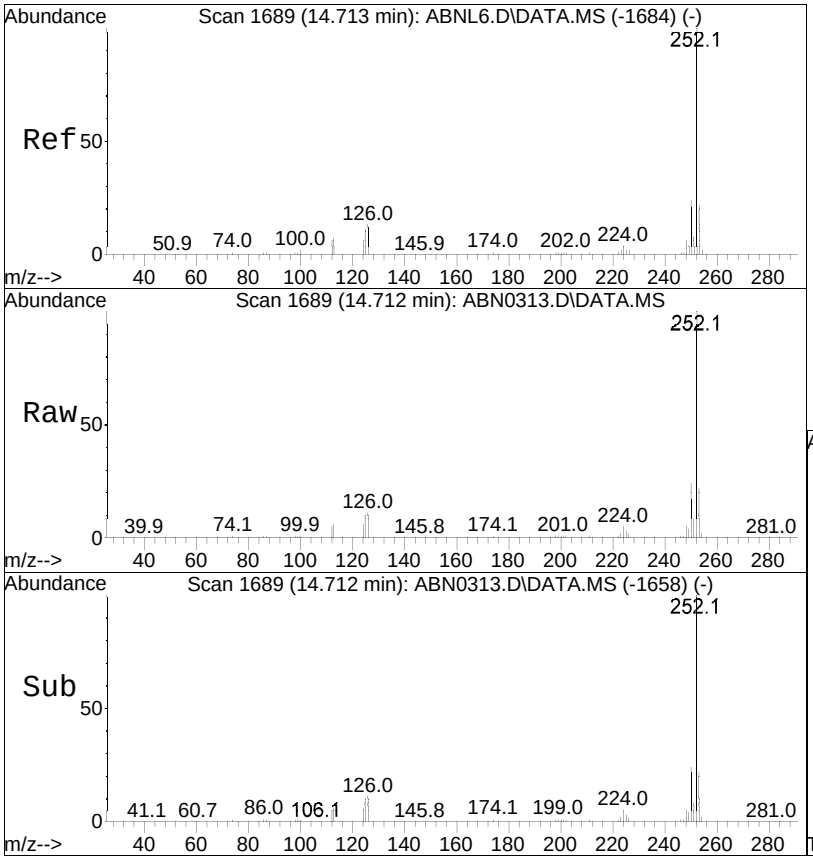


#109
Di-n-octylphthalate
Concen: 4.13 ug/ml
RT: 14.417 min Scan# 1652
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:149 Resp: 369355

Ion	Ratio	Lower	Upper
149	100		
43	12.5	18.8	28.2#
167	1.4	1.3	1.9

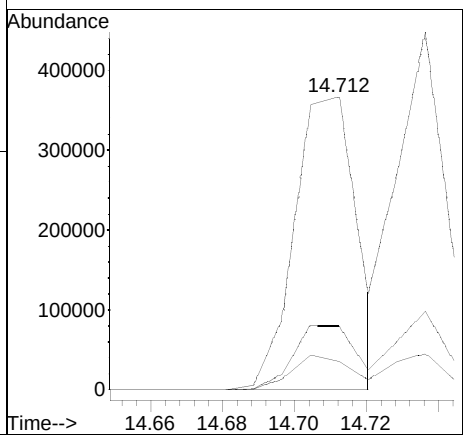


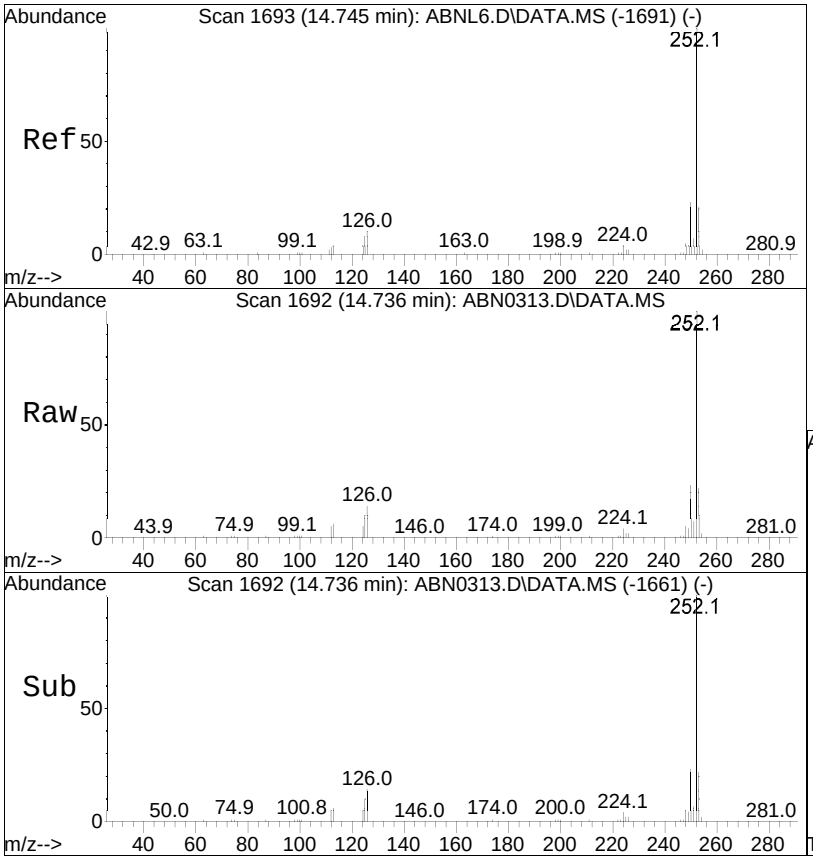


#110
Benzo(b)fluoranthene
Concen: 4.58 ug/ml
RT: 14.712 min Scan# 1689
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:252 Resp: 446487

Ion	Ratio	Lower	Upper
252	100		
125	11.3	13.3	19.9#
253	22.0	17.1	25.7

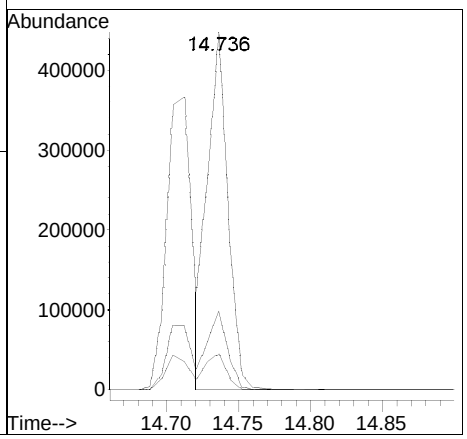


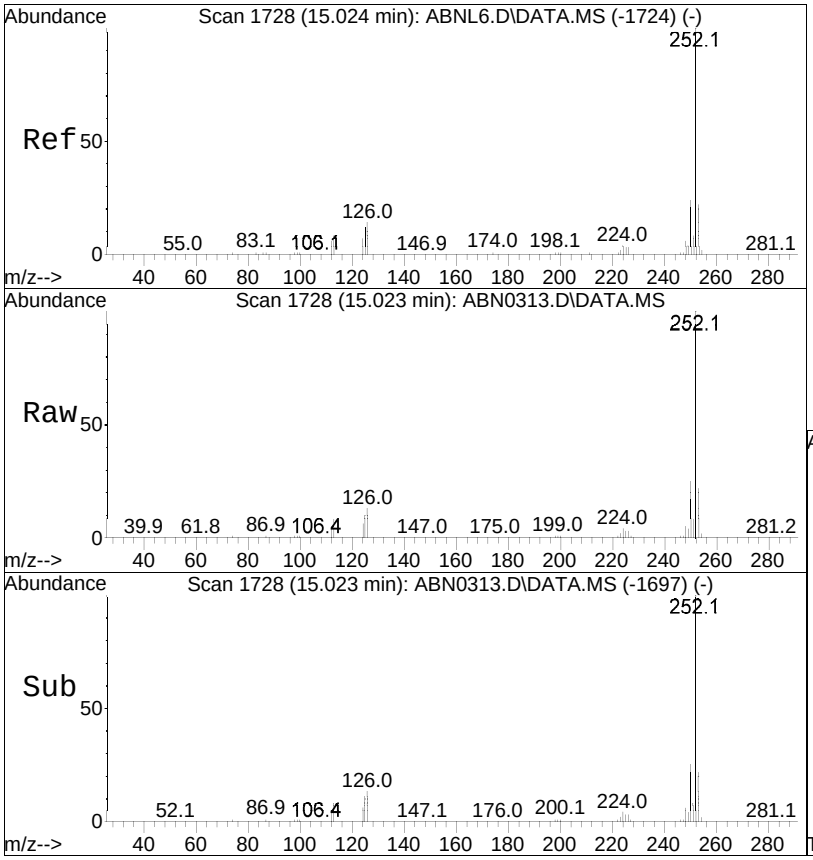


#111
Benzo(k)fluoranthene
Concen: 4.80 ug/ml
RT: 14.736 min Scan# 1692
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:252 Resp: 435399

Ion	Ratio	Lower	Upper
252	100		
125	10.6	13.0	19.6#
253	22.1	16.8	25.2

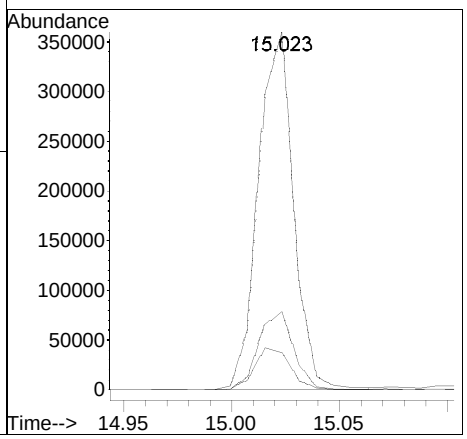


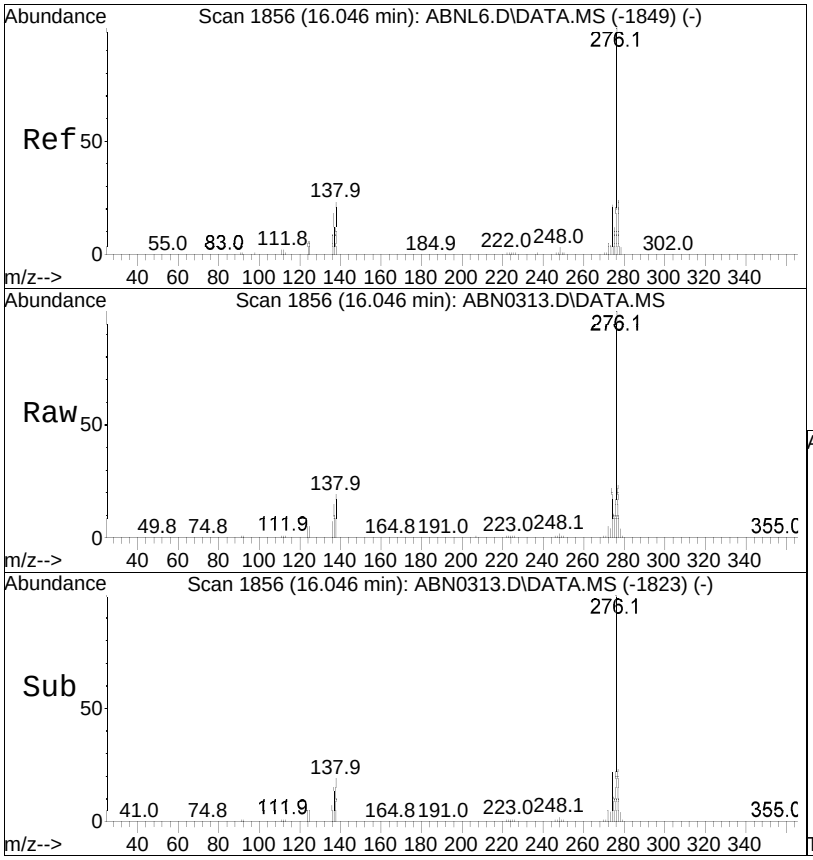


#112
Benzo(a)pyrene
Concen: 4.72 ug/ml
RT: 15.023 min Scan# 1728
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:252 Resp: 404824

Ion	Ratio	Lower	Upper
252	100		
125	12.1	14.2	21.2#
253	22.1	16.9	25.3

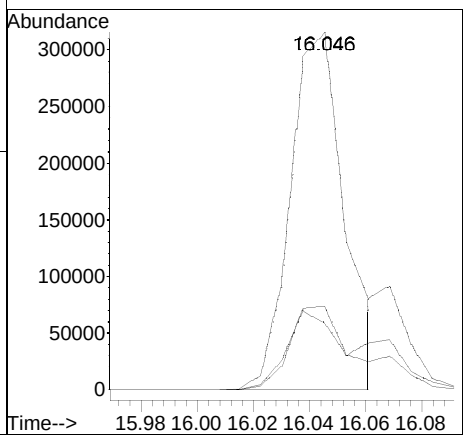


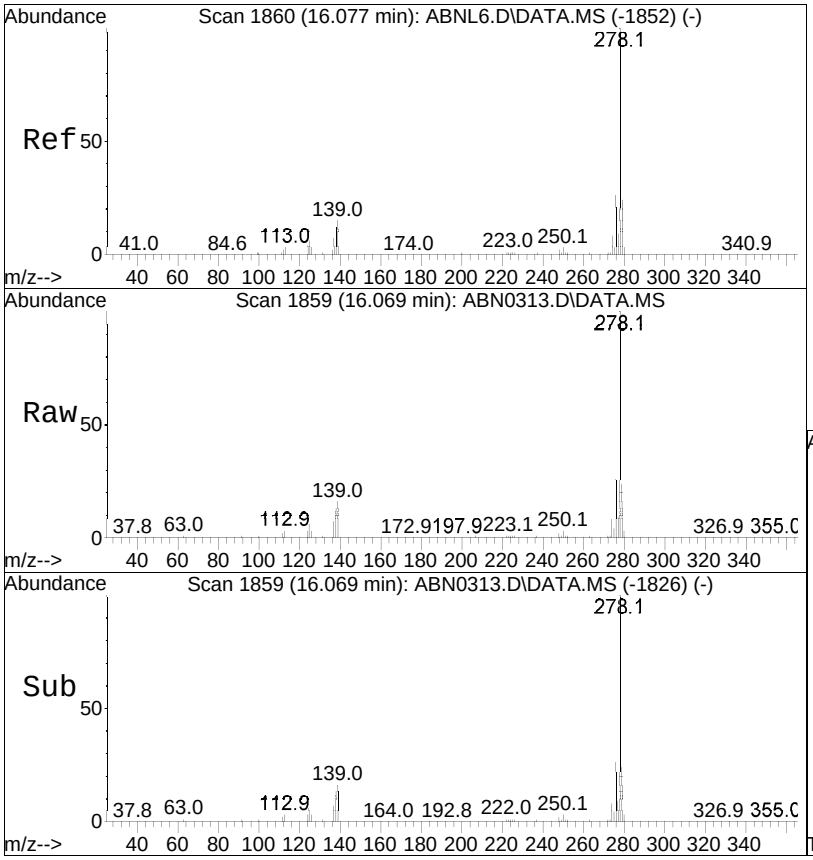


#114
Indeno(1,2,3-cd)pyrene
Concen: 5.27 ug/mL M6
RT: 16.046 min Scan# 1856
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:276 Resp: 424700

Ion	Ratio	Lower	Upper
276	100		
138	32.8	25.1	37.7
277	29.7	18.6	28.0#

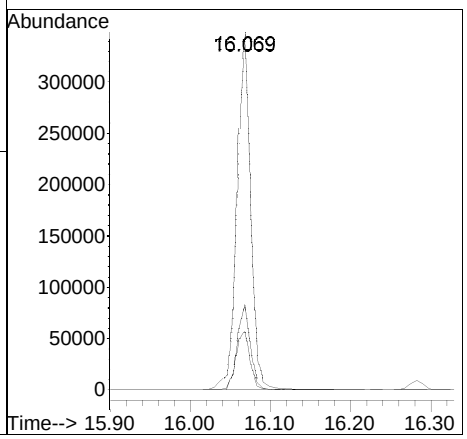


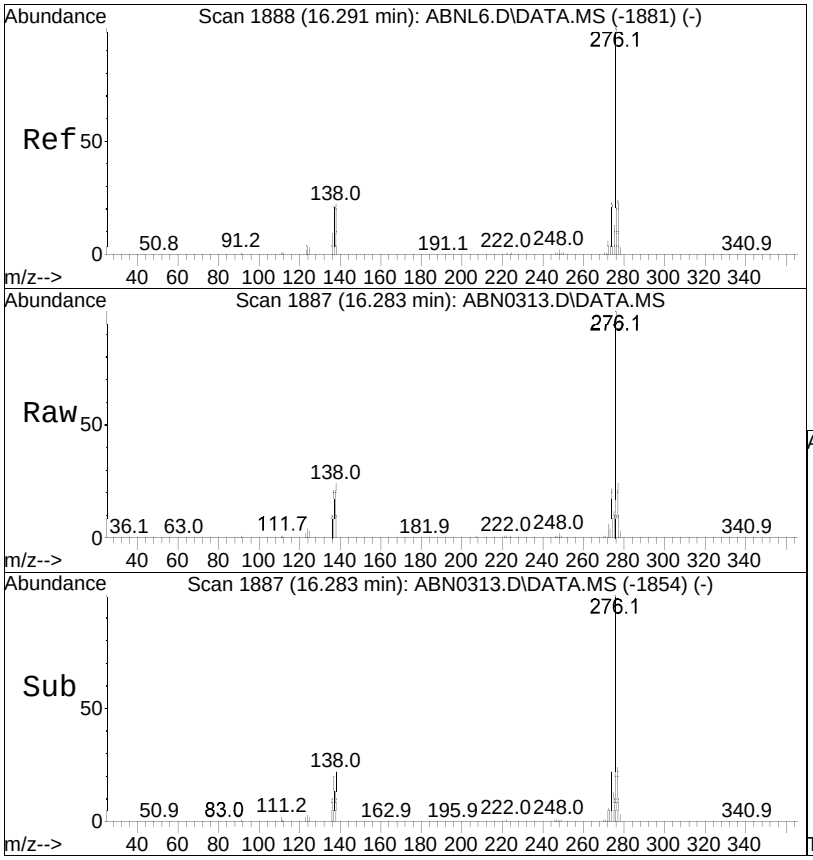


#115
Dibenzo(a,h)anthracene
Concen: 5.11 ug/ml
RT: 16.069 min Scan# 1859
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:278 Resp: 409432

Ion	Ratio	Lower	Upper
278	100		
139	17.0	20.8	31.2#
279	23.3	18.3	27.5

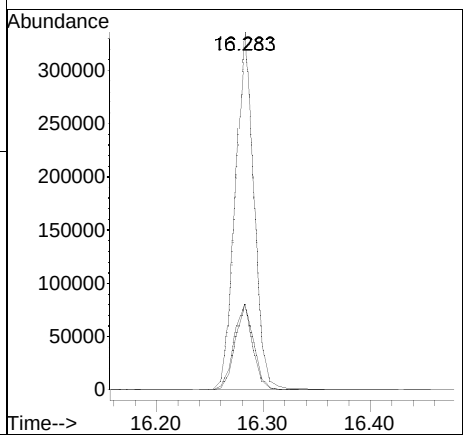




#116
Benzo(ghi)perylene
Concen: 5.13 ug/ml
RT: 16.283 min Scan# 1887
Delta R.T. 0.000 min
Lab File: ABN0313.D
Acq: 13 Mar 2025 11:03 am

Tgt Ion:276 Resp: 404985

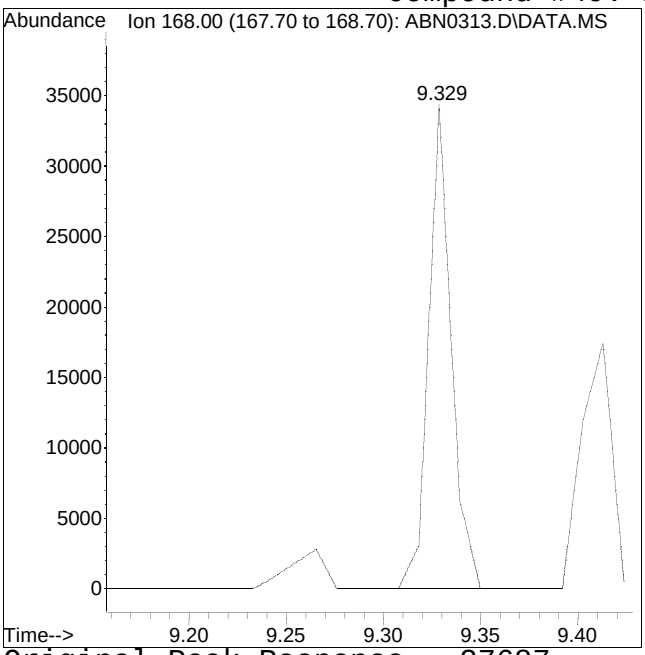
Ion	Ratio	Lower	Upper
276	100		
138	24.2	29.2	43.8#
277	23.8	18.8	28.2

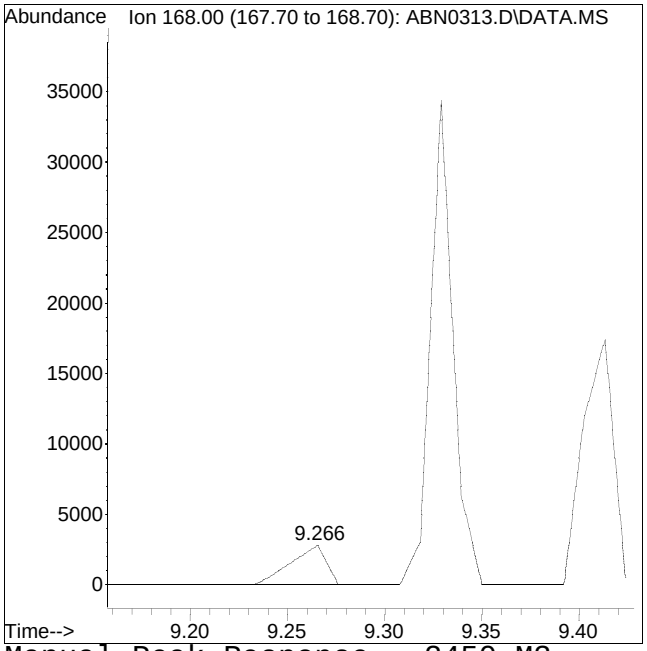


Manual Integration Report

Data Path : I:\8270\SV106\250313RVT\ QMethod : FS250311SV106.m
Data File : ABN0313.D Operator : SV106:jg
Date Inj'd : 3/13/2025 11:03 am Instrument : SV 106
Sample : WG2040166-3,32,,ABN 11297 Quant Date : 3/13/2025 12:06 pm

Compound #49: 1,4-Dinitrobenzene





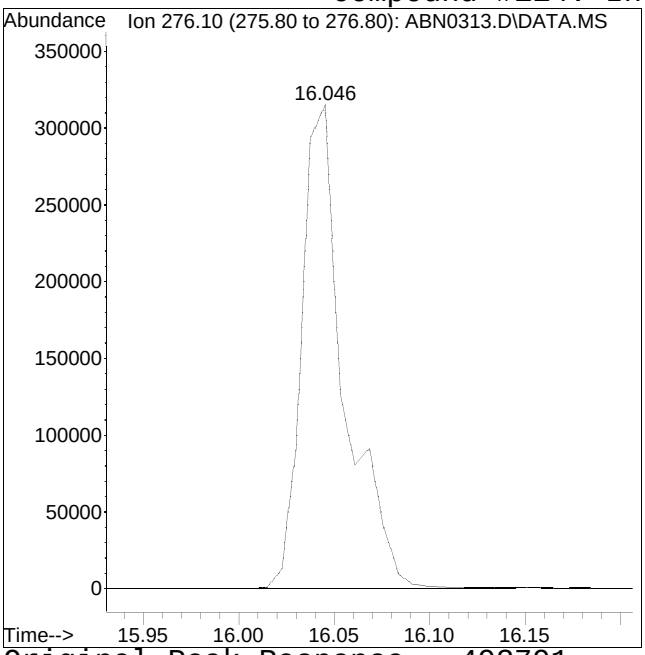
Original Peak Response = 27687 Manual Peak Response = 2450 M3

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

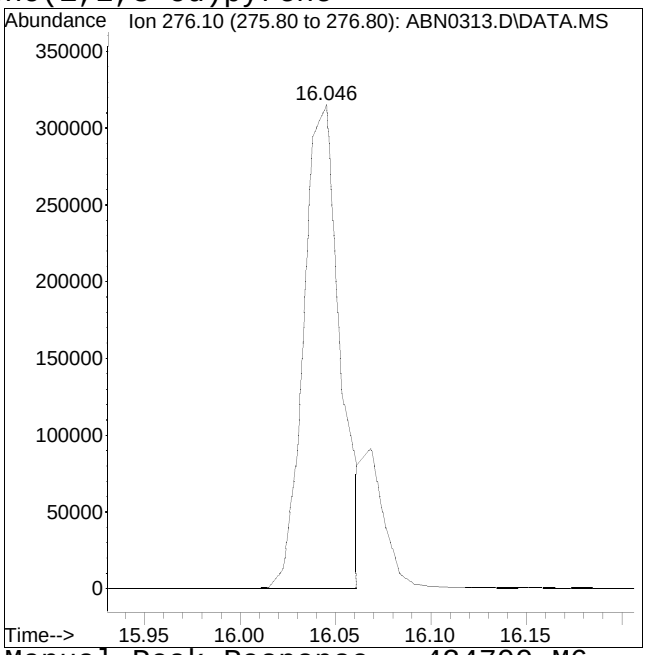
Manual Integration Report

Data Path : I:\8270\SV106\250313RVT\ QMethod : FS250311SV106.m
Data File : ABN0313.D Operator : SV106:jg
Date Inj'd : 3/13/2025 11:03 am Instrument : SV 106
Sample : WG2040166-3,32,,ABN 11297 Quant Date : 3/13/2025 12:06 pm

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 493791



Manual Peak Response = 424700 M6

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\250313RVT\
Data File : AP90313.D
Acq On : 13 Mar 2025 11:27 am
Operator : SV106:jg
Sample : WG2040166-4,32,,AP9 11152 gmr0304B
Misc : WG2040166,,ical22075
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Mar 13 16:34:11 2025
Quant Method : I:\8270\SV106\250313RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 12:07:36 2025
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	101	0.00
28	T	Benzaldehyde		0.954	0.850	10.9	91	0.00
29	T	Acetophenone		1.646	1.733	-5.3	105	0.00
30	T	m-Toluidine		1.514	1.529	-1.0	99	0.00
31	T	2-Chloroaniline		1.481	1.589	-7.3	109	0.00
55	I	IS2_Naphthalene-d8		1.000	1.000	0.0	101	0.00
56	T	a-Terpineol		0.275	0.308	-12.0	115	0.00
57	T	3-Chloroaniline		0.139	0.150	-7.9	108	0.00
58	T	2,6-Dichlorophenol		0.270	0.286	-5.9	110	0.00
59	T	1-chloro-2-nitrobenzene		0.108	0.125	-15.7	122	0.00
60	T	Caprolactam		0.165	0.174	-5.5	119	0.00
61	T	1,2,4,5-Tetrachlorobenzene		0.401	0.409	-2.0	108	0.00
62	T	Biphenyl		0.885	0.907	-2.5	109	0.00
83	I	IS2_Acenaphthene-d10		1.000	1.000	0.0	103	0.00
84	T	Dichloran	*	5.000	5.770	-15.4	129	0.00
85	T	Pentachloronitrobenzene		0.144	0.160	-11.1	124	0.00
98	I	IS2_Phenanthrene-d10		1.000	1.000	0.0	102	0.00
99	T	Diphenamid		0.413	0.458	-10.9	109	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250313RVT\
Data File : AP90313.D
Acq On : 13 Mar 2025 11:27 am
Operator : SV106:jg
Sample : WG2040166-4,32,,AP9 11152 gmr0304B
Misc : WG2040166,,ical22075
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Mar 13 16:34:11 2025
Quant Method : I:\8270\SV106\250313RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 12:07:36 2025
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.351	152	57135	4.000	ug/ml		0.00
55) IS2_Naphthalene-d8	7.783	136	214914	4.000	ug/ml	#	0.00
83) IS2_Acenaphthene-d10	9.550	164	134336	4.000	ug/ml		0.00
98) IS2_Phenanthrene-d10	10.988	188	269979	4.000	ug/ml		0.00
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.773	105	60719	4.457	ug/ml		97
29) Acetophenone	6.860	105	123781	5.266	ug/ml	#	89
30) m-Toluidine	6.957	106	109187	5.048	ug/ml		92
31) 2-Chloroaniline	7.363	127	113486	5.366	ug/ml	#	94
56) a-Terpineol	7.862	59	82706	5.602	ug/ml		91
57) 3-Chloroaniline	7.876	65	40236	5.370	ug/ml		86
58) 2,6-Dichlorophenol	7.898	162	76839	5.296	ug/ml		97
59) 1-chloro-2-nitrobenzene	8.171	111	33604	5.792	ug/ml	#	1
60) Caprolactam	8.207	55	46849	5.298	ug/ml	#	88
61) 1,2,4,5-Tetrachloroben...	8.701	216	109817	5.091	ug/ml		97
62) Biphenyl	9.000	154	243731	5.124	ug/ml		98
84) Dichloran	10.685	206	22696	5.770	ug/ml	#	69
85) Pentachloronitrobenzene	10.836	237	26939	5.575	ug/ml	#	77
99) Diphenamid	11.900	167	154575	5.548	ug/ml	#	79

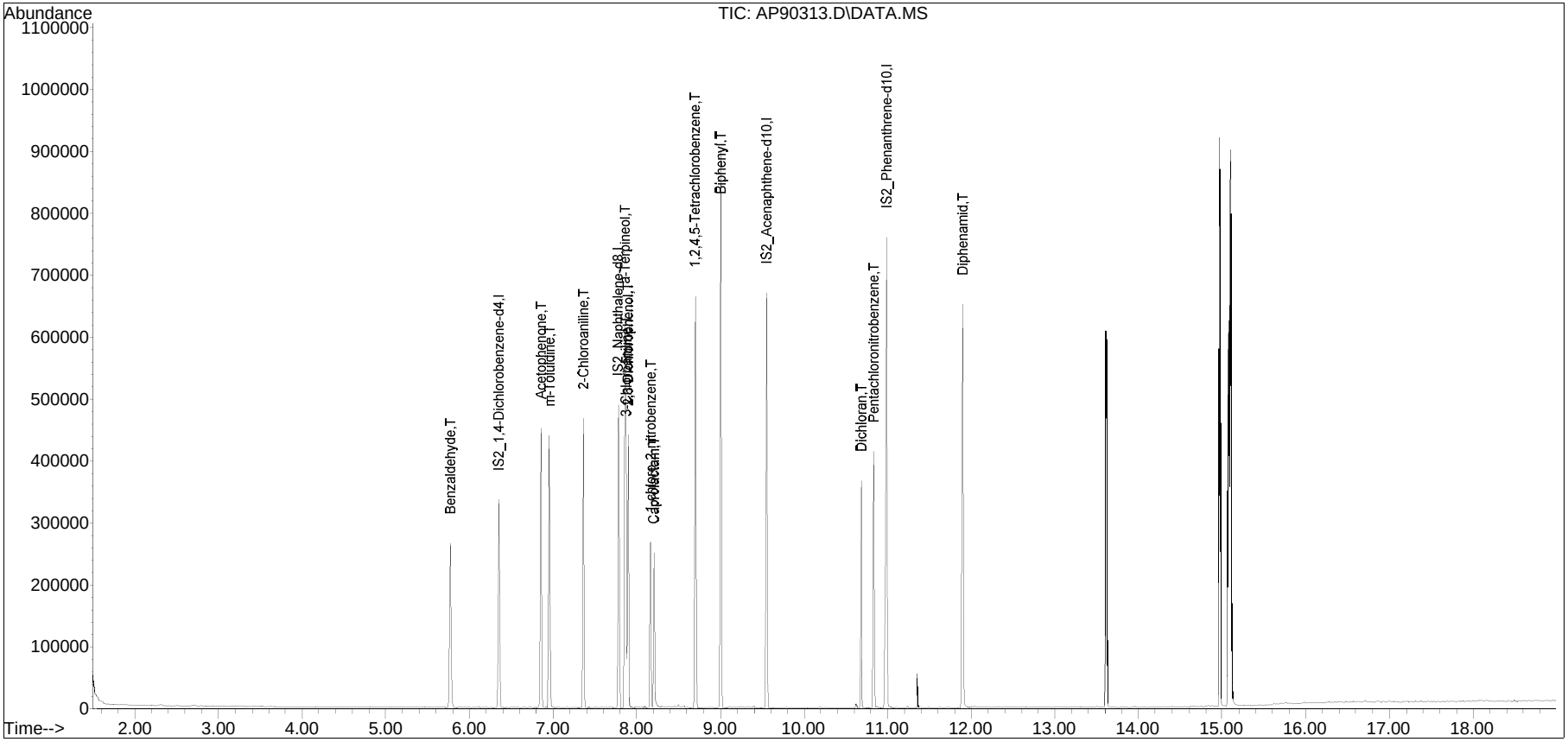
(#) = qualifier out of range (m) = manual integration (+) = signals summed

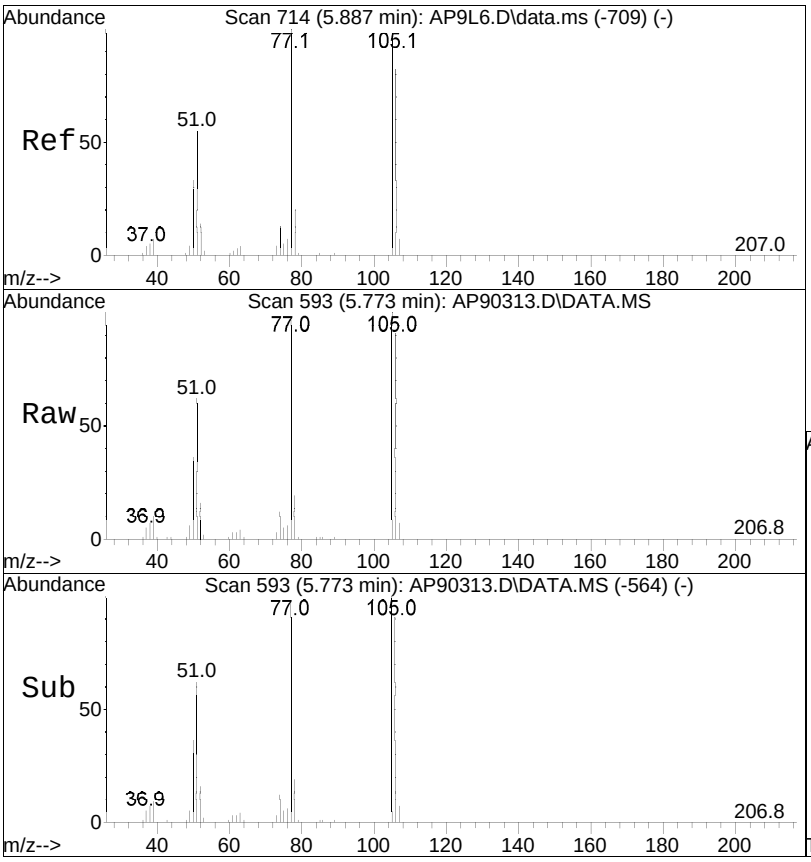
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250313RVT\
Data File : AP90313.D
Acq On : 13 Mar 2025 11:27 am
Operator : SV106:jg
Sample : WG2040166-4,32,,AP9 11152 gmr0304B
Misc : WG2040166,,ical22075
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Mar 13 16:34:11 2025
Quant Method : I:\8270\SV106\250313RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 12:07:36 2025
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

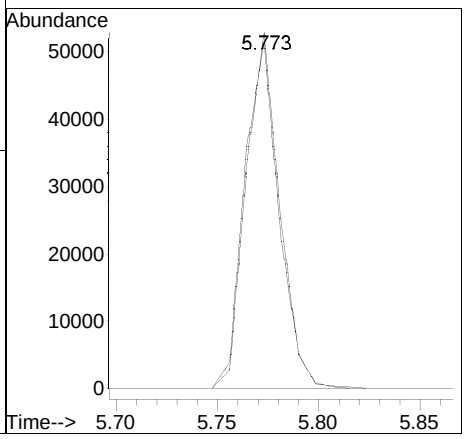


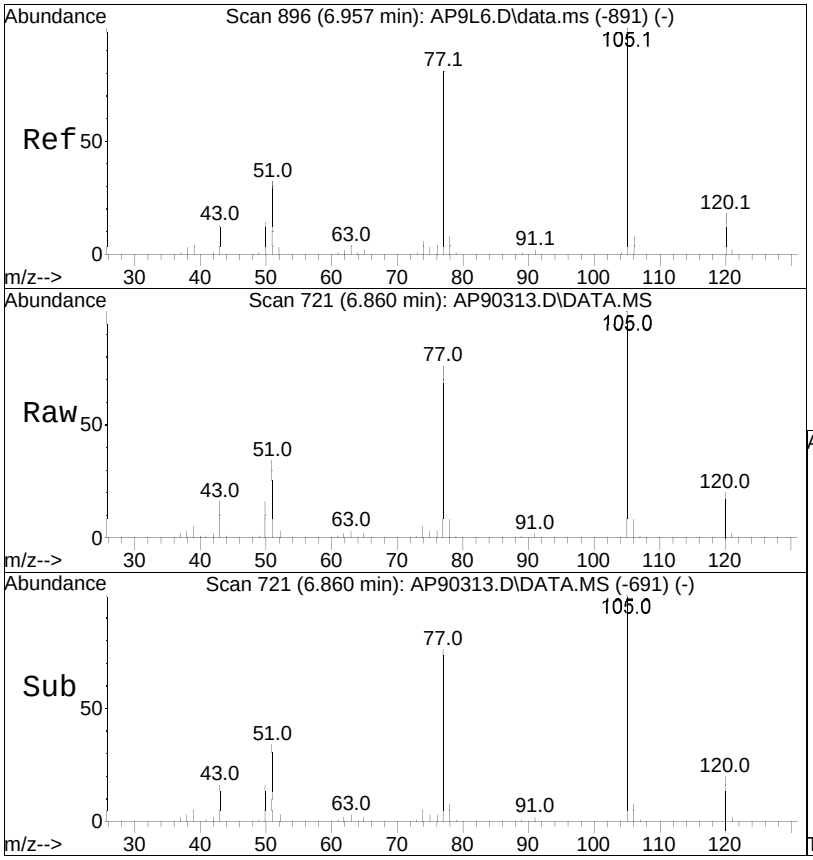


#28
Benzaldehyde
Concen: 4.46 ug/ml
RT: 5.773 min Scan# 593
Delta R.T. 0.000 min
Lab File: AP90313.D
Acq: 13 Mar 2025 11:27 am

Tgt Ion:105 Resp: 60719

Ion	Ratio	Lower	Upper
105	100		
77	100.2	82.2	123.4

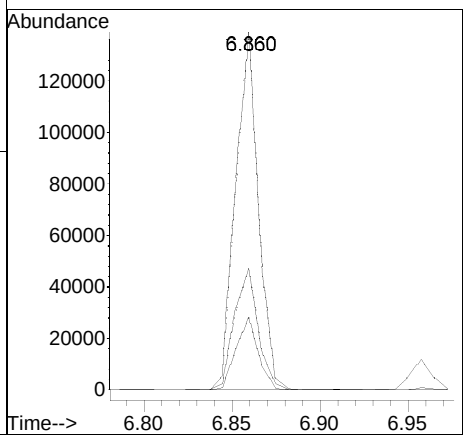


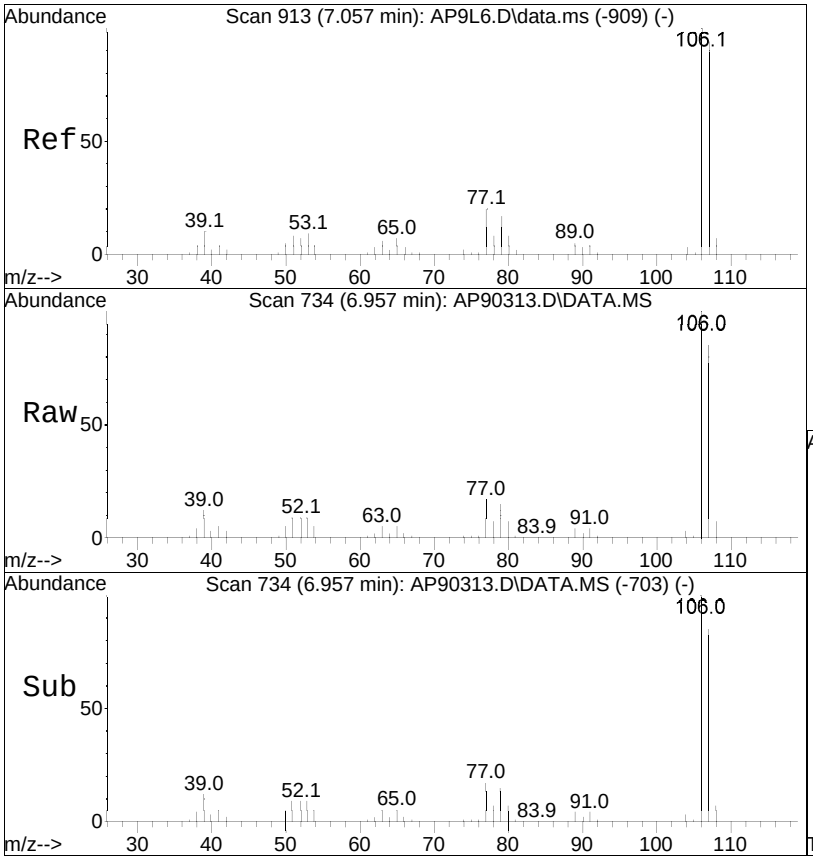


#29
Acetophenone
Concen: 5.27 ug/ml
RT: 6.860 min Scan# 721
Delta R.T. 0.000 min
Lab File: AP90313.D
Acq: 13 Mar 2025 11:27 am

Tgt Ion:105 Resp: 123781

Ion	Ratio	Lower	Upper
105	100		
120	20.0	20.5	30.7#
51	36.1	34.9	52.3

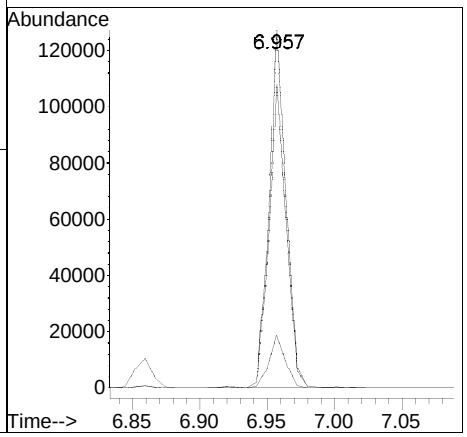


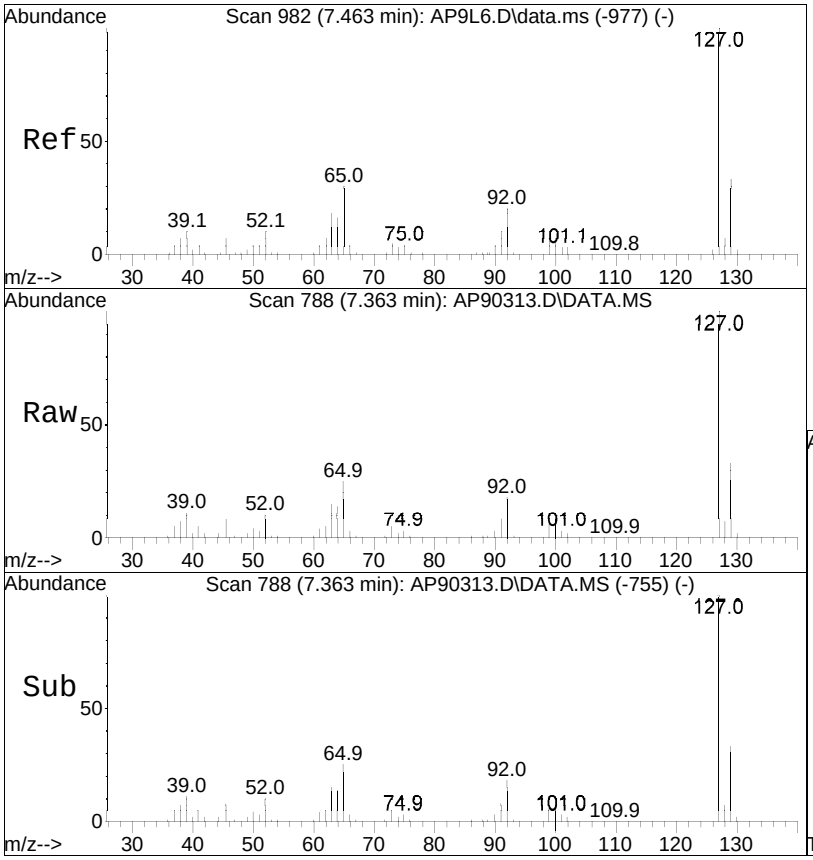


#30
m-Toluidine
Concen: 5.05 ug/ml
RT: 6.957 min Scan# 734
Delta R.T. 0.000 min
Lab File: AP90313.D
Acq: 13 Mar 2025 11:27 am

Tgt Ion:106 Resp: 109187

Ion	Ratio	Lower	Upper
106	100		
107	86.2	75.7	113.5
79	14.4	11.8	17.8

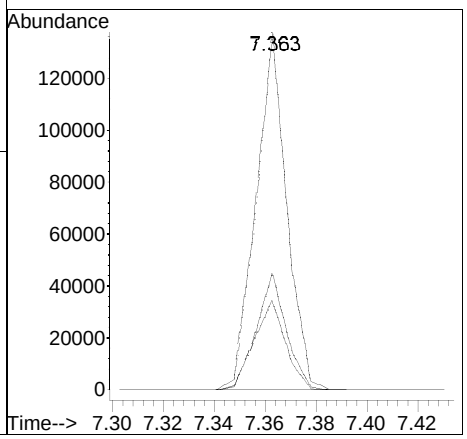


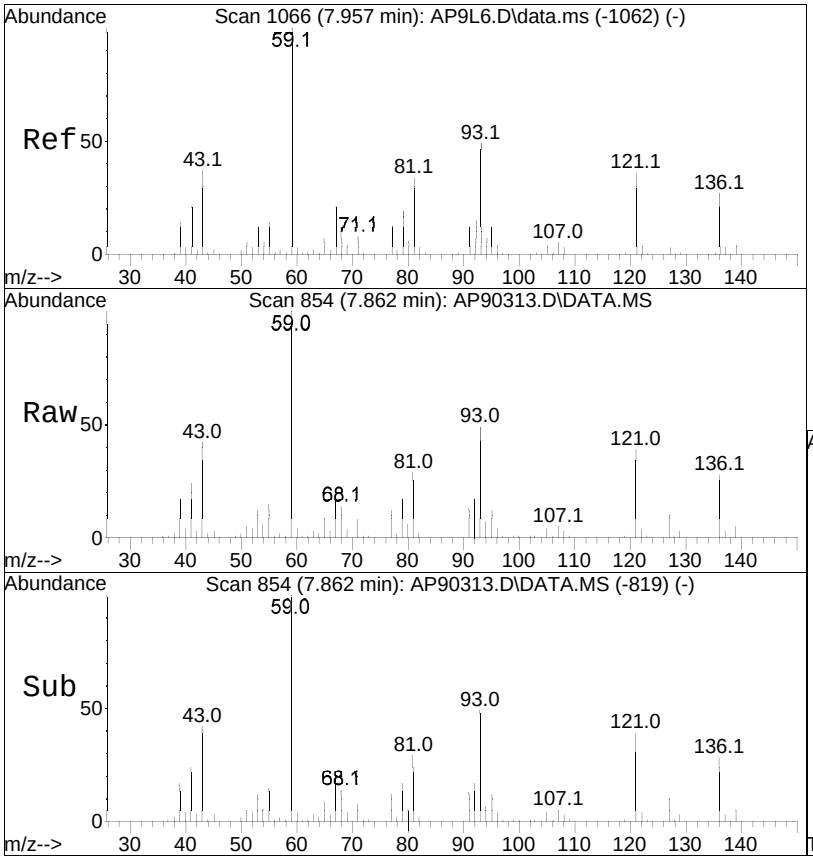


#31
2-Chloroaniline
Concen: 5.37 ug/ml
RT: 7.363 min Scan# 788
Delta R.T. 0.000 min
Lab File: AP90313.D
Acq: 13 Mar 2025 11:27 am

Tgt Ion:127 Resp: 113486

Ion	Ratio	Lower	Upper
127	100		
129	32.1	25.9	38.9
65	26.0	26.3	39.5#

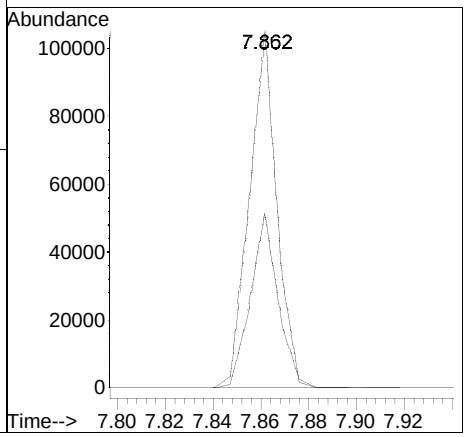


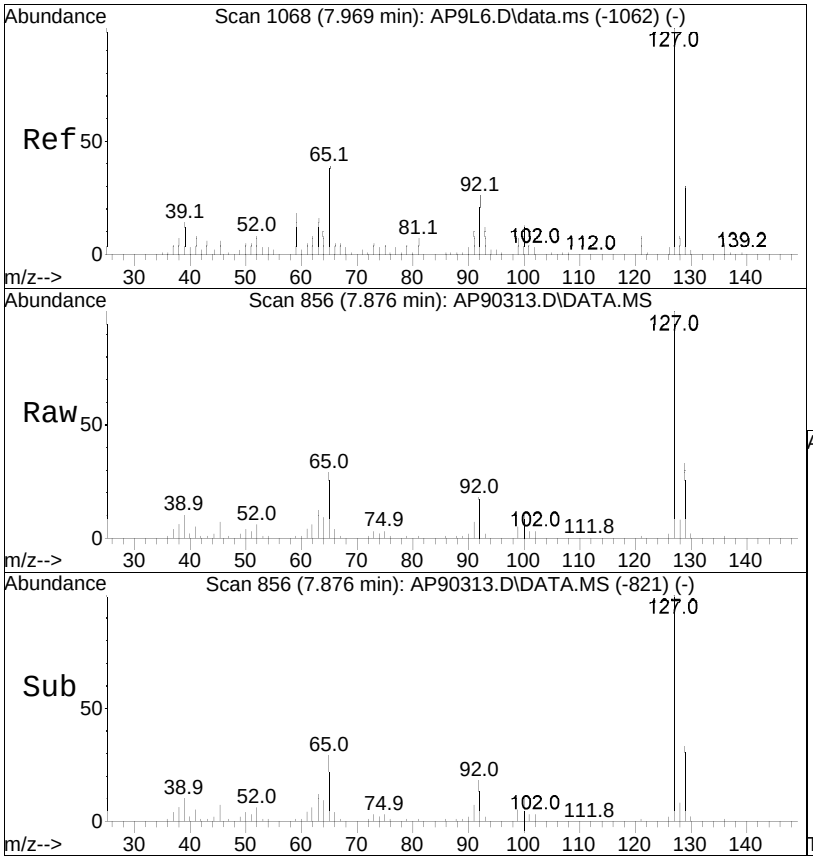


#56
a-Terpineol
Concen: 5.60 ug/ml
RT: 7.862 min Scan# 854
Delta R.T. 0.000 min
Lab File: AP90313.D
Acq: 13 Mar 2025 11:27 am

Tgt Ion: 59 Resp: 82706

Ion	Ratio	Lower	Upper
59	100		
93	50.3	35.6	53.4

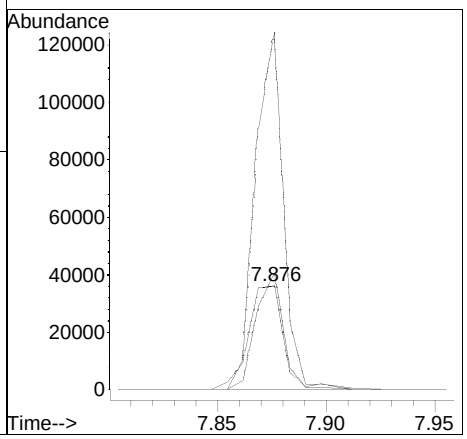


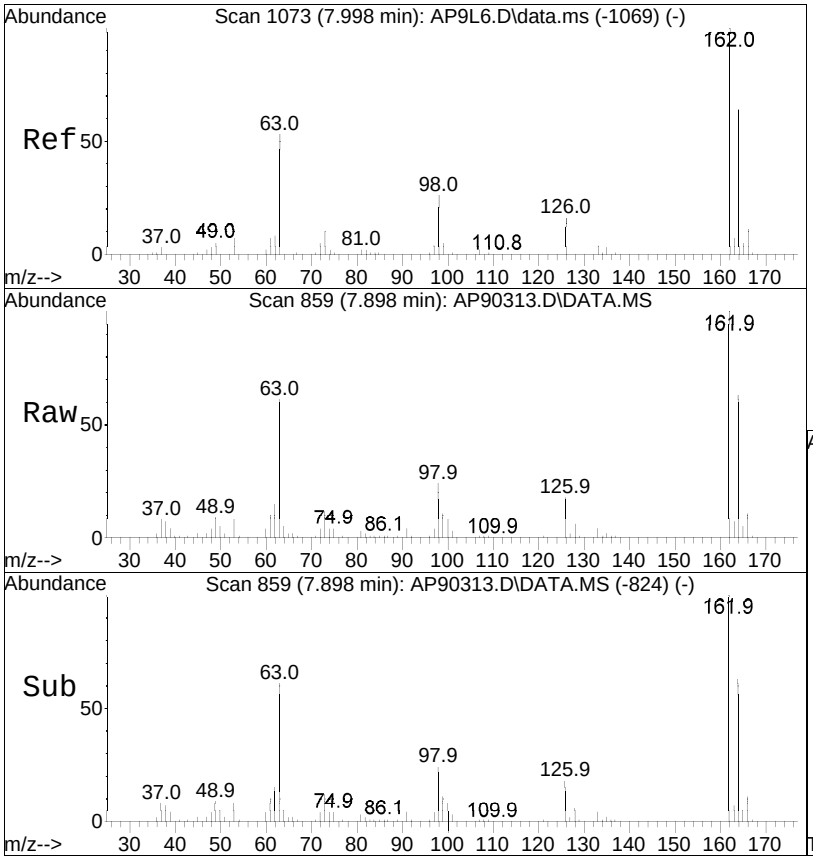


#57
3-Chloroaniline
Concen: 5.37 ug/ml
RT: 7.876 min Scan# 856
Delta R.T. 0.000 min
Lab File: AP90313.D
Acq: 13 Mar 2025 11:27 am

Tgt Ion: 65 Resp: 40236

Ion	Ratio	Lower	Upper
65	100		
127	274.1	243.2	364.8
129	87.8	78.8	118.2

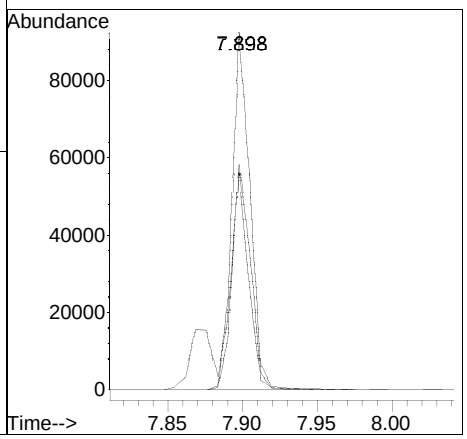


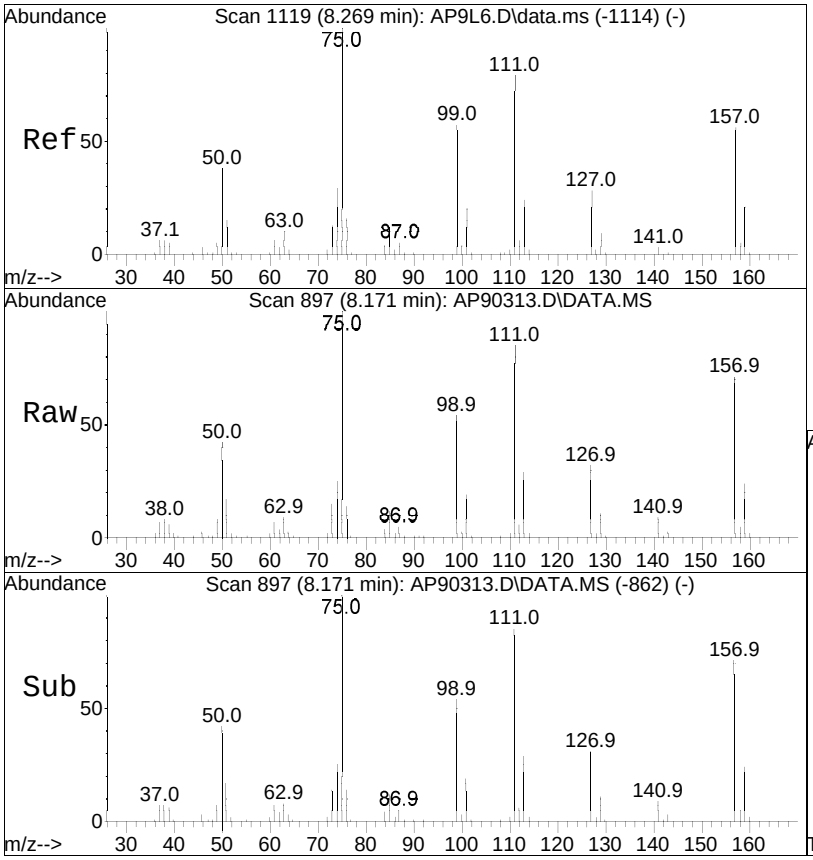


#58
2,6-Dichlorophenol
Concen: 5.30 ug/ml
RT: 7.898 min Scan# 859
Delta R.T. 0.000 min
Lab File: AP90313.D
Acq: 13 Mar 2025 11:27 am

Tgt Ion:162 Resp: 76839

Ion	Ratio	Lower	Upper
162	100		
164	64.1	51.1	76.7
63	80.1	60.8	91.2

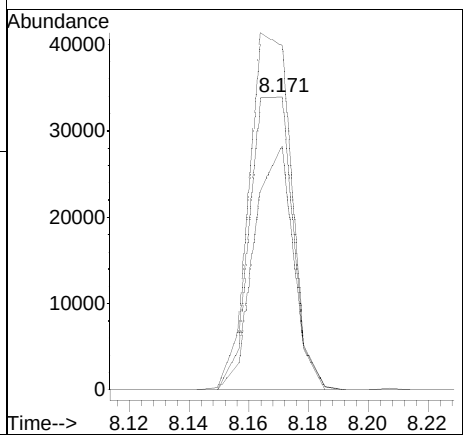


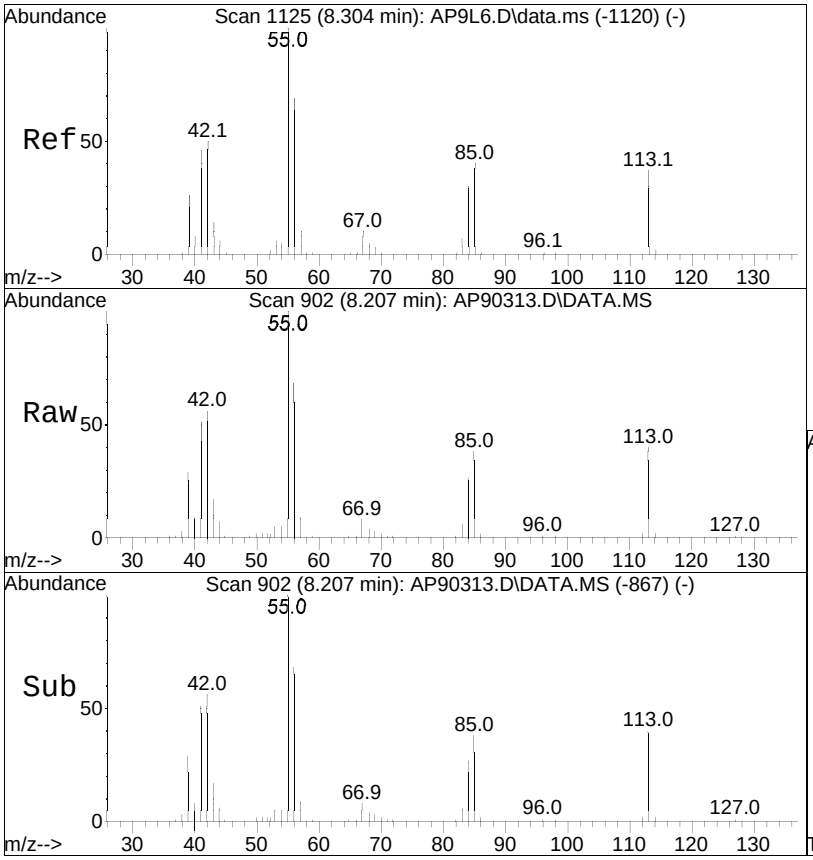


#59
1-chloro-2-nitrobenzene
Concen: 5.79 ug/ml
RT: 8.171 min Scan# 897
Delta R.T. 0.000 min
Lab File: AP90313.D
Acq: 13 Mar 2025 11:27 am

Tgt Ion:111 Resp: 33604

Ion	Ratio	Lower	Upper
111	100		
157	76.1	0.0	0.0#
75	120.7	28.2	42.2#

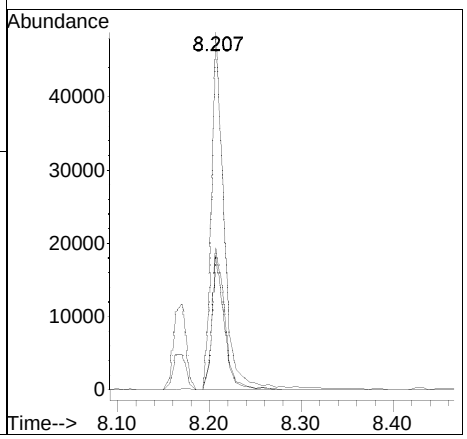


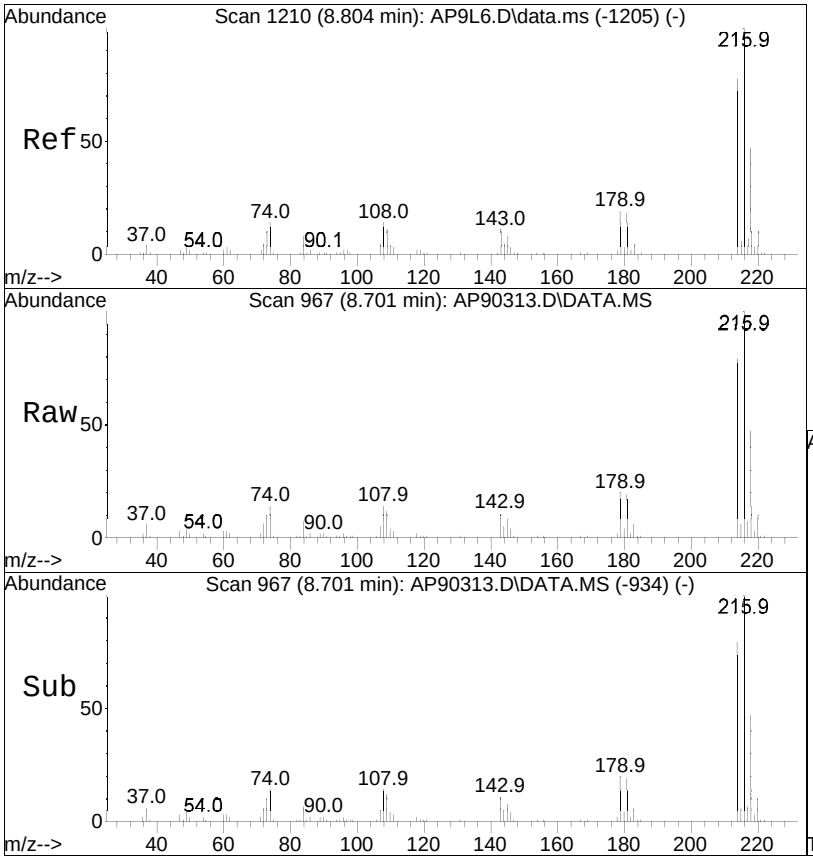


#60
Caprolactam
Concen: 5.30 ug/ml
RT: 8.207 min Scan# 902
Delta R.T. 0.000 min
Lab File: AP90313.D
Acq: 13 Mar 2025 11:27 am

Tgt Ion: 55 Resp: 46849

Ion	Ratio	Lower	Upper
55	100		
85	36.2	19.8	29.6#
113	39.8	29.6	44.4

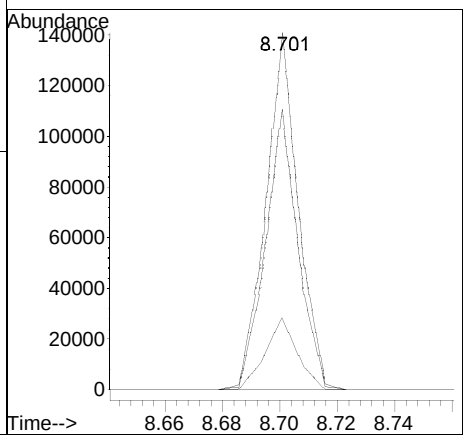


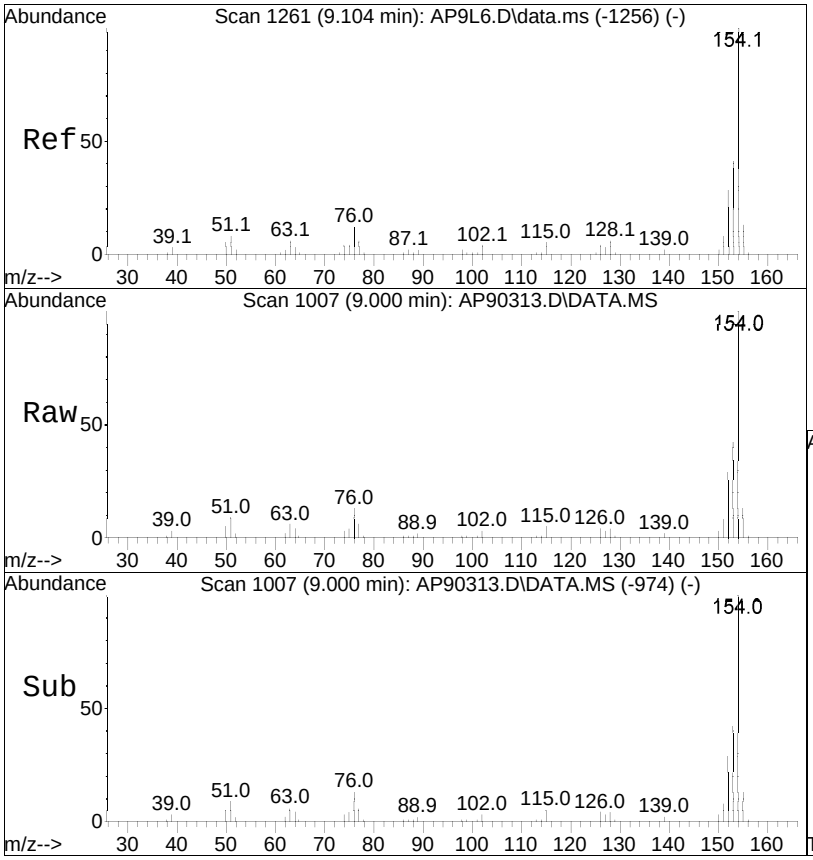


#61
1,2,4,5-Tetrachlorobenzene
Concen: 5.09 ug/ml
RT: 8.701 min Scan# 967
Delta R.T. 0.000 min
Lab File: AP90313.D
Acq: 13 Mar 2025 11:27 am

Tgt Ion:216 Resp: 109817

Ion	Ratio	Lower	Upper
216	100		
214	78.4	63.7	95.5
179	20.1	19.0	28.6

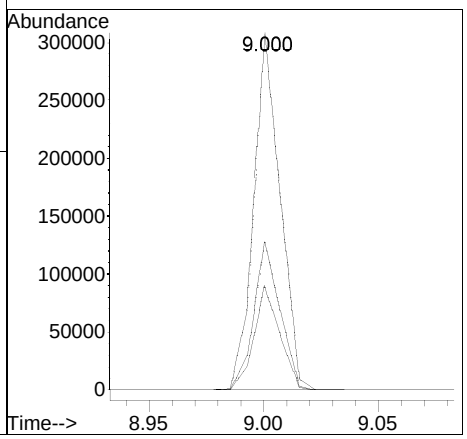


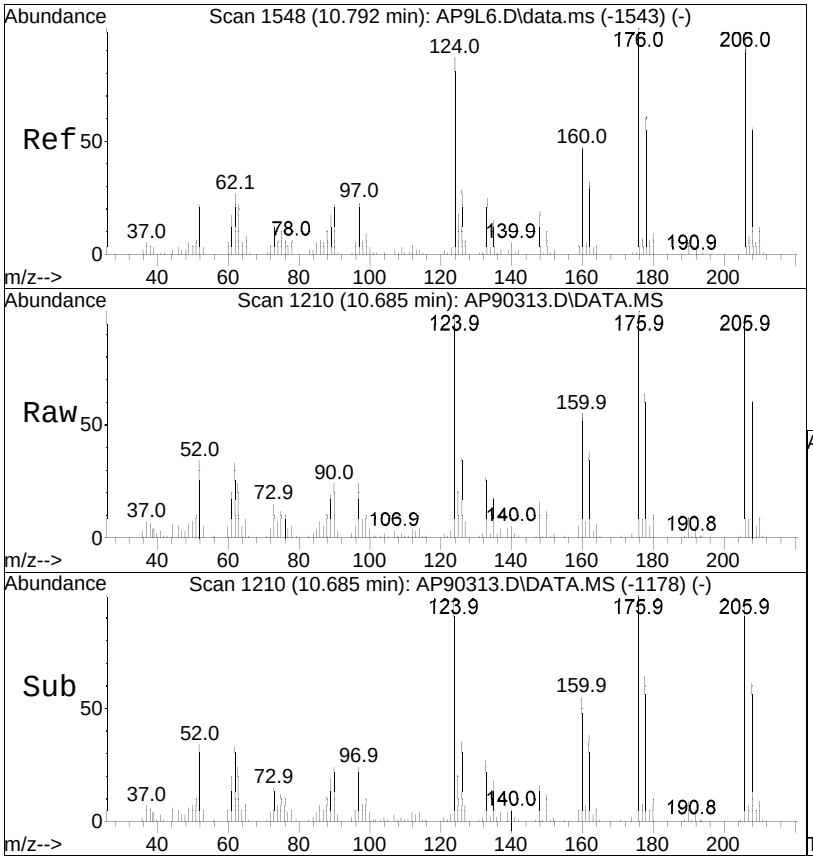


#62
Biphenyl
Concen: 5.12 ug/ml
RT: 9.000 min Scan# 1007
Delta R.T. 0.000 min
Lab File: AP90313.D
Acq: 13 Mar 2025 11:27 am

Tgt Ion:154 Resp: 243731

Ion	Ratio	Lower	Upper
154	100		
153	41.4	32.3	48.5
152	28.9	22.5	33.7

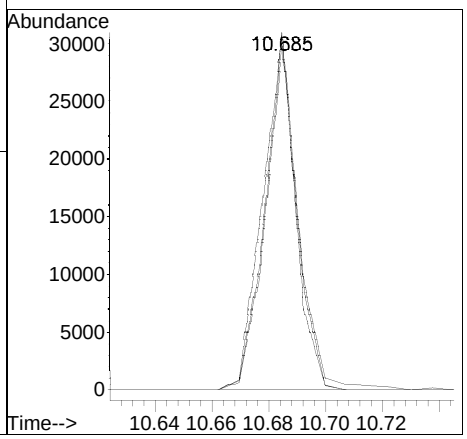


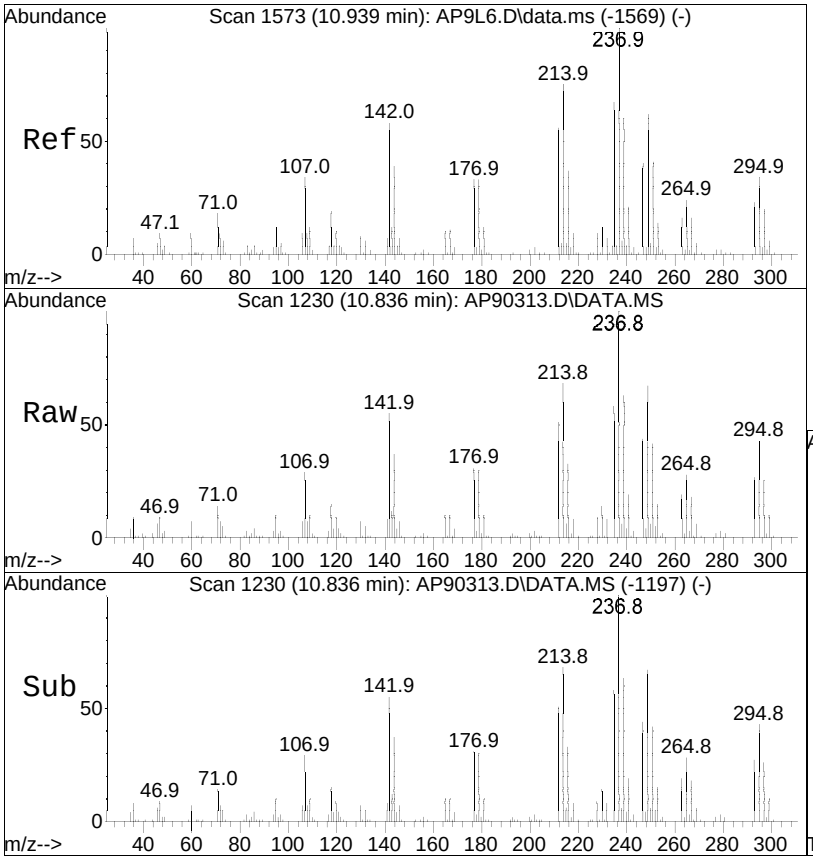


#84
Dichloran
Concen: 5.77 ug/ml
RT: 10.685 min Scan# 1210
Delta R.T. 0.000 min
Lab File: AP90313.D
Acq: 13 Mar 2025 11:27 am

Tgt Ion:206 Resp: 22696

Ion	Ratio	Lower	Upper
206	100		
176	109.1	104.6	157.0
124	107.3	130.5	195.7#

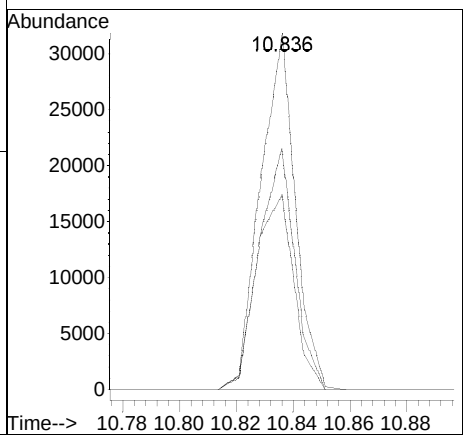


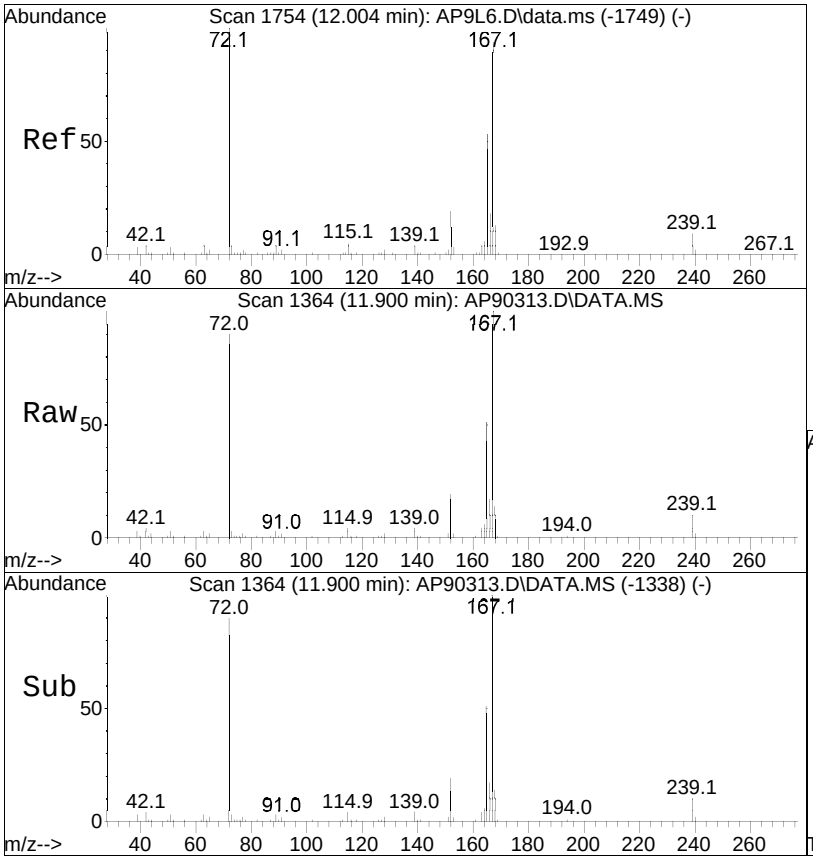


#85
Pentachloronitrobenzene
Concen: 5.58 ug/ml
RT: 10.836 min Scan# 1230
Delta R.T. 0.000 min
Lab File: AP90313.D
Acq: 13 Mar 2025 11:27 am

Tgt Ion:237 Resp: 26939

Ion	Ratio	Lower	Upper
237	100		
142	60.0	77.0	115.4#
214	69.3	58.2	87.4

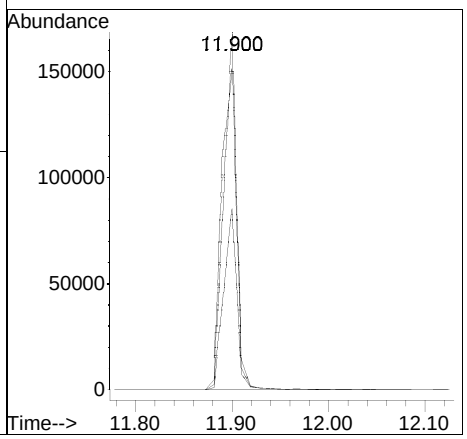




#99
Diphenamid
Concen: 5.55 ug/ml
RT: 11.900 min Scan# 1364
Delta R.T. 0.000 min
Lab File: AP90313.D
Acq: 13 Mar 2025 11:27 am

Tgt Ion:167 Resp: 154575

Ion	Ratio	Lower	Upper
167	100		
72	102.9	109.7	164.5#
165	52.0	41.8	62.6



Manual Integration Report

Data Path	: I:\8270\SV106\250313RVT\	QMethod	: FS250311SV106.m
Data File	: AP90313.D	Operator	: SV106:jg
Date Inj'd	: 3/13/2025 11:27 am	Instrument	: SV 106
Sample	: WG2040166-4,32,,AP9 11152	Quant Date	: 3/13/2025 12:07 pm

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\250313RVT\
Data File : ADP0313.D
Acq On : 13 Mar 2025 11:50 am
Operator : SV106:jg
Sample : WG2040166-5,32,,ADP 11153 gmr0304B
Misc : WG2040166,,ical22075
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Mar 13 12:09:12 2025
Quant Method : I:\8270\SV106\250313RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 12:07:34 2025
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	101	0.00
33	t	1,4-Dioxane		0.548	0.453	17.3	98	0.00
34	T	n-Decane		1.700	1.615	5.0	104	0.00
86	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	104	0.00
87	T	Atrazine		0.366	0.312	14.8	97	0.00
100	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	104	0.00
101	T	n-Octadecane		0.458	0.450	1.7	107	0.00
102	T	Parathion	*	5.000	5.766	-15.3	122	0.00
103	T	3,3'-Dimethylbenzidine	*	5.000	4.306	13.9	101	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250313RVT\
Data File : ADP0313.D
Acq On : 13 Mar 2025 11:50 am
Operator : SV106:jg
Sample : WG2040166-5,32,,ADP 11153 gmr0304B
Misc : WG2040166,,ical22075
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Mar 13 12:09:12 2025
Quant Method : I:\8270\SV106\250313RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 12:07:34 2025
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
	Internal Standards						
32)	IS3_1,4-Dichlorobenzen...	6.351	152	59091	4.000	ug/ml	-0.02
86)	IS3_Acenaphthene-d10	9.551	164	132555	4.000	ug/ml	-0.02
100)	IS3_Phenanthrene-d10	10.988	188	278241	4.000	ug/ml	#-0.02
	System Monitoring Compounds						
	Target Compounds						Qvalue
33)	1,4-Dioxane	1.753	88	33456	4.133	ug/ml#	58
34)	n-Decane	6.249	57	119298	4.751	ug/ml#	37
87)	Atrazine	10.761	200	51647	4.264	ug/ml	95
101)	n-Octadecane	10.973	57	156393	4.909	ug/ml#	1
102)	Parathion	11.779	109	23262	5.766	ug/ml#	94
103)	3,3'-Dimethylbenzidine	13.054	212	201668	4.306	ug/ml	99

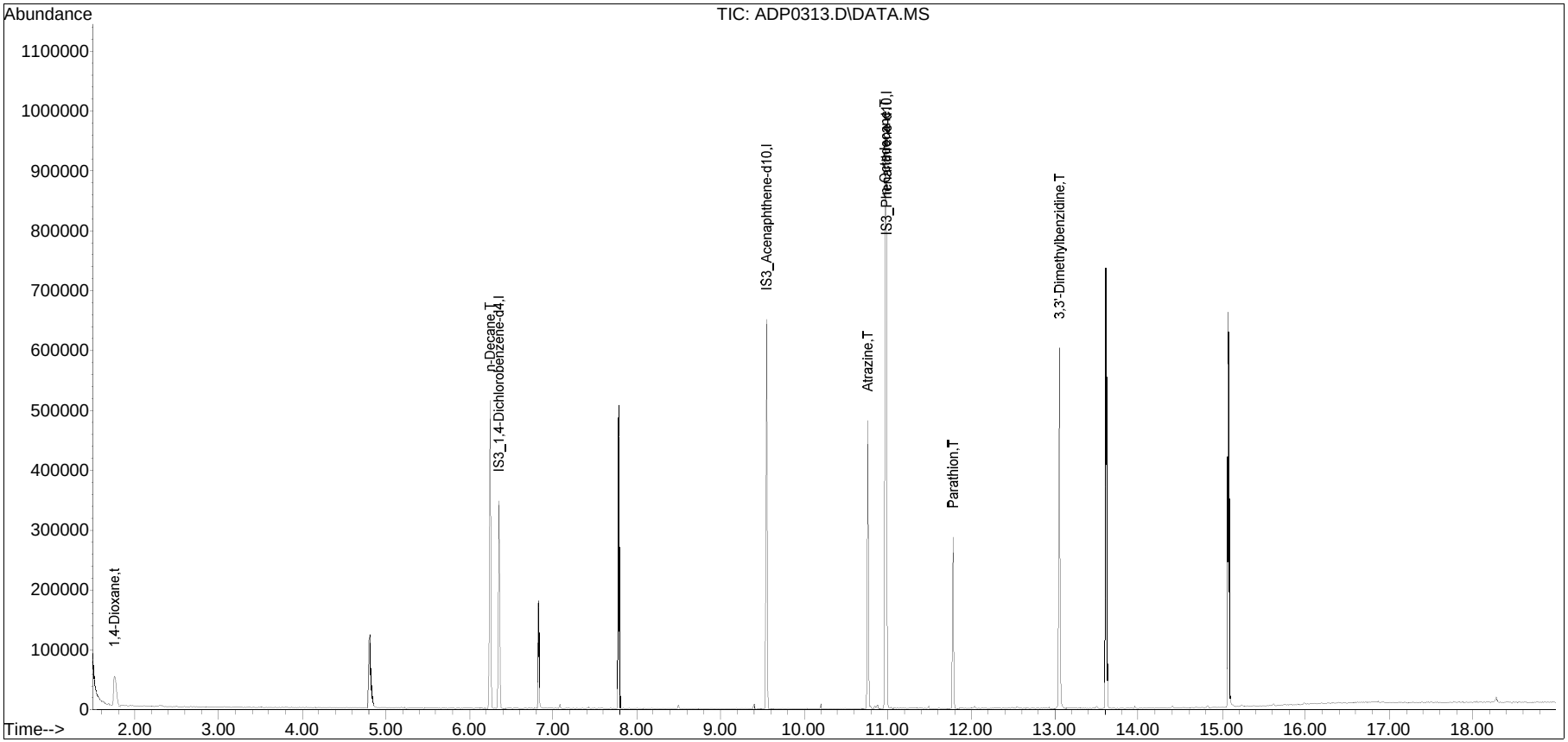
(#) = qualifier out of range (m) = manual integration (+) = signals summed

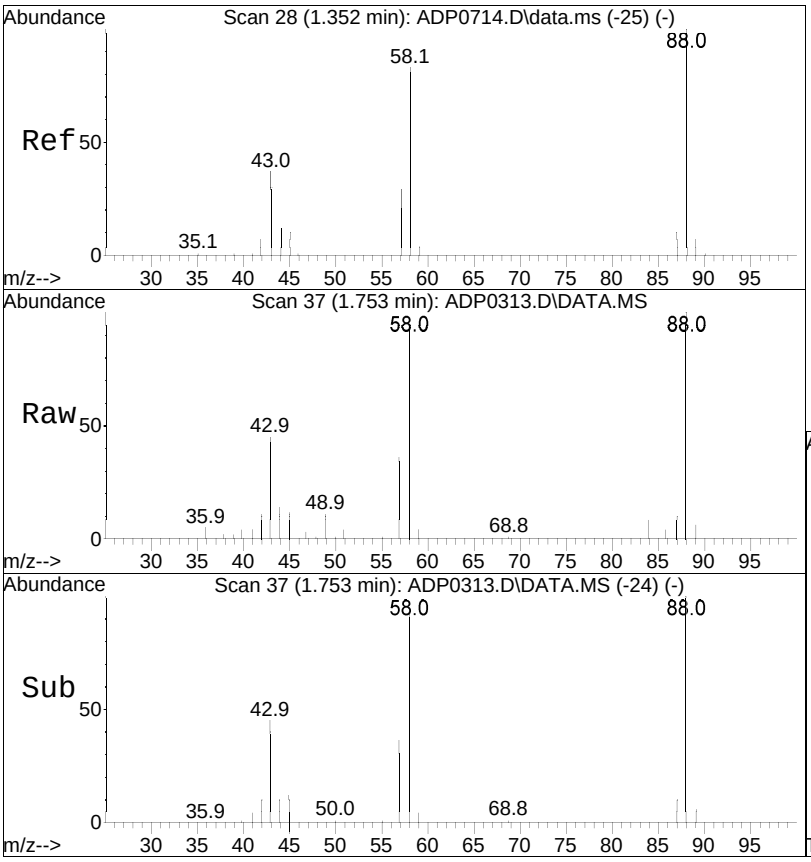
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250313RVT\
Data File : ADP0313.D
Acq On : 13 Mar 2025 11:50 am
Operator : SV106:jg
Sample : WG2040166-5,32,,ADP 11153 gmr0304B
Misc : WG2040166,,ical22075
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Mar 13 12:09:12 2025
Quant Method : I:\8270\SV106\250313RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 12:07:34 2025
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

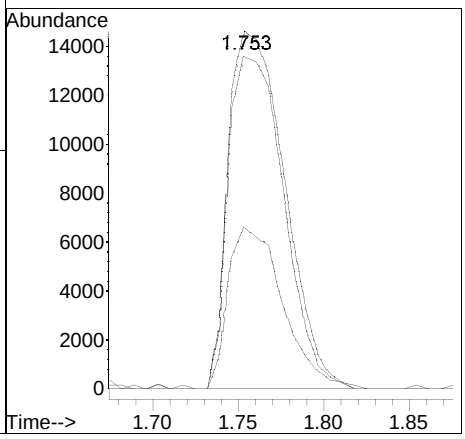


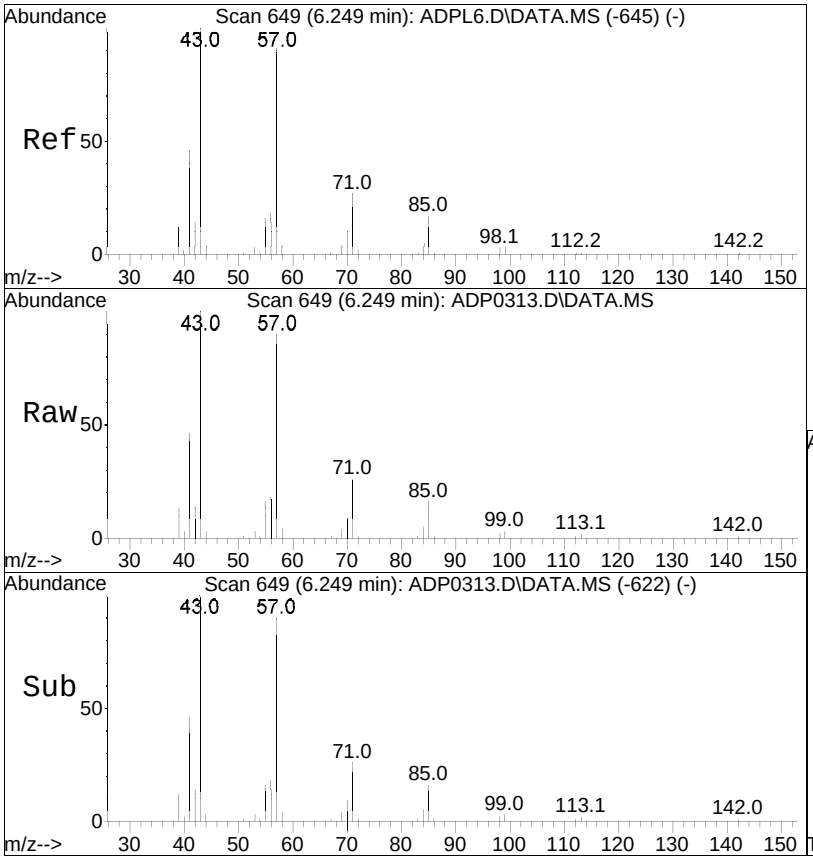


#33
1,4-Dioxane
Concen: 4.13 ug/ml
RT: 1.753 min Scan# 37
Delta R.T. -0.007 min
Lab File: ADP0313.D
Acq: 13 Mar 2025 11:50 am

Tgt Ion: 88 Resp: 33456

Ion	Ratio	Lower	Upper
88	100		
58	91.4	44.8	67.2#
43	43.7	22.4	33.6#

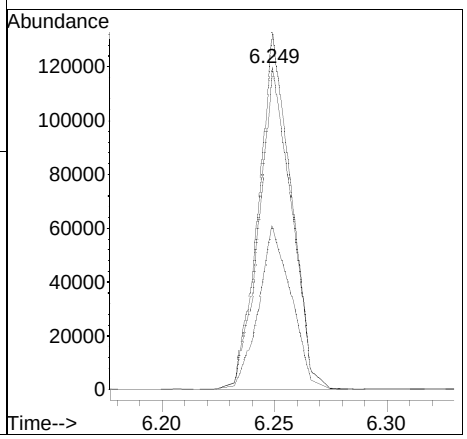


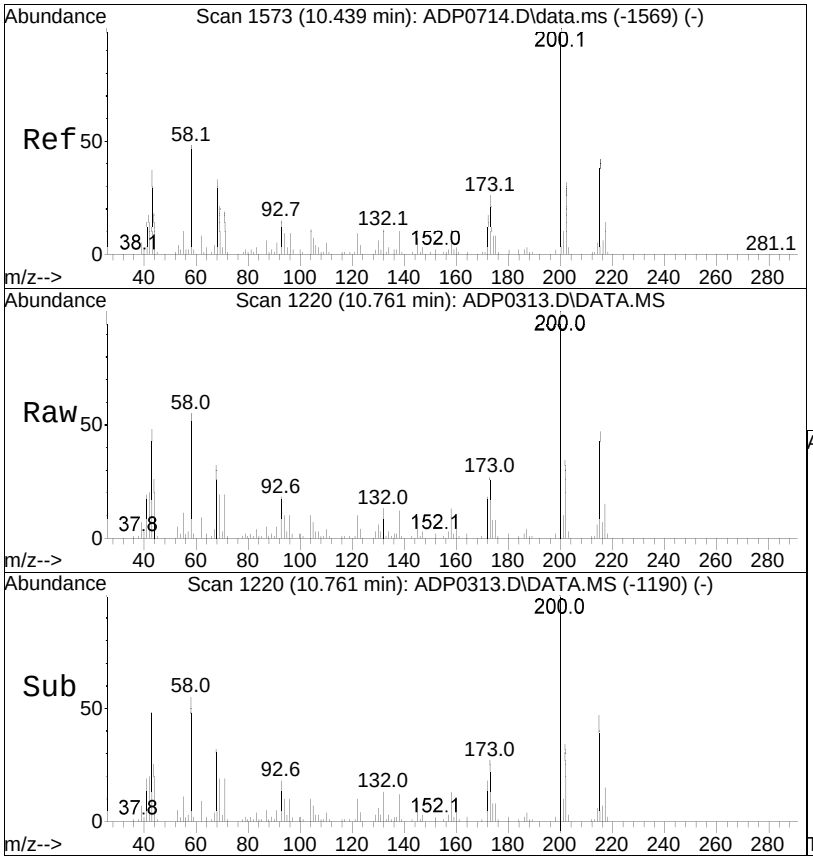


#34
n-Decane
Concen: 4.75 ug/ml
RT: 6.249 min Scan# 649
Delta R.T. -0.023 min
Lab File: ADP0313.D
Acq: 13 Mar 2025 11:50 am

Tgt Ion: 57 Resp: 119298

Ion	Ratio	Lower	Upper
57	100		
43	110.2	0.2	0.2#
41	51.3	0.2	0.2#

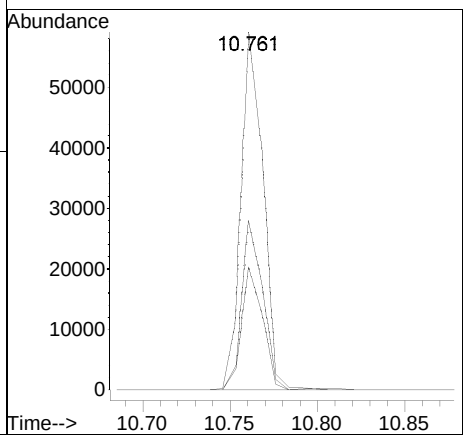


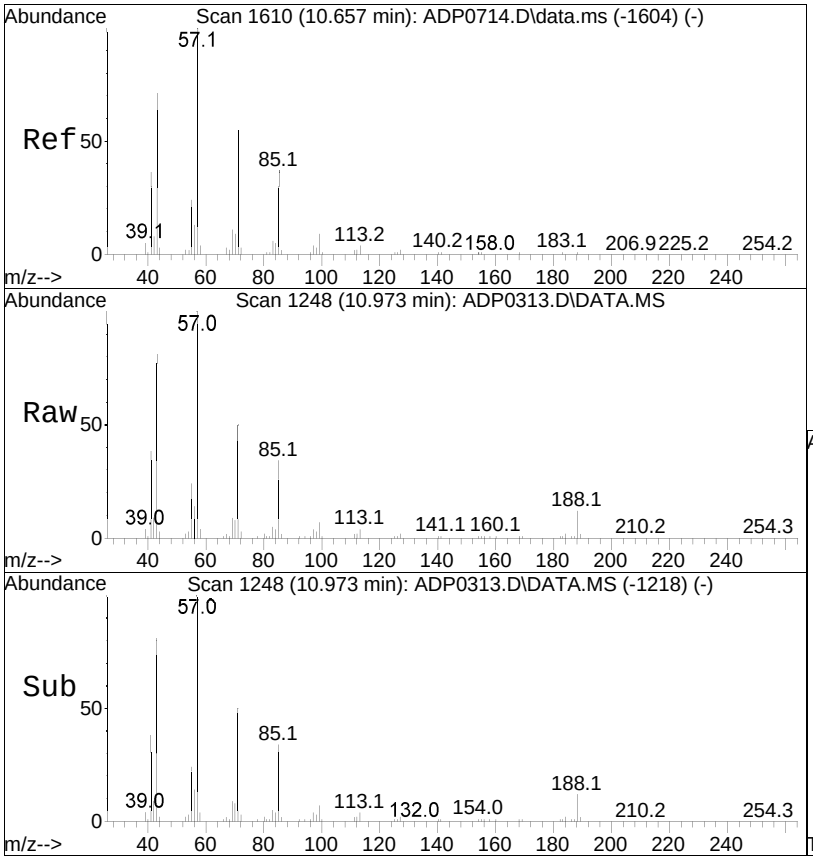


#87
Atrazine
Concen: 4.26 ug/ml
RT: 10.761 min Scan# 1220
Delta R.T. -0.022 min
Lab File: ADP0313.D
Acq: 13 Mar 2025 11:50 am

Tgt Ion:200 Resp: 51647

Ion	Ratio	Lower	Upper
200	100		
202	32.9	25.8	38.6
215	45.3	40.2	60.4

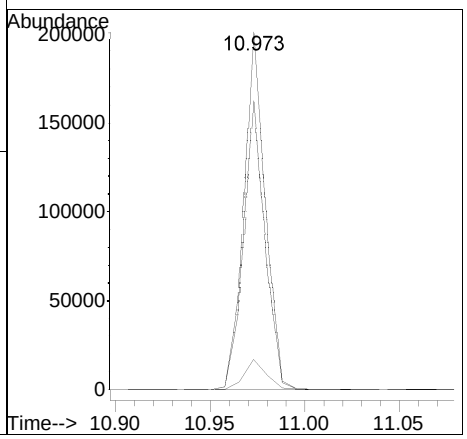


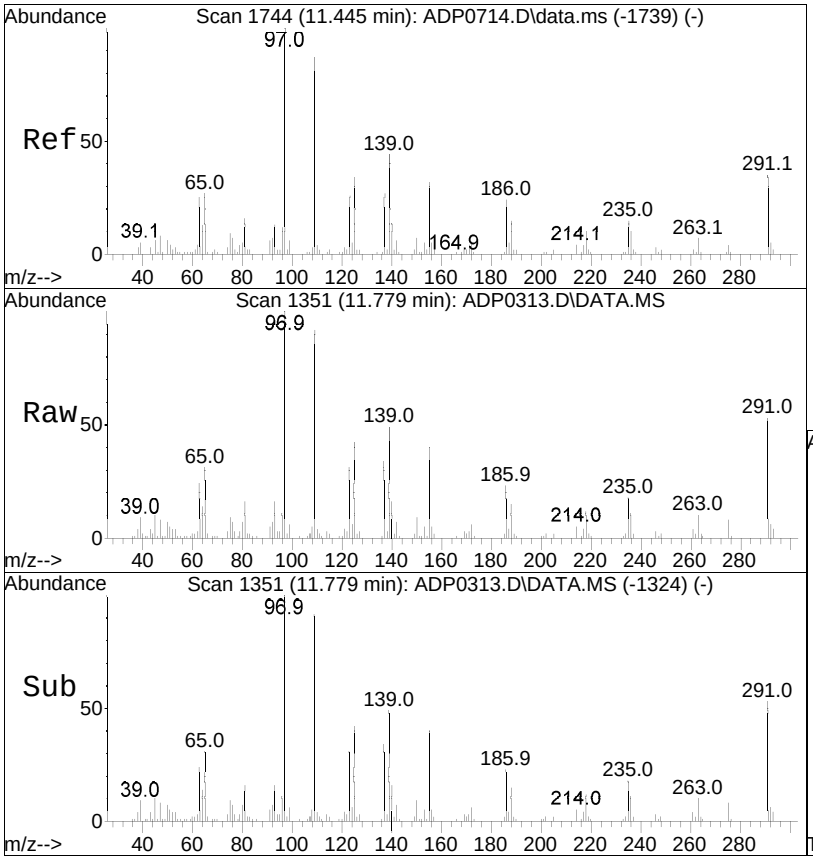


#101
n-Octadecane
Concen: 4.91 ug/ml
RT: 10.973 min Scan# 1248
Delta R.T. -0.022 min
Lab File: ADP0313.D
Acq: 13 Mar 2025 11:50 am

Tgt Ion: 57 Resp: 156393

Ion	Ratio	Lower	Upper
57	100		
43	81.8	9.0	13.6#
70	8.8	0.2	0.2#

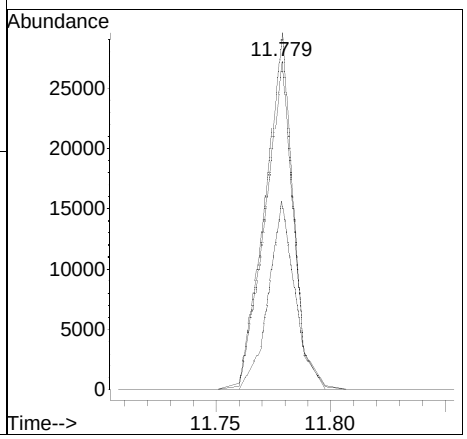


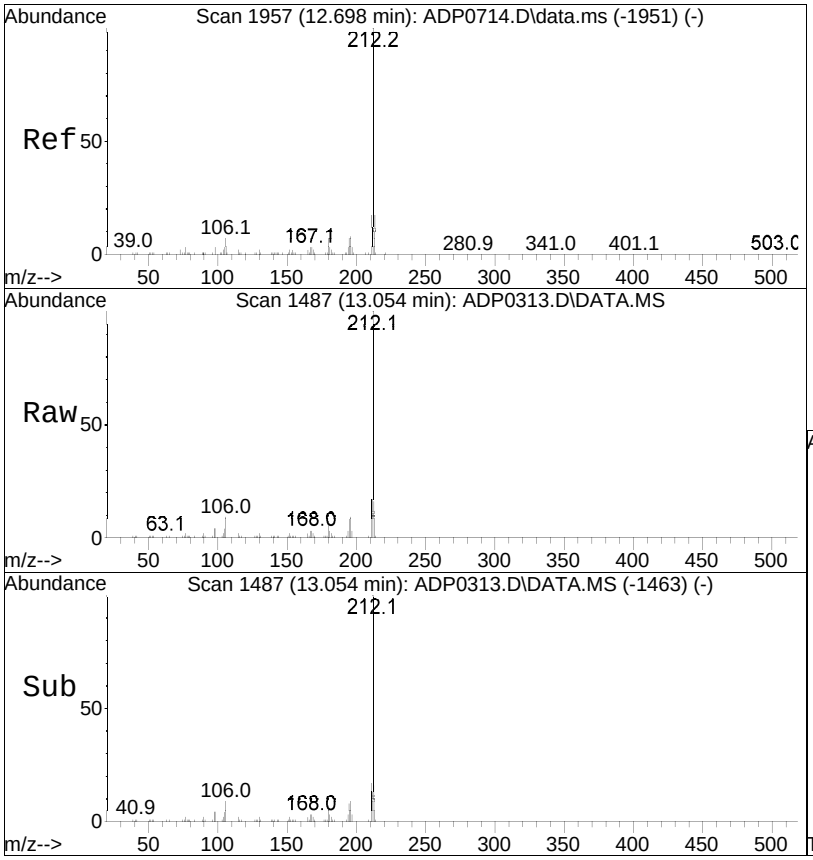


#102
Parathion
Concen: 5.77 ug/ml
RT: 11.779 min Scan# 1351
Delta R.T. -0.022 min
Lab File: ADP0313.D
Acq: 13 Mar 2025 11:50 am

Tgt Ion:109 Resp: 23262

Ion	Ratio	Lower	Upper
109	100		
97	107.8	87.4	131.2
291	53.6	34.2	51.2#

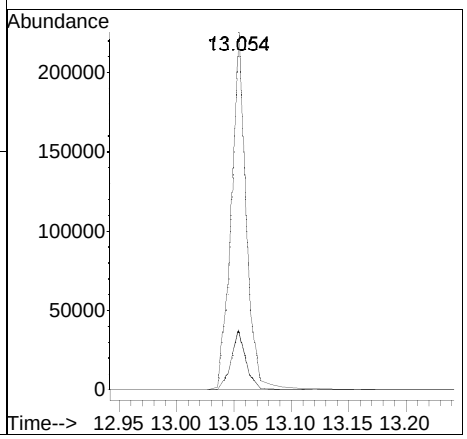




#103
3,3'-Dimethylbenzidine
Concen: 4.31 ug/ml
RT: 13.054 min Scan# 1487
Delta R.T. -0.029 min
Lab File: ADP0313.D
Acq: 13 Mar 2025 11:50 am

Tgt Ion:212 Resp: 201668

Ion	Ratio	Lower	Upper
212	100		
211	16.9	12.9	19.3
213	16.7	13.2	19.8



Manual Integration Report

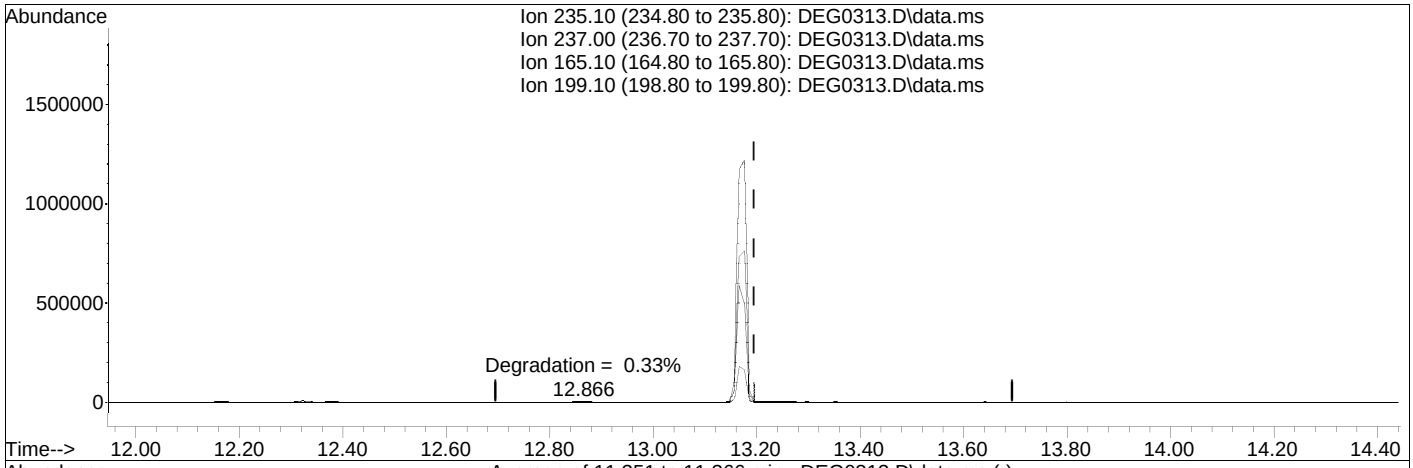
Data Path	: I:\8270\SV106\250313RVT\	QMethod	: FS250311SV106.m
Data File	: ADP0313.D	Operator	: SV106:jg
Date Inj'd	: 3/13/2025 11:50 am	Instrument	: SV 106
Sample	: WG2040166-5,32,,ADP 11153	Quant Date	: 3/13/2025 12:10 pm

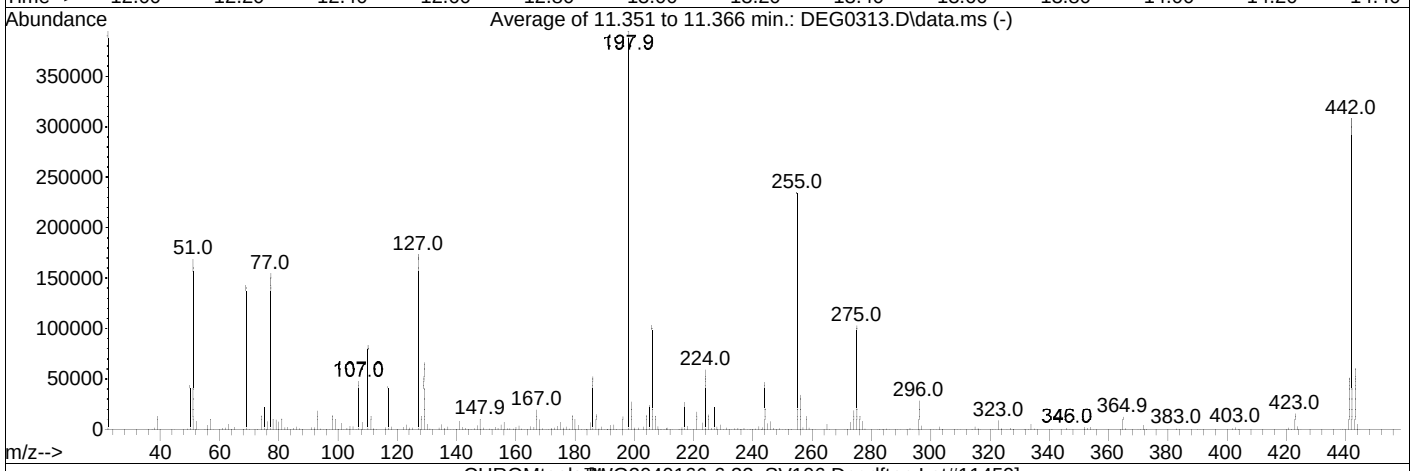
There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\250313RVT\
Data File : DEG0313.D
Acq On : 13 Mar 2025 10:40 am
Operator : SV106:jg
Sample : WG2040166-2,32,,SV106 Degdftpp Lot#11459 (Sig #1); wg-1,32,,SV106
Misc : WG2040166,,ical22075 (Sig #1); wg,,ical22075 (Sig #2)
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Mar 13 11:00:37 2025
Quant Method : I:\8270\SV106\250313RVT\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 06 00:46:17 2025
Response via : Initial Calibration





CHROMtools [WG2040166-6,32,,SV106 Degdftpp Lot#11459]

(6) DDT (T)

13.176min (-0.019) 252.20

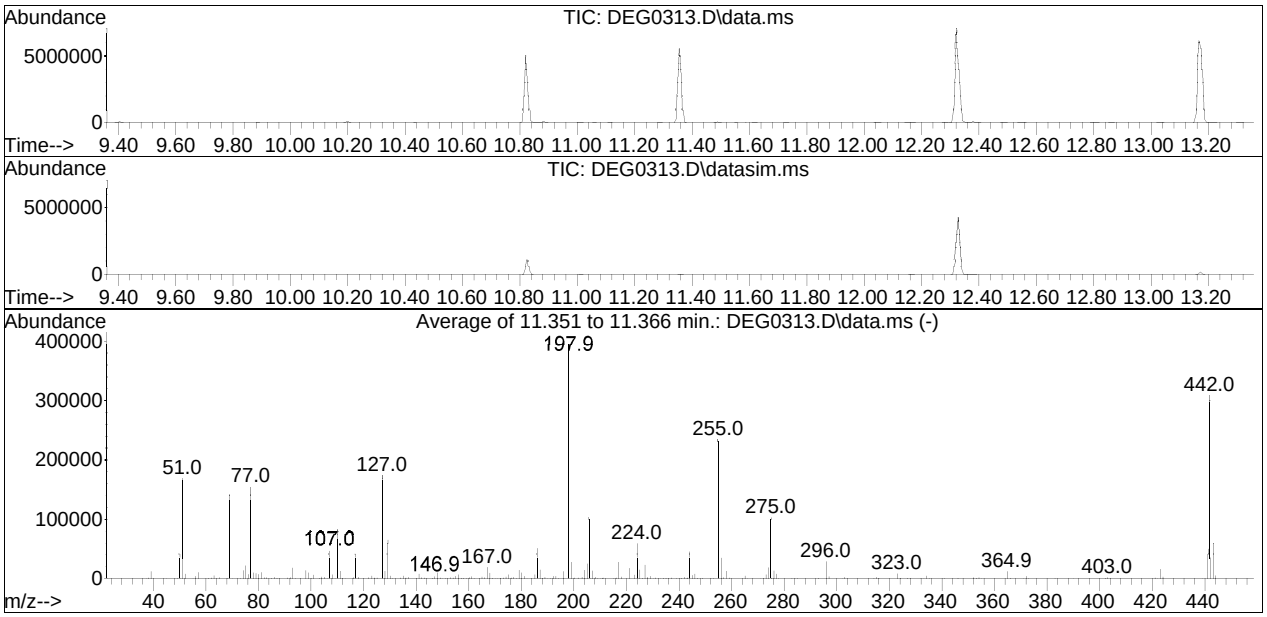
response 1537349

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.30	63.77
165.10	44.50	43.51
199.10	14.80	15.18

Data Path : I:\8270\SV106\250313RVT\
Data File : DEG0313.D
Acq On : 13 Mar 2025 10:40 am
Operator : SV106:gmr
Sample : WG2040166-1,32,,SV106 Degdftpp Lot#11459 (Sig #1); wg-1,32,,SV106
Misc : WG2040166,,ical22075 (Sig #1); wg,,ical22075 (Sig #2)
ALS Vial : 141 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p

Method : I:\8270\SV106\250313RVT\FS250311SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Mar 13 12:07:34 2025



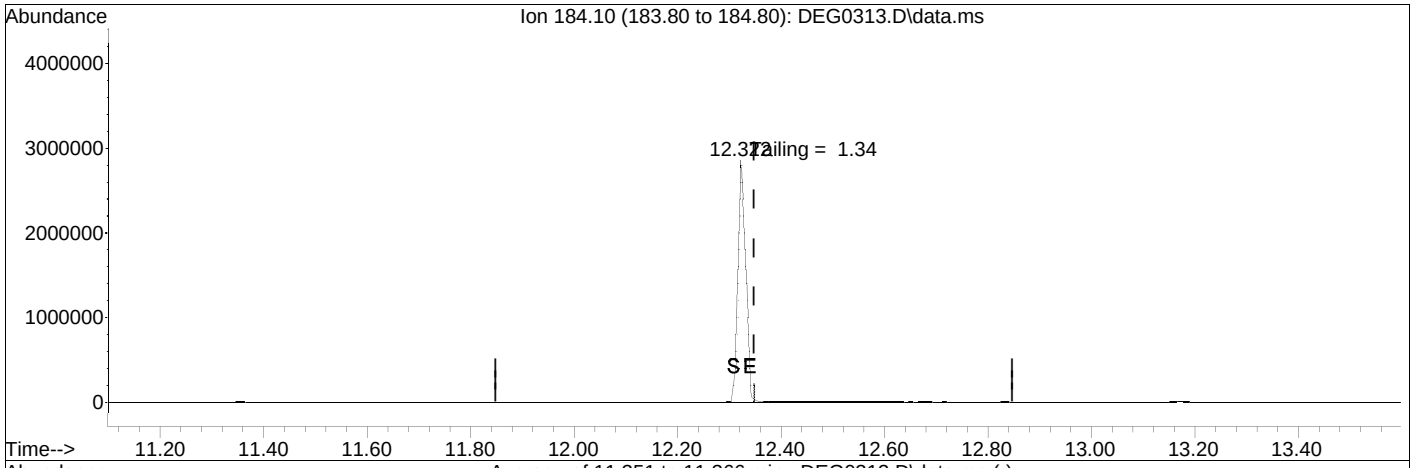
Spectrum Information: Average of 11.351 to 11.366 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	42.8	168808	PASS
68	69	0.00	2	0.7	1042	PASS
69	69	100	100	100.0	142216	PASS
70	69	0.00	2	0.5	663	PASS
127	198	10	80	43.9	173336	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	394819	PASS
199	198	5	9	6.9	27338	PASS
275	198	10	60	26.0	102685	PASS
365	198	1	100	3.1	12119	PASS
441	442	0.01	24	16.6	50955	PASS
442	198	50	100	78.0	307797	PASS
443	442	15	24	19.6	60189	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\250313RVT\
Data File : DEG0313.D
Acq On : 13 Mar 2025 10:40 am
Operator : SV106:jg
Sample : WG2040166-6,32,,SV106 Degdftpp Lot#11459 (Sig #1); wg-1,32,,SV106
Misc : WG2040166,,ical22075 (Sig #1); wg,,ical22075 (Sig #2)
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Mar 13 11:00:37 2025
Quant Method : I:\8270\SV106\250313RVT\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 06 00:46:17 2025
Response via : Initial Calibration



CHROMtools [WG2040166-7,32,,SV106 Degdftpp Lot#11459]

(3) Benzidine (T)

12.322min (-0.026) 277.11

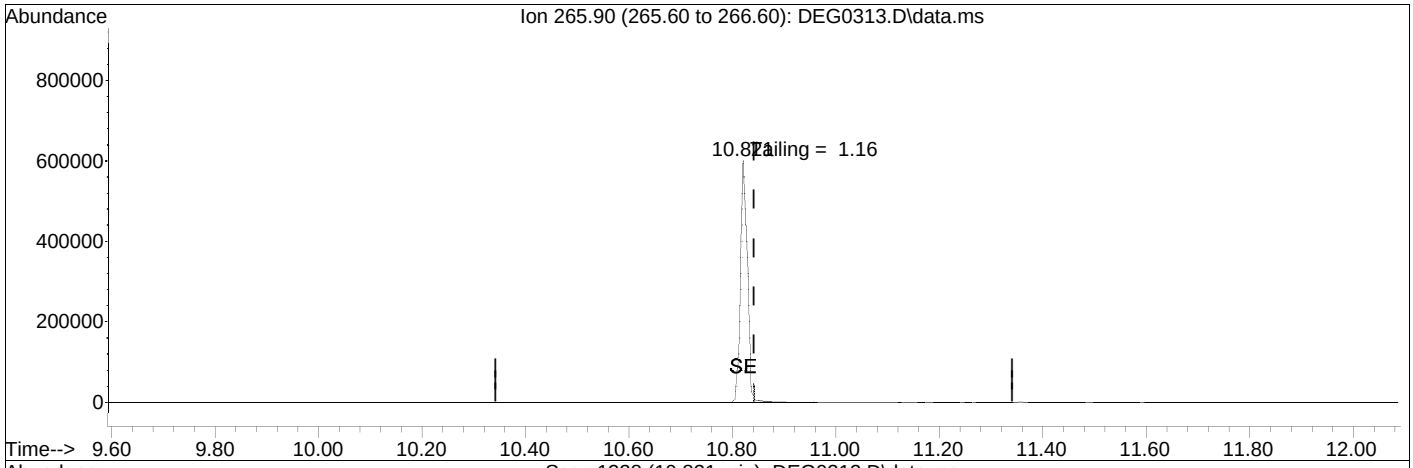
response 2820998

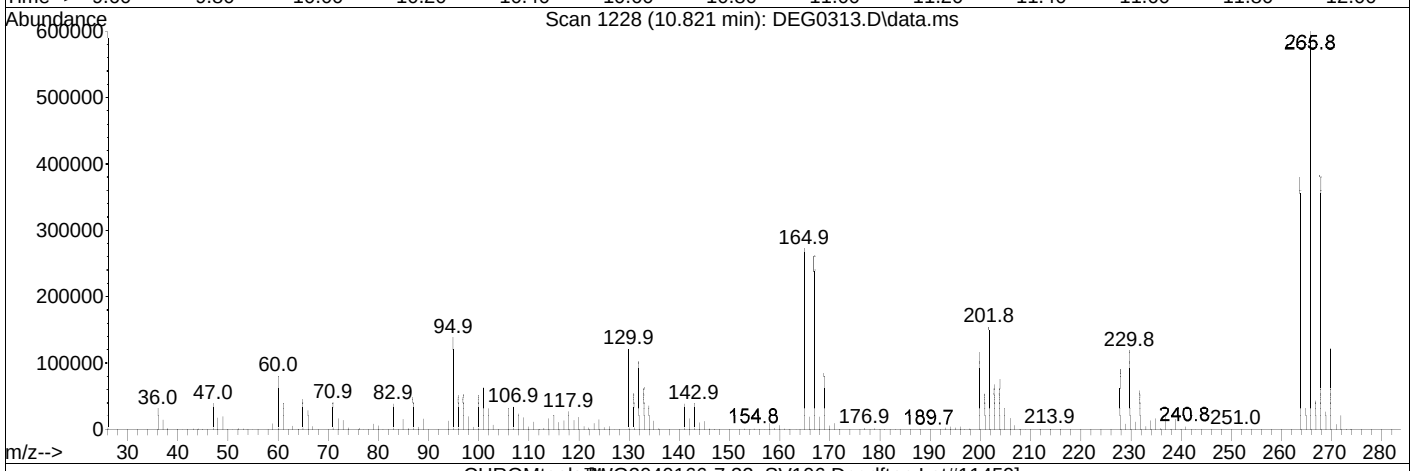
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\250313RVT\
Data File : DEG0313.D
Acq On : 13 Mar 2025 10:40 am
Operator : SV106:jg
Sample : WG2040166-7,32,,SV106 Degdftpp Lot#11459 (Sig #1); wg-1,32,,SV106
Misc : WG2040166,,ical22075 (Sig #1); wg,,ical22075 (Sig #2)
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Mar 13 11:00:37 2025
Quant Method : I:\8270\SV106\250313RVT\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 06 00:46:17 2025
Response via : Initial Calibration





CHROMtools [WG2040166-7,32,,SV106 Degdftpp Lot#11459]

(1) Pentachlorophenol (T)

10.821min (-0.021) 245.58

response 515814

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Semivolatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250313RVT\
Data File : 038207-1.D
Acq On : 13 Mar 2025 1:27 pm
Operator : SV106:jg
Sample : WG2038207-1,32,,gmr
Misc : WG2040166,WG2038207,ical22075
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 13 17:47:08 2025
Quant Method : I:\8270\SV106\250313RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 16:35:56 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250313RVT\ABN0313.D
: 2 - I:\8270\SV106\250313RVT\ADP0313.D
: 3 - I:\8270\SV106\250313RVT\AP90313.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.351	152	65082	4.000	ug/ml		0.00
Standard Area 1 = 59871			Recovery = 108.70%				
27) IS2_1,4-Dichlorobenzen...	6.351	152	65082	4.000	ug/ml		0.00
Standard Area 3 = 57135			Recovery = 113.91%				
32) IS3_1,4-Dichlorobenzen...	6.351	152	65082	4.000	ug/ml		0.00
Standard Area 2 = 59091			Recovery = 110.14%				
35) IS1_Naphthalene-d8	7.783	136	242428	4.000	ug/ml	#	0.00
Standard Area 1 = 230532			Recovery = 105.16%				
55) IS2_Naphthalene-d8	7.783	136	242428	4.000	ug/ml	#	0.00
Standard Area 3 = 214914			Recovery = 112.80%				
63) IS1_Acenaphthene-d10	9.551	164	148669	4.000	ug/ml		0.00
Standard Area 1 = 140631			Recovery = 105.72%				
83) IS2_Acenaphthene-d10	9.551	164	148669	4.000	ug/ml		0.00
Standard Area 3 = 134336			Recovery = 110.67%				
86) IS3_Acenaphthene-d10	9.551	164	148669	4.000	ug/ml		0.00
Standard Area 2 = 132555			Recovery = 112.16%				
88) IS1_Phenanthrene-d10	10.988	188	296186	4.000	ug/ml	#	0.00
Standard Area 1 = 279147			Recovery = 106.10%				
100) IS3_Phenanthrene-d10	10.988	188	296186	4.000	ug/ml	#	0.00
Standard Area 2 = 278241			Recovery = 106.45%				
104) IS1_Chrysene-d12	13.610	240	293756	4.000	ug/ml		0.00
Standard Area 1 = 296814			Recovery = 98.97%				
113) IS1_Perylene-d12	15.072	264	309941	4.000	ug/ml		0.00
Standard Area 1 = 301762			Recovery = 102.71%				
System Monitoring Compounds							
4) 2-Fluorophenol	4.384	112	11043	0.602	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 30.10%				
7) Phenol-d6	5.986	99	10243	0.476	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 23.80%				
19) Nitrobenzene-d5	7.018	82	13007	0.730	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 73.00%				
46) 2-Fluorobiphenyl	8.911	172	40207	0.719	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 71.90%				
79) 2,4,6-Tribromophenol	10.322	330	7708	1.008	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 50.40%				

Data Path : I:\8270\SV106\250313RVT\
Data File : 038207-1.D
Acq On : 13 Mar 2025 1:27 pm
Operator : SV106:jg
Sample : WG2038207-1,32,,gmr
Misc : WG2040166,WG2038207,ical22075
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 13 17:47:08 2025
Quant Method : I:\8270\SV106\250313RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 16:35:56 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250313RVT\ABN0313.D
: 2 - I:\8270\SV106\250313RVT\ADP0313.D
: 3 - I:\8270\SV106\250313RVT\AP90313.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	12.567	244	57100	0.743	ug/ml	0.00

Spiked Amount 1.000 Range 30 - 130 Recovery = 74.30%

Target Compounds				Qvalue
6) 2-Chlorophenol	0.000	0	N.D.	
8) Phenol	0.000	0	N.D.	
14) Bis(2-chloroisopropyl)...	0.000	0	N.D.	
15) 2-Methylphenol	0.000	0	N.D.	
17) n-Nitrosodi-n-propylamine	0.000	0	N.D.	d
18) 3-Methylphenol/4-Methy...	0.000	0	N.D.	
20) Nitrobenzene	0.000	0	N.D.	
21) Isophorone	0.000	0	N.D.	
22) 2-Nitrophenol	0.000	0	N.D.	
23) 2,4-Dimethylphenol	0.000	0	N.D.	
24) Bis(2-chloroethoxy)met...	0.000	0	N.D.	
25) 2,4-Dichlorophenol	0.000	0	N.D.	
28) Benzaldehyde	0.000	0	N.D.	
29) Acetophenone	0.000	0	N.D.	
38) 4-Chloroaniline	0.000	0	N.D.	
40) p-Chloro-m-cresol	0.000	0	N.D.	
43) Hexachlorocyclopentadiene	0.000	0	N.D.	
44) 2,4,6-Trichlorophenol	0.000	0	N.D.	
45) 2,4,5-Trichlorophenol	0.000	0	N.D.	
48) 2-Nitroaniline	0.000	0	N.D.	
51) Dimethyl phthalate	0.000	0	N.D.	
53) 2,6-Dinitrotoluene	0.000	0	N.D.	d
60) Caprolactam	0.000	0	N.D.	
61) 1,2,4,5-Tetrachloroben...	0.000	0	N.D.	
62) Biphenyl	0.000	0	N.D.	
64) 3-Nitroaniline	0.000	0	N.D.	
66) 2,4-Dinitrophenol	0.000	0	N.D.	
67) Dibenzofuran	0.000	0	N.D.	
68) 2,4-Dinitrotoluene	0.000	0	N.D.	d
69) 4-Nitrophenol	0.000	0	N.D.	d
72) Diethyl phthalate	0.000	0	N.D.	
74) 4-Chlorophenyl phenyl ...	0.000	0	N.D.	
75) 4-Nitroaniline	0.000	0	N.D.	

Data Path : I:\8270\SV106\250313RVT\
Data File : 038207-1.D
Acq On : 13 Mar 2025 1:27 pm
Operator : SV106:jg
Sample : WG2038207-1,32,,gmr
Misc : WG2040166,WG2038207,ical22075
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 13 17:47:08 2025
Quant Method : I:\8270\SV106\250313RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 16:35:56 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250313RVT\ABN0313.D
: 2 - I:\8270\SV106\250313RVT\ADP0313.D
: 3 - I:\8270\SV106\250313RVT\AP90313.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) 4,6-Dinitro-o-cresol	0.000		0		N.D.	
77) NDPA/DPA	0.000		0		N.D.	
80) 4-Bromophenyl phenyl e...	0.000		0		N.D.	
87) Atrazine	0.000		0		N.D.	
91) Carbazole	0.000		0		N.D.	
92) Di-n-butylphthalate	0.000		0		N.D.	d
97) Butyl benzyl phthalate	0.000		0		N.D.	
106) 3,3'-Dichlorobenzidine	0.000		0		N.D.	
108) Bis(2-ethylhexyl)phtha...	0.000		0		N.D.	d
109) Di-n-octylphthalate	0.000		0		N.D.	d

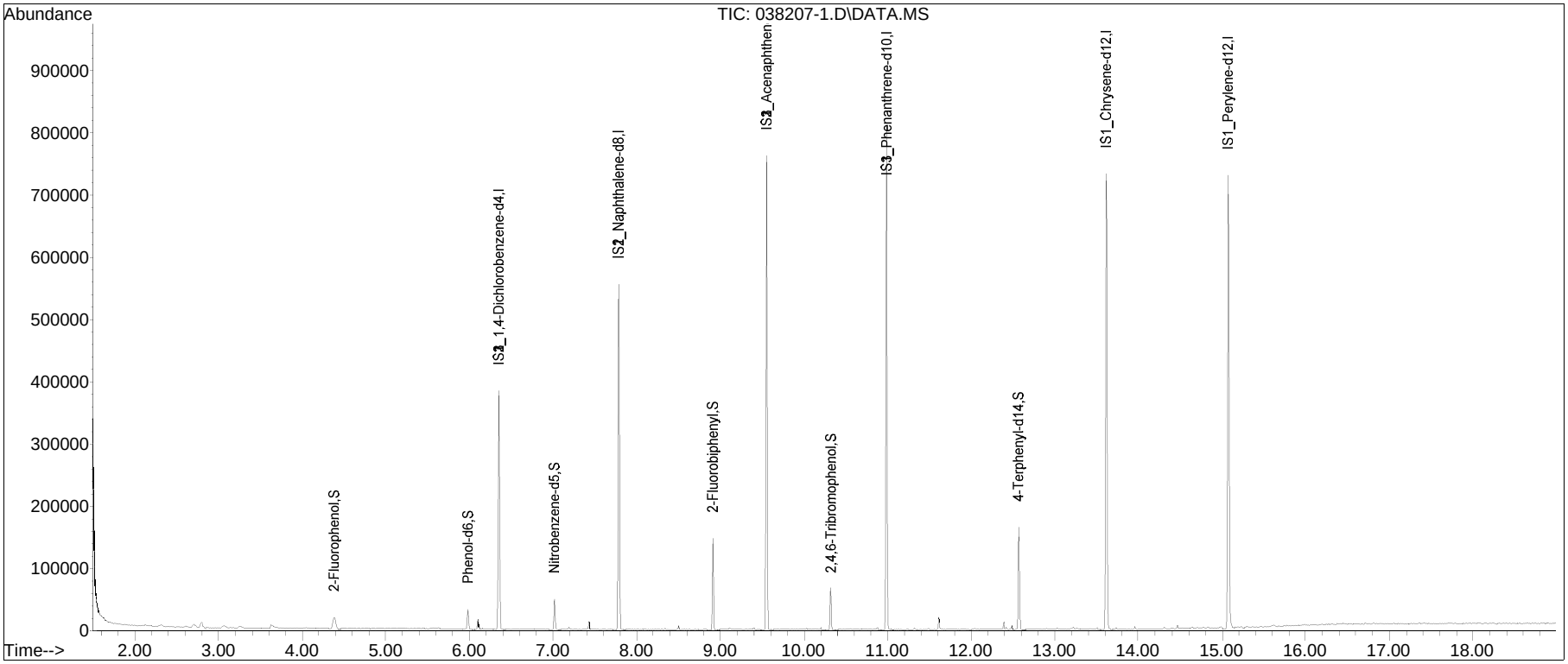
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250313RVT\
Data File : 038207-1.D
Acq On : 13 Mar 2025 1:27 pm
Operator : SV106:jg
Sample : WG2038207-1,32,,gmr
Misc : WG2040166,WG2038207,ical22075
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 13 17:47:08 2025
Quant Method : I:\8270\SV106\250313RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 16:35:56 2025
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MARVT\AP90313.D•



Manual Integration Report

Data Path	: I:\8270\SV106\250313RVT\	QMethod	: FS250311SV106.m
Data File	: 038207-1.D	Operator	: SV106:jg
Date Inj'd	: 3/13/2025 1:27 pm	Instrument	: SV 106
Sample	: WG2038207-1,32,,gmr	Quant Date	: 3/13/2025 4:37 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250313RVT\
Data File : 038207-2.D
Acq On : 13 Mar 2025 1:50 pm
Operator : SV106:jg
Sample : WG2038207-2,32,,gmr
Misc : WG2040166,WG2038207,ical22075
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 13 17:47:50 2025
Quant Method : I:\8270\SV106\250313RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 16:35:56 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250313RVT\ABN0313.D
: 2 - I:\8270\SV106\250313RVT\ADP0313.D
: 3 - I:\8270\SV106\250313RVT\AP90313.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.351	152	67857	4.000	ug/ml		0.00
Standard Area 1 = 59871			Recovery = 113.34%				
27) IS2_1,4-Dichlorobenzen...	6.351	152	67857	4.000	ug/ml		0.00
Standard Area 3 = 57135			Recovery = 118.77%				
32) IS3_1,4-Dichlorobenzen...	6.351	152	67857	4.000	ug/ml		0.00
Standard Area 2 = 59091			Recovery = 114.83%				
35) IS1_Naphthalene-d8	7.783	136	254419	4.000	ug/ml	#	0.00
Standard Area 1 = 230532			Recovery = 110.36%				
55) IS2_Naphthalene-d8	7.783	136	254419	4.000	ug/ml	#	0.00
Standard Area 3 = 214914			Recovery = 118.38%				
63) IS1_Acenaphthene-d10	9.550	164	158088	4.000	ug/ml		0.00
Standard Area 1 = 140631			Recovery = 112.41%				
83) IS2_Acenaphthene-d10	9.550	164	158088	4.000	ug/ml		0.00
Standard Area 3 = 134336			Recovery = 117.68%				
86) IS3_Acenaphthene-d10	9.550	164	158088	4.000	ug/ml		0.00
Standard Area 2 = 132555			Recovery = 119.26%				
88) IS1_Phenanthrene-d10	10.988	188	316714	4.000	ug/ml	#	0.00
Standard Area 1 = 279147			Recovery = 113.46%				
100) IS3_Phenanthrene-d10	10.988	188	316714	4.000	ug/ml	#	0.00
Standard Area 2 = 278241			Recovery = 113.83%				
104) IS1_Chrysene-d12	13.617	240	313755	4.000	ug/ml		0.00
Standard Area 1 = 296814			Recovery = 105.71%				
113) IS1_Perylene-d12	15.079	264	327342	4.000	ug/ml		0.00
Standard Area 1 = 301762			Recovery = 108.48%				
System Monitoring Compounds							
4) 2-Fluorophenol	4.391	112	17799	0.930	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 46.50%				
7) Phenol-d6	5.985	99	15071	0.672	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 33.60%				
19) Nitrobenzene-d5	7.017	82	17293	0.930	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 93.00%				
46) 2-Fluorobiphenyl	8.911	172	51424	0.876	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 87.60%				
79) 2,4,6-Tribromophenol	10.321	330	13115	1.614	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 80.70%				

Data Path : I:\8270\SV106\250313RVT\
Data File : 038207-2.D
Acq On : 13 Mar 2025 1:50 pm
Operator : SV106:jg
Sample : WG2038207-2,32,,gmr
Misc : WG2040166,WG2038207,ical22075
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 13 17:47:50 2025
Quant Method : I:\8270\SV106\250313RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 16:35:56 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250313RVT\ABN0313.D
: 2 - I:\8270\SV106\250313RVT\ADP0313.D
: 3 - I:\8270\SV106\250313RVT\AP90313.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	12.576	244	73430	0.894	ug/ml	0.00

Spiked Amount 1.000 Range 30 - 130 Recovery = 89.40%

Target Compounds						Qvalue
6) 2-Chlorophenol	6.087	128	29425	1.424	ug/ml	96
8) Phenol	6.002	94	17019	0.688	ug/ml	95
14) Bis(2-chloroisopropyl)...	6.755	45	85308	1.860	ug/ml#	78
15) 2-Methylphenol	6.739	108	28021	1.288	ug/ml	97
17) n-Nitrosodi-n-propylamine	6.897	70	26622	1.836	ug/ml	92
18) 3-Methylphenol/4-Methy...	6.927	108	25188	1.338	ug/ml	95
20) Nitrobenzene	7.040	77	33816	1.783	ug/ml	99
21) Isophorone	7.318	82	68752	1.765	ug/ml	99
22) 2-Nitrophenol	7.400	139	13811	1.600	ug/ml	92
23) 2,4-Dimethylphenol	7.506	107	20622	1.014	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.595	93	47933	1.724	ug/ml#	98
25) 2,4-Dichlorophenol	7.660	162	31186	1.617	ug/ml#	94
28) Benzaldehyde	5.773	105	30640	1.894	ug/ml	92
29) Acetophenone	6.860	105	54738	1.961	ug/ml#	93
38) 4-Chloroaniline	7.898	65	12314M3	1.471	ug/ml	
40) p-Chloro-m-cresol	8.424	107	31533	1.525	ug/ml#	93
43) Hexachlorocyclopentadiene	8.708	237	15751	0.826	ug/ml	96
44) 2,4,6-Trichlorophenol	8.828	196	23826	1.491	ug/ml	98
45) 2,4,5-Trichlorophenol	8.858	196	26918	1.661	ug/ml	96
48) 2-Nitroaniline	9.120	138	18808	1.779	ug/ml	91
51) Dimethyl phthalate	9.329	163	102114	1.767	ug/ml#	98
53) 2,6-Dinitrotoluene	9.371	165	17204	1.794	ug/ml#	81
60) Caprolactam	8.214	55	5849	0.559	ug/ml#	86
61) 1,2,4,5-Tetrachloroben...	8.701	216	38606	1.512	ug/ml	98
62) Biphenyl	9.001	154	93832	1.666	ug/ml	99
64) 3-Nitroaniline	9.519	138	16775	1.682	ug/ml#	93
66) 2,4-Dinitrophenol	9.624	184	6966	1.457	ug/ml	96
67) Dibenzofuran	9.751	168	119900	1.585	ug/ml	97
68) 2,4-Dinitrotoluene	9.761	165	22335	1.716	ug/ml#	82
69) 4-Nitrophenol	9.719	65	7065	0.929	ug/ml#	33
72) Diethyl phthalate	10.025	149	94511	1.760	ug/ml	100
74) 4-Chlorophenyl phenyl ...	10.110	204	47393	1.626	ug/ml#	86
75) 4-Nitroaniline	10.110	138	18791	1.937	ug/ml	86

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250313RVT\
Data File : 038207-2.D
Acq On : 13 Mar 2025 1:50 pm
Operator : SV106:jg
Sample : WG2038207-2,32,,gmr
Misc : WG2040166,WG2038207,ical22075
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 13 17:47:50 2025
Quant Method : I:\8270\SV106\250313RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 16:35:56 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250313RVT\ABN0313.D
: 2 - I:\8270\SV106\250313RVT\ADP0313.D
: 3 - I:\8270\SV106\250313RVT\AP90313.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76)	4,6-Dinitro-o-cresol	10.152	198	11094	1.650	ug/ml#	68
77)	NDPA/DPA	10.223	169	80206	1.726	ug/ml	93
80)	4-Bromophenyl phenyl e...	10.579	248	29156	1.593	ug/ml#	83
87)	Atrazine	10.760	200	25495	1.765	ug/ml	96
91)	Carbazole	11.230	167	142766	1.823	ug/ml	100
92)	Di-n-butylphthalate	11.624	149	151730	1.716	ug/ml	99
97)	Butyl benzyl phthalate	13.101	149	56497	1.674	ug/ml	88
106)	3,3'-Dichlorobenzidine	13.609	252	57979	1.723	ug/ml#	97
108)	Bis(2-ethylhexyl)phtha...	13.736	149	88317	1.673	ug/ml#	95
109)	Di-n-octylphthalate	14.418	149	129205	1.657	ug/ml#	79

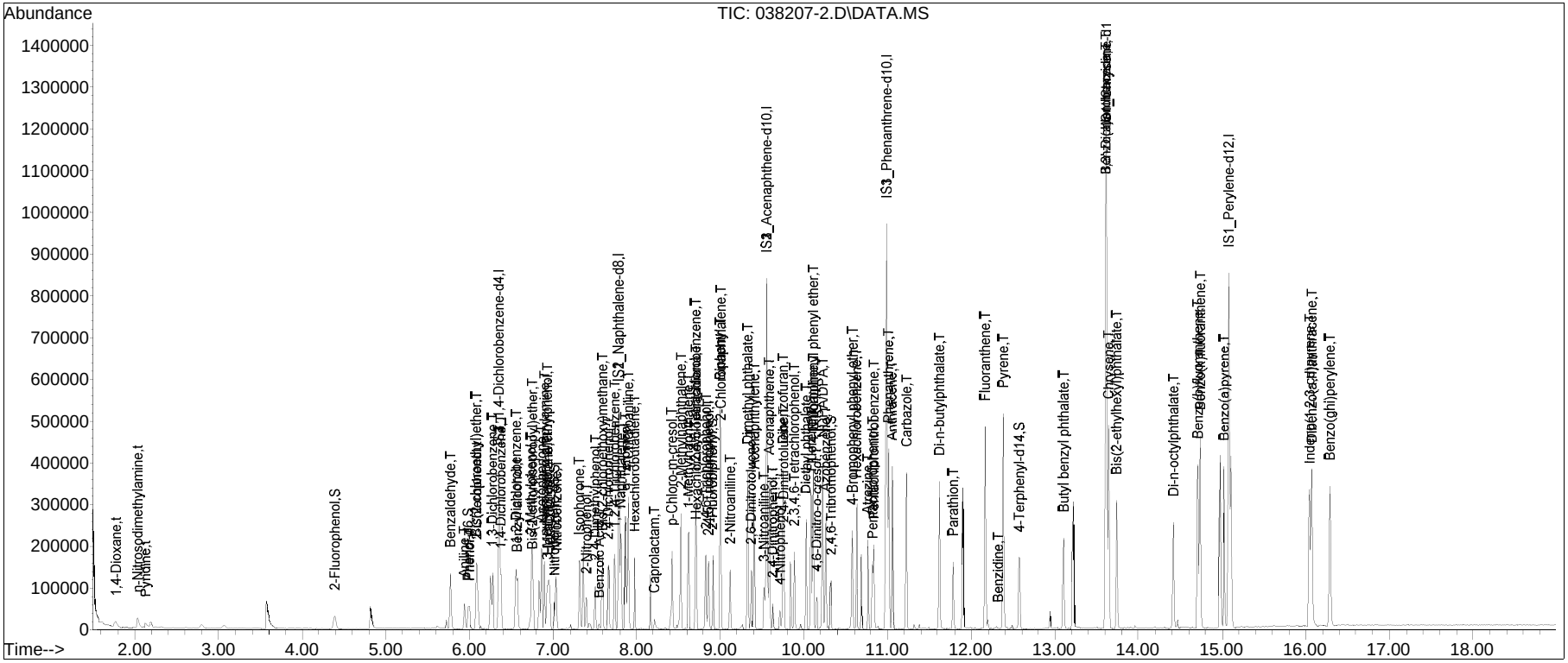
(#) = qualifier out of range (m) = manual integration (+) = signals summed

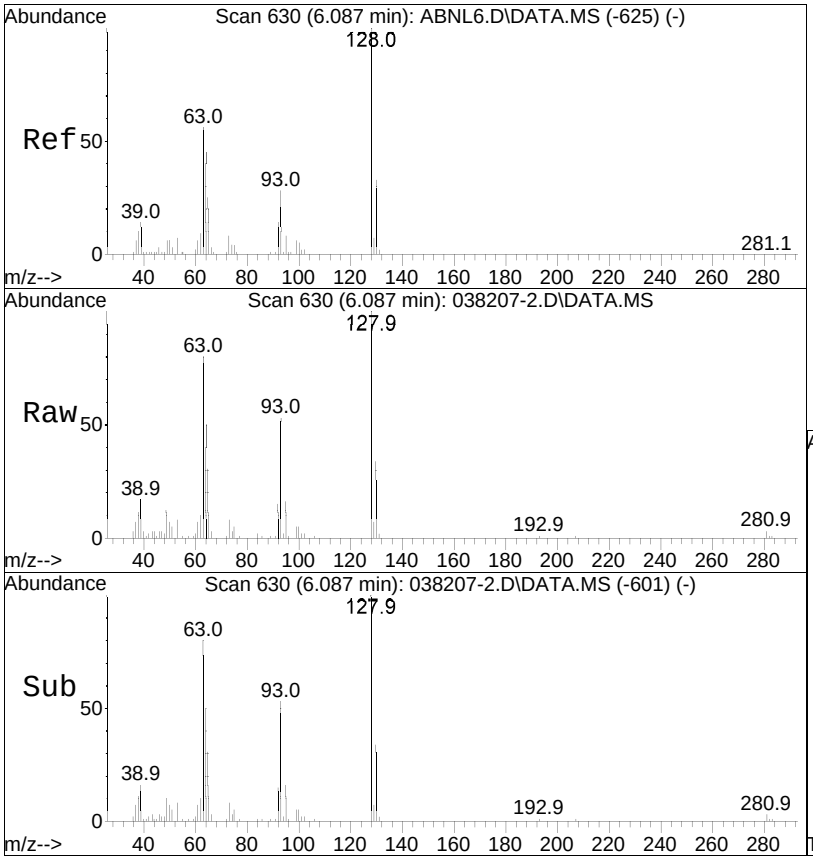
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250313RVT\
Data File : 038207-2.D
Acq On : 13 Mar 2025 1:50 pm
Operator : SV106:jg
Sample : WG2038207-2,32,,gmr
Misc : WG2040166,WG2038207,ical22075
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 13 17:47:50 2025
Quant Method : I:\8270\SV106\250313RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 16:35:56 2025
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MARVT\AP90313.D•

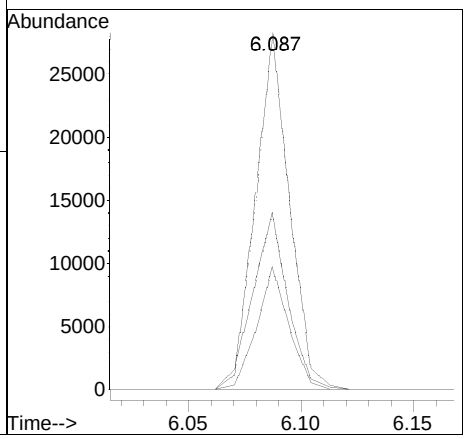


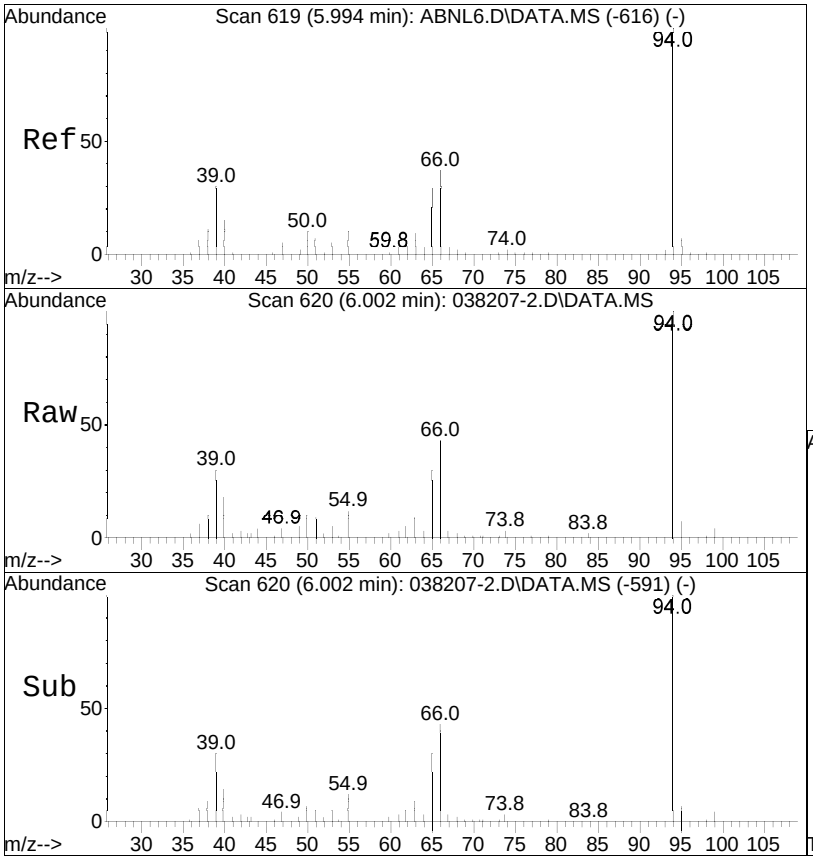


#6
2-Chlorophenol
Concen: 1.42 ug/ml
RT: 6.087 min Scan# 630
Delta R.T. 0.000 min
Lab File: 038207-2.D
Acq: 13 Mar 2025 1:50 pm

Tgt Ion:128 Resp: 29425

Ion	Ratio	Lower	Upper
128	100		
64	51.7	45.1	67.7
130	32.8	26.2	39.4

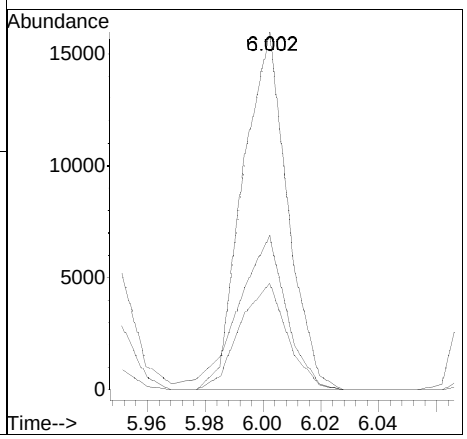


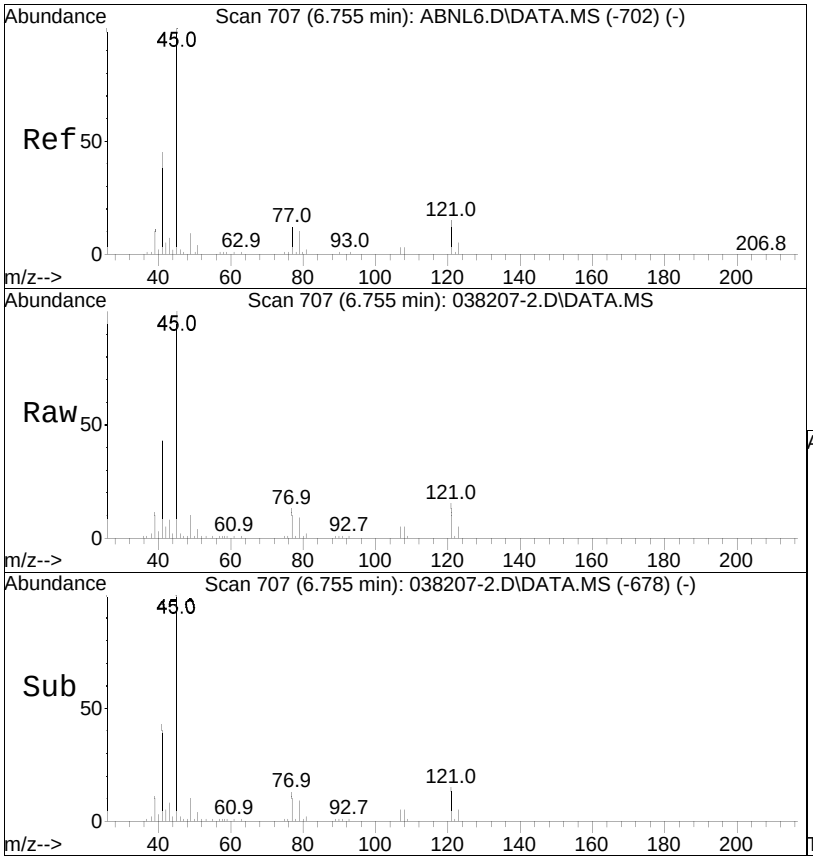


#8
Phenol
Concen: 0.69 ug/ml
RT: 6.002 min Scan# 620
Delta R.T. 0.000 min
Lab File: 038207-2.D
Acq: 13 Mar 2025 1:50 pm

Tgt Ion: 94 Resp: 17019

Ion	Ratio	Lower	Upper
94	100		
65	31.9	26.0	39.0
66	47.0	33.8	50.8

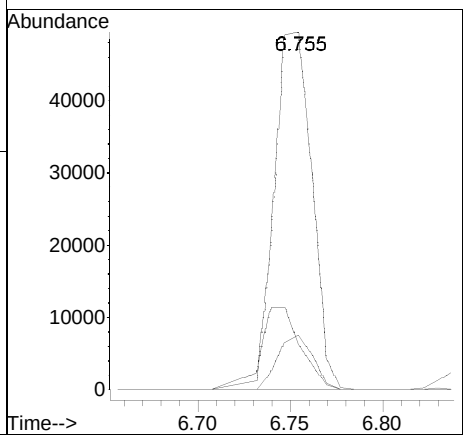


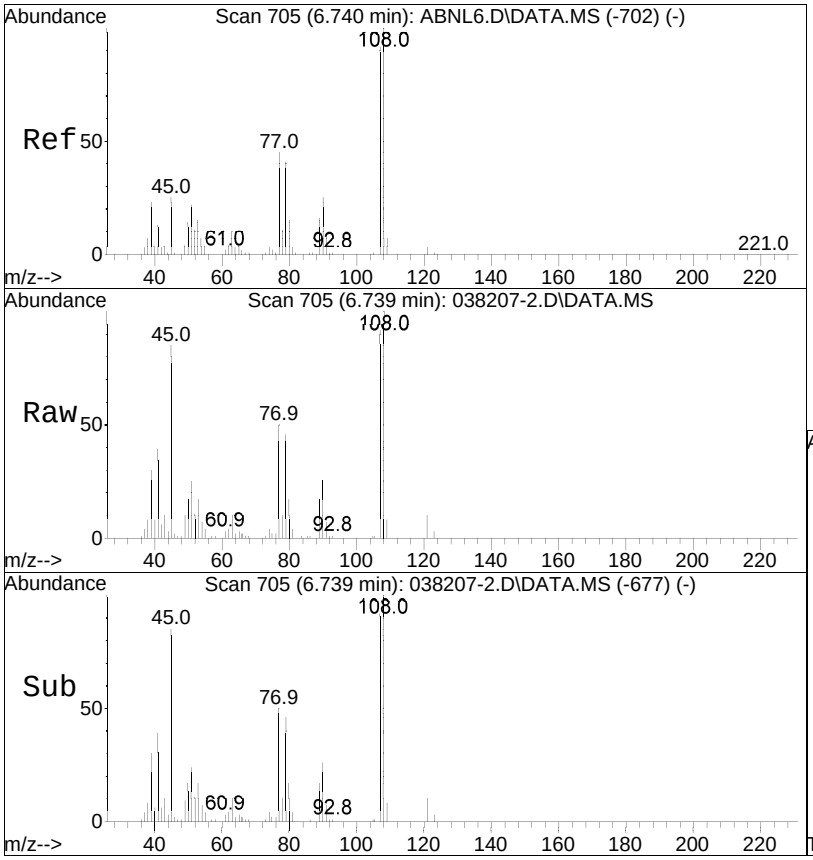


#14
Bis(2-chloroisopropyl)ether
Concen: 1.86 ug/ml
RT: 6.755 min Scan# 707
Delta R.T. 0.008 min
Lab File: 038207-2.D
Acq: 13 Mar 2025 1:50 pm

Tgt Ion: 45 Resp: 85308

Ion	Ratio	Lower	Upper
45	100		
121	15.0	9.8	14.6#
77	23.8	6.1	9.1#

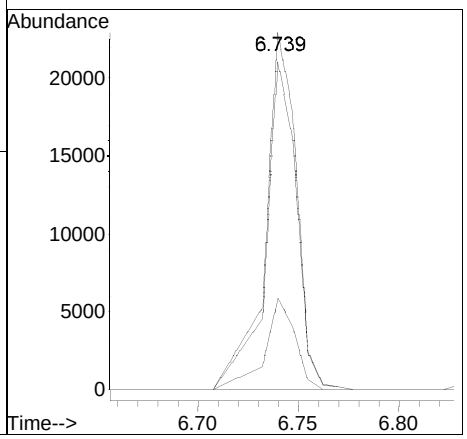


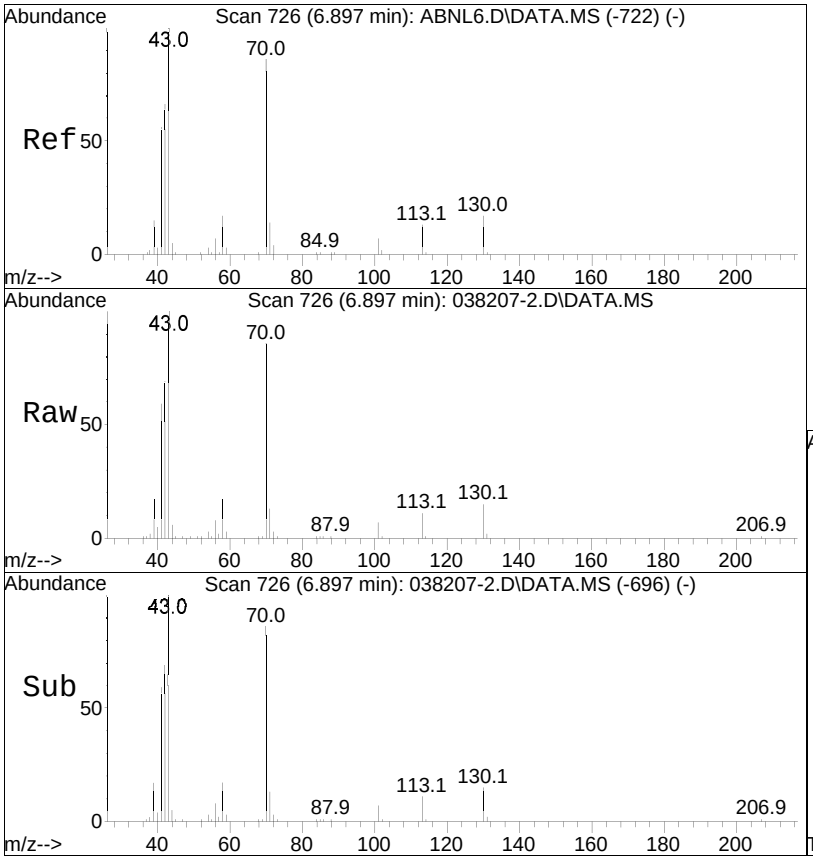


#15
2-Methylphenol
Concen: 1.29 ug/ml
RT: 6.739 min Scan# 705
Delta R.T. 0.000 min
Lab File: 038207-2.D
Acq: 13 Mar 2025 1:50 pm

Tgt Ion:108 Resp: 28021

Ion	Ratio	Lower	Upper
108	100		
107	90.8	70.7	106.1
90	25.9	18.7	28.1

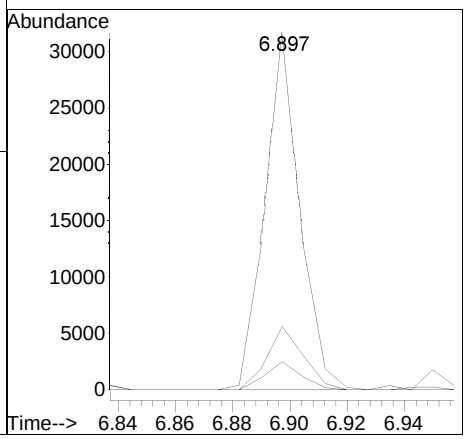


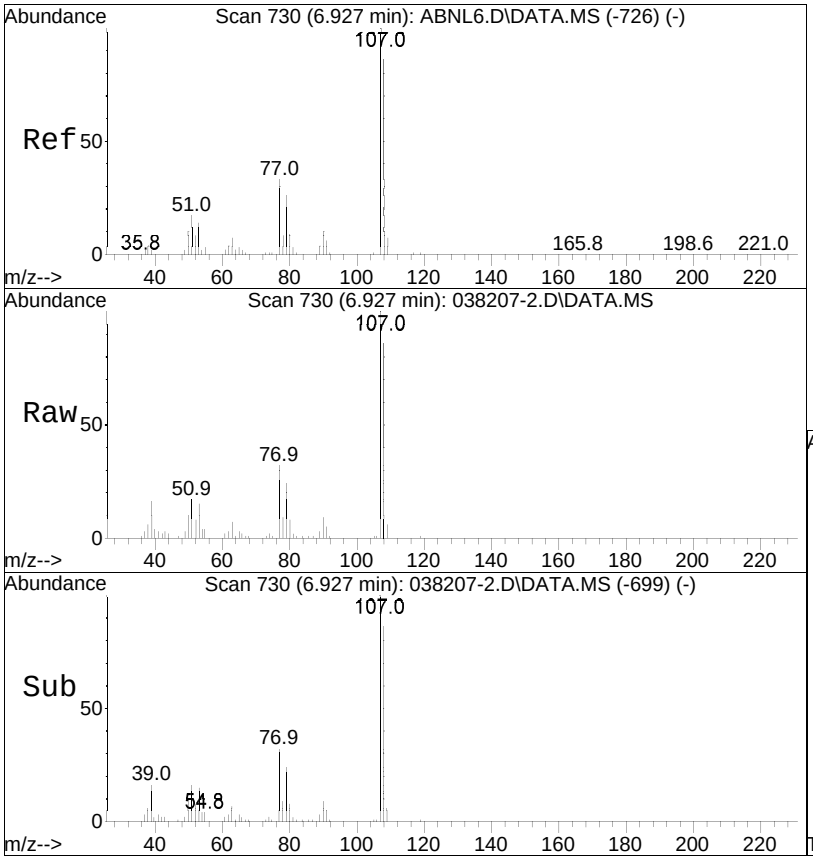


#17
n-Nitrosodi-n-propylamine
Concen: 1.84 ug/ml
RT: 6.897 min Scan# 726
Delta R.T. 0.000 min
Lab File: 038207-2.D
Acq: 13 Mar 2025 1:50 pm

Tgt Ion: 70 Resp: 26622

Ion	Ratio	Lower	Upper
70	100		
130	18.4	18.2	27.4
101	8.1	7.8	11.8

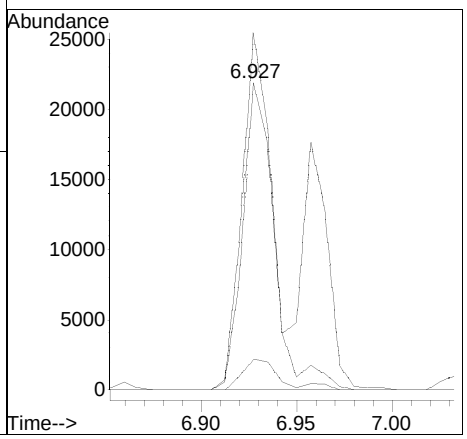


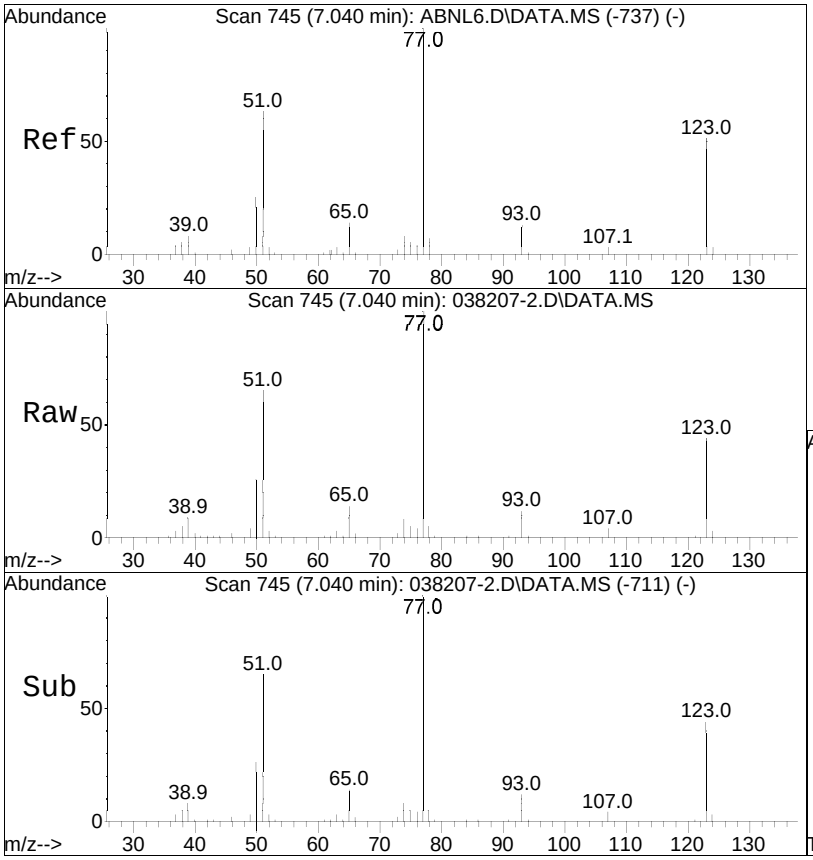


#18
3-Methylphenol/4-Methylphenol
Concen: 1.34 ug/ml
RT: 6.927 min Scan# 730
Delta R.T. 0.000 min
Lab File: 038207-2.D
Acq: 13 Mar 2025 1:50 pm

Tgt Ion:108 Resp: 25188

Ion	Ratio	Lower	Upper
108	100		
107	105.7	88.6	132.8
90	12.3	8.8	13.2

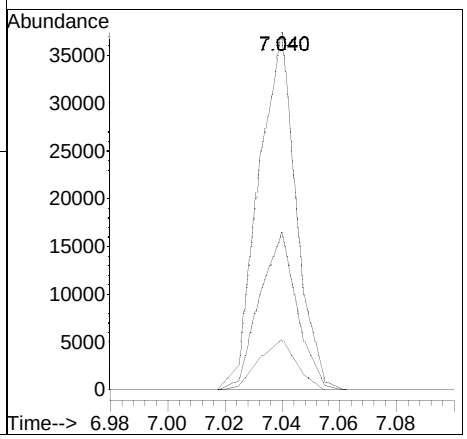


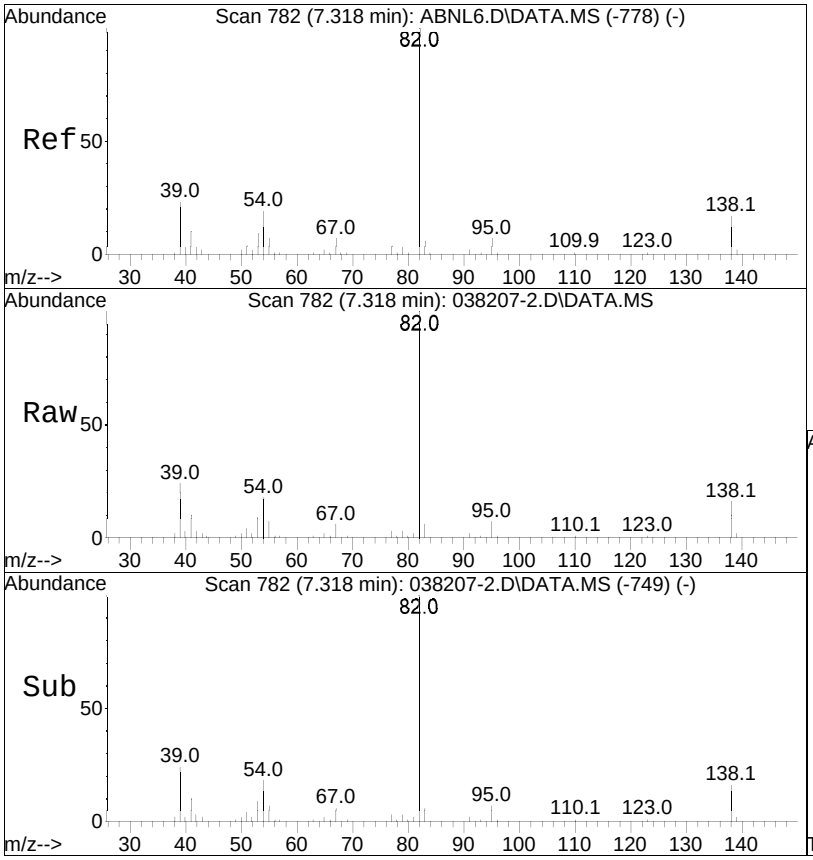


#20
Nitrobenzene
Concen: 1.78 ug/ml
RT: 7.040 min Scan# 745
Delta R.T. 0.008 min
Lab File: 038207-2.D
Acq: 13 Mar 2025 1:50 pm

Tgt Ion: 77 Resp: 33816

Ion	Ratio	Lower	Upper
77	100		
123	44.3	36.3	54.5
65	14.2	11.6	17.4

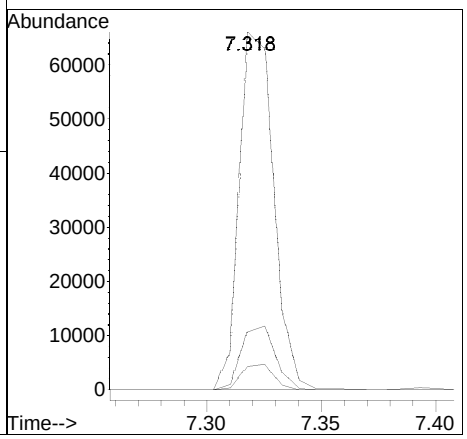


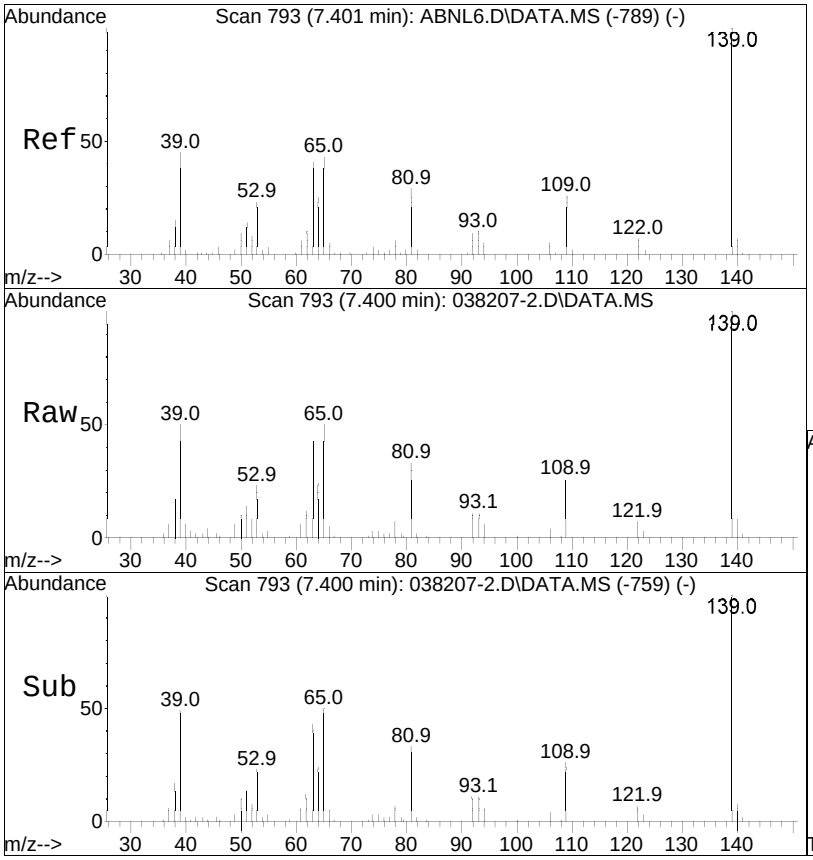


#21
Isophorone
Concen: 1.77 ug/ml
RT: 7.318 min Scan# 782
Delta R.T. 0.000 min
Lab File: 038207-2.D
Acq: 13 Mar 2025 1:50 pm

Tgt Ion: 82 Resp: 68752

Ion	Ratio	Lower	Upper
82	100		
138	17.7	14.7	22.1
95	6.8	5.2	7.8

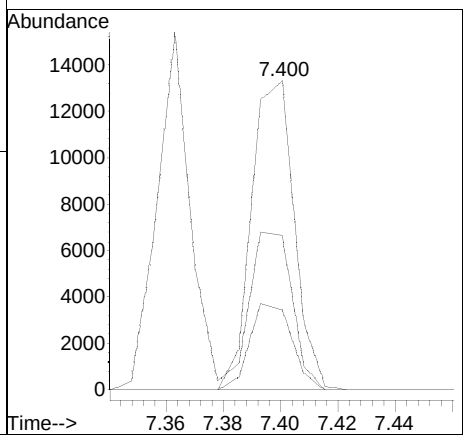


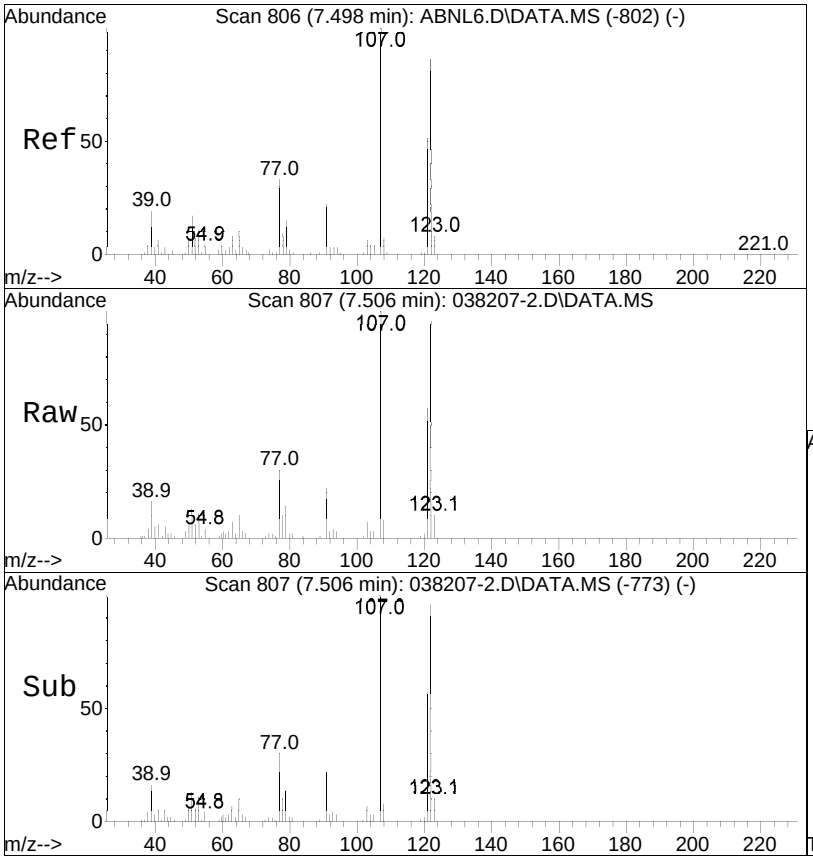


#22
2-Nitrophenol
Concen: 1.60 ug/ml
RT: 7.400 min Scan# 793
Delta R.T. 0.008 min
Lab File: 038207-2.D
Acq: 13 Mar 2025 1:50 pm

Tgt Ion:139 Resp: 13811

Ion	Ratio	Lower	Upper
139	100		
109	27.5	19.4	29.0
65	51.1	46.1	69.1

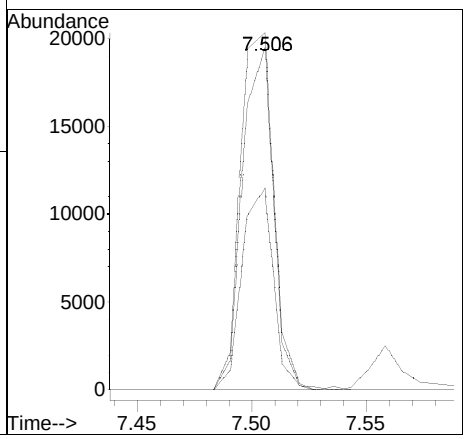


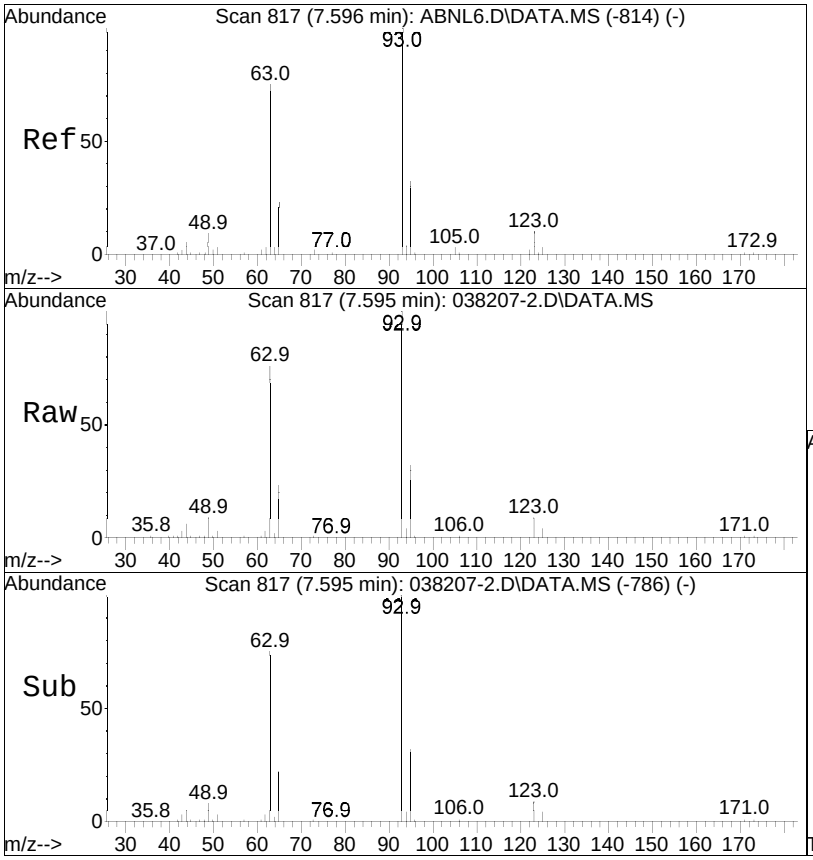


#23
2,4-Dimethylphenol
Concen: 1.01 ug/ml
RT: 7.506 min Scan# 807
Delta R.T. 0.008 min
Lab File: 038207-2.D
Acq: 13 Mar 2025 1:50 pm

Tgt Ion:107 Resp: 20622

Ion	Ratio	Lower	Upper
107	100		
121	53.0	40.0	60.0
122	88.8	70.2	105.4

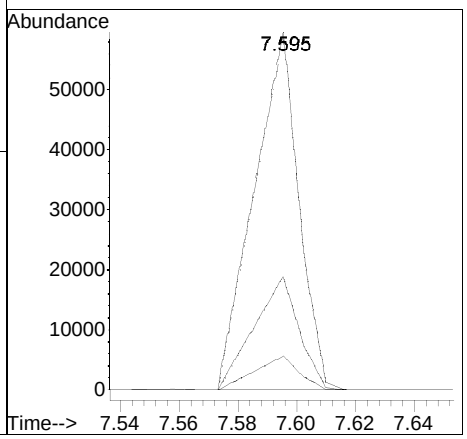


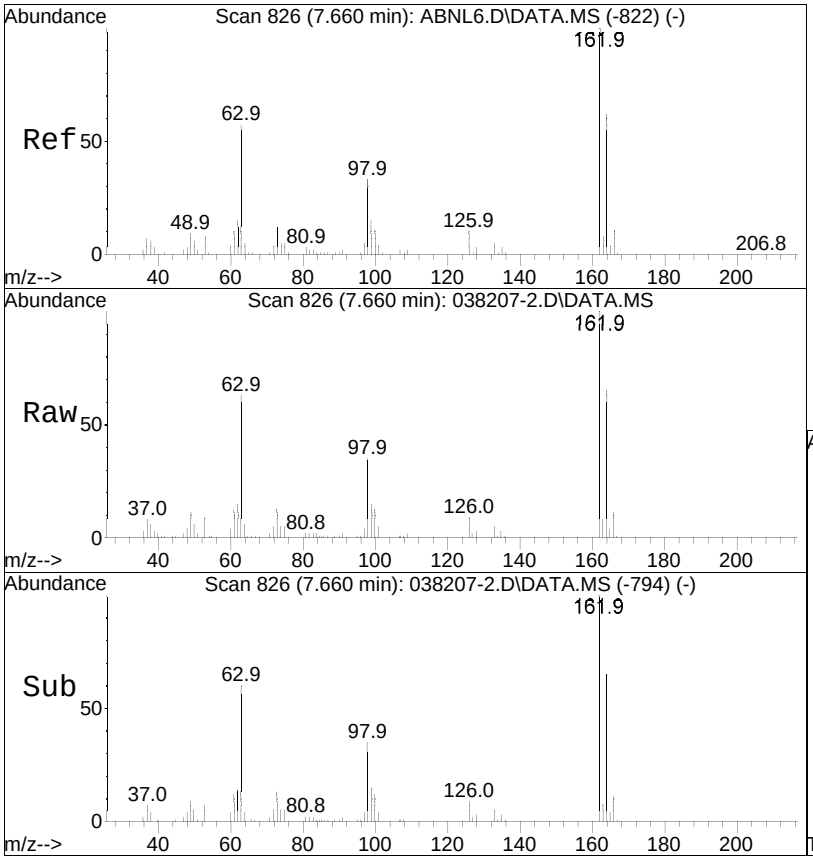


#24
Bis(2-chloroethoxy)methane
Concen: 1.72 ug/ml
RT: 7.595 min Scan# 817
Delta R.T. 0.000 min
Lab File: 038207-2.D
Acq: 13 Mar 2025 1:50 pm

Tgt Ion: 93 Resp: 47933

Ion	Ratio	Lower	Upper
93	100		
95	32.2	25.8	38.8
123	9.6	10.1	15.1#

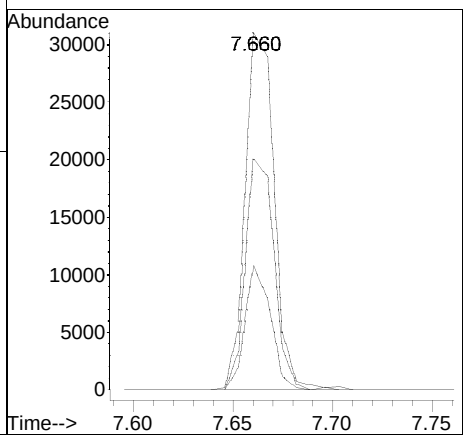


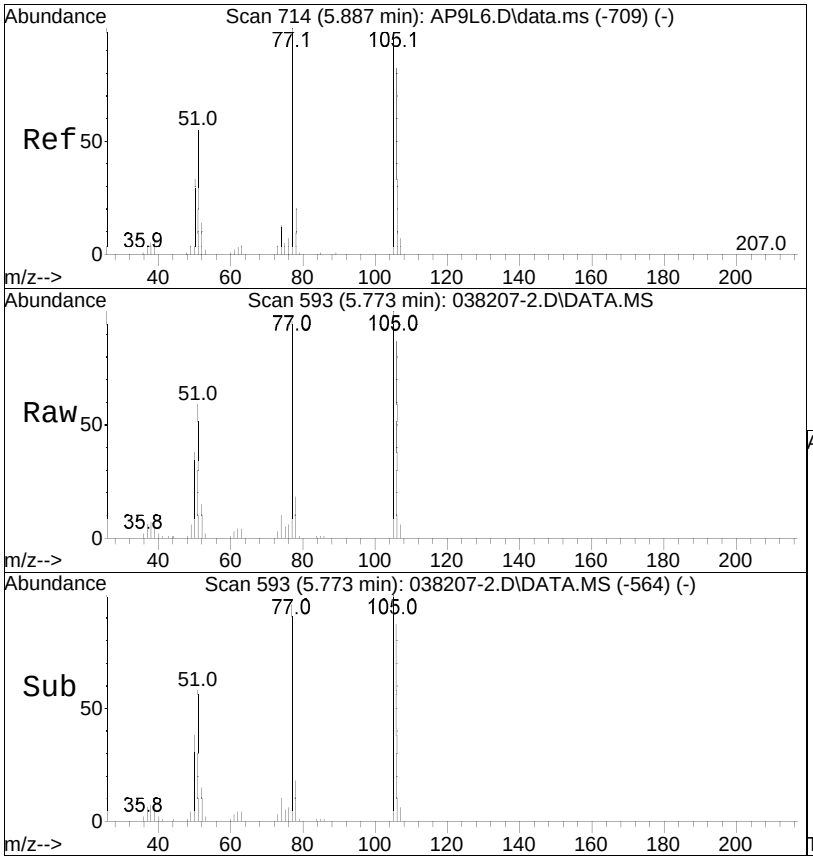


#25
2,4-Dichlorophenol
Concen: 1.62 ug/ml
RT: 7.660 min Scan# 826
Delta R.T. 0.000 min
Lab File: 038207-2.D
Acq: 13 Mar 2025 1:50 pm

Tgt Ion:162 Resp: 31186

Ion	Ratio	Lower	Upper
162	100		
164	64.0	51.0	76.4
98	30.7	32.2	48.2#

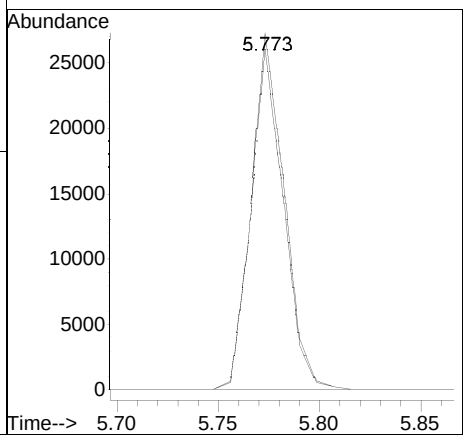


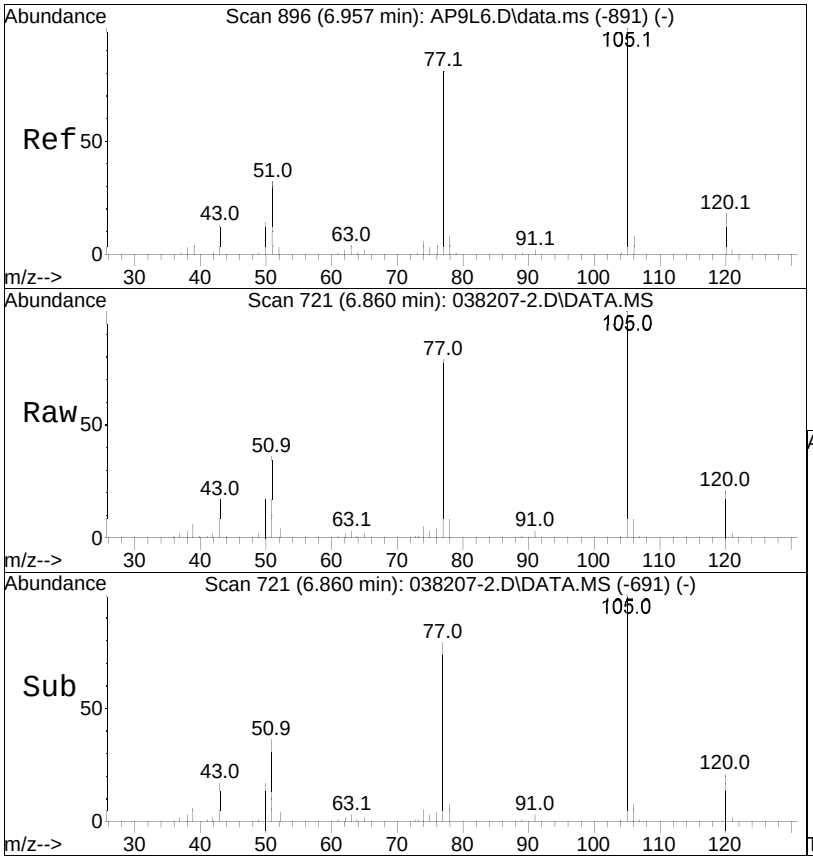


#28
Benzaldehyde
Concen: 1.89 ug/ml
RT: 5.773 min Scan# 593
Delta R.T. 0.000 min
Lab File: 038207-2.D
Acq: 13 Mar 2025 1:50 pm

Tgt Ion:105 Resp: 30640

Ion	Ratio	Lower	Upper
105	100		
77	94.9	82.2	123.4

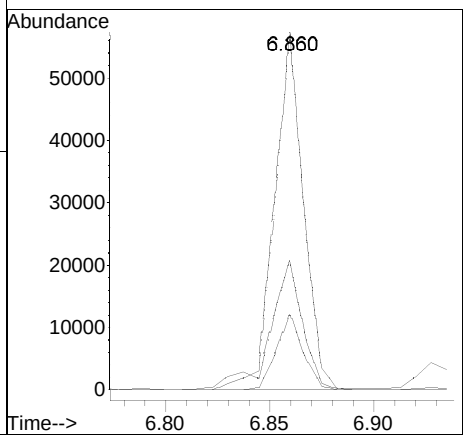


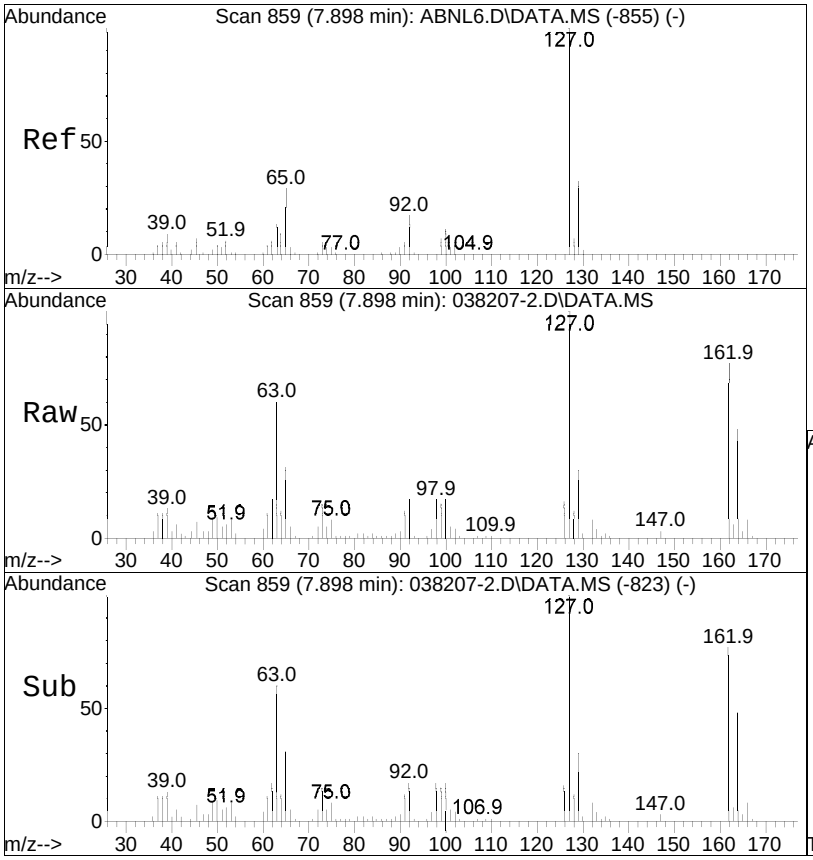


#29
Acetophenone
Concen: 1.96 ug/ml
RT: 6.860 min Scan# 721
Delta R.T. 0.000 min
Lab File: 038207-2.D
Acq: 13 Mar 2025 1:50 pm

Tgt Ion:105 Resp: 54738

Ion	Ratio	Lower	Upper
105	100		
120	19.6	20.5	30.7#
51	41.2	34.9	52.3

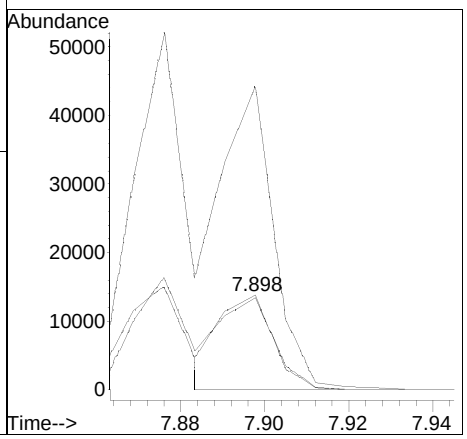


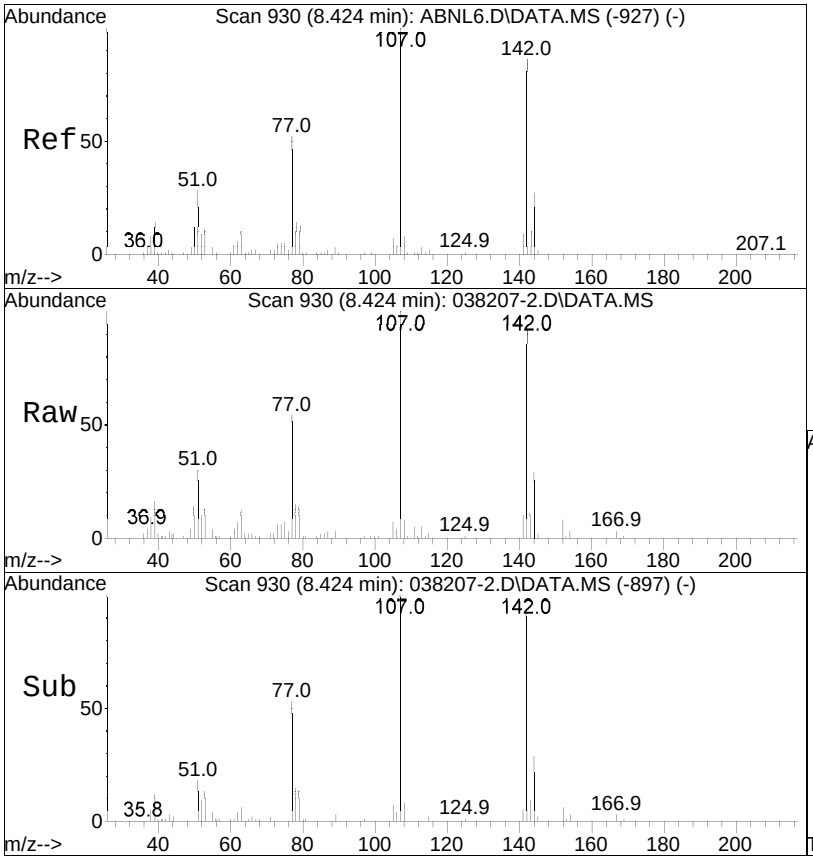


#38
4-Chloroaniline
Concen: 1.47 ug/ml M3
RT: 7.898 min Scan# 859
Delta R.T. 0.007 min
Lab File: 038207-2.D
Acq: 13 Mar 2025 1:50 pm

Tgt Ion: 65 Resp: 12314

Ion	Ratio	Lower	Upper
65	100		
127	359.3	237.6	356.4#
129	214.5	76.3	114.5#

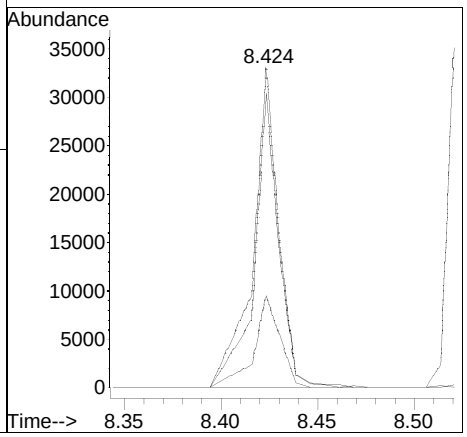


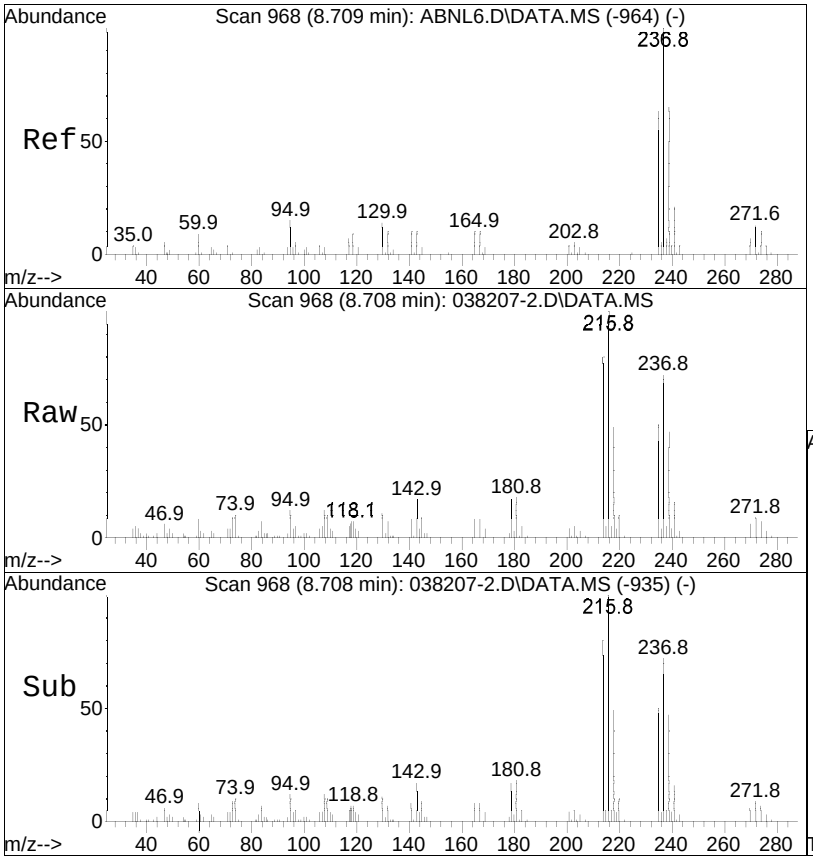


#40
p-Chloro-m-cresol
Concen: 1.53 ug/ml
RT: 8.424 min Scan# 930
Delta R.T. 0.000 min
Lab File: 038207-2.D
Acq: 13 Mar 2025 1:50 pm

Tgt Ion:107 Resp: 31533

Ion	Ratio	Lower	Upper
107	100		
144	31.6	20.9	31.3#
142	87.3	66.1	99.1

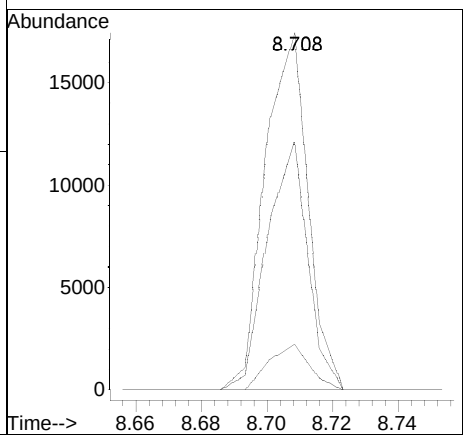


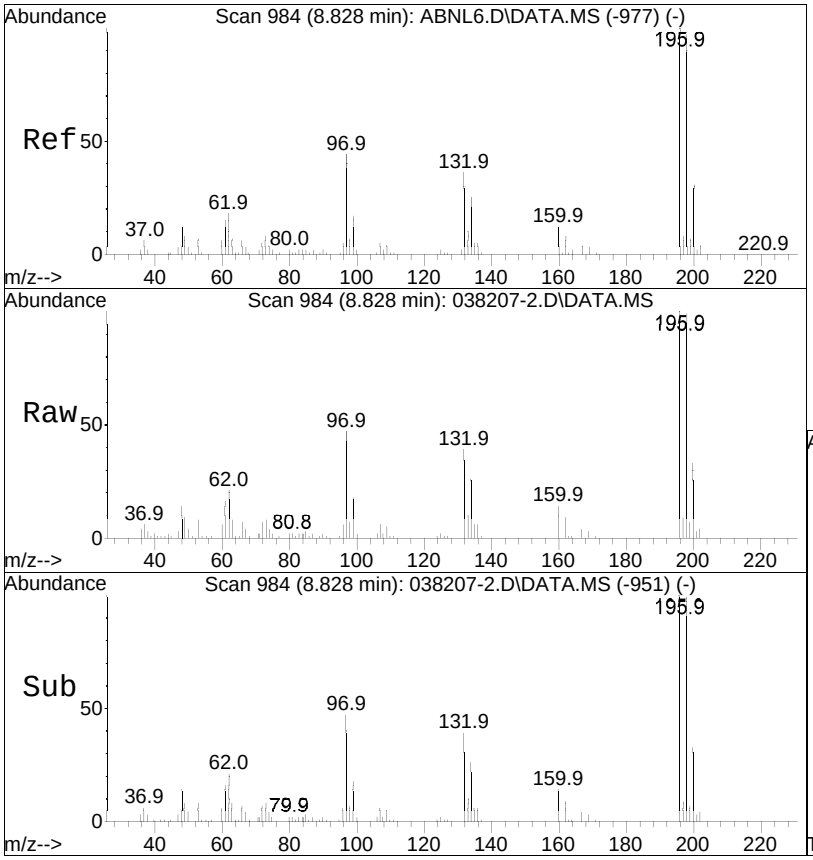


#43
Hexachlorocyclopentadiene
Concen: 0.83 ug/ml
RT: 8.708 min Scan# 968
Delta R.T. 0.000 min
Lab File: 038207-2.D
Acq: 13 Mar 2025 1:50 pm

Tgt Ion:237 Resp: 15751

Ion	Ratio	Lower	Upper
237	100		
235	65.9	49.7	74.5
272	12.2	9.8	14.6

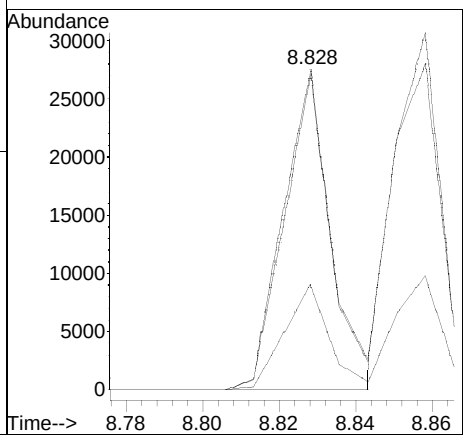


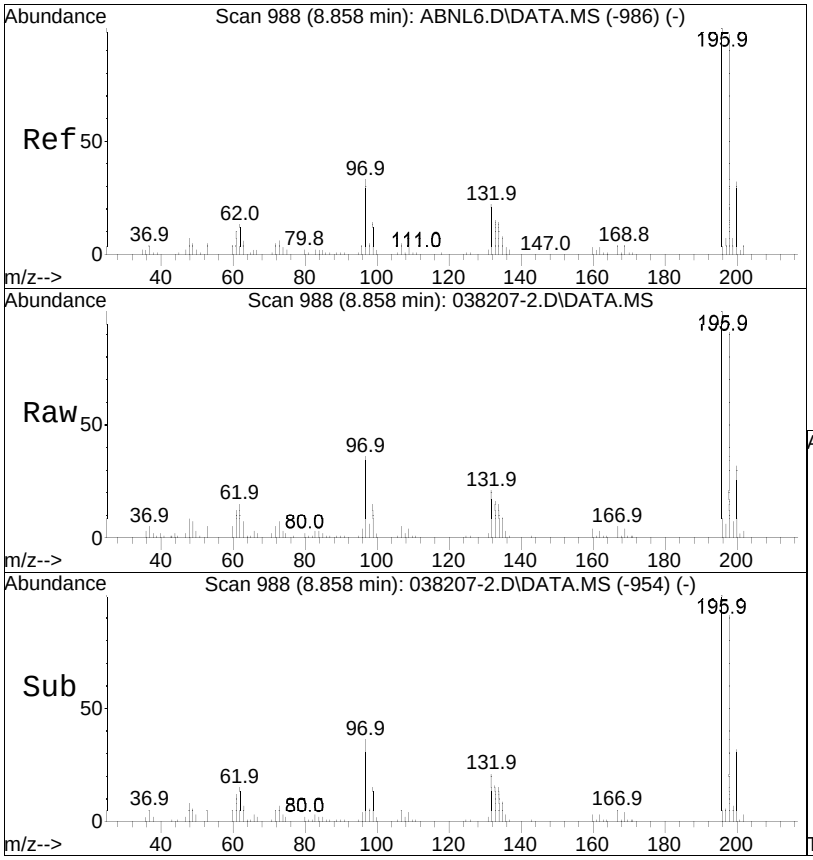


#44
2,4,6-Trichlorophenol
Concen: 1.49 ug/ml
RT: 8.828 min Scan# 984
Delta R.T. 0.000 min
Lab File: 038207-2.D
Acq: 13 Mar 2025 1:50 pm

Tgt Ion:196 Resp: 23826

Ion	Ratio	Lower	Upper
196	100		
198	96.0	77.5	116.3
200	31.5	23.8	35.6

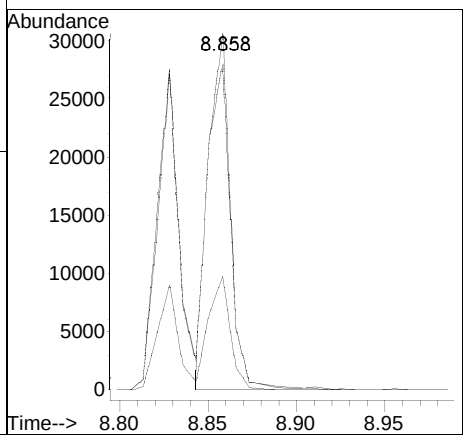


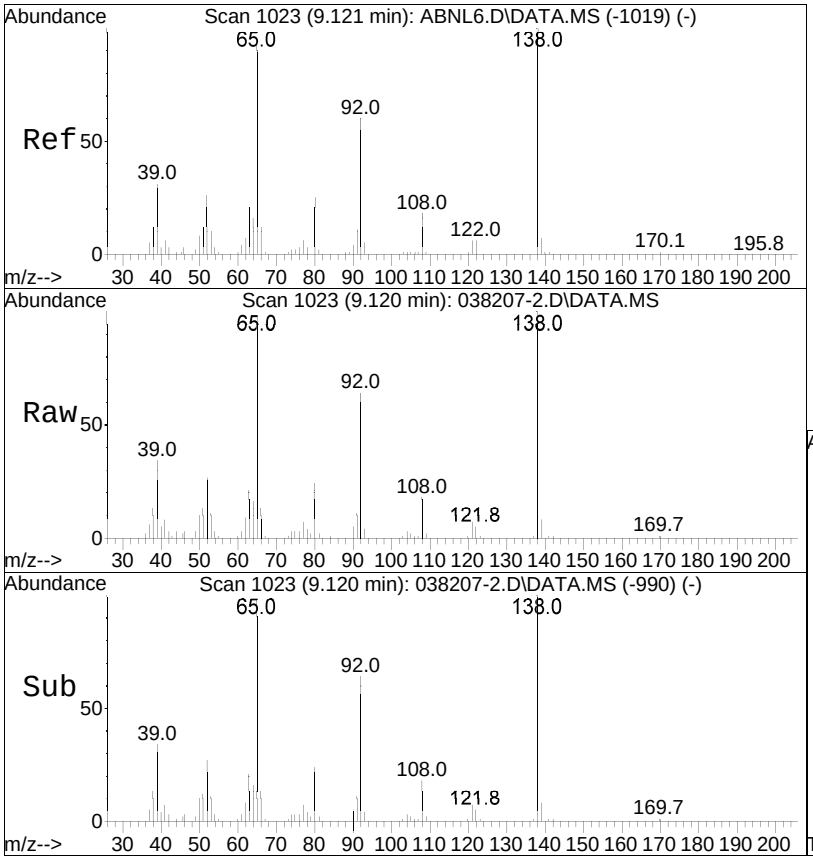


#45
2,4,5-Trichlorophenol
Concen: 1.66 ug/ml
RT: 8.858 min Scan# 988
Delta R.T. 0.008 min
Lab File: 038207-2.D
Acq: 13 Mar 2025 1:50 pm

Tgt Ion:196 Resp: 26918

Ion	Ratio	Lower	Upper
196	100		
200	31.1	25.4	38.0
198	93.0	78.0	117.0

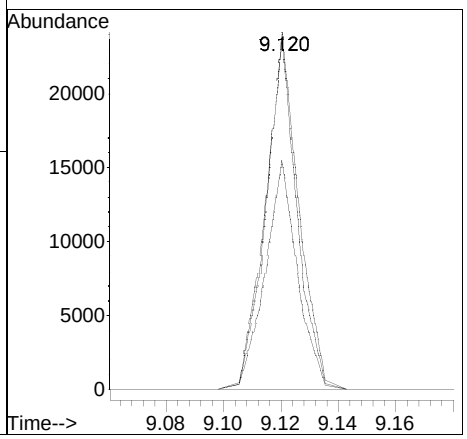


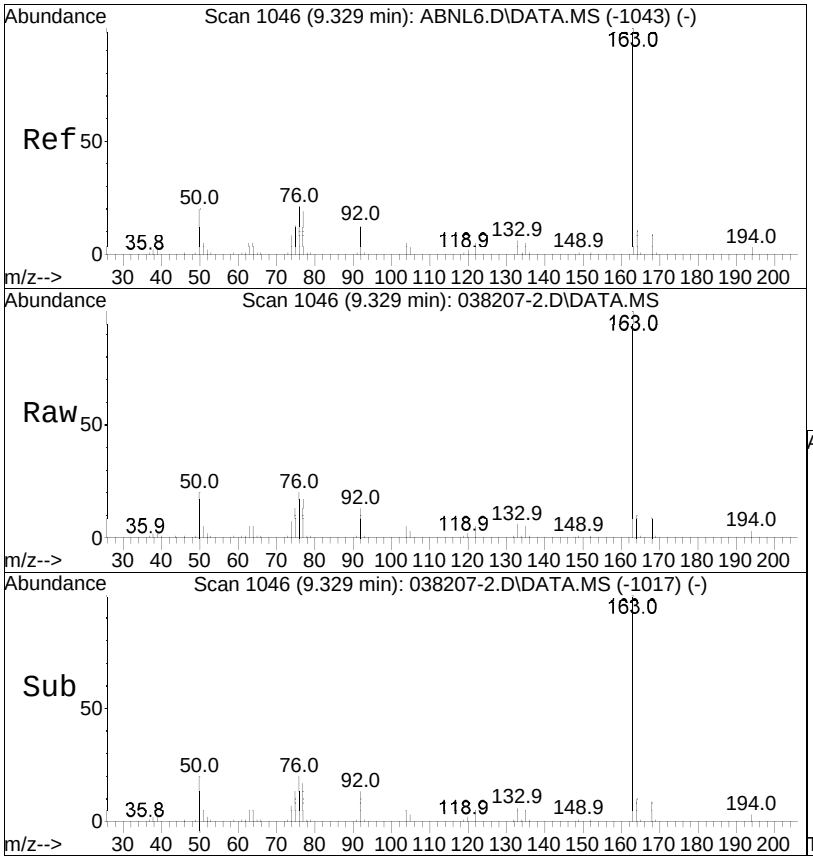


#48
2-Nitroaniline
Concen: 1.78 ug/ml
RT: 9.120 min Scan# 1023
Delta R.T. 0.000 min
Lab File: 038207-2.D
Acq: 13 Mar 2025 1:50 pm

Tgt Ion:138 Resp: 18808

Ion	Ratio	Lower	Upper
138	100		
92	63.8	53.5	80.3
65	95.9	86.3	129.5

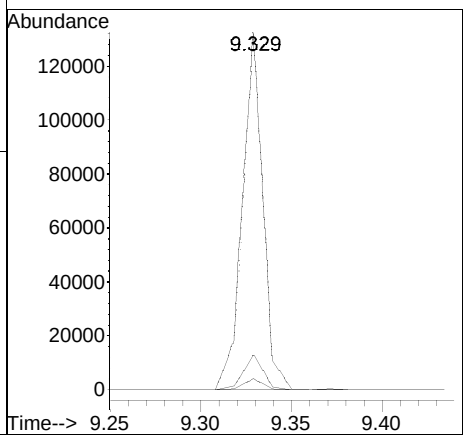


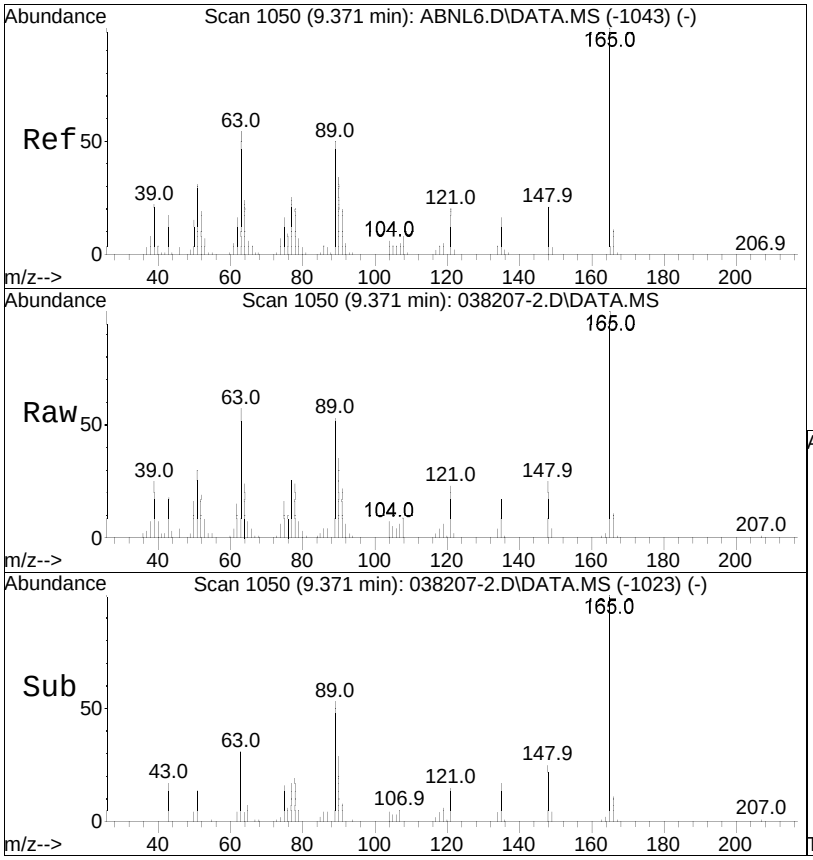


#51
Dimethyl phthalate
Concen: 1.77 ug/ml
RT: 9.329 min Scan# 1046
Delta R.T. 0.000 min
Lab File: 038207-2.D
Acq: 13 Mar 2025 1:50 pm

Tgt Ion:163 Resp: 102114

Ion	Ratio	Lower	Upper
163	100		
194	3.1	3.5	5.3#
164	9.7	7.9	11.9

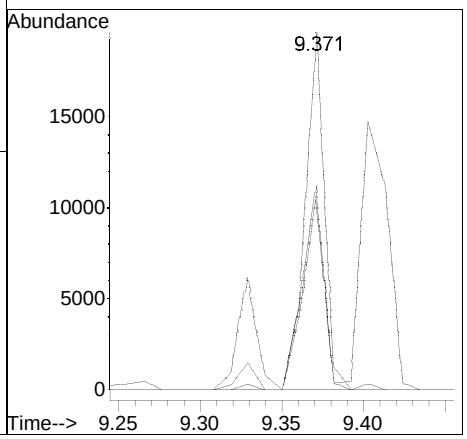


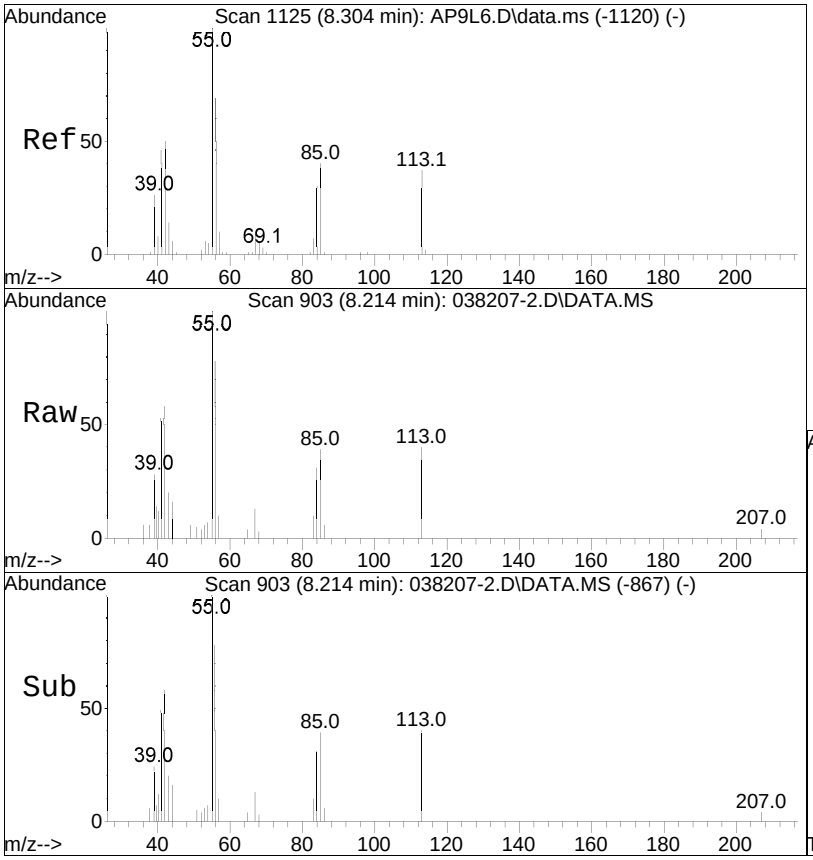


#53
2,6-Dinitrotoluene
Concen: 1.79 ug/ml
RT: 9.371 min Scan# 1050
Delta R.T. 0.000 min
Lab File: 038207-2.D
Acq: 13 Mar 2025 1:50 pm

Tgt Ion:165 Resp: 17204

Ion	Ratio	Lower	Upper
165	100		
89	56.5	54.2	81.2
63	58.9	64.2	96.2#

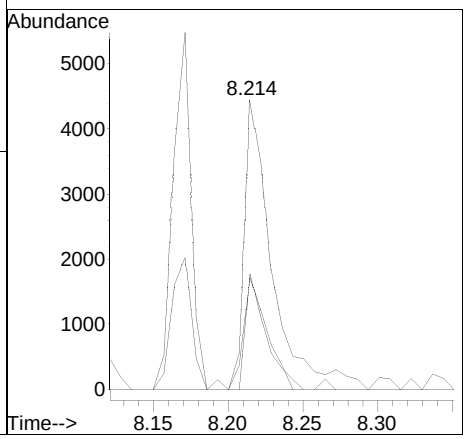


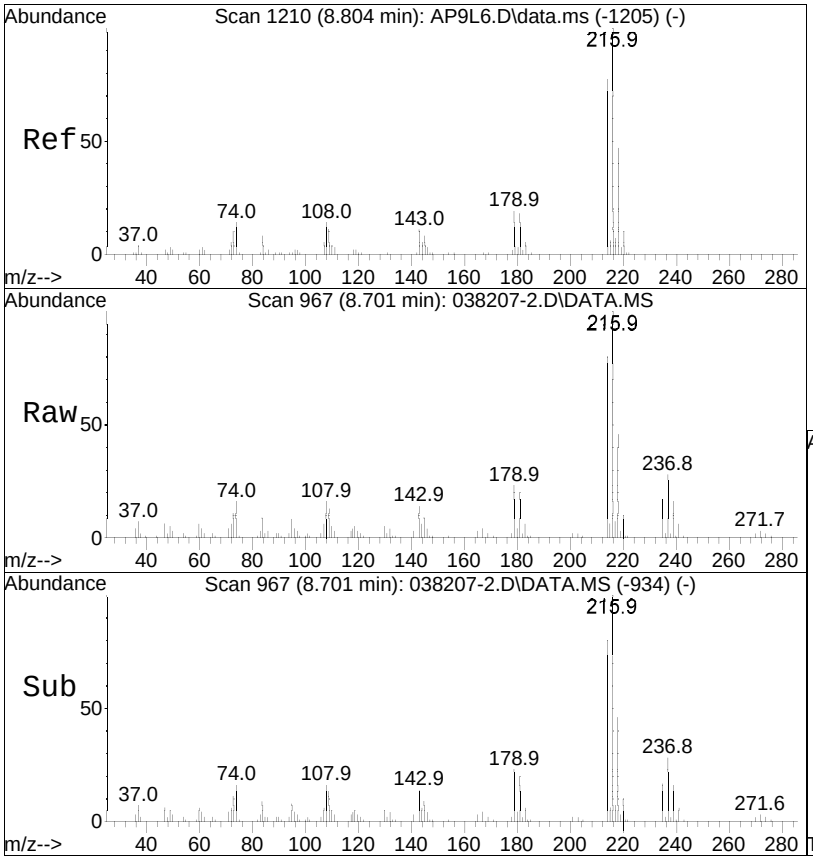


#60
Caprolactam
Concen: 0.56 ug/ml
RT: 8.214 min Scan# 903
Delta R.T. 0.007 min
Lab File: 038207-2.D
Acq: 13 Mar 2025 1:50 pm

Tgt Ion: 55 Resp: 5849

Ion	Ratio	Lower	Upper
55	100		
85	32.1	19.8	29.6#
113	28.9	29.6	44.4#

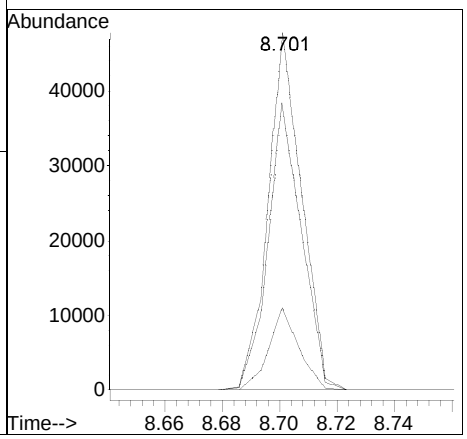


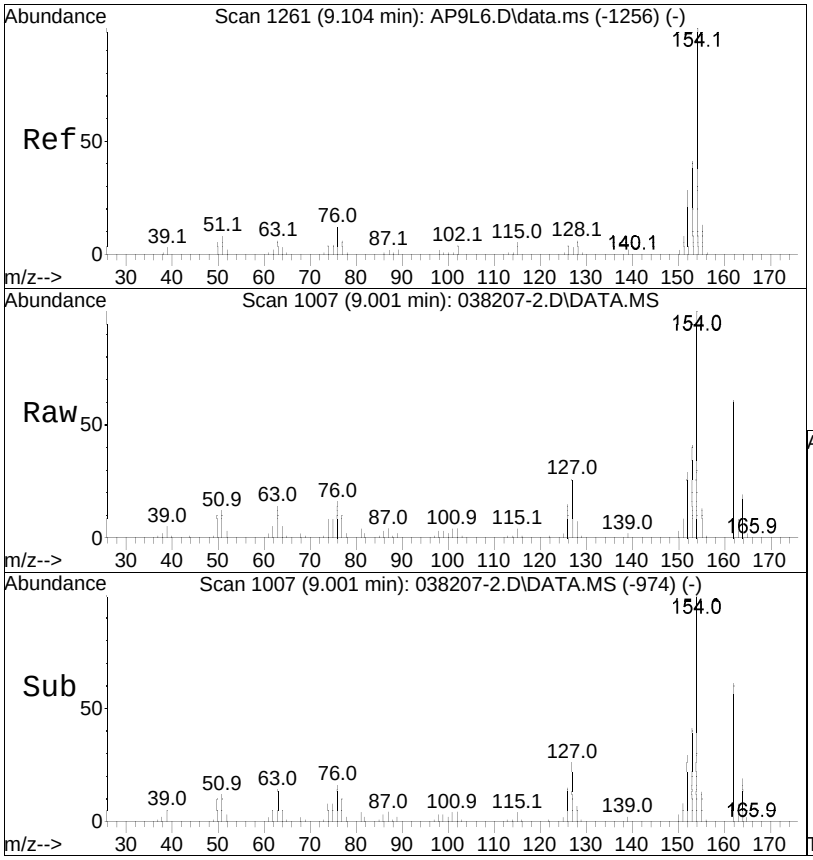


#61
1,2,4,5-Tetrachlorobenzene
Concen: 1.51 ug/ml
RT: 8.701 min Scan# 967
Delta R.T. 0.000 min
Lab File: 038207-2.D
Acq: 13 Mar 2025 1:50 pm

Tgt Ion:216 Resp: 38606

Ion	Ratio	Lower	Upper
216	100		
214	80.1	63.7	95.5
179	20.7	19.0	28.6

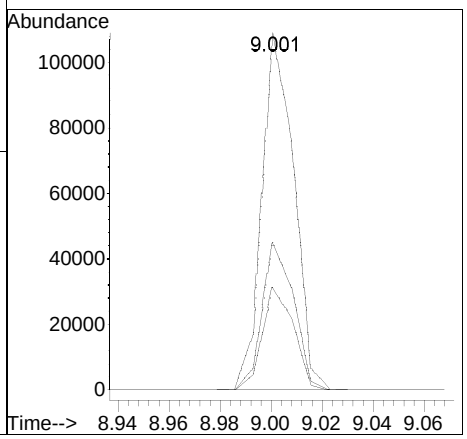


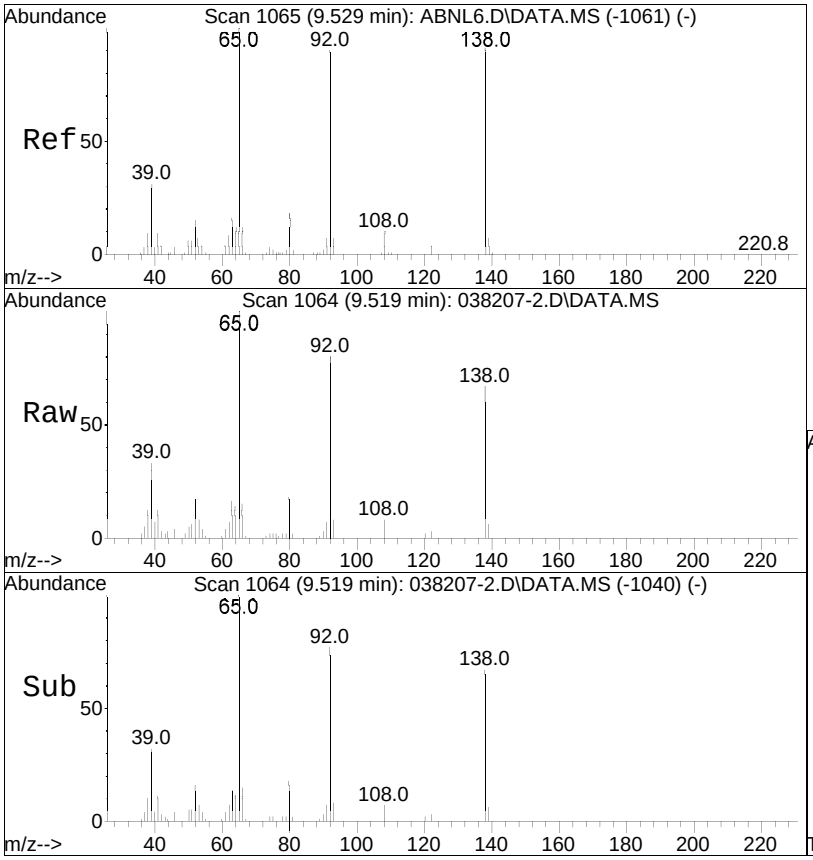


#62
Biphenyl
Concen: 1.67 ug/ml
RT: 9.001 min Scan# 1007
Delta R.T. 0.000 min
Lab File: 038207-2.D
Acq: 13 Mar 2025 1:50 pm

Tgt Ion:154 Resp: 93832

Ion	Ratio	Lower	Upper
154	100		
153	41.0	32.3	48.5
152	28.4	22.5	33.7

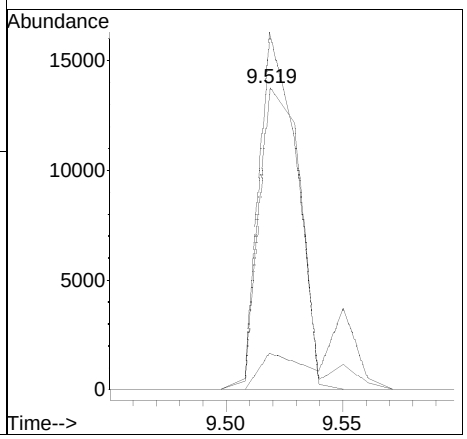


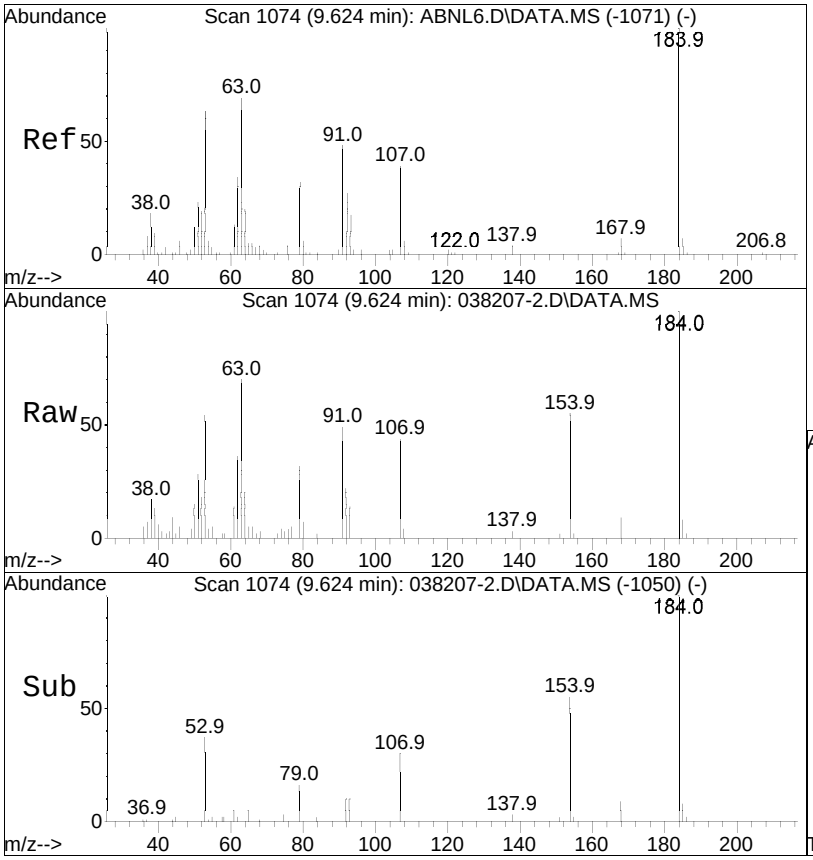


#64
3-Nitroaniline
Concen: 1.68 ug/ml
RT: 9.519 min Scan# 1064
Delta R.T. 0.000 min
Lab File: 038207-2.D
Acq: 13 Mar 2025 1:50 pm

Tgt Ion:138 Resp: 16775

Ion	Ratio	Lower	Upper
138	100		
92	113.6	93.4	140.2
108	30.4	9.5	14.3#

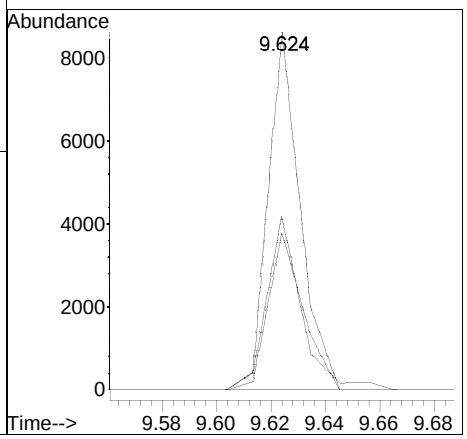


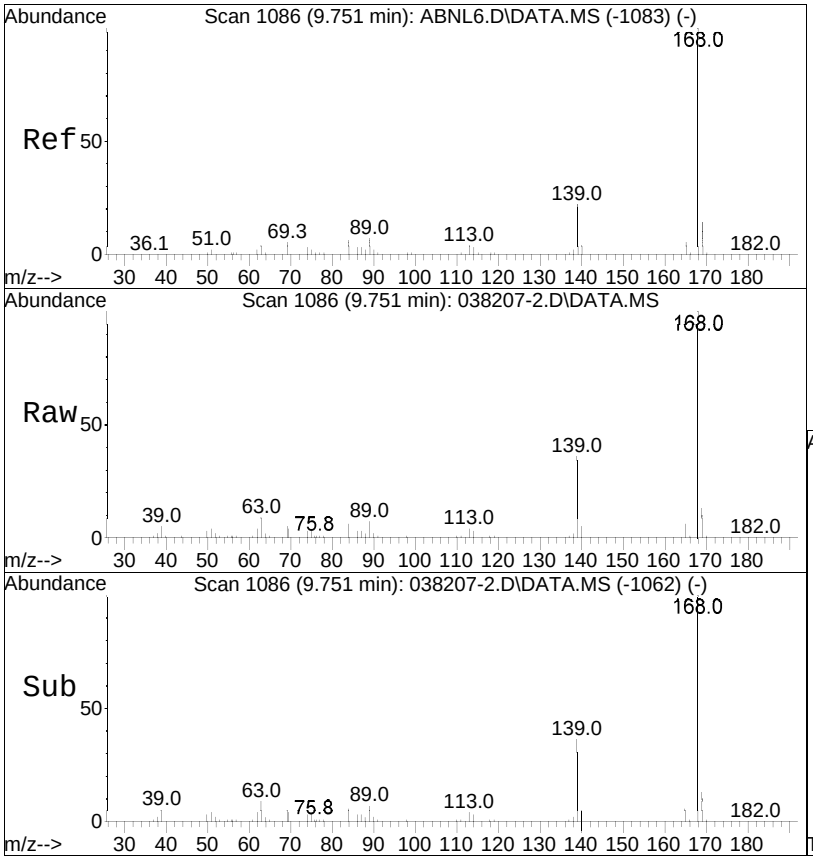


#66
2,4-Dinitrophenol
Concen: 1.46 ug/ml
RT: 9.624 min Scan# 1074
Delta R.T. 0.000 min
Lab File: 038207-2.D
Acq: 13 Mar 2025 1:50 pm

Tgt Ion:184 Resp: 6966

Ion	Ratio	Lower	Upper
184	100		
107	48.1	37.7	56.5
91	52.9	46.3	69.5

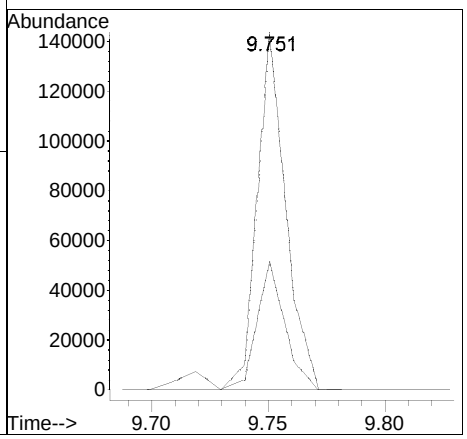


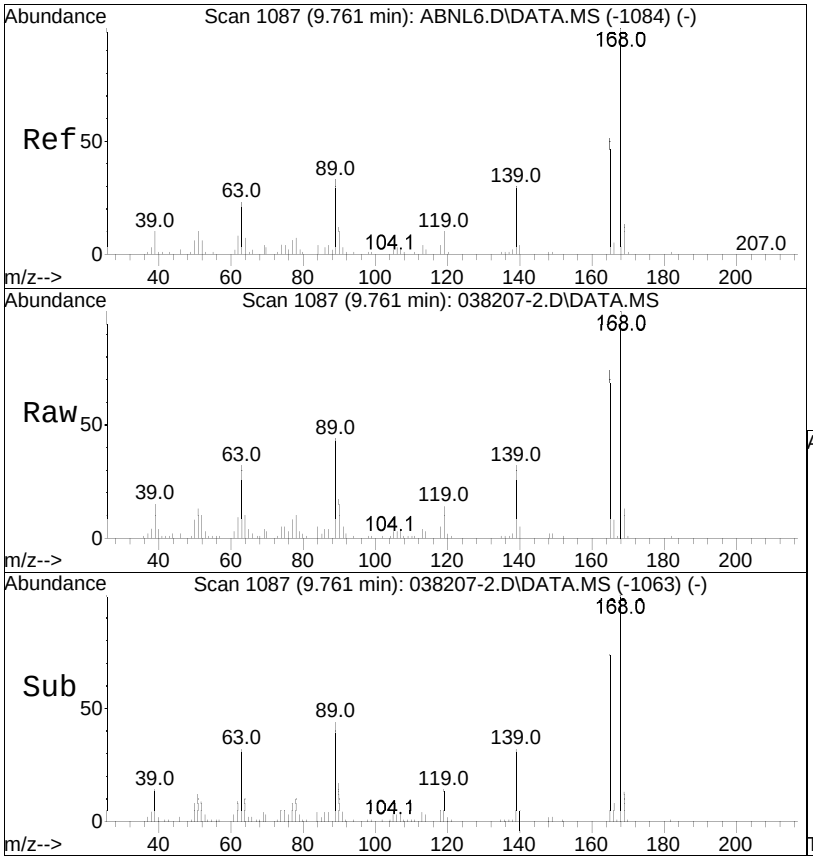


#67
Dibenzofuran
Concen: 1.59 ug/ml
RT: 9.751 min Scan# 1086
Delta R.T. 0.000 min
Lab File: 038207-2.D
Acq: 13 Mar 2025 1:50 pm

Tgt Ion:168 Resp: 119900

Ion	Ratio	Lower	Upper
168	100		
139	41.1	31.4	47.2

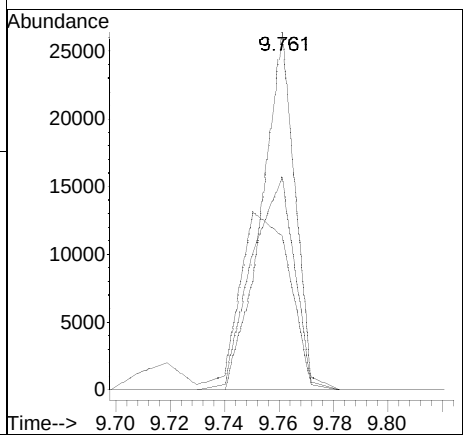


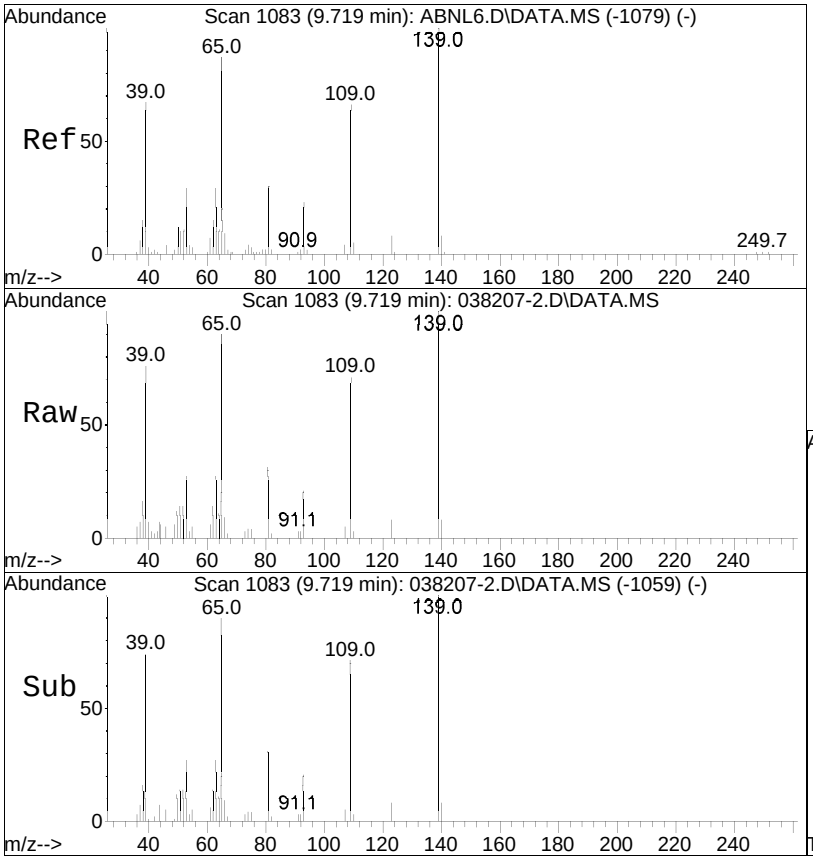


#68
2,4-Dinitrotoluene
Concen: 1.72 ug/ml
RT: 9.761 min Scan# 1087
Delta R.T. 0.000 min
Lab File: 038207-2.D
Acq: 13 Mar 2025 1:50 pm

Tgt Ion:165 Resp: 22335

Ion	Ratio	Lower	Upper
165	100		
89	75.8	72.0	108.0
63	83.6	52.7	79.1#

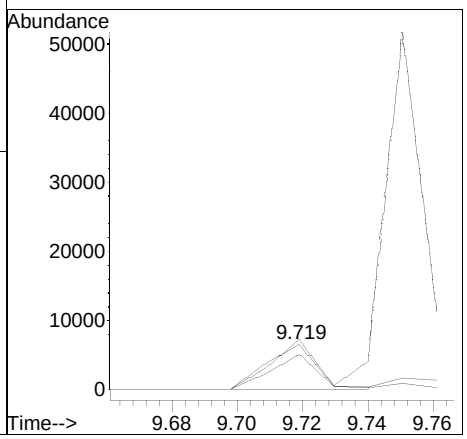


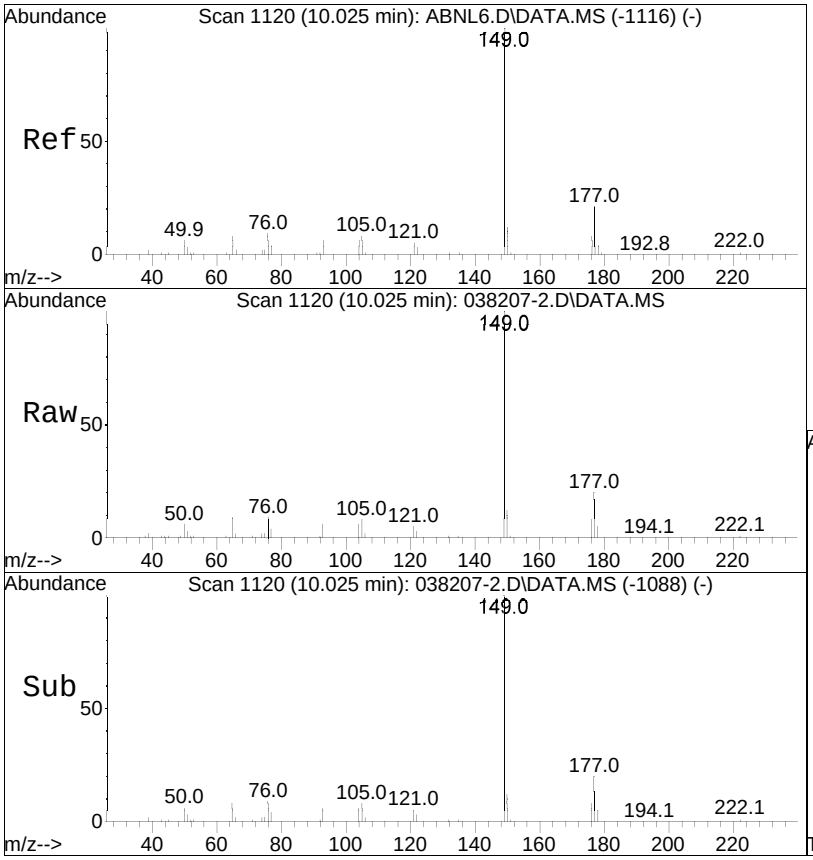


#69
4-Nitrophenol
Concen: 0.93 ug/ml
RT: 9.719 min Scan# 1083
Delta R.T. 0.000 min
Lab File: 038207-2.D
Acq: 13 Mar 2025 1:50 pm

Tgt Ion: 65 Resp: 7065

Ion	Ratio	Lower	Upper
65	100		
109	71.9	47.4	71.2#
139	0.0	76.6	115.0#

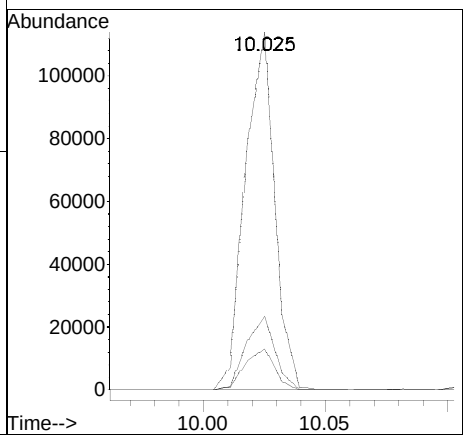


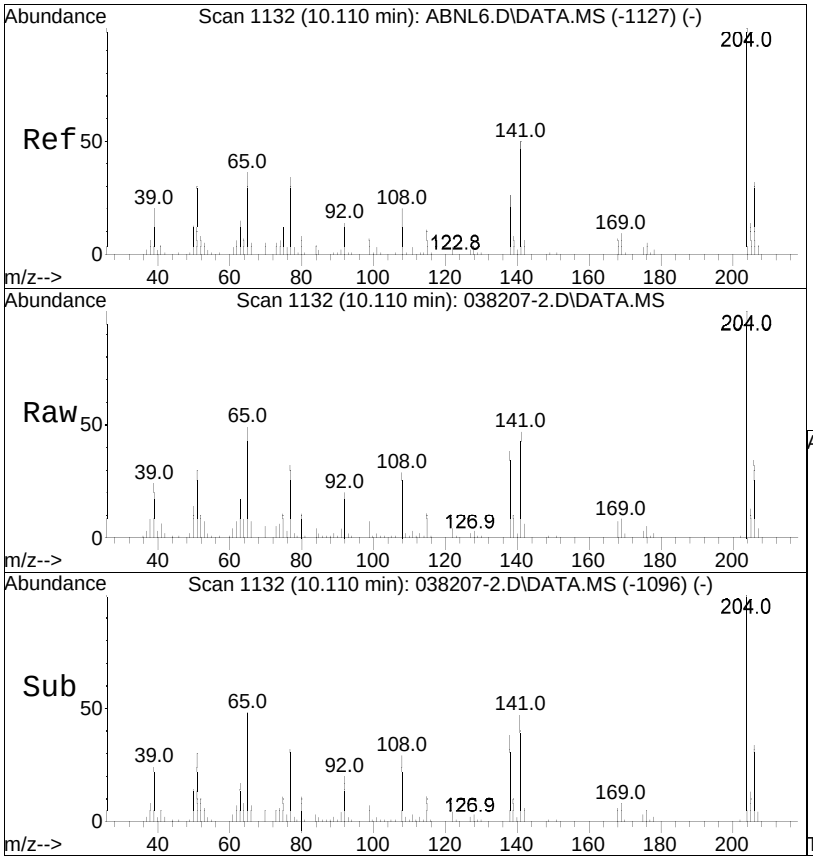


#72
Diethyl phthalate
Concen: 1.76 ug/ml
RT: 10.025 min Scan# 1120
Delta R.T. 0.000 min
Lab File: 038207-2.D
Acq: 13 Mar 2025 1:50 pm

Tgt Ion:149 Resp: 94511

Ion	Ratio	Lower	Upper
149	100		
177	20.4	16.1	24.1
150	11.8	9.4	14.2

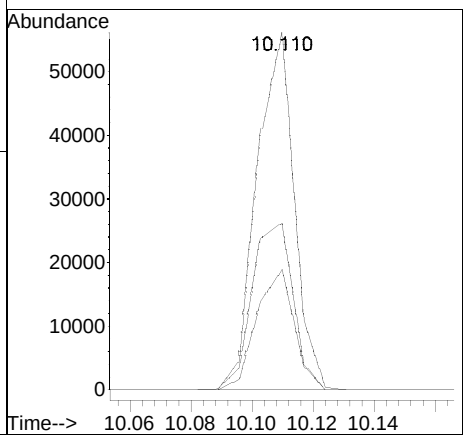


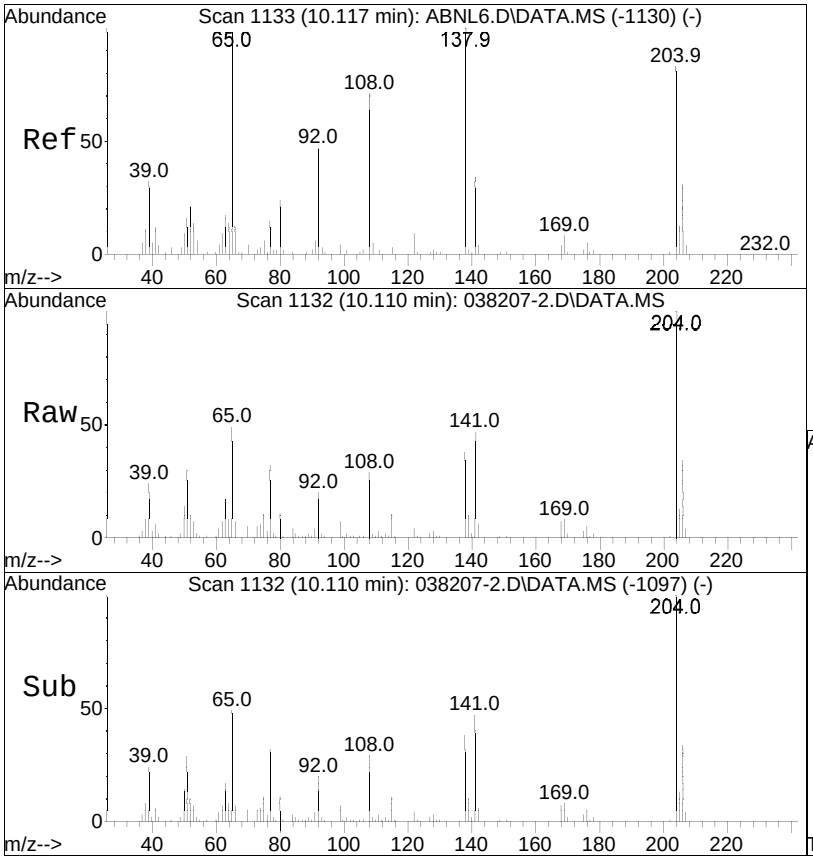


#74
4-Chlorophenyl phenyl ether
Concen: 1.63 ug/ml
RT: 10.110 min Scan# 1132
Delta R.T. 0.007 min
Lab File: 038207-2.D
Acq: 13 Mar 2025 1:50 pm

Tgt Ion:204 Resp: 47393

Ion	Ratio	Lower	Upper
204	100		
206	34.0	25.8	38.6
141	51.4	53.6	80.4#

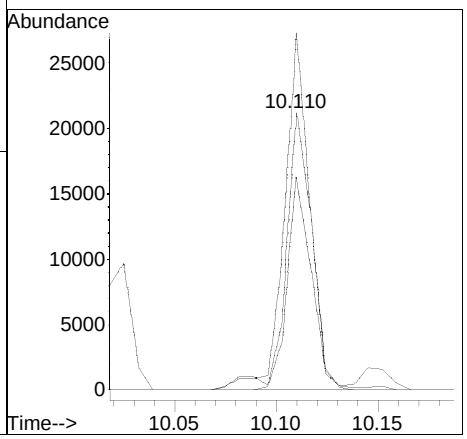


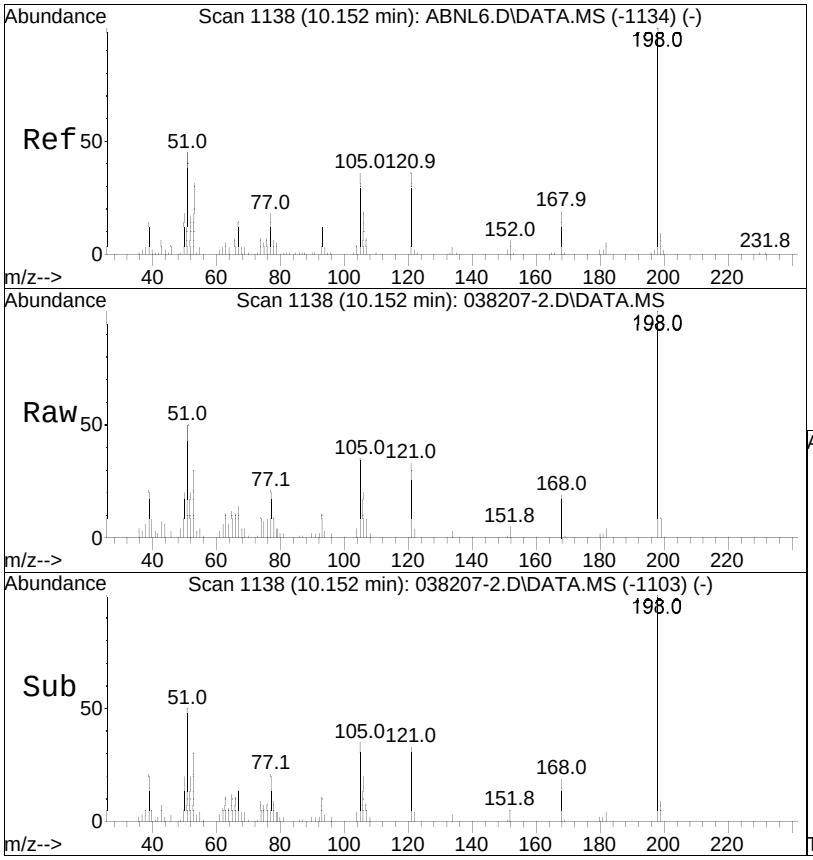


#75
4-Nitroaniline
Concen: 1.94 ug/ml
RT: 10.110 min Scan# 1132
Delta R.T. 0.000 min
Lab File: 038207-2.D
Acq: 13 Mar 2025 1:50 pm

Tgt Ion:138 Resp: 18791

Ion	Ratio	Lower	Upper
138	100		
108	72.3	52.1	78.1
65	124.6	115.0	172.6

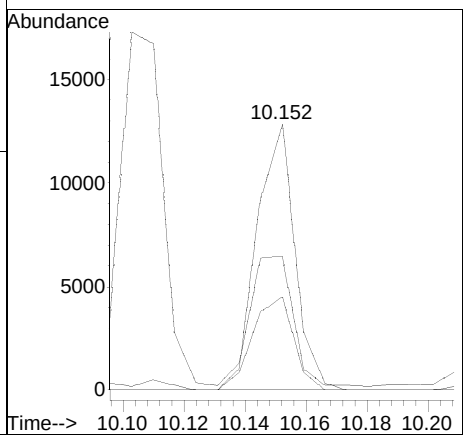


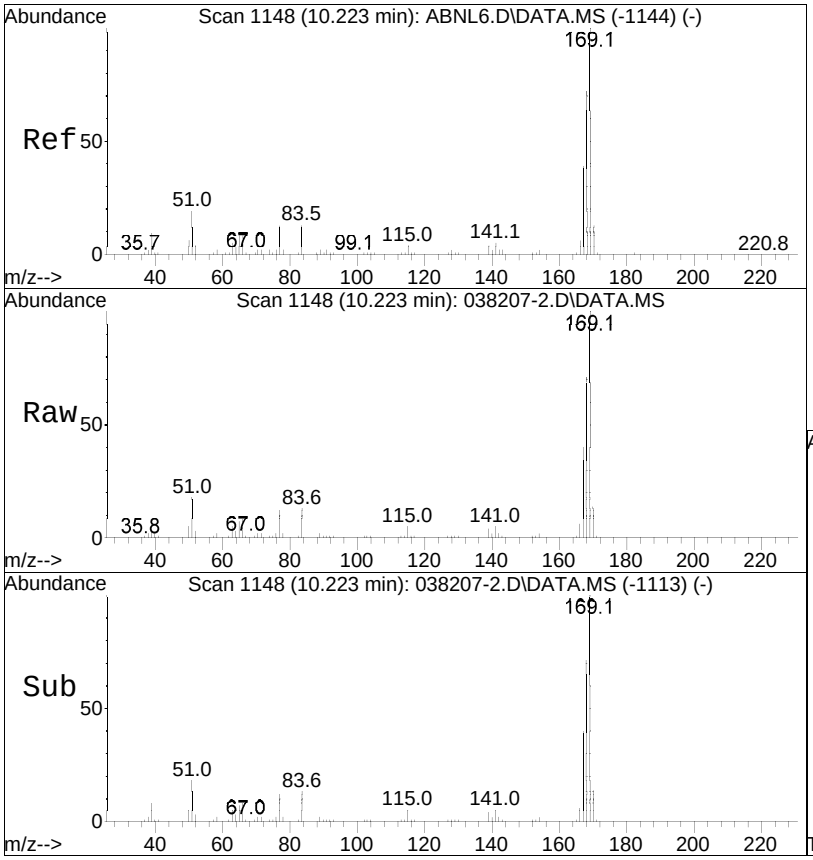


#76
4,6-Dinitro-o-cresol
Concen: 1.65 ug/ml
RT: 10.152 min Scan# 1138
Delta R.T. 0.000 min
Lab File: 038207-2.D
Acq: 13 Mar 2025 1:50 pm

Tgt Ion:198 Resp: 11094

Ion	Ratio	Lower	Upper
198	100		
51	60.2	76.0	114.0#
105	38.0	45.6	68.4#

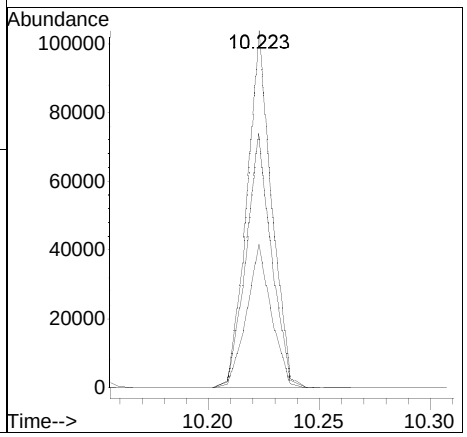


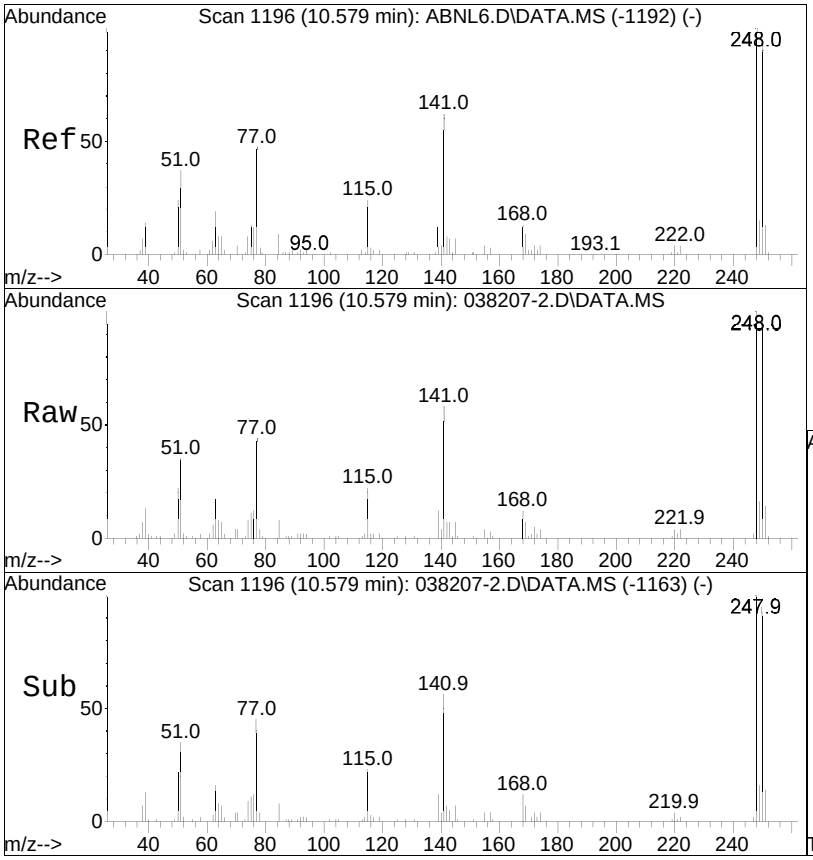


#77
NDPA/DPA
Concen: 1.73 ug/ml
RT: 10.223 min Scan# 1148
Delta R.T. 0.000 min
Lab File: 038207-2.D
Acq: 13 Mar 2025 1:50 pm

Tgt Ion:169 Resp: 80206

Ion	Ratio	Lower	Upper
169	100		
168	73.0	54.0	81.0
167	40.5	28.6	42.8

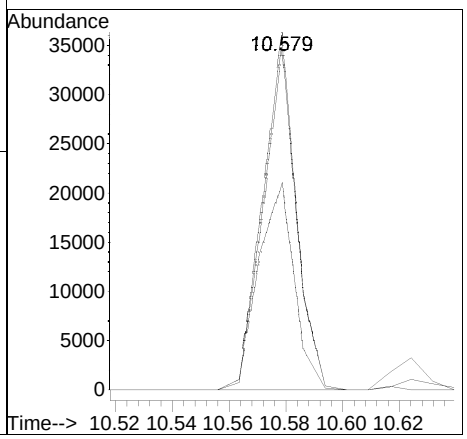


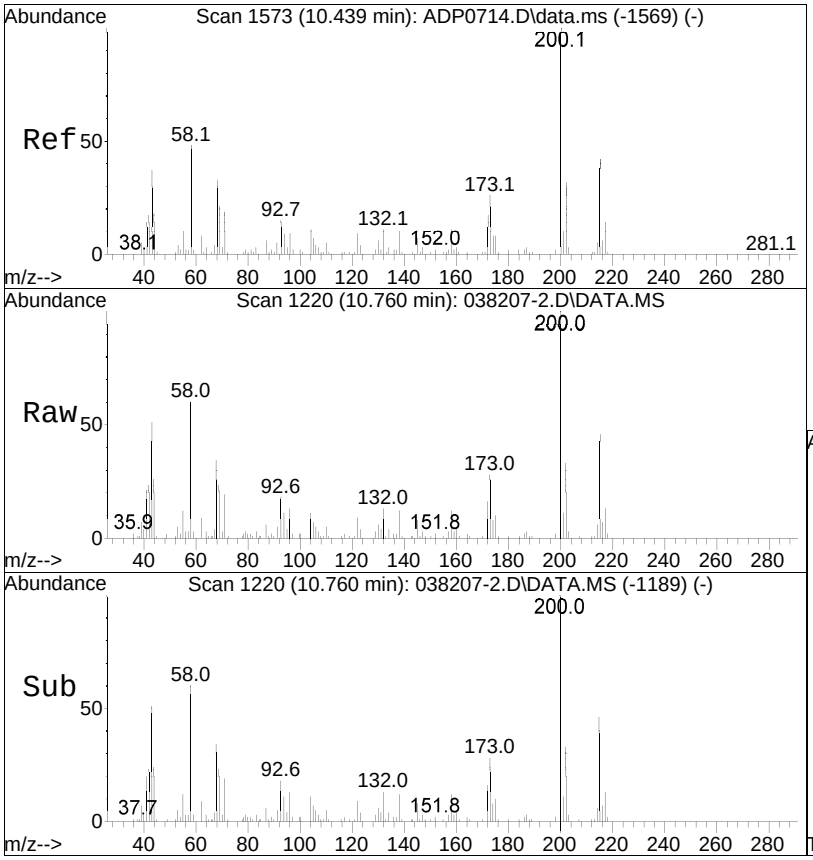


#80
4-Bromophenyl phenyl ether
Concen: 1.59 ug/ml
RT: 10.579 min Scan# 1196
Delta R.T. 0.000 min
Lab File: 038207-2.D
Acq: 13 Mar 2025 1:50 pm

Tgt Ion:248 Resp: 29156

Ion	Ratio	Lower	Upper
248	100		
141	62.5	76.6	114.8#
250	95.6	77.3	115.9

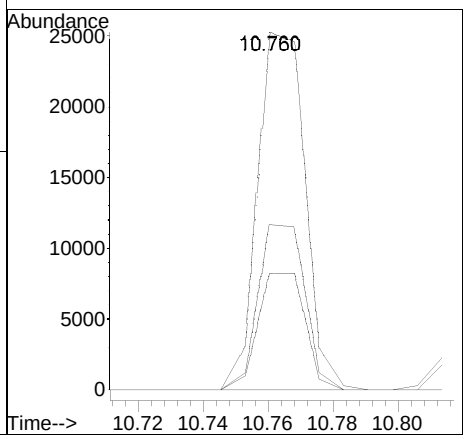


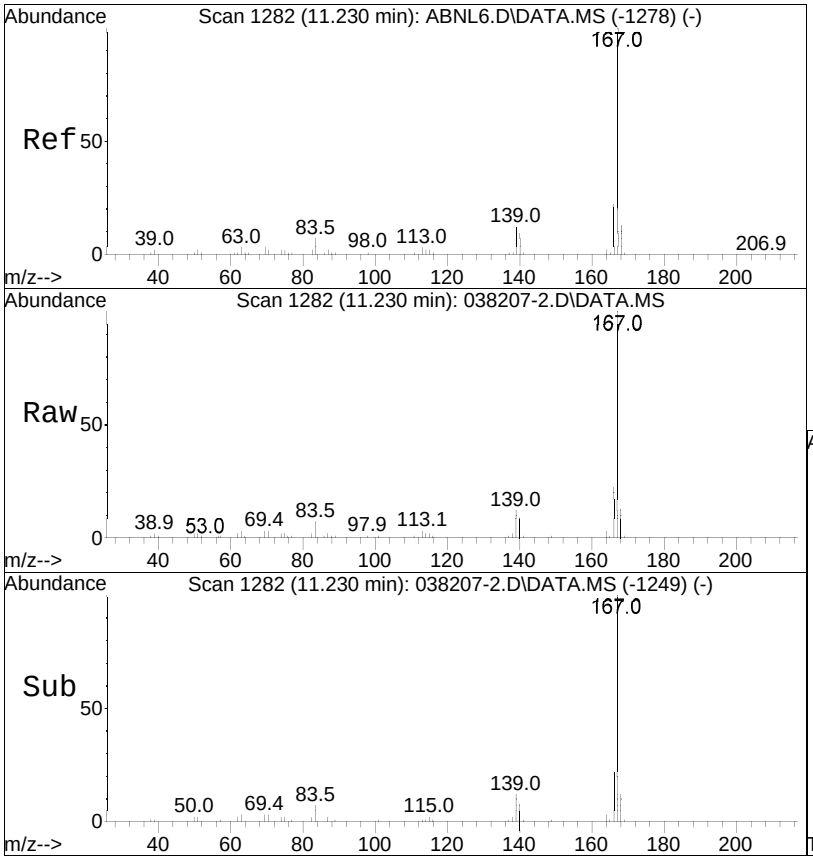


#87
Atrazine
Concen: 1.76 ug/ml
RT: 10.760 min Scan# 1220
Delta R.T. -0.000 min
Lab File: 038207-2.D
Acq: 13 Mar 2025 1:50 pm

Tgt Ion:200 Resp: 25495

Ion	Ratio	Lower	Upper
200	100		
202	32.6	25.8	38.6
215	45.7	40.2	60.4

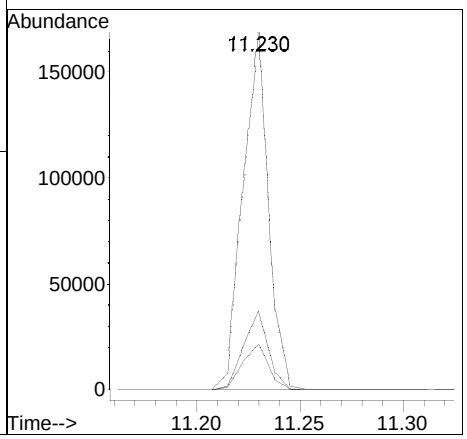


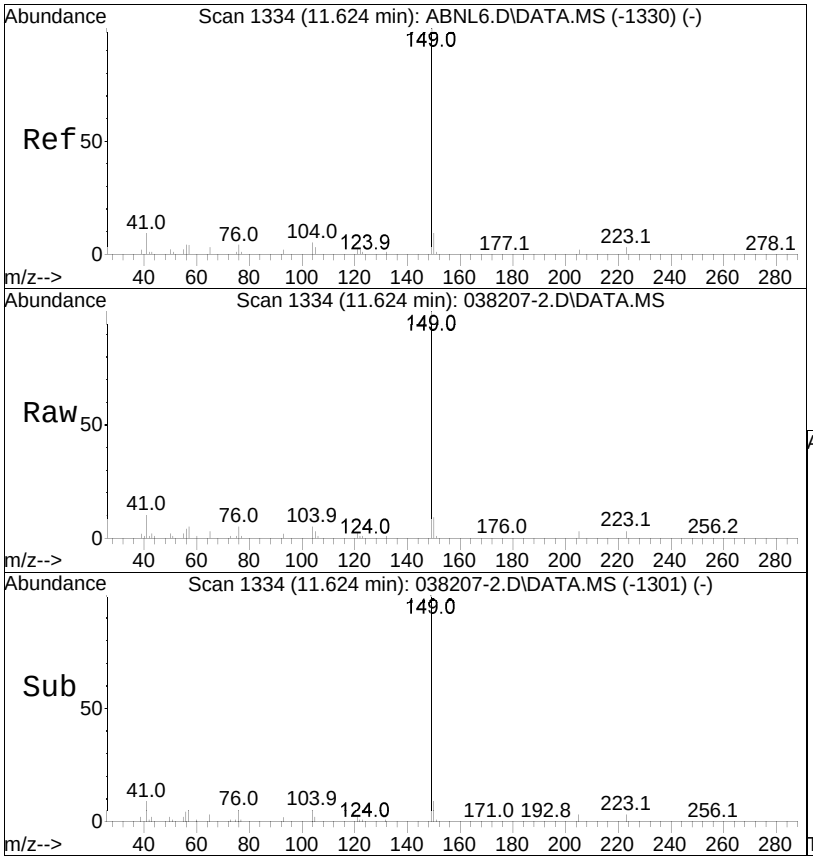


#91
Carbazole
Concen: 1.82 ug/ml
RT: 11.230 min Scan# 1282
Delta R.T. 0.000 min
Lab File: 038207-2.D
Acq: 13 Mar 2025 1:50 pm

Tgt Ion:167 Resp: 142766

Ion	Ratio	Lower	Upper
167	100		
168	13.3	10.6	15.8
166	21.7	17.4	26.0

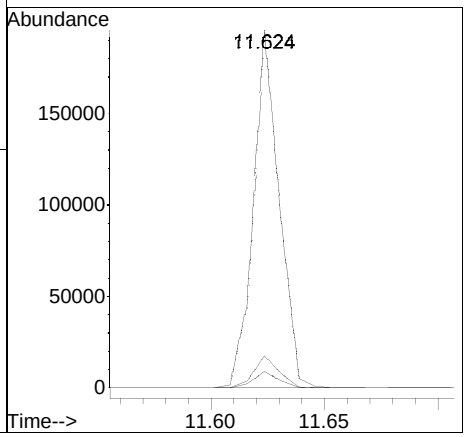


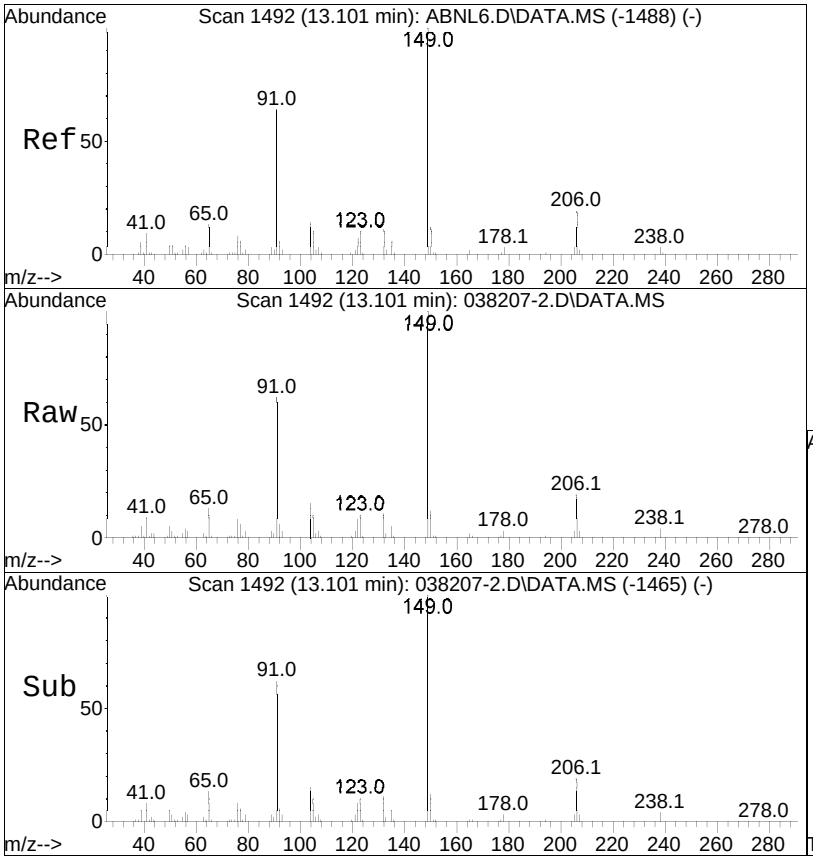


#92
Di-n-butylphthalate
Concen: 1.72 ug/ml
RT: 11.624 min Scan# 1334
Delta R.T. 0.000 min
Lab File: 038207-2.D
Acq: 13 Mar 2025 1:50 pm

Tgt Ion:149 Resp: 151730

Ion	Ratio	Lower	Upper
149	100		
150	8.8	7.0	10.6
104	4.7	4.5	6.7

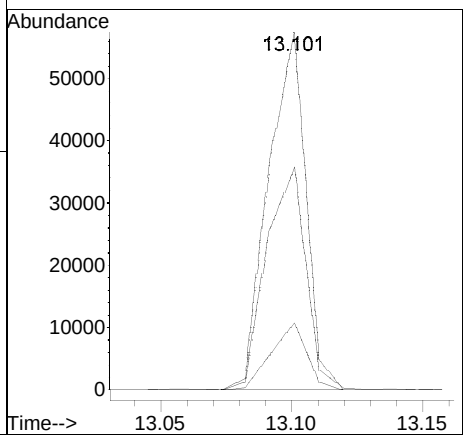


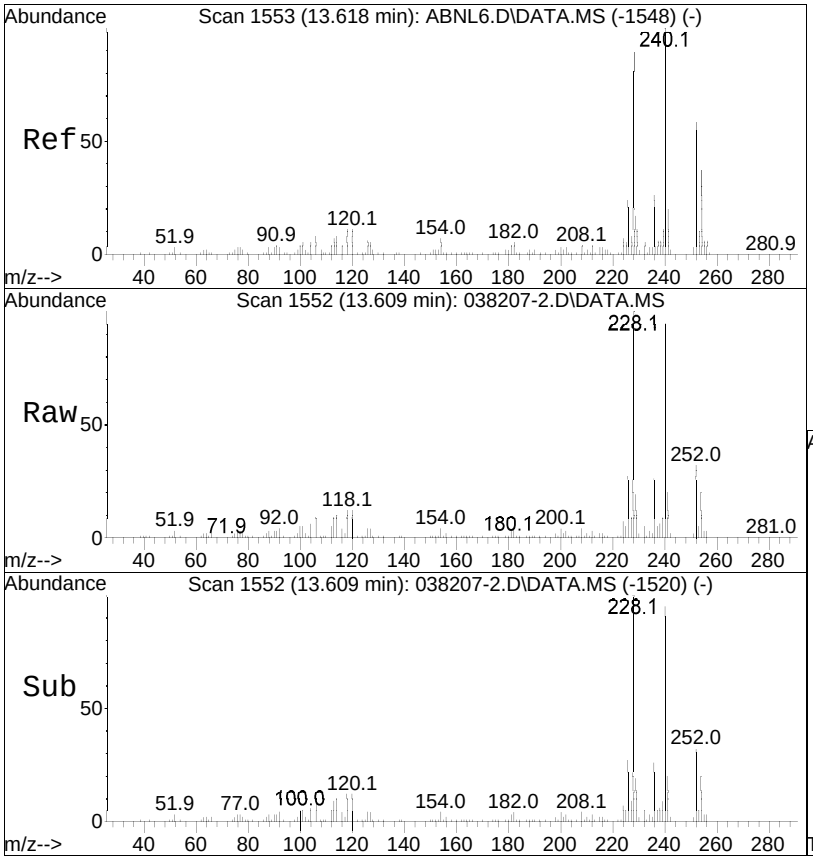


#97
Butyl benzyl phthalate
Concen: 1.67 ug/ml
RT: 13.101 min Scan# 1492
Delta R.T. 0.000 min
Lab File: 038207-2.D
Acq: 13 Mar 2025 1:50 pm

Tgt Ion:149 Resp: 56497

Ion	Ratio	Lower	Upper
149	100		
91	66.3	63.3	94.9
206	18.4	13.9	20.9

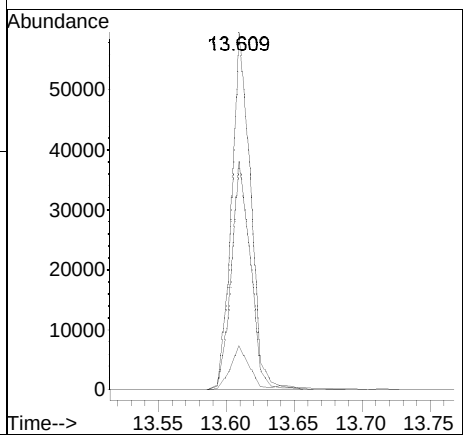


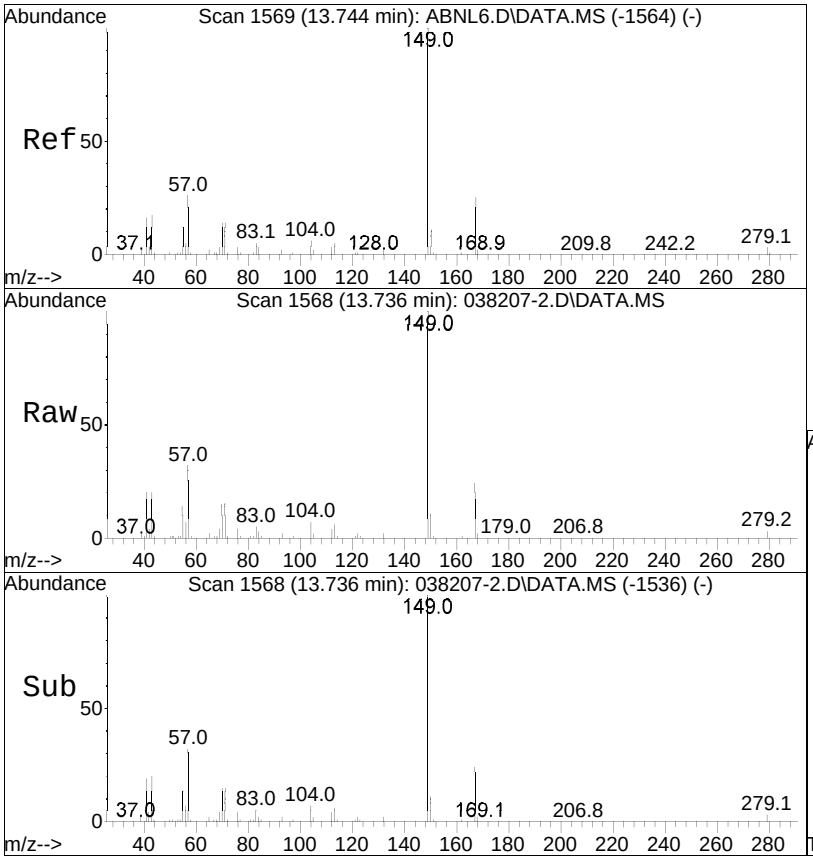


#106
3,3'-Dichlorobenzidine
Concen: 1.72 ug/ml
RT: 13.609 min Scan# 1552
Delta R.T. 0.000 min
Lab File: 038207-2.D
Acq: 13 Mar 2025 1:50 pm

Tgt Ion:252 Resp: 57979

Ion	Ratio	Lower	Upper
252	100		
126	12.4	14.5	21.7#
254	64.0	51.2	76.8

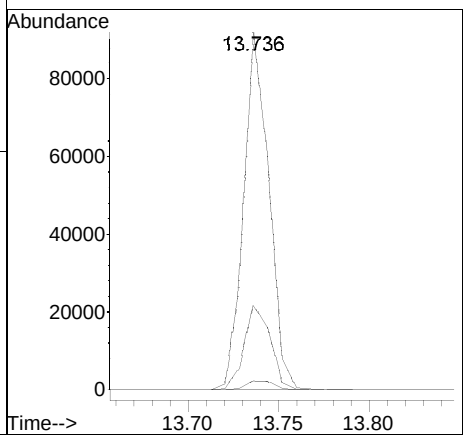


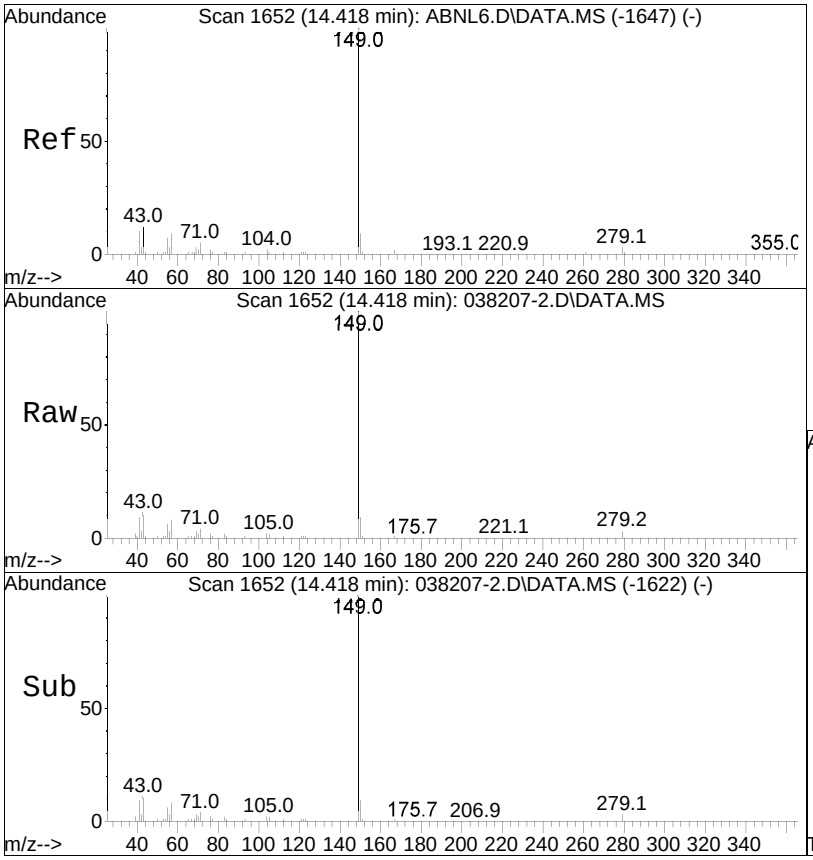


#108
Bis(2-ethylhexyl)phthalate
Concen: 1.67 ug/ml
RT: 13.736 min Scan# 1568
Delta R.T. 0.000 min
Lab File: 038207-2.D
Acq: 13 Mar 2025 1:50 pm

Tgt Ion:149 Resp: 88317

Ion	Ratio	Lower	Upper
149	100		
167	24.7	22.1	33.1
279	2.9	3.0	4.4#

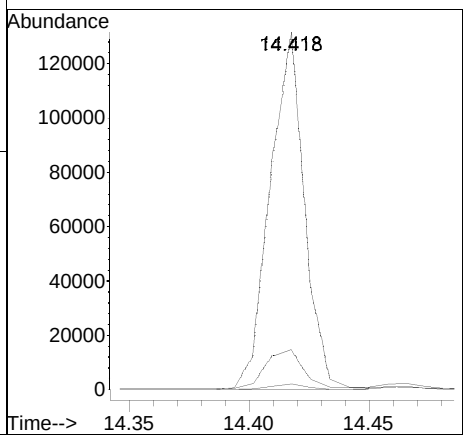




#109
Di-n-octylphthalate
Concen: 1.66 ug/ml
RT: 14.418 min Scan# 1652
Delta R.T. 0.000 min
Lab File: 038207-2.D
Acq: 13 Mar 2025 1:50 pm

Tgt Ion:149 Resp: 129205

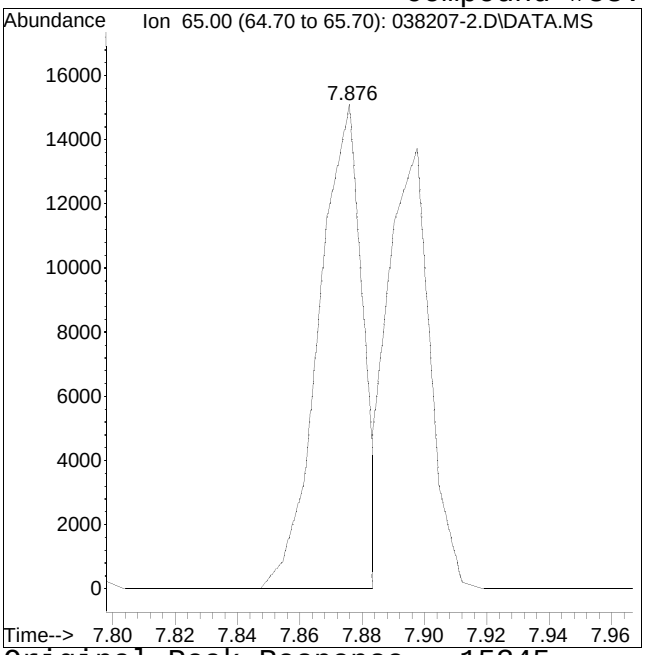
Ion	Ratio	Lower	Upper
149	100		
43	12.7	18.8	28.2#
167	1.4	1.3	1.9

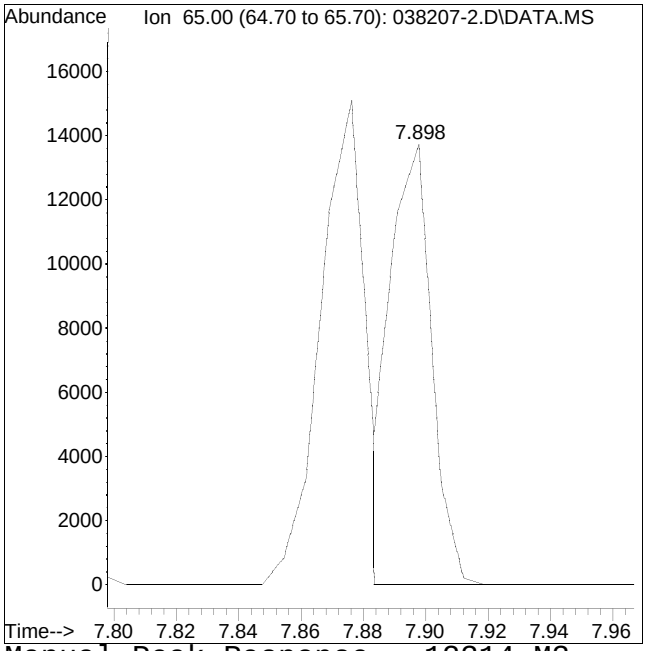


Manual Integration Report

Data Path	: I:\8270\SV106\250313RVT\	QMethod	: FS250311SV106.m
Data File	: 038207-2.D	Operator	: SV106:jg
Date Inj'd	: 3/13/2025 1:50 pm	Instrument	: SV 106
Sample	: WG2038207-2,32,,gmr	Quant Date	: 3/13/2025 4:37 pm

Compound #38: 4-Chloroaniline





Original Peak Response = 15345 Manual Peak Response = 12314 M3

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250313RVT\
Data File : 038207-3.D
Acq On : 13 Mar 2025 2:13 pm
Operator : SV106:jg
Sample : WG2038207-3,32,,gmr
Misc : WG2040166,WG2038207,ical22075
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 13 17:48:48 2025
Quant Method : I:\8270\SV106\250313RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 16:35:56 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250313RVT\ABN0313.D
: 2 - I:\8270\SV106\250313RVT\ADP0313.D
: 3 - I:\8270\SV106\250313RVT\AP90313.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.351	152	97575	4.000	ug/ml		0.00
Standard Area 1 = 59871			Recovery = 162.98%				
27) IS2_1,4-Dichlorobenzen...	6.351	152	97575	4.000	ug/ml		0.00
Standard Area 3 = 57135			Recovery = 170.78%				
32) IS3_1,4-Dichlorobenzen...	6.351	152	97575	4.000	ug/ml		0.00
Standard Area 2 = 59091			Recovery = 165.13%				
35) IS1_Naphthalene-d8	7.790	136	367413	4.000	ug/ml	#	0.00
Standard Area 1 = 230532			Recovery = 159.38%				
55) IS2_Naphthalene-d8	7.790	136	367413	4.000	ug/ml	#	0.00
Standard Area 3 = 214914			Recovery = 170.96%				
63) IS1_Acenaphthene-d10	9.550	164	227741	4.000	ug/ml		0.00
Standard Area 1 = 140631			Recovery = 161.94%				
83) IS2_Acenaphthene-d10	9.550	164	227741	4.000	ug/ml		0.00
Standard Area 3 = 134336			Recovery = 169.53%				
86) IS3_Acenaphthene-d10	9.550	164	227741	4.000	ug/ml		0.00
Standard Area 2 = 132555			Recovery = 171.81%				
88) IS1_Phenanthrene-d10	10.988	188	453536	4.000	ug/ml	#	0.00
Standard Area 1 = 279147			Recovery = 162.47%				
100) IS3_Phenanthrene-d10	10.988	188	453536	4.000	ug/ml	#	0.00
Standard Area 2 = 278241			Recovery = 163.00%				
104) IS1_Chrysene-d12	13.617	240	464174	4.000	ug/ml		0.00
Standard Area 1 = 296814			Recovery = 156.39%				
113) IS1_Perylene-d12	15.079	264	488339	4.000	ug/ml		0.00
Standard Area 1 = 301762			Recovery = 161.83%				
System Monitoring Compounds							
4) 2-Fluorophenol	4.377	112	25351	0.921	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 46.05%				
7) Phenol-d6	5.985	99	22289	0.691	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 34.55%				
19) Nitrobenzene-d5	7.017	82	25685	0.961	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 96.10%				
46) 2-Fluorobiphenyl	8.911	172	75803	0.894	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 89.40%				
79) 2,4,6-Tribromophenol	10.321	330	19610	1.675	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 83.75%				

Data Path : I:\8270\SV106\250313RVT\
Data File : 038207-3.D
Acq On : 13 Mar 2025 2:13 pm
Operator : SV106:jg
Sample : WG2038207-3,32,,gmr
Misc : WG2040166,WG2038207,ical22075
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 13 17:48:48 2025
Quant Method : I:\8270\SV106\250313RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 16:35:56 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250313RVT\ABN0313.D
: 2 - I:\8270\SV106\250313RVT\ADP0313.D
: 3 - I:\8270\SV106\250313RVT\AP90313.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	12.576	244	104904	0.892	ug/ml	0.00

Spiked Amount 1.000 Range 30 - 130 Recovery = 89.20%

Target Compounds						Qvalue
6) 2-Chlorophenol	6.087	128	44660	1.503	ug/ml	93
8) Phenol	6.002	94	25205	0.708	ug/ml	99
14) Bis(2-chloroisopropyl)...	6.747	45	127935	1.940	ug/ml#	81
15) 2-Methylphenol	6.739	108	41118	1.314	ug/ml	92
17) n-Nitrosodi-n-propylamine	6.897	70	39251	1.883	ug/ml	94
18) 3-Methylphenol/4-Methy...	6.927	108	36622	1.352	ug/ml	97
20) Nitrobenzene	7.040	77	48844	1.791	ug/ml	99
21) Isophorone	7.318	82	101652	1.815	ug/ml	99
22) 2-Nitrophenol	7.393	139	21596	1.739	ug/ml	89
23) 2,4-Dimethylphenol	7.498	107	34632	1.185	ug/ml	96
24) Bis(2-chloroethoxy)met...	7.595	93	67572	1.690	ug/ml	99
25) 2,4-Dichlorophenol	7.660	162	46376	1.672	ug/ml#	94
28) Benzaldehyde	5.773	105	43135	1.854	ug/ml	95
29) Acetophenone	6.860	105	80656	2.009	ug/ml#	90
38) 4-Chloroaniline	7.898	65	19614M3	1.623	ug/ml	
40) p-Chloro-m-cresol	8.424	107	47089	1.577	ug/ml	96
43) Hexachlorocyclopentadiene	8.708	237	21936	0.796	ug/ml	97
44) 2,4,6-Trichlorophenol	8.828	196	37567	1.628	ug/ml	98
45) 2,4,5-Trichlorophenol	8.858	196	40360	1.724	ug/ml	99
48) 2-Nitroaniline	9.120	138	29774	1.950	ug/ml	88
51) Dimethyl phthalate	9.329	163	150450	1.803	ug/ml#	99
53) 2,6-Dinitrotoluene	9.371	165	28205	2.037	ug/ml#	78
60) Caprolactam	8.214	55	8894	0.588	ug/ml#	90
61) 1,2,4,5-Tetrachloroben...	8.701	216	54504	1.478	ug/ml	98
62) Biphenyl	9.000	154	134839	1.658	ug/ml	97
64) 3-Nitroaniline	9.519	138	27178	1.892	ug/ml#	91
66) 2,4-Dinitrophenol	9.624	184	7234	1.082	ug/ml	90
67) Dibenzofuran	9.751	168	176103	1.616	ug/ml	97
68) 2,4-Dinitrotoluene	9.761	165	33488	1.782	ug/ml#	85
69) 4-Nitrophenol	9.719	65	10660	0.973	ug/ml#	35
72) Diethyl phthalate	10.025	149	144435	1.867	ug/ml	99
74) 4-Chlorophenyl phenyl ...	10.110	204	69474	1.654	ug/ml#	87
75) 4-Nitroaniline	10.110	138	28734	2.056	ug/ml	87

Data Path : I:\8270\SV106\250313RVT\
Data File : 038207-3.D
Acq On : 13 Mar 2025 2:13 pm
Operator : SV106:jg
Sample : WG2038207-3,32,,gmr
Misc : WG2040166,WG2038207,ical22075
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 13 17:48:48 2025
Quant Method : I:\8270\SV106\250313RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 16:35:56 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\250313RVT\ABN0313.D
: 2 - I:\8270\SV106\250313RVT\ADP0313.D
: 3 - I:\8270\SV106\250313RVT\AP90313.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
76) 4,6-Dinitro-o-cresol	10.152	198	15885	1.643 ug/ml#	67
77) NDPA/DPA	10.223	169	119198	1.781 ug/ml	93
80) 4-Bromophenyl phenyl e...	10.579	248	42751	1.621 ug/ml#	84
87) Atrazine	10.768	200	39028	1.875 ug/ml	96
91) Carbazole	11.230	167	209455	1.868 ug/ml	98
92) Di-n-butylphthalate	11.624	149	270092	2.134 ug/ml#	96
97) Butyl benzyl phthalate	13.101	149	92863	1.865 ug/ml	91
106) 3,3'-Dichlorobenzidine	13.609	252	94277	1.894 ug/ml#	97
108) Bis(2-ethylhexyl)phtha...	13.736	149	140807	1.789 ug/ml#	94
109) Di-n-octylphthalate	14.418	149	216192	1.817 ug/ml#	78

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\250313RVT\
Data File : 038207-3.D
Acq On : 13 Mar 2025 2:13 pm
Operator : SV106:jg
Sample : WG2038207-3,32,,gmr
Misc : WG2040166,WG2038207,ical22075
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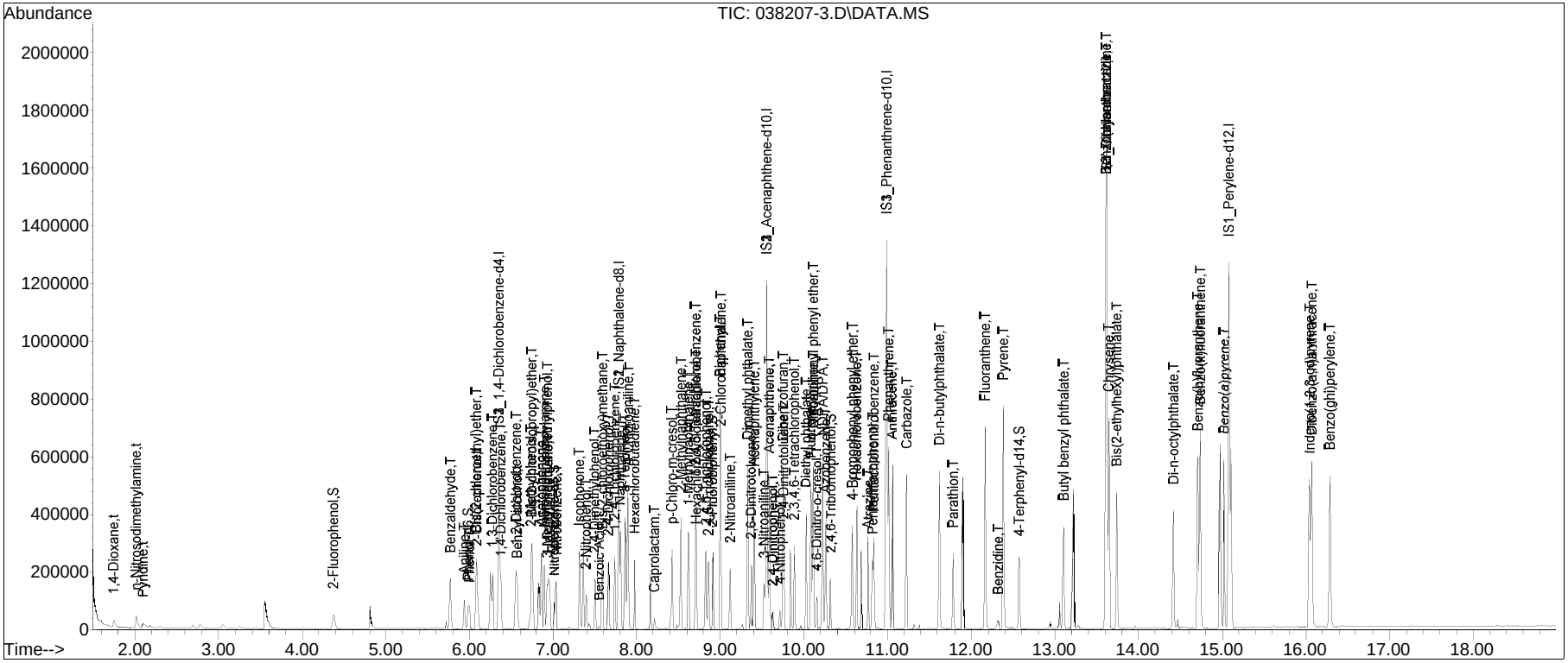
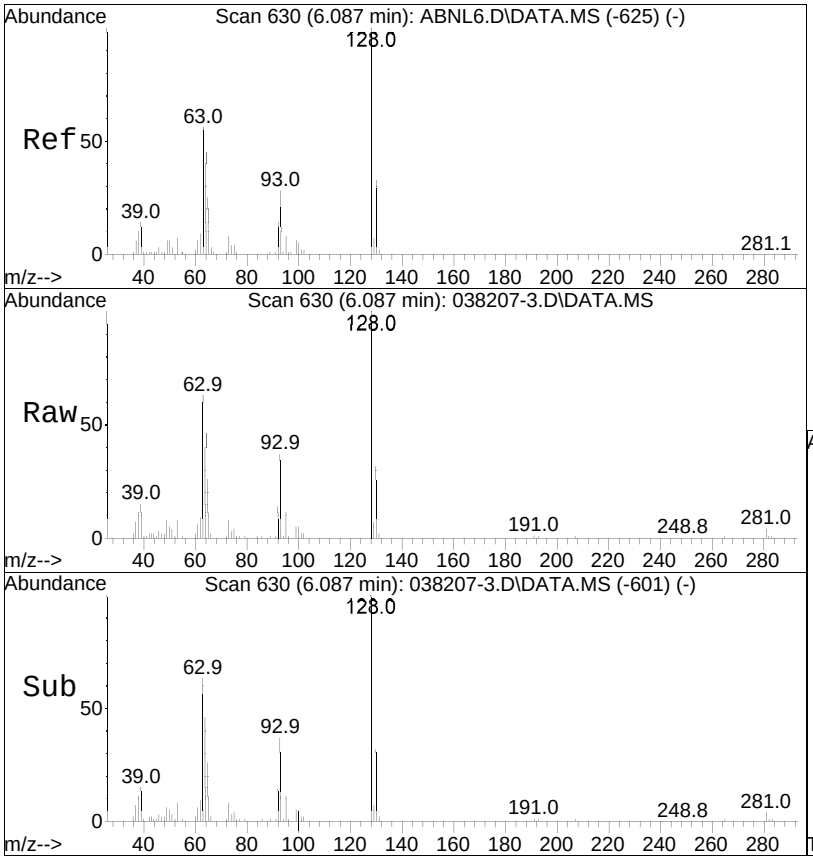
Quant Time: Mar 13 17:48:48 2025
Quant Method : I:\8270\SV106\250313RVT\FS250311SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 16:35:56 2025
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MARVT\AP90313.D•

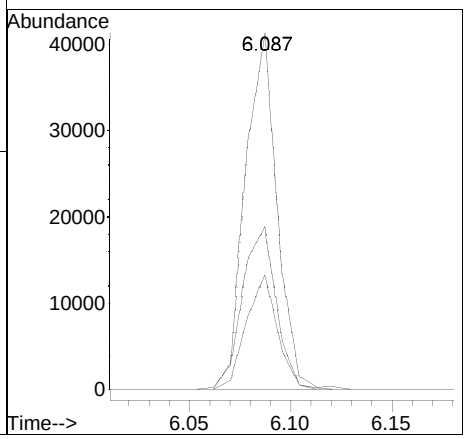


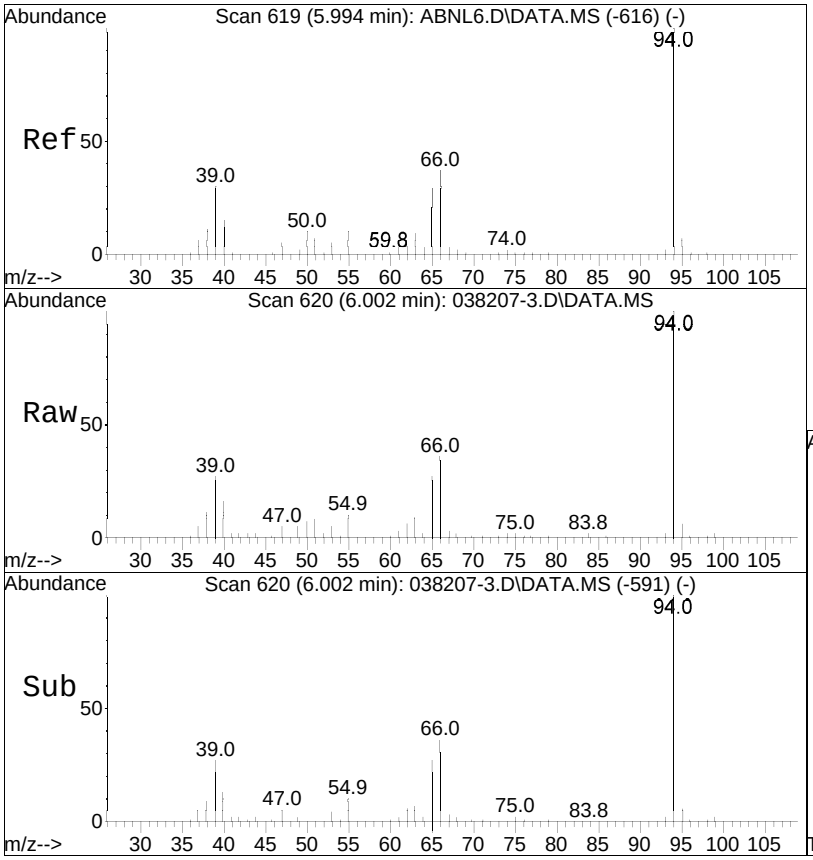


#6
2-Chlorophenol
Concen: 1.50 ug/ml
RT: 6.087 min Scan# 630
Delta R.T. 0.000 min
Lab File: 038207-3.D
Acq: 13 Mar 2025 2:13 pm

Tgt Ion:128 Resp: 44660

Ion	Ratio	Lower	Upper
128	100		
64	49.2	45.1	67.7
130	31.8	26.2	39.4

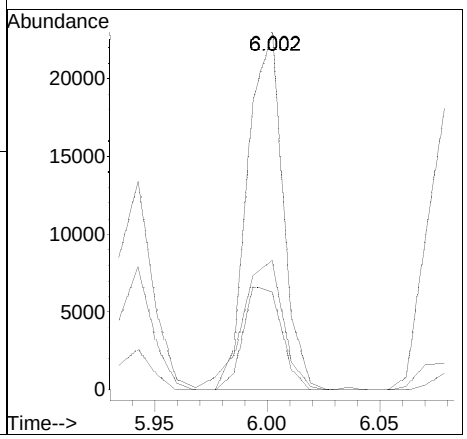


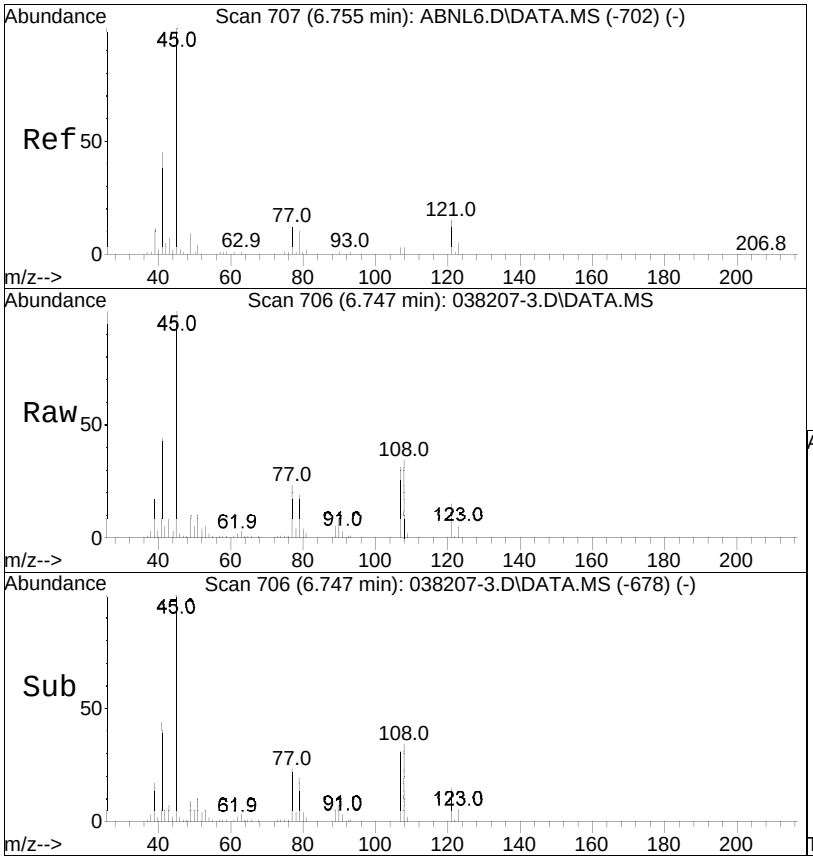


#8
Phenol
Concen: 0.71 ug/ml
RT: 6.002 min Scan# 620
Delta R.T. 0.000 min
Lab File: 038207-3.D
Acq: 13 Mar 2025 2:13 pm

Tgt Ion: 94 Resp: 25205

Ion	Ratio	Lower	Upper
94	100		
65	31.0	26.0	39.0
66	41.9	33.8	50.8

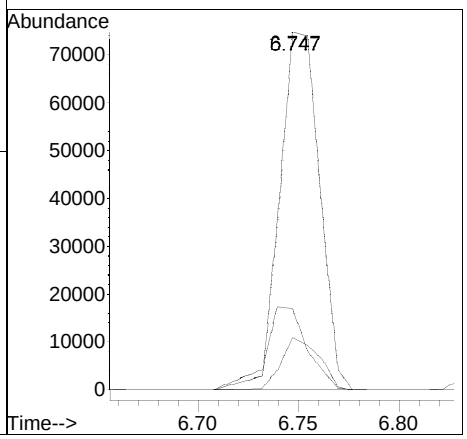


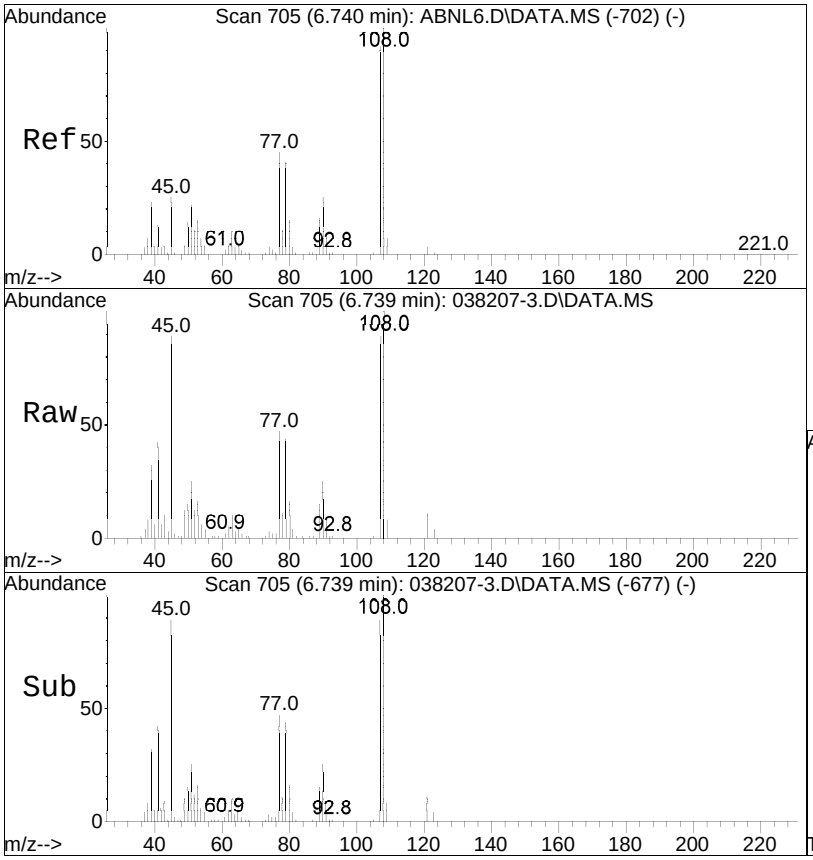


#14
Bis(2-chloroisopropyl)ether
Concen: 1.94 ug/ml
RT: 6.747 min Scan# 706
Delta R.T. 0.000 min
Lab File: 038207-3.D
Acq: 13 Mar 2025 2:13 pm

Tgt Ion: 45 Resp: 127935

Ion	Ratio	Lower	Upper
45	100		
121	14.2	9.8	14.6
77	22.5	6.1	9.1#

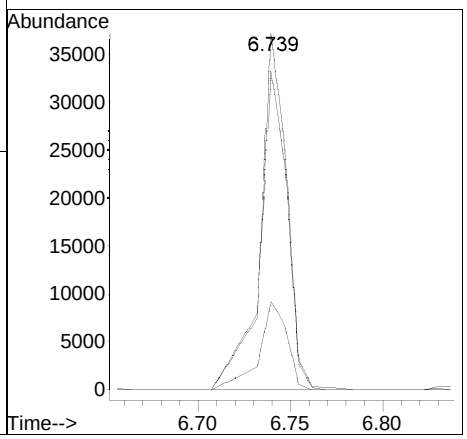


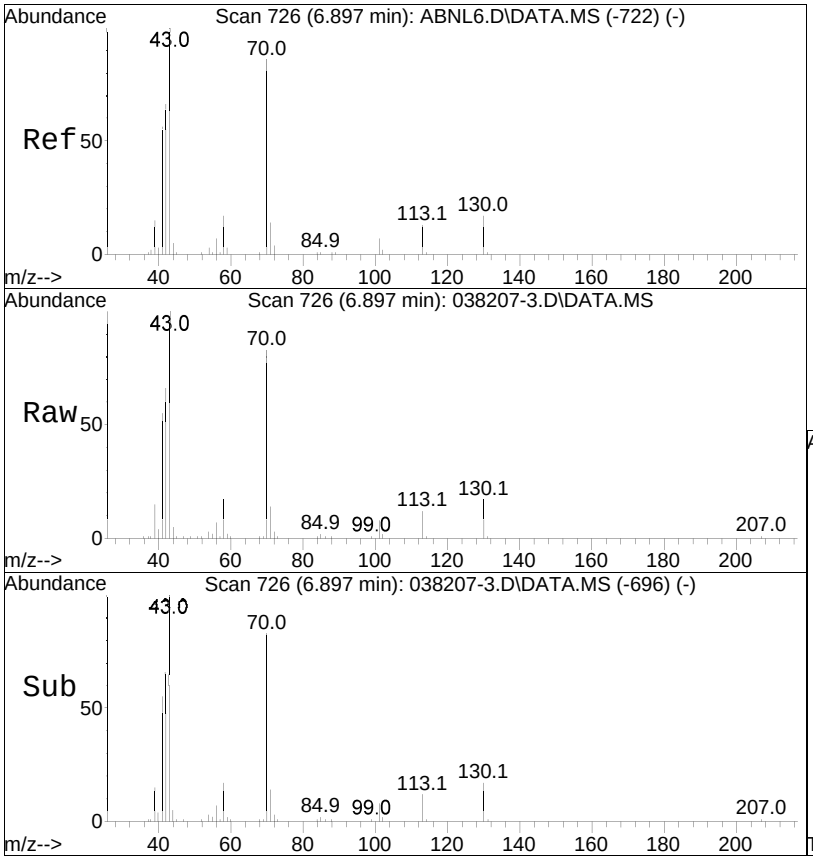


#15
2-Methylphenol
Concen: 1.31 ug/ml
RT: 6.739 min Scan# 705
Delta R.T. 0.000 min
Lab File: 038207-3.D
Acq: 13 Mar 2025 2:13 pm

Tgt Ion:108 Resp: 41118

Ion	Ratio	Lower	Upper
108	100		
107	96.2	70.7	106.1
90	27.7	18.7	28.1

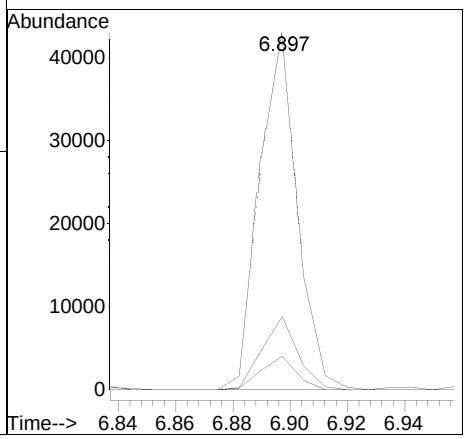


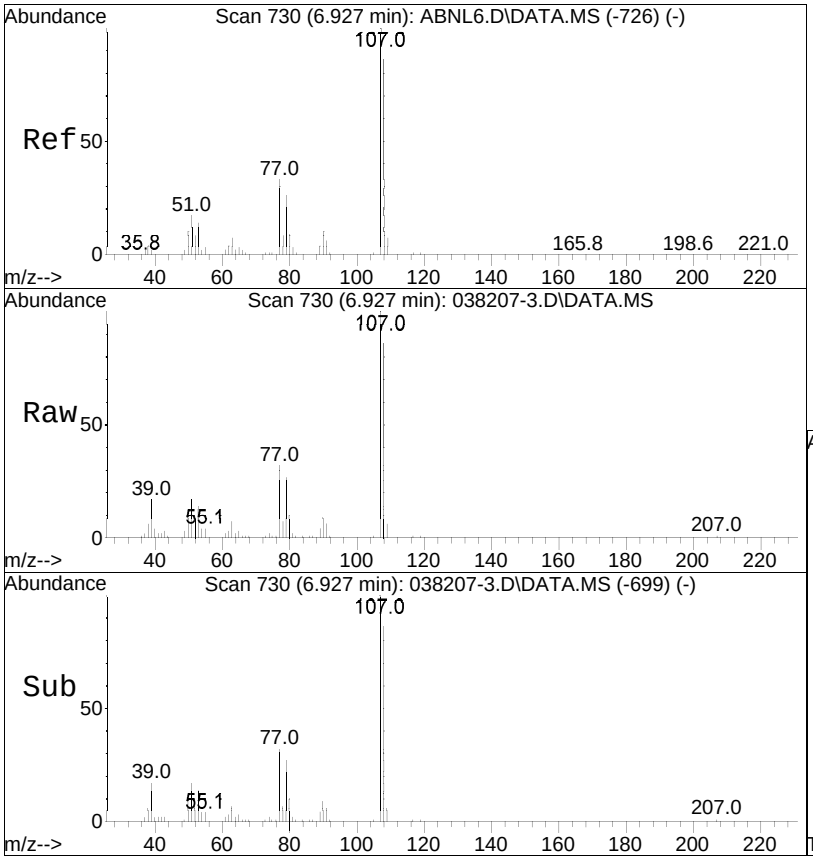


#17
n-Nitrosodi-n-propylamine
Concen: 1.88 ug/ml
RT: 6.897 min Scan# 726
Delta R.T. 0.000 min
Lab File: 038207-3.D
Acq: 13 Mar 2025 2:13 pm

Tgt Ion: 70 Resp: 39251

Ion	Ratio	Lower	Upper
70	100		
130	19.3	18.2	27.4
101	8.7	7.8	11.8

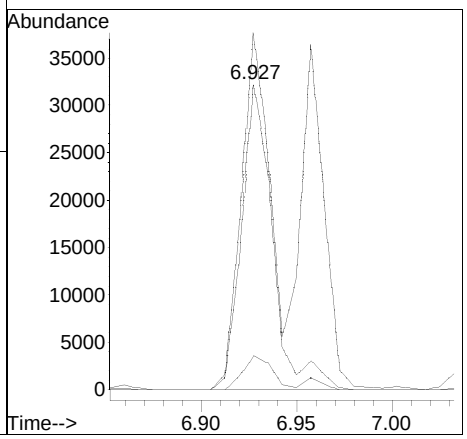


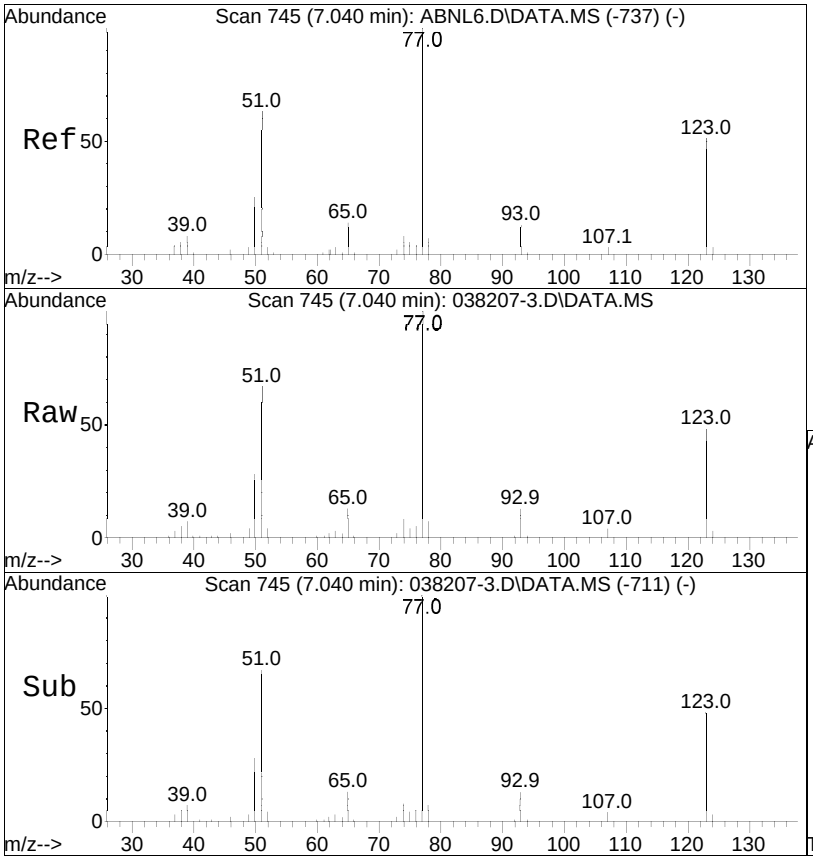


#18
3-Methylphenol/4-Methylphenol
Concen: 1.35 ug/ml
RT: 6.927 min Scan# 730
Delta R.T. 0.000 min
Lab File: 038207-3.D
Acq: 13 Mar 2025 2:13 pm

Tgt Ion:108 Resp: 36622

Ion	Ratio	Lower	Upper
108	100		
107	107.1	88.6	132.8
90	10.8	8.8	13.2

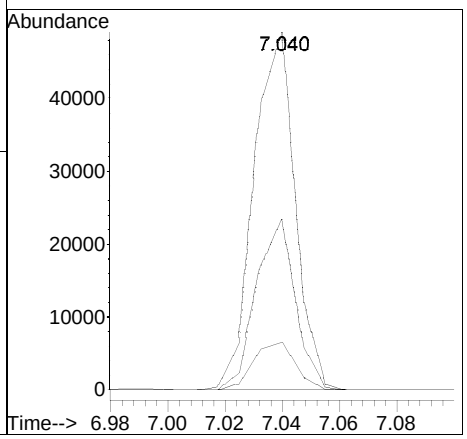


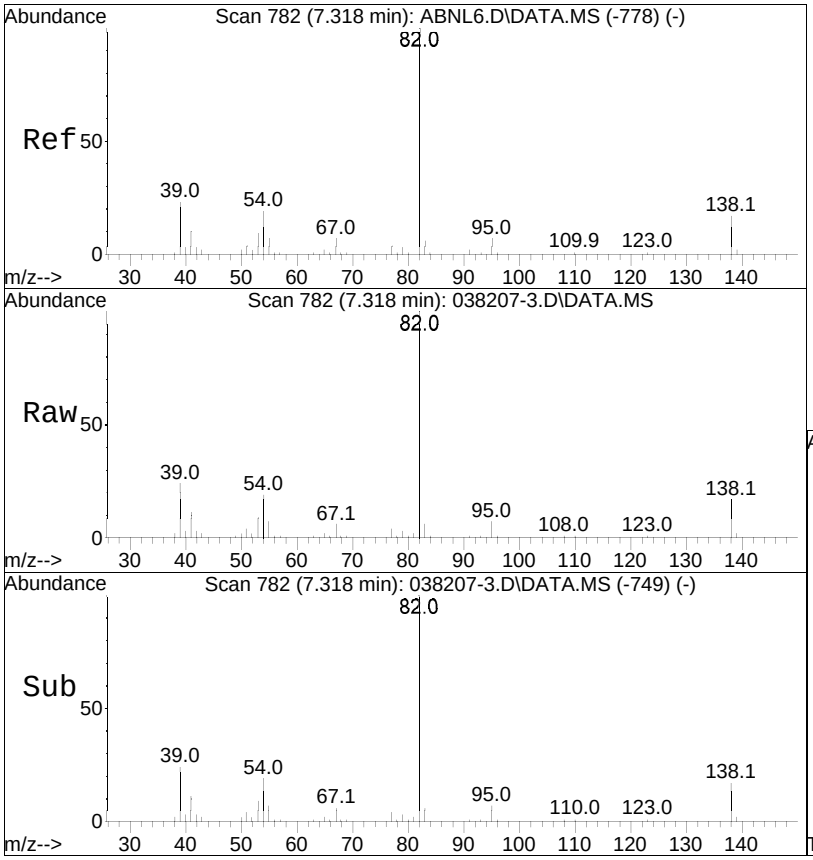


#20
Nitrobenzene
Concen: 1.79 ug/ml
RT: 7.040 min Scan# 745
Delta R.T. 0.008 min
Lab File: 038207-3.D
Acq: 13 Mar 2025 2:13 pm

Tgt Ion: 77 Resp: 48844

Ion	Ratio	Lower	Upper
77	100		
123	45.2	36.3	54.5
65	13.8	11.6	17.4

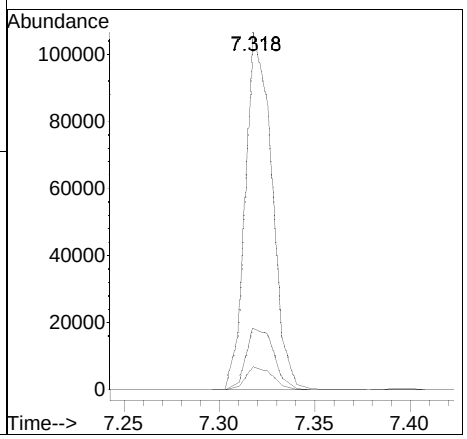


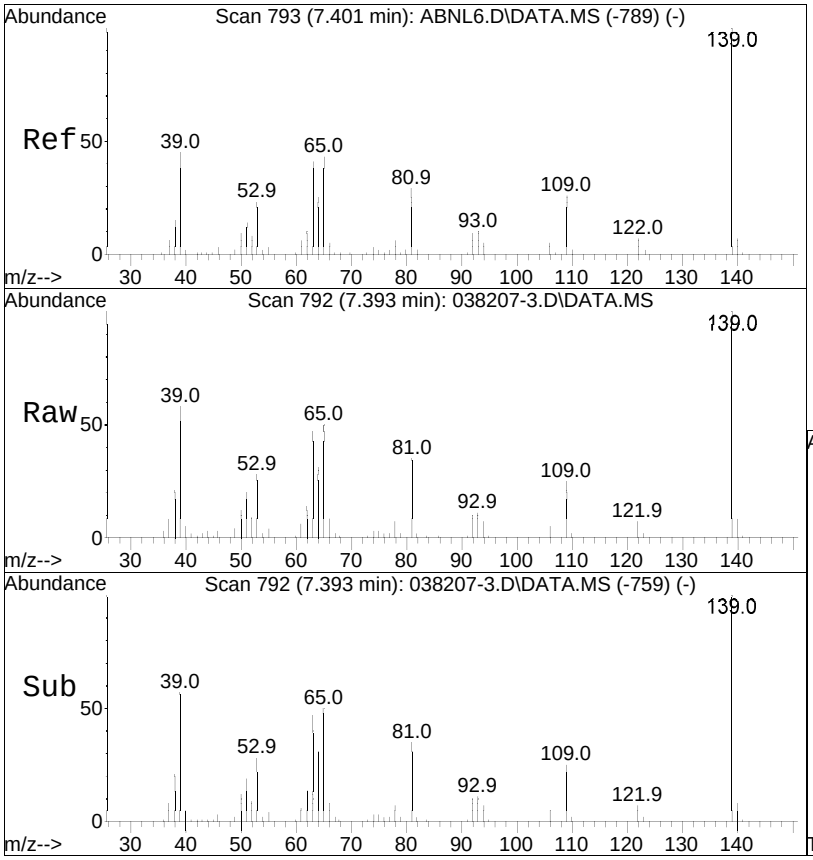


#21
Isophorone
Concen: 1.82 ug/ml
RT: 7.318 min Scan# 782
Delta R.T. 0.000 min
Lab File: 038207-3.D
Acq: 13 Mar 2025 2:13 pm

Tgt Ion: 82 Resp: 101652

Ion	Ratio	Lower	Upper
82	100		
138	18.2	14.7	22.1
95	6.7	5.2	7.8

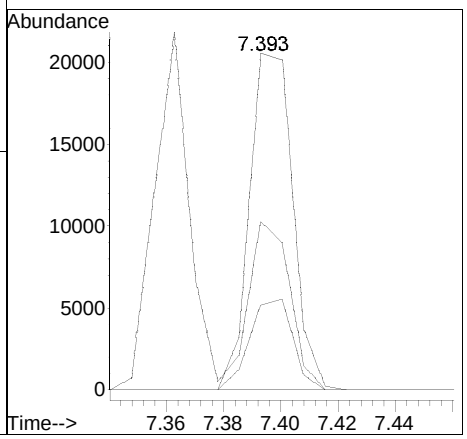


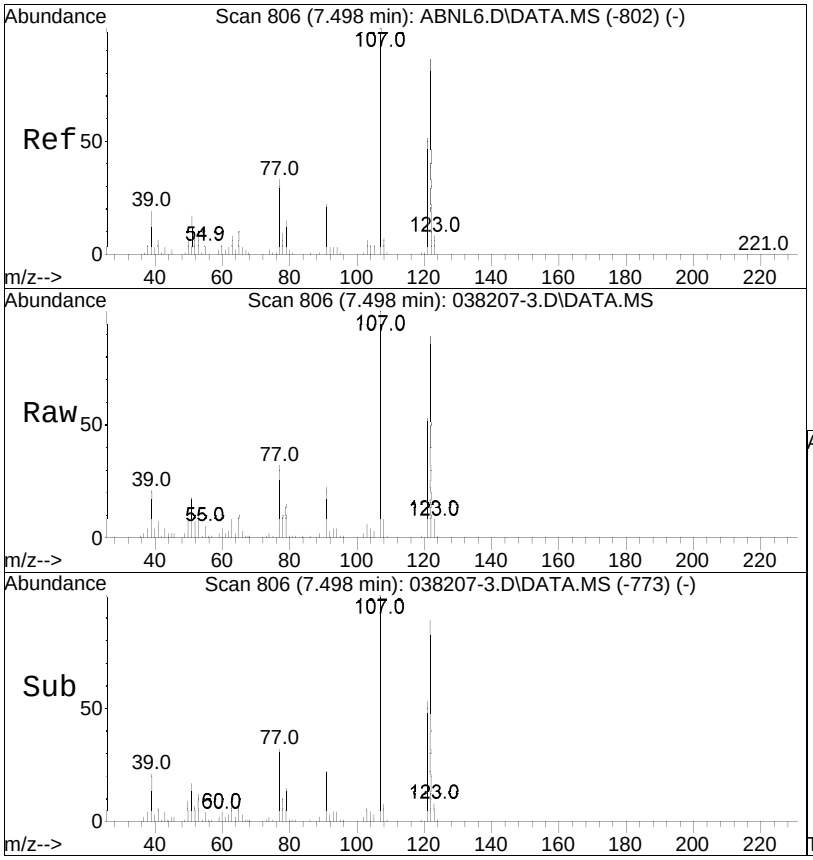


#22
2-Nitrophenol
Concen: 1.74 ug/ml
RT: 7.393 min Scan# 792
Delta R.T. 0.000 min
Lab File: 038207-3.D
Acq: 13 Mar 2025 2:13 pm

Tgt Ion:139 Resp: 21596

Ion	Ratio	Lower	Upper
139	100		
109	26.9	19.4	29.0
65	47.8	46.1	69.1

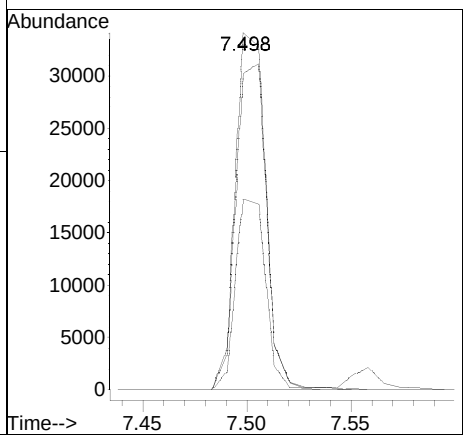


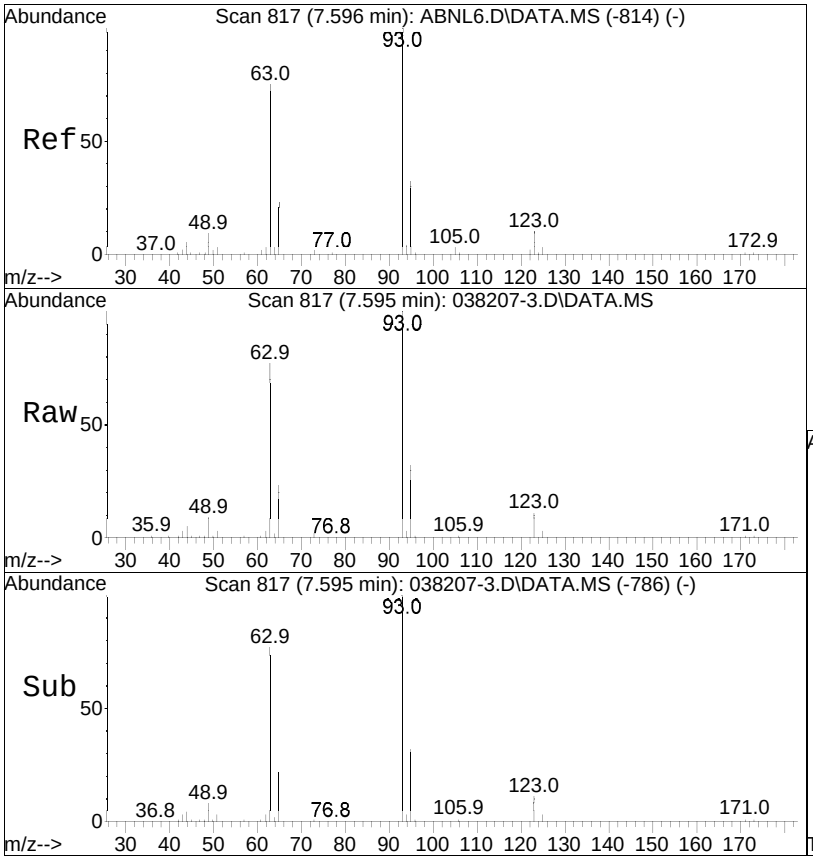


#23
2,4-Dimethylphenol
Concen: 1.18 ug/ml
RT: 7.498 min Scan# 806
Delta R.T. 0.000 min
Lab File: 038207-3.D
Acq: 13 Mar 2025 2:13 pm

Tgt Ion:107 Resp: 34632

Ion	Ratio	Lower	Upper
107	100		
121	52.6	40.0	60.0
122	91.3	70.2	105.4

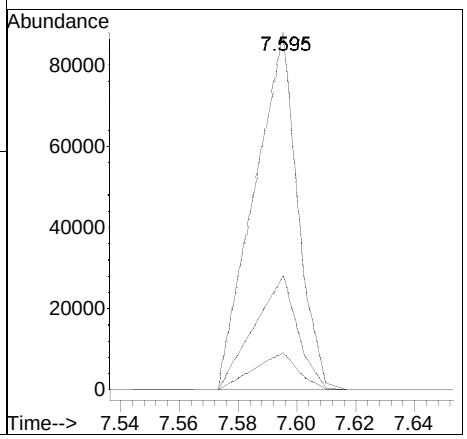


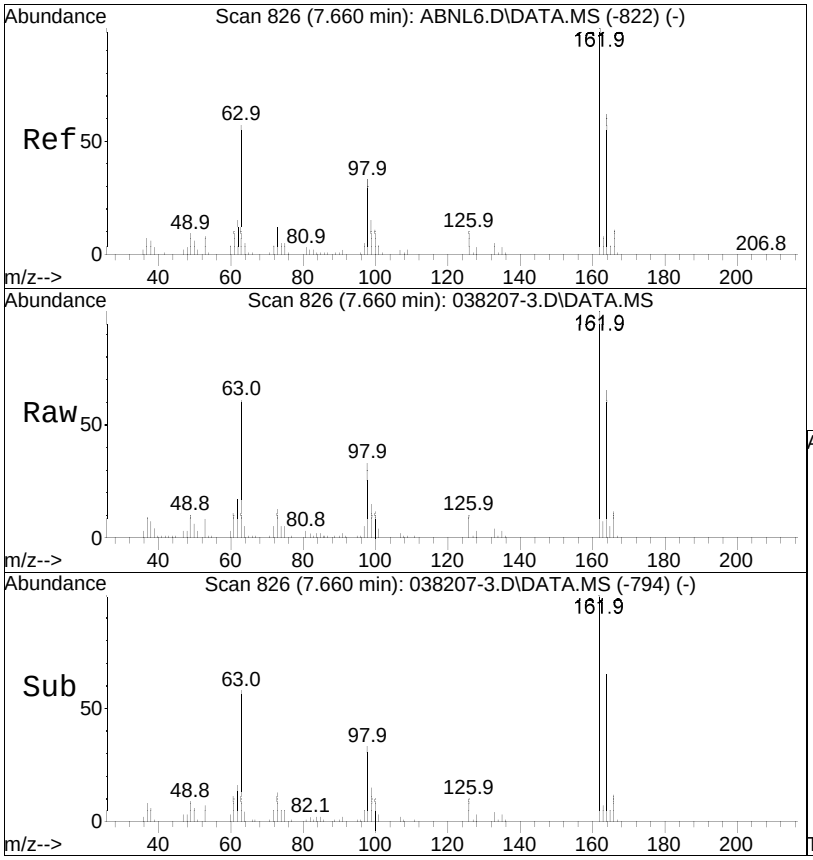


#24
Bis(2-chloroethoxy)methane
Concen: 1.69 ug/ml
RT: 7.595 min Scan# 817
Delta R.T. 0.000 min
Lab File: 038207-3.D
Acq: 13 Mar 2025 2:13 pm

Tgt Ion: 93 Resp: 67572

Ion	Ratio	Lower	Upper
93	100		
95	32.2	25.8	38.8
123	10.9	10.1	15.1

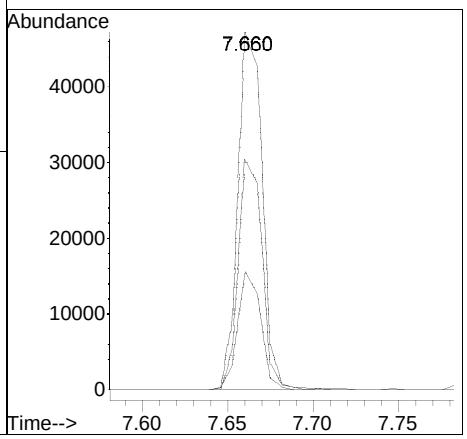


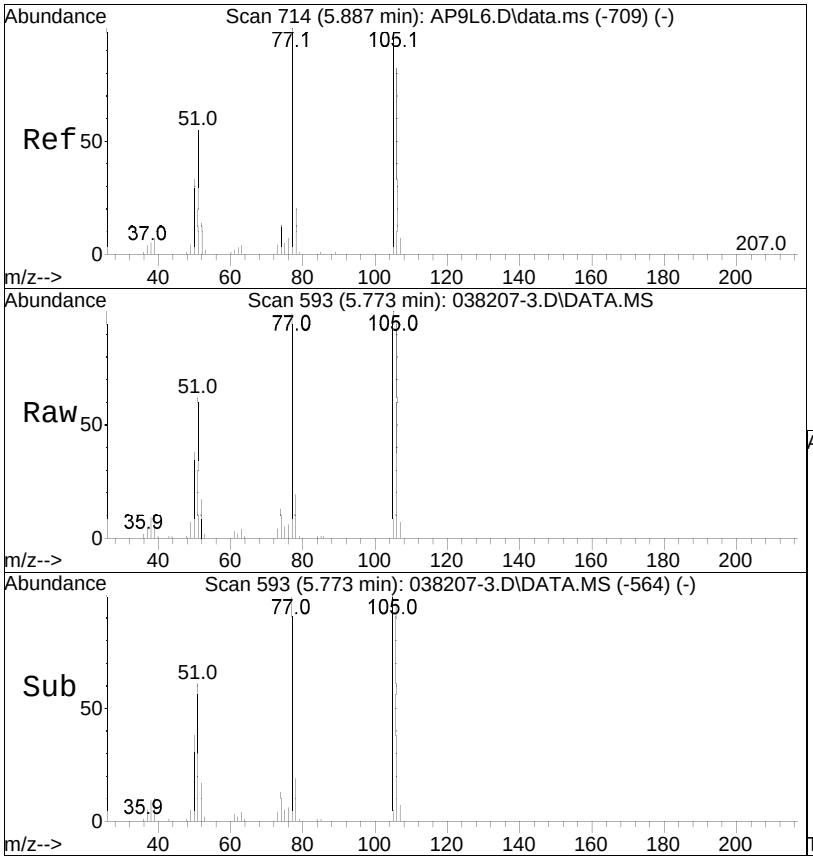


#25
2,4-Dichlorophenol
Concen: 1.67 ug/ml
RT: 7.660 min Scan# 826
Delta R.T. 0.000 min
Lab File: 038207-3.D
Acq: 13 Mar 2025 2:13 pm

Tgt Ion:162 Resp: 46376

Ion	Ratio	Lower	Upper
162	100		
164	63.1	51.0	76.4
98	31.6	32.2	48.2#

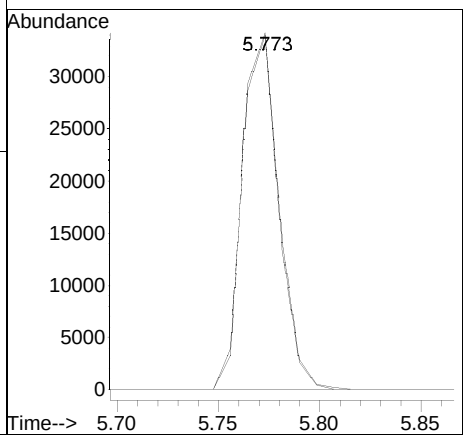


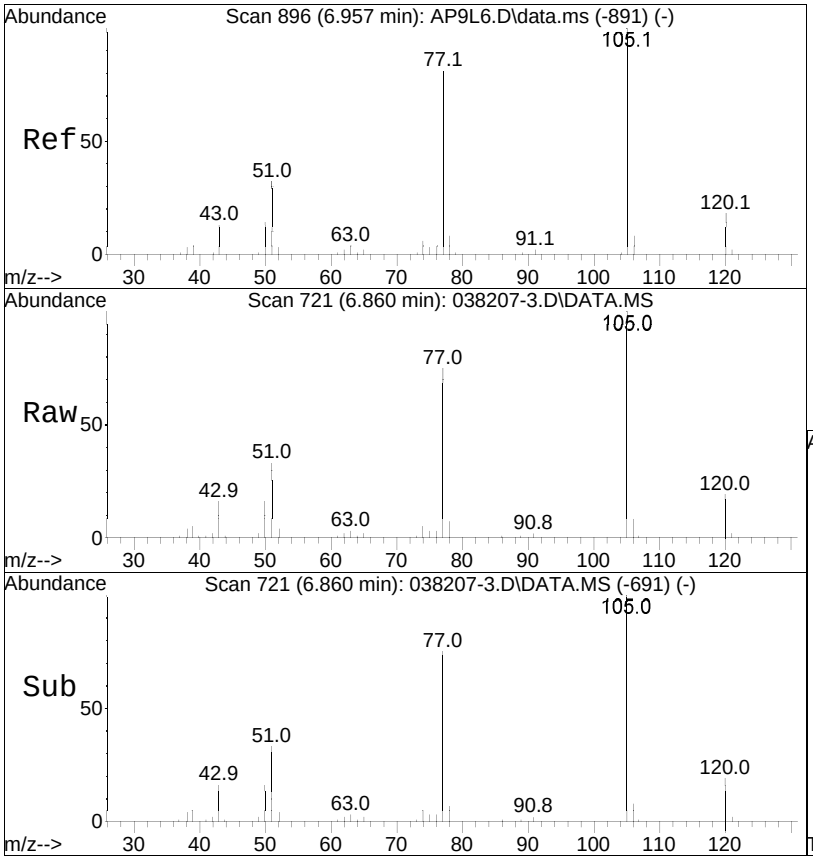


#28
Benzaldehyde
Concen: 1.85 ug/ml
RT: 5.773 min Scan# 593
Delta R.T. 0.000 min
Lab File: 038207-3.D
Acq: 13 Mar 2025 2:13 pm

Tgt Ion:105 Resp: 43135

Ion	Ratio	Lower	Upper
105	100		
77	98.1	82.2	123.4

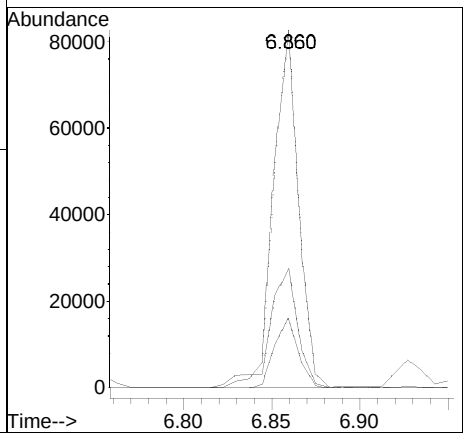


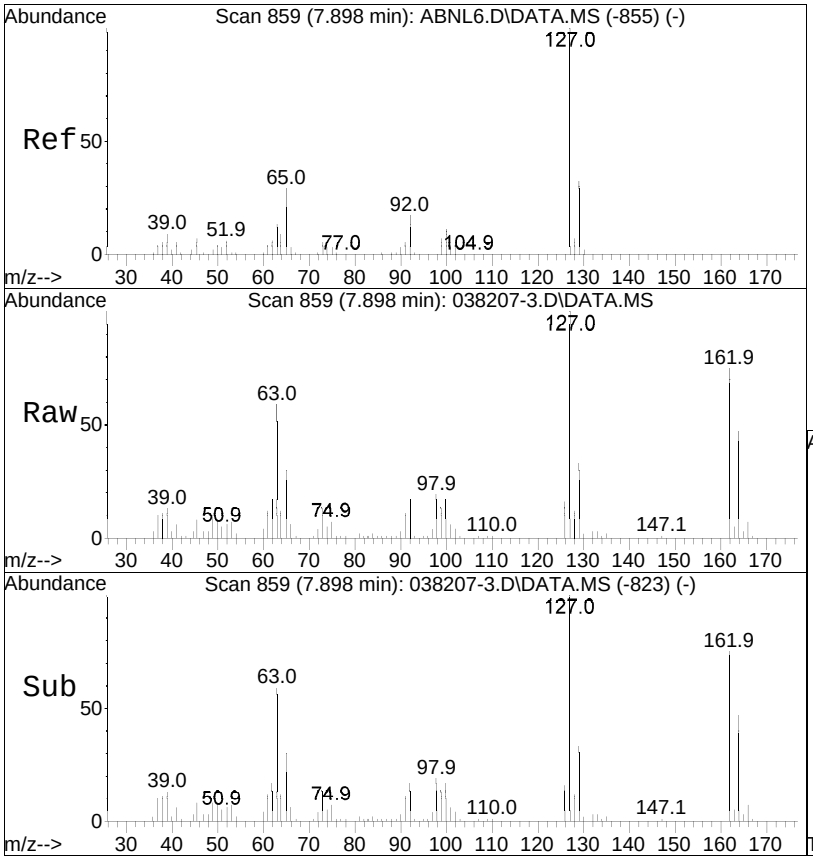


#29
Acetophenone
Concen: 2.01 ug/ml
RT: 6.860 min Scan# 721
Delta R.T. 0.000 min
Lab File: 038207-3.D
Acq: 13 Mar 2025 2:13 pm

Tgt Ion:105 Resp: 80656

Ion	Ratio	Lower	Upper
105	100		
120	18.8	20.5	30.7#
51	38.6	34.9	52.3

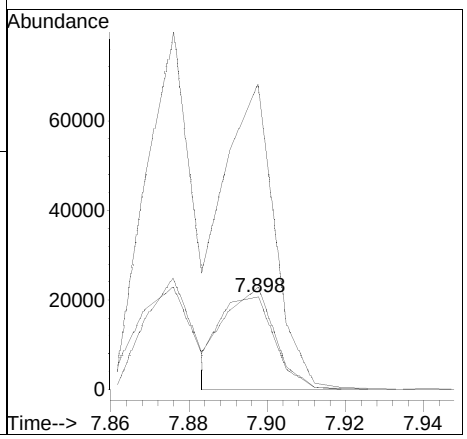


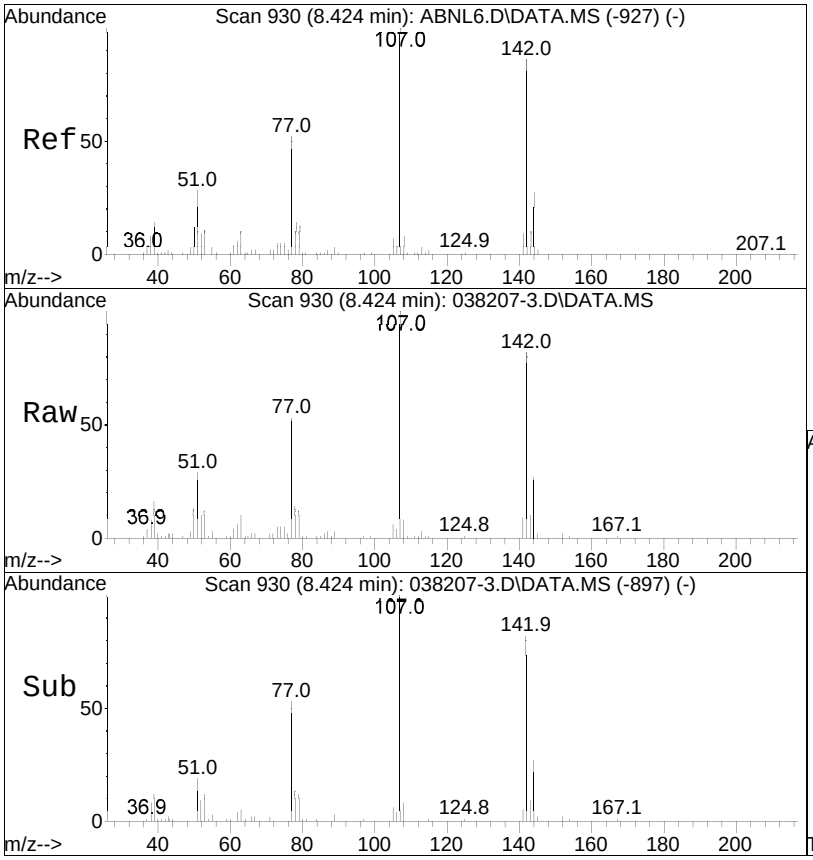


#38
4-Chloroaniline
Concen: 1.62 ug/ml M3
RT: 7.898 min Scan# 859
Delta R.T. 0.007 min
Lab File: 038207-3.D
Acq: 13 Mar 2025 2:13 pm

Tgt Ion: 65 Resp: 19614

Ion	Ratio	Lower	Upper
65	100		
127	345.9	237.6	356.4
129	110.3	76.3	114.5

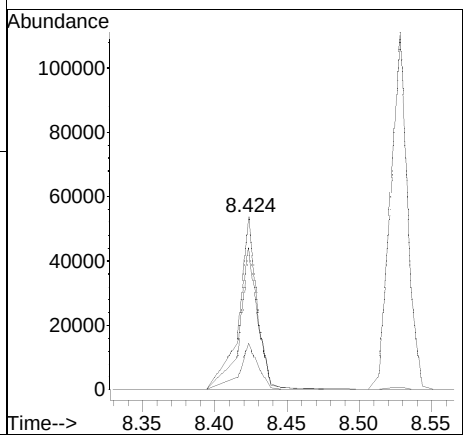


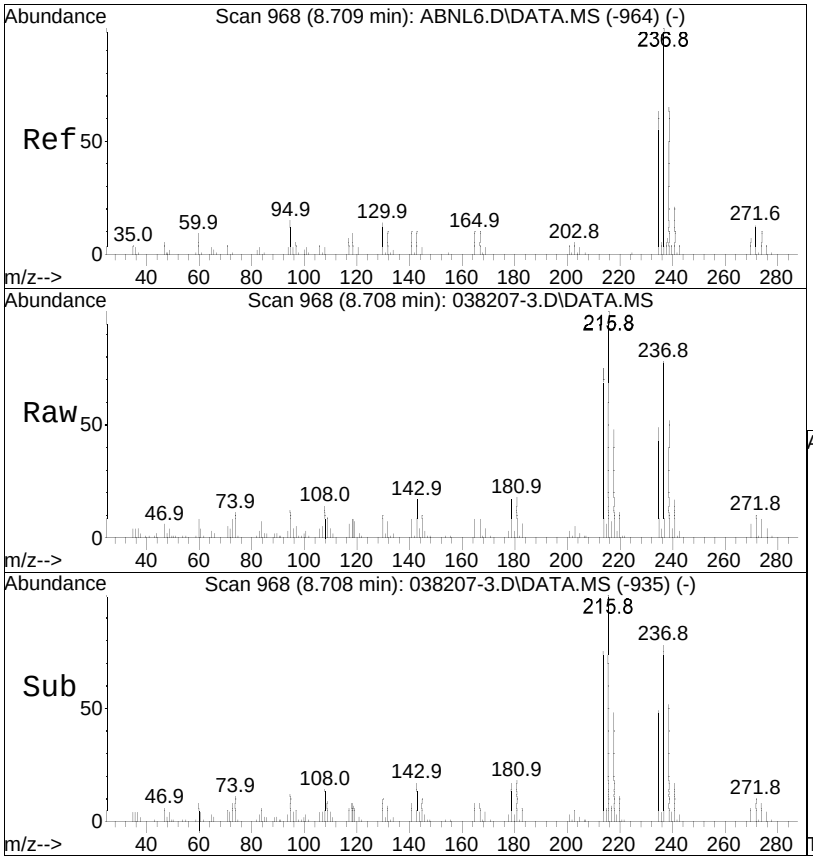


#40
p-Chloro-m-cresol
Concen: 1.58 ug/ml
RT: 8.424 min Scan# 930
Delta R.T. 0.000 min
Lab File: 038207-3.D
Acq: 13 Mar 2025 2:13 pm

Tgt Ion:107 Resp: 47089

Ion	Ratio	Lower	Upper
107	100		
144	30.2	20.9	31.3
142	85.6	66.1	99.1

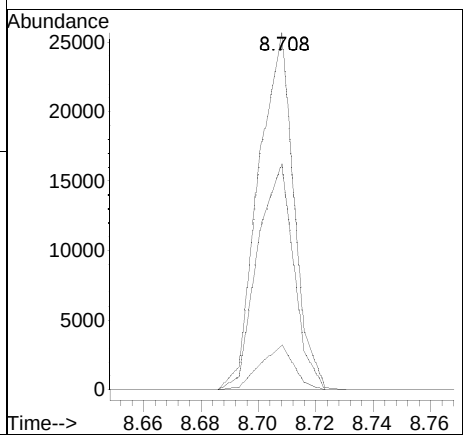


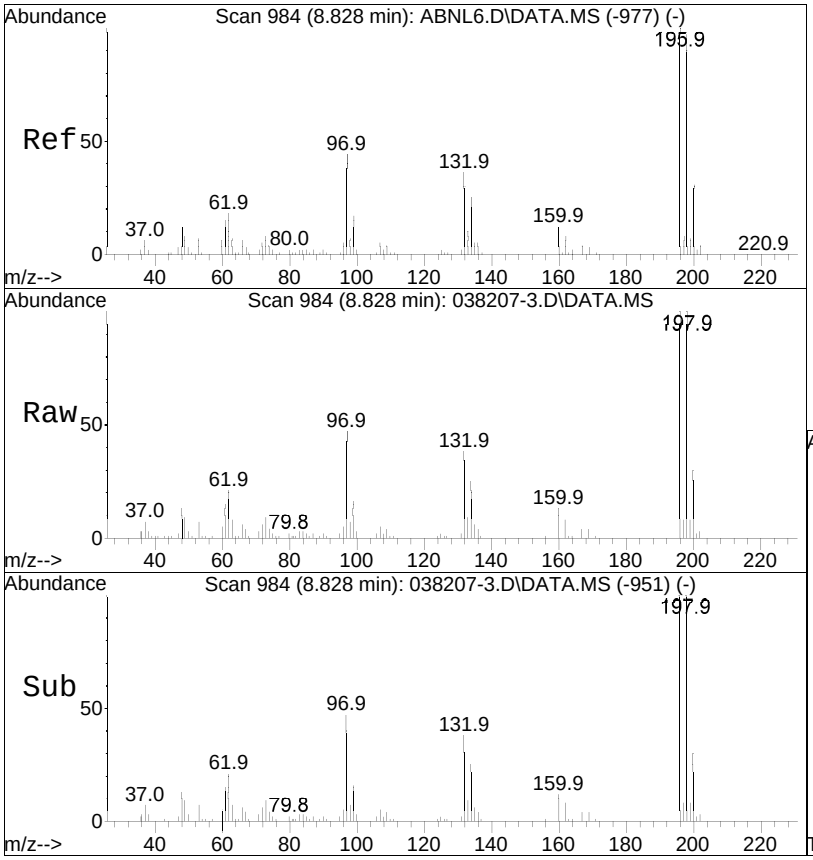


#43
Hexachlorocyclopentadiene
Concen: 0.80 ug/ml
RT: 8.708 min Scan# 968
Delta R.T. 0.000 min
Lab File: 038207-3.D
Acq: 13 Mar 2025 2:13 pm

Tgt Ion:237 Resp: 21936

Ion	Ratio	Lower	Upper
237	100		
235	65.0	49.7	74.5
272	12.1	9.8	14.6

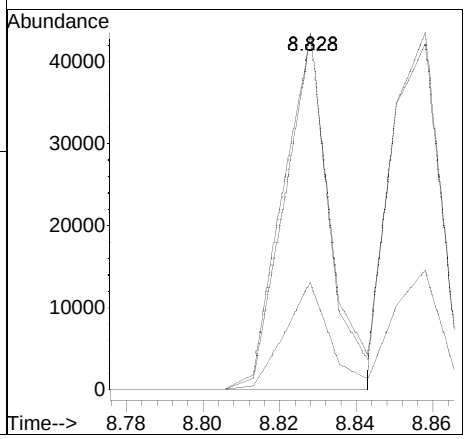


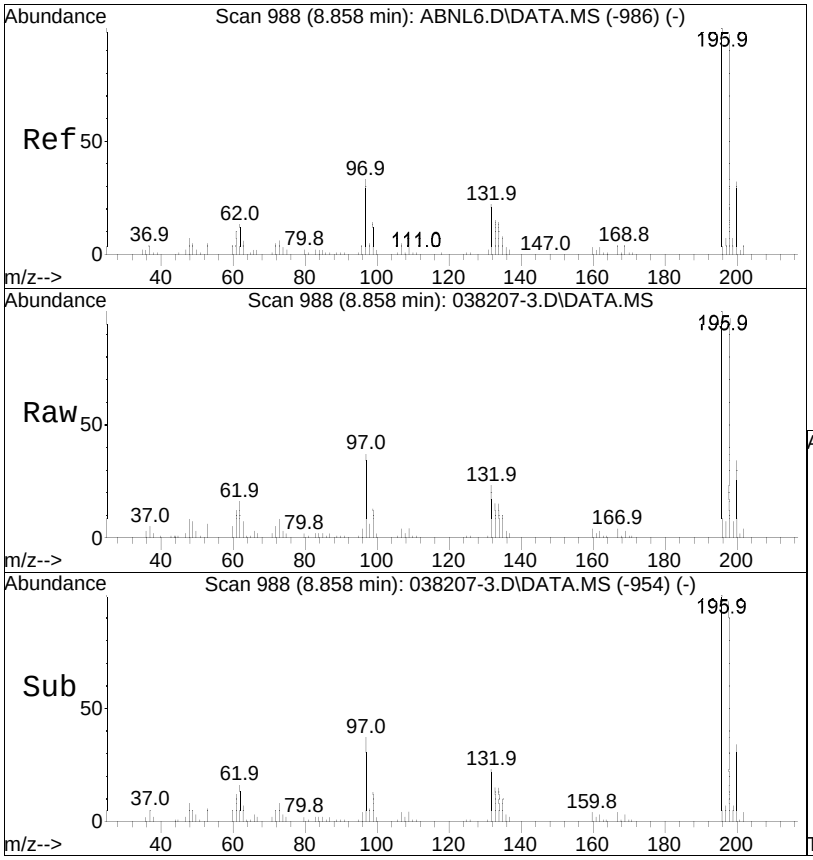


#44
2,4,6-Trichlorophenol
Concen: 1.63 ug/ml
RT: 8.828 min Scan# 984
Delta R.T. 0.000 min
Lab File: 038207-3.D
Acq: 13 Mar 2025 2:13 pm

Tgt Ion:196 Resp: 37567

Ion	Ratio	Lower	Upper
196	100		
198	94.1	77.5	116.3
200	29.0	23.8	35.6

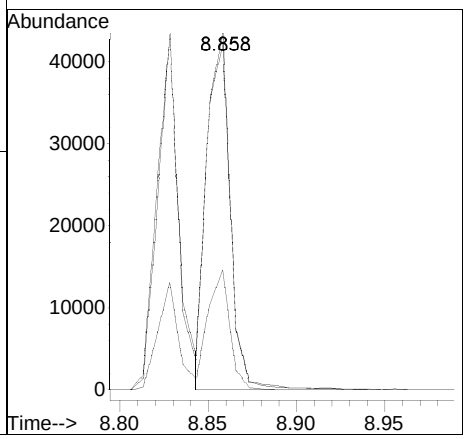


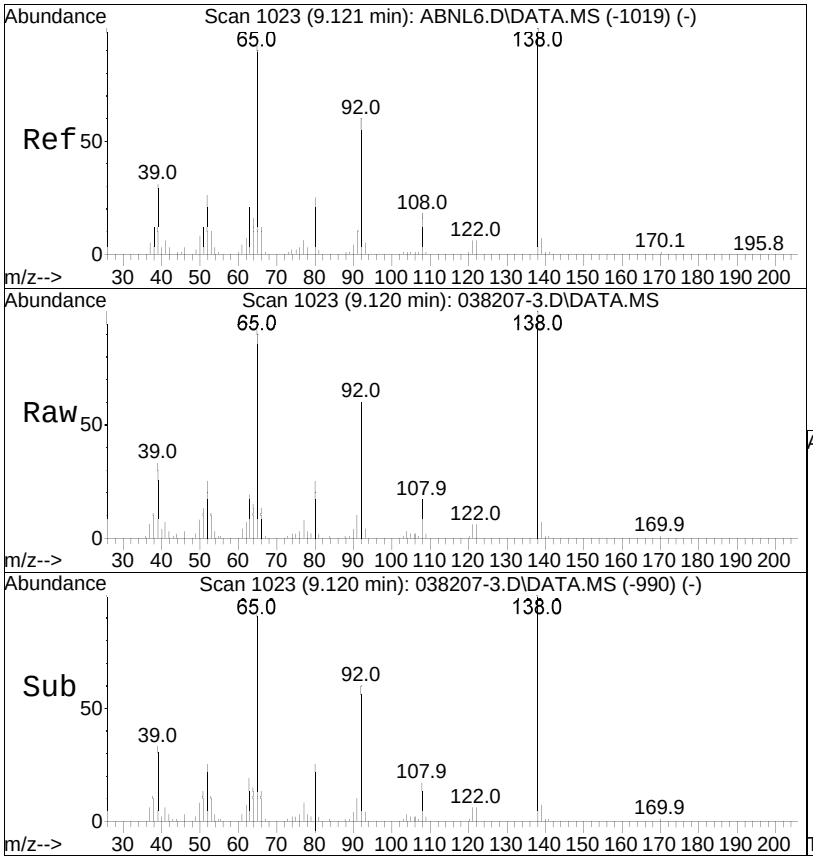


#45
2,4,5-Trichlorophenol
Concen: 1.72 ug/ml
RT: 8.858 min Scan# 988
Delta R.T. 0.008 min
Lab File: 038207-3.D
Acq: 13 Mar 2025 2:13 pm

Tgt Ion:196 Resp: 40360

Ion	Ratio	Lower	Upper
196	100		
200	31.0	25.4	38.0
198	97.9	78.0	117.0

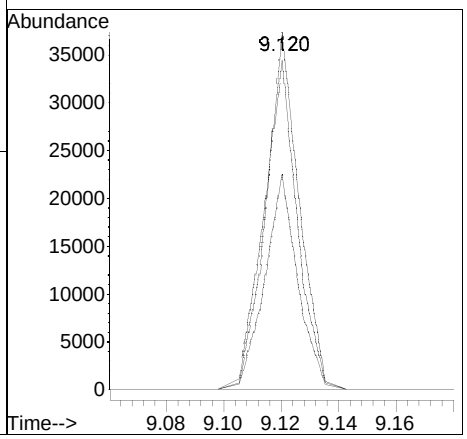


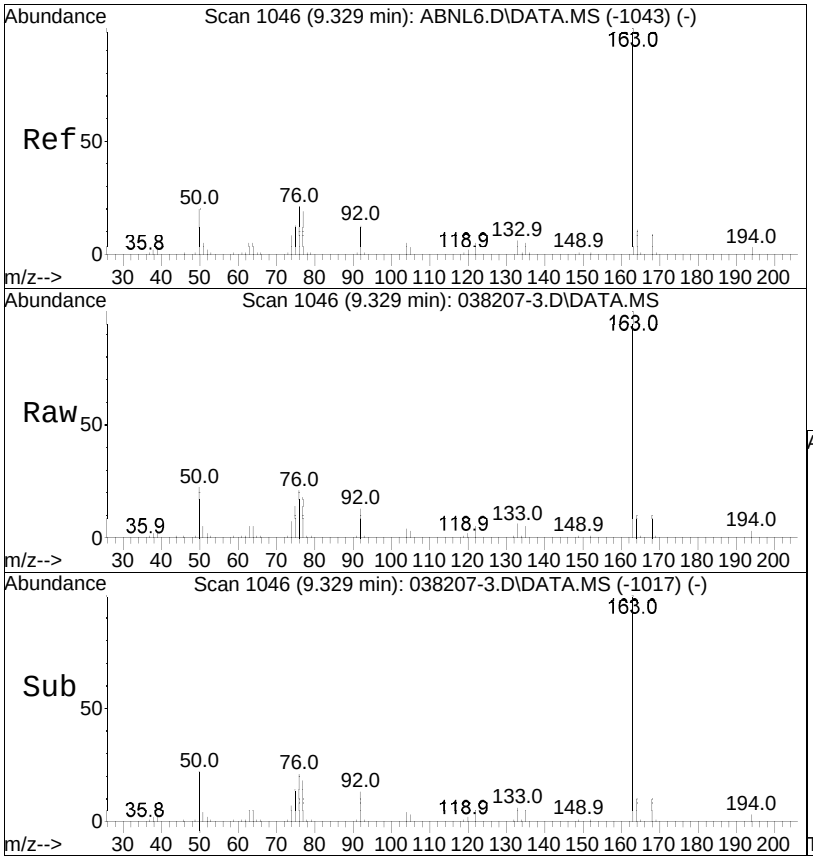


#48
2-Nitroaniline
Concen: 1.95 ug/ml
RT: 9.120 min Scan# 1023
Delta R.T. 0.000 min
Lab File: 038207-3.D
Acq: 13 Mar 2025 2:13 pm

Tgt Ion:138 Resp: 29774

Ion	Ratio	Lower	Upper
138	100		
92	59.7	53.5	80.3
65	93.4	86.3	129.5

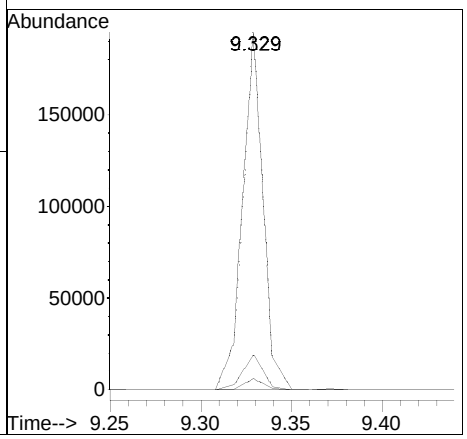


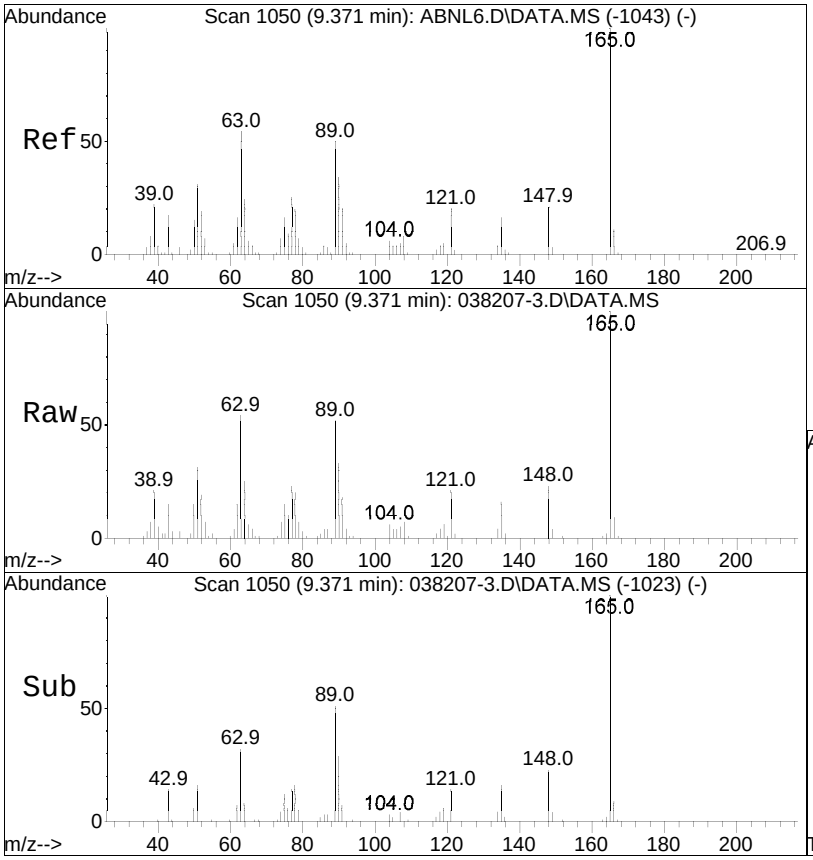


#51
Dimethyl phthalate
Concen: 1.80 ug/ml
RT: 9.329 min Scan# 1046
Delta R.T. 0.000 min
Lab File: 038207-3.D
Acq: 13 Mar 2025 2:13 pm

Tgt Ion:163 Resp: 150450

Ion	Ratio	Lower	Upper
163	100		
194	3.2	3.5	5.3#
164	10.0	7.9	11.9

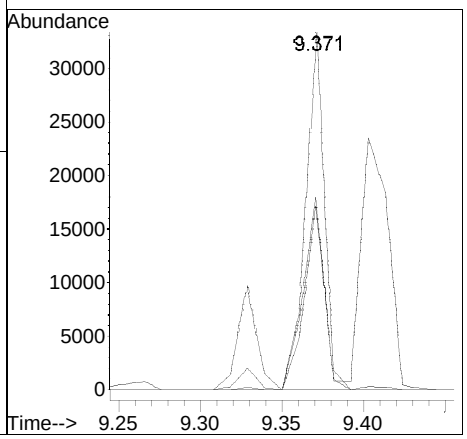


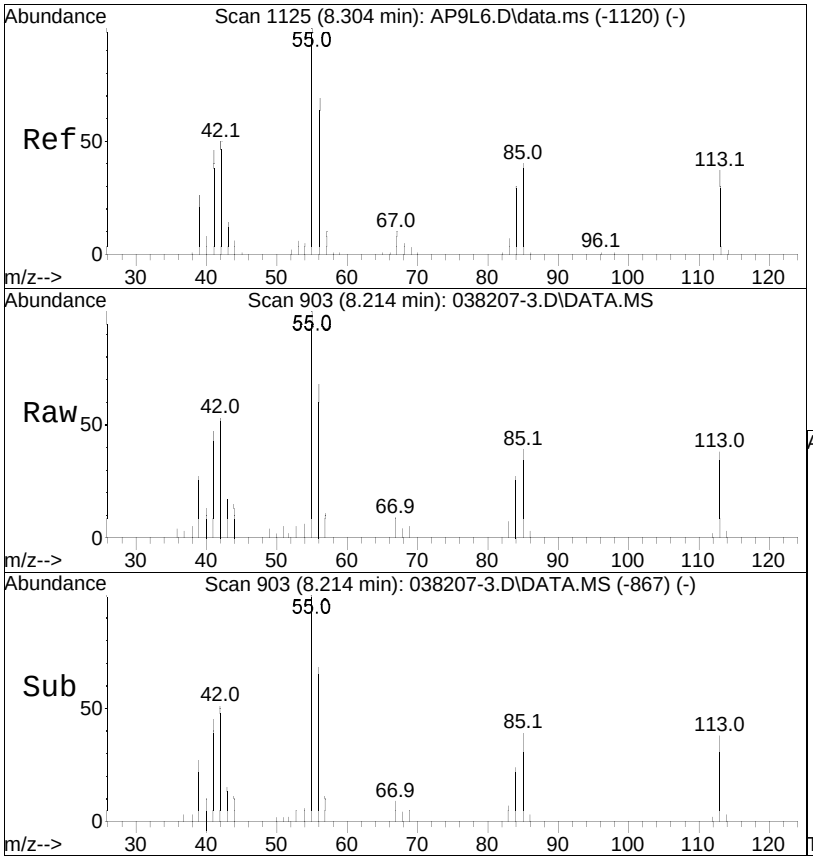


#53
2,6-Dinitrotoluene
Concen: 2.04 ug/ml
RT: 9.371 min Scan# 1050
Delta R.T. 0.000 min
Lab File: 038207-3.D
Acq: 13 Mar 2025 2:13 pm

Tgt Ion:165 Resp: 28205

Ion	Ratio	Lower	Upper
165	100		
89	53.3	54.2	81.2#
63	58.2	64.2	96.2#

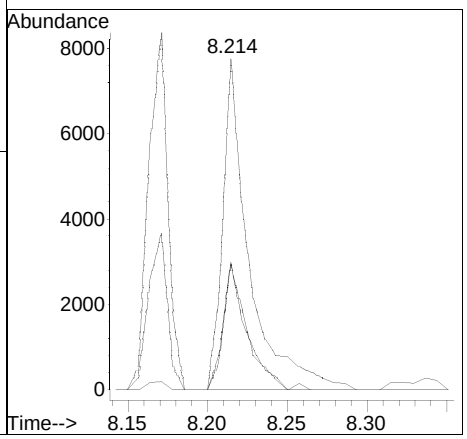


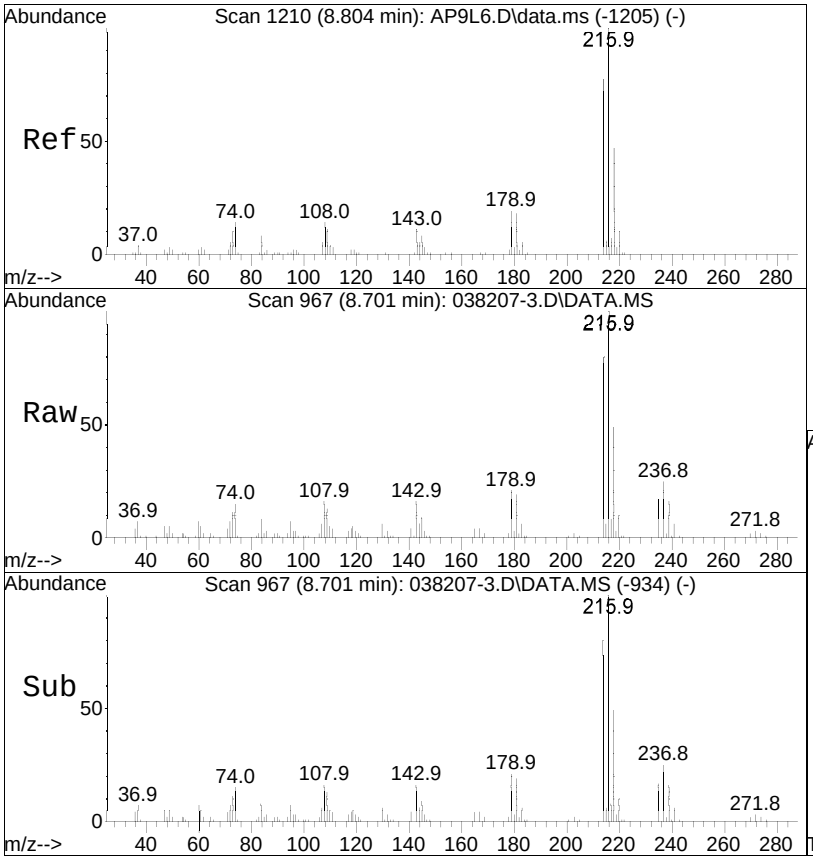


#60
Caprolactam
Concen: 0.59 ug/ml
RT: 8.214 min Scan# 903
Delta R.T. 0.007 min
Lab File: 038207-3.D
Acq: 13 Mar 2025 2:13 pm

Tgt Ion: 55 Resp: 8894

Ion	Ratio	Lower	Upper
55	100		
85	34.6	19.8	29.6#
113	34.8	29.6	44.4

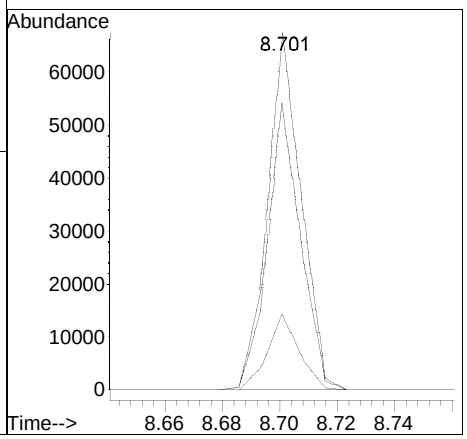


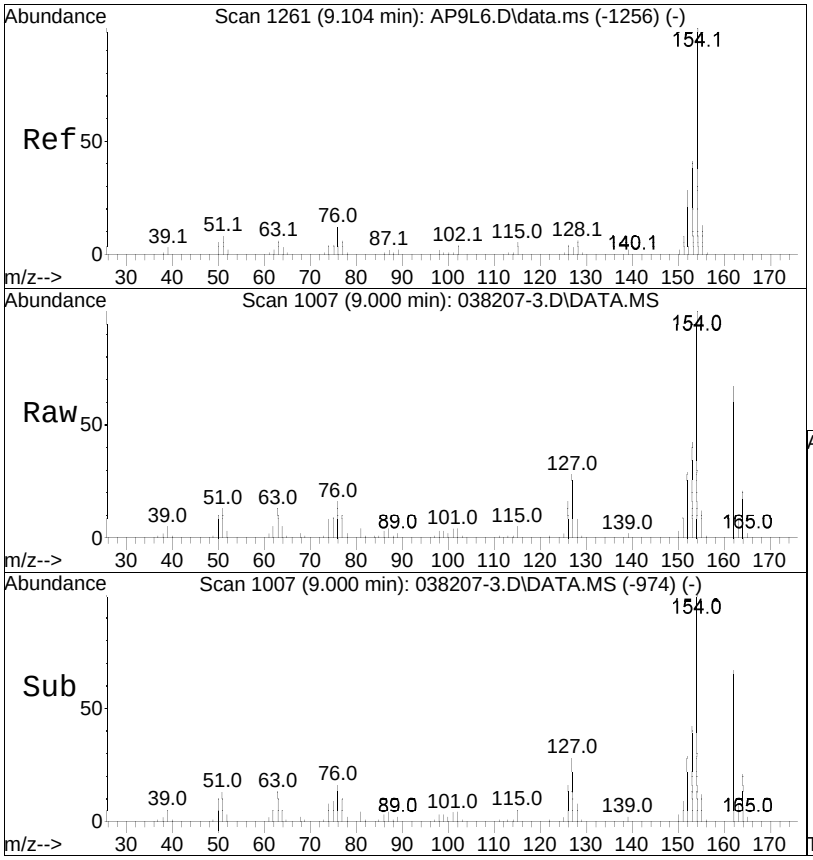


#61
1,2,4,5-Tetrachlorobenzene
Concen: 1.48 ug/ml
RT: 8.701 min Scan# 967
Delta R.T. 0.000 min
Lab File: 038207-3.D
Acq: 13 Mar 2025 2:13 pm

Tgt Ion:216 Resp: 54504

Ion	Ratio	Lower	Upper
216	100		
214	79.1	63.7	95.5
179	20.1	19.0	28.6

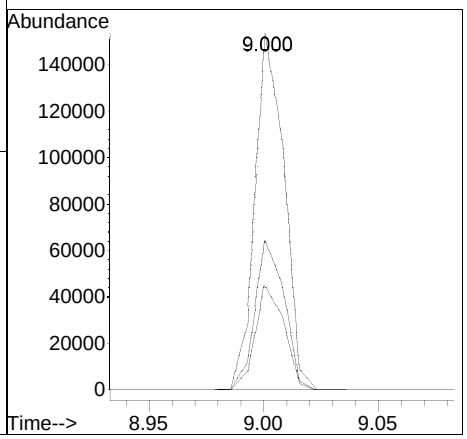


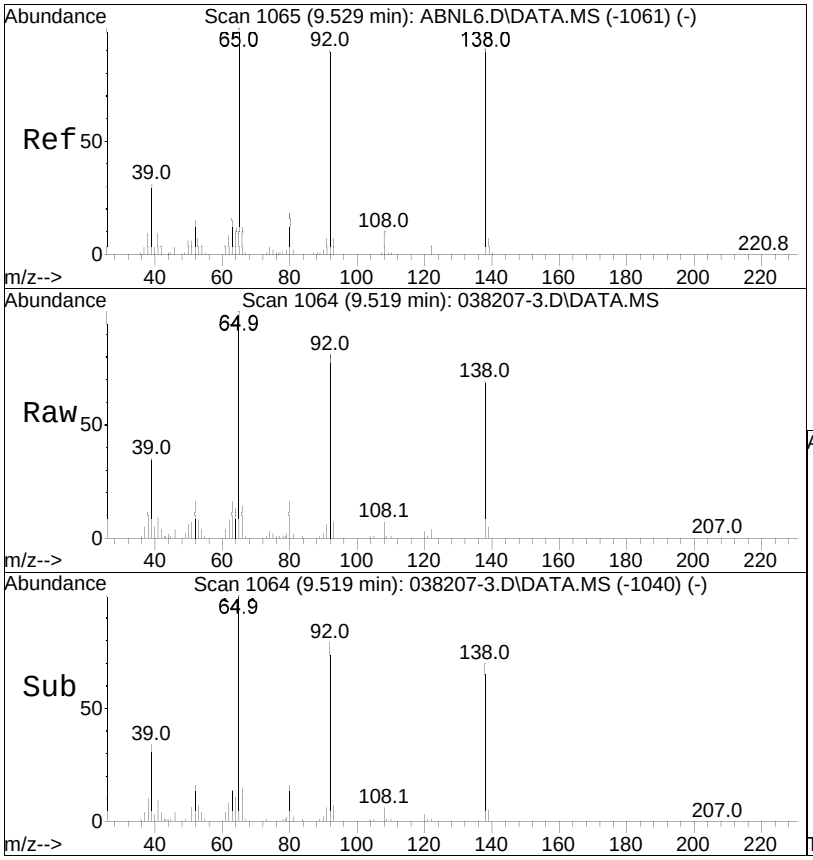


#62
Biphenyl
Concen: 1.66 ug/ml
RT: 9.000 min Scan# 1007
Delta R.T. 0.000 min
Lab File: 038207-3.D
Acq: 13 Mar 2025 2:13 pm

Tgt Ion:154 Resp: 134839

Ion	Ratio	Lower	Upper
154	100		
153	42.4	32.3	48.5
152	29.4	22.5	33.7

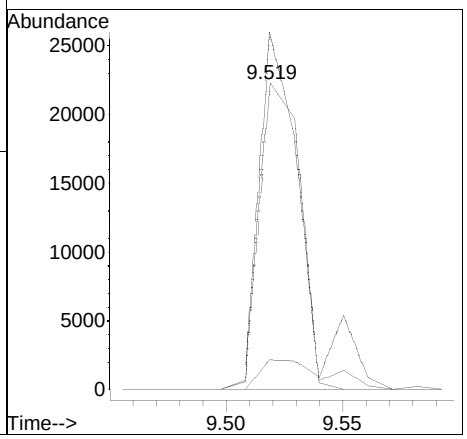


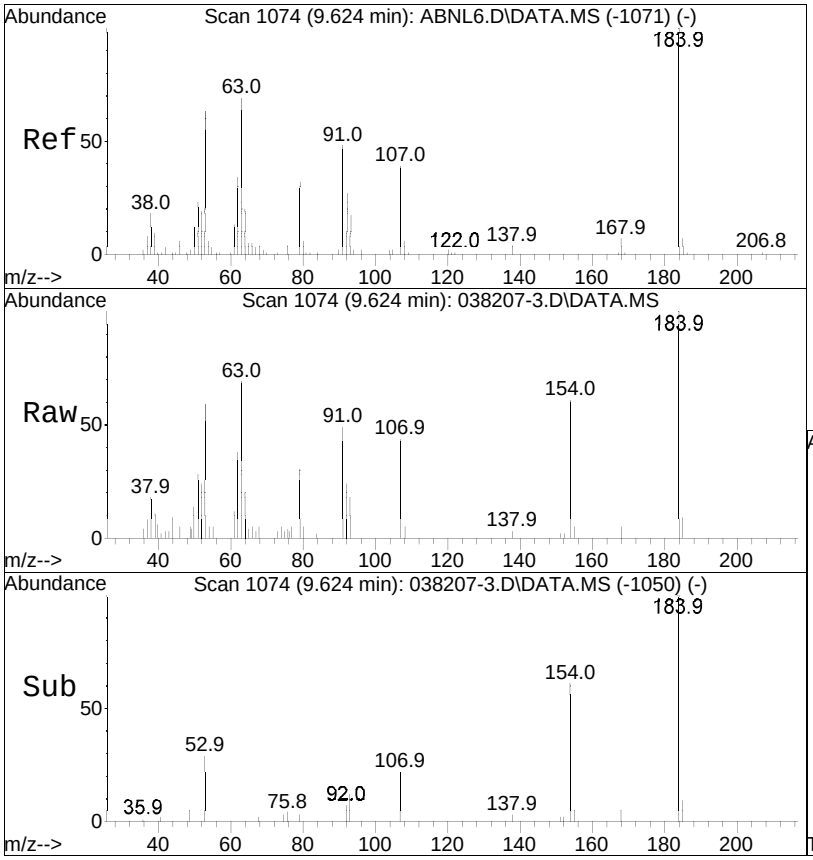


#64
3-Nitroaniline
Concen: 1.89 ug/ml
RT: 9.519 min Scan# 1064
Delta R.T. 0.000 min
Lab File: 038207-3.D
Acq: 13 Mar 2025 2:13 pm

Tgt Ion:138 Resp: 27178

Ion	Ratio	Lower	Upper
138	100		
92	109.8	93.4	140.2
108	26.7	9.5	14.3#

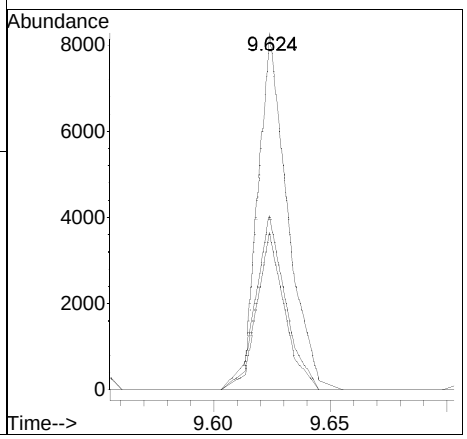


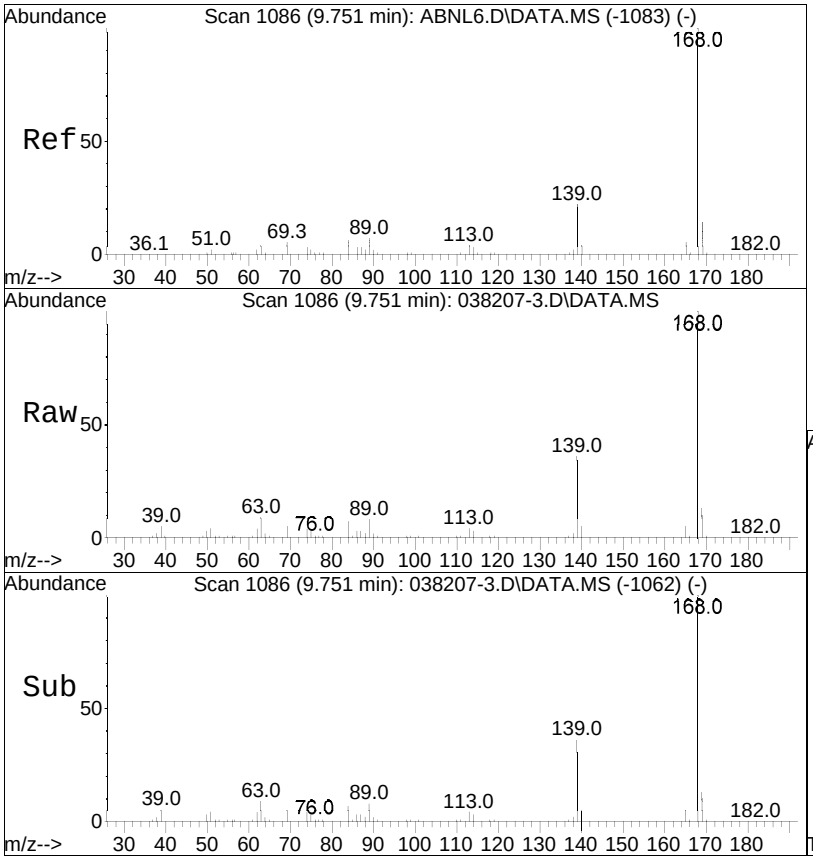


#66
2,4-Dinitrophenol
Concen: 1.08 ug/ml
RT: 9.624 min Scan# 1074
Delta R.T. 0.000 min
Lab File: 038207-3.D
Acq: 13 Mar 2025 2:13 pm

Tgt Ion:184 Resp: 7234

Ion	Ratio	Lower	Upper
184	100		
107	41.4	37.7	56.5
91	49.4	46.3	69.5

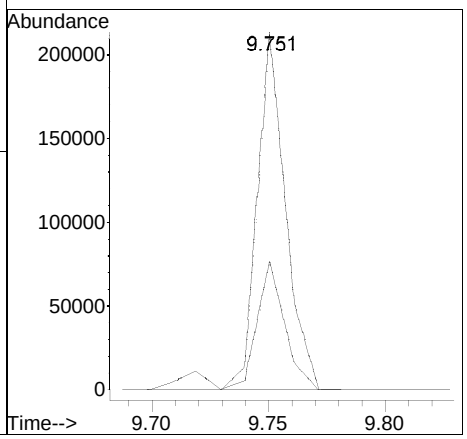


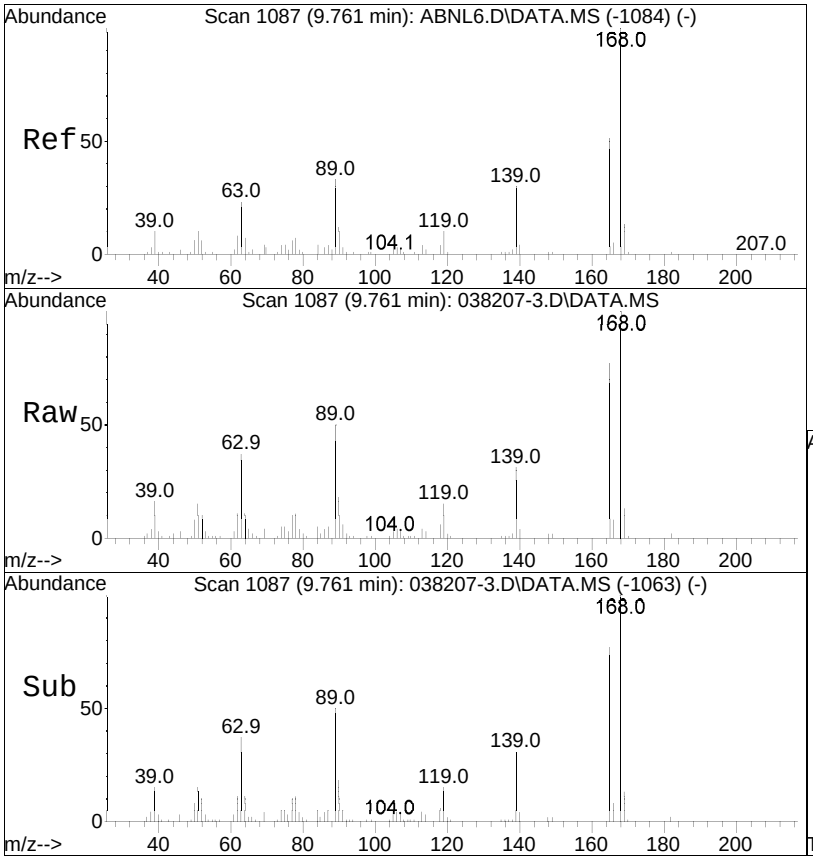


#67
Dibenzofuran
Concen: 1.62 ug/ml
RT: 9.751 min Scan# 1086
Delta R.T. 0.000 min
Lab File: 038207-3.D
Acq: 13 Mar 2025 2:13 pm

Tgt Ion:168 Resp: 176103

Ion	Ratio	Lower	Upper
168	100		
139	41.2	31.4	47.2

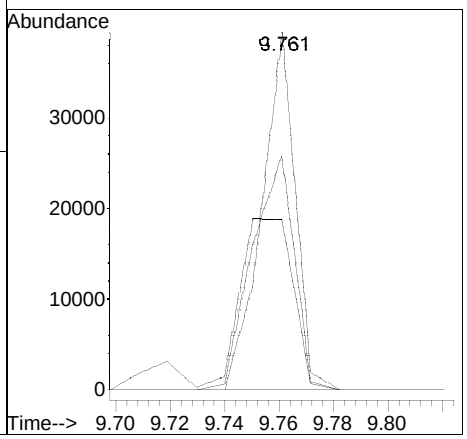


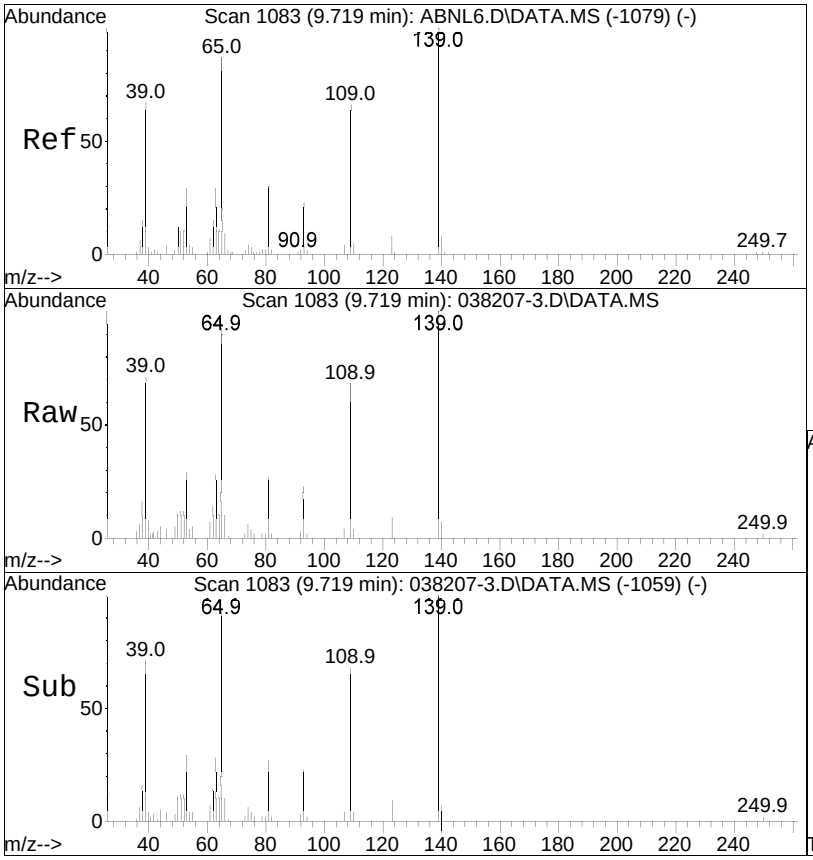


#68
2,4-Dinitrotoluene
Concen: 1.78 ug/ml
RT: 9.761 min Scan# 1087
Delta R.T. 0.000 min
Lab File: 038207-3.D
Acq: 13 Mar 2025 2:13 pm

Tgt Ion:165 Resp: 33488

Ion	Ratio	Lower	Upper
165	100		
89	81.7	72.0	108.0
63	84.8	52.7	79.1#

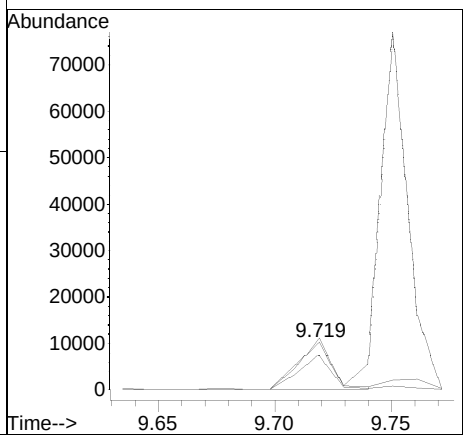


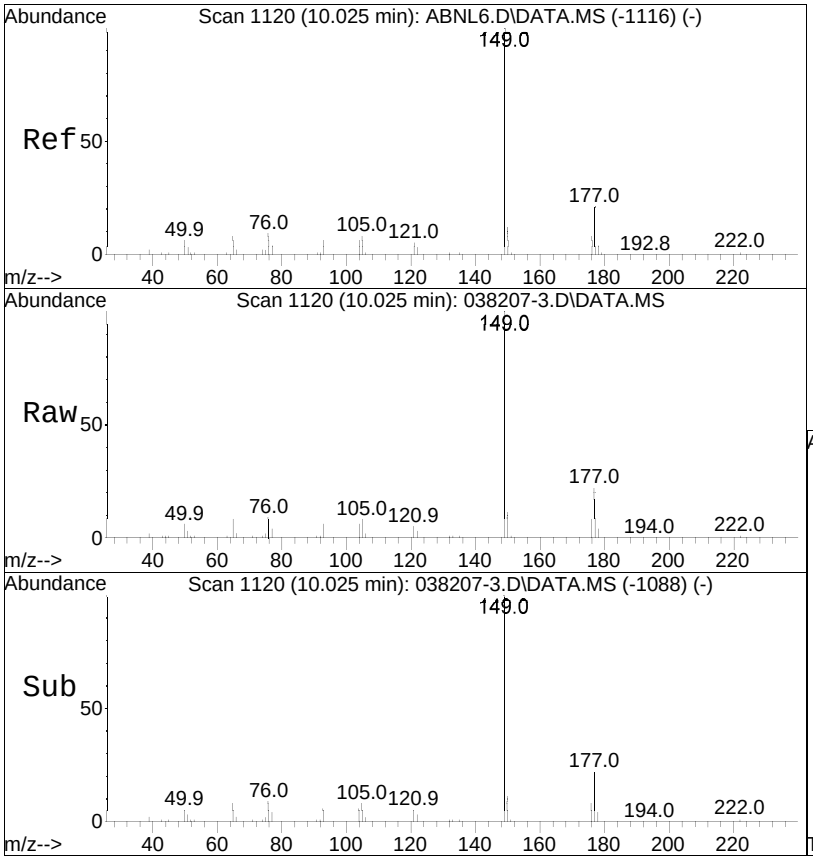


#69
4-Nitrophenol
Concen: 0.97 ug/ml
RT: 9.719 min Scan# 1083
Delta R.T. 0.000 min
Lab File: 038207-3.D
Acq: 13 Mar 2025 2:13 pm

Tgt Ion: 65 Resp: 10660

Ion	Ratio	Lower	Upper
65	100		
109	67.4	47.4	71.2
139	0.0	76.6	115.0#

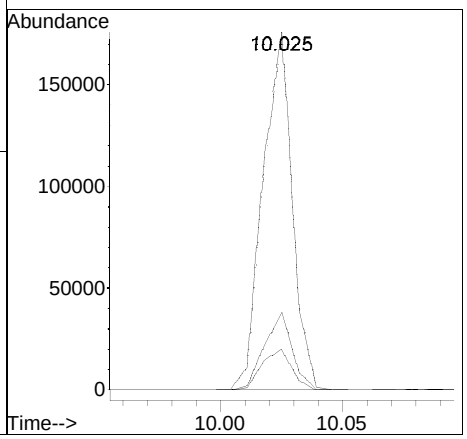


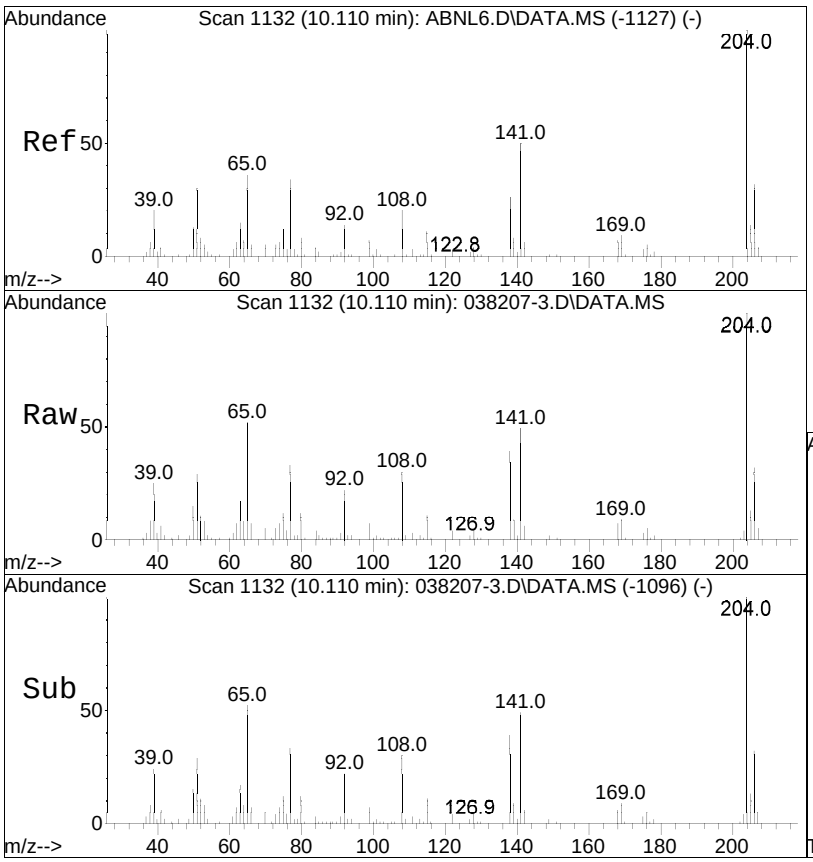


#72
Diethyl phthalate
Concen: 1.87 ug/ml
RT: 10.025 min Scan# 1120
Delta R.T. 0.000 min
Lab File: 038207-3.D
Acq: 13 Mar 2025 2:13 pm

Tgt Ion:149 Resp: 144435

Ion	Ratio	Lower	Upper
149	100		
177	20.8	16.1	24.1
150	11.8	9.4	14.2

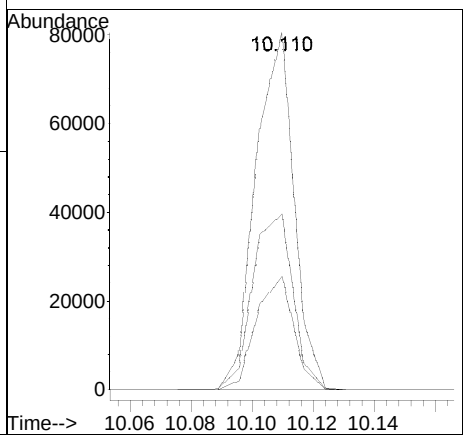


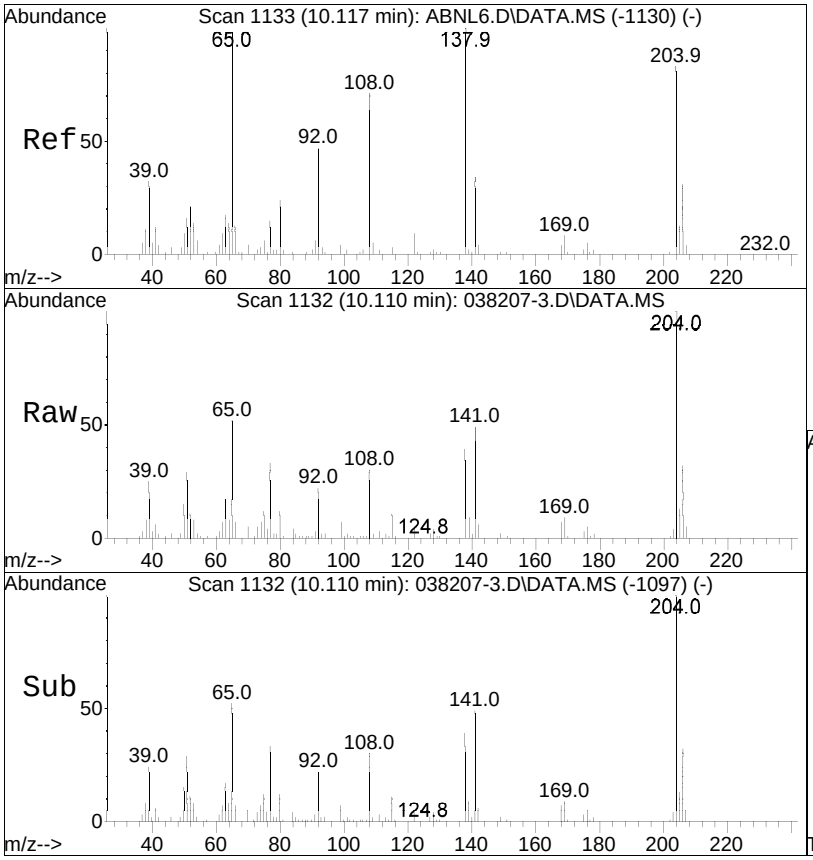


#74
4-Chlorophenyl phenyl ether
Concen: 1.65 ug/ml
RT: 10.110 min Scan# 1132
Delta R.T. 0.007 min
Lab File: 038207-3.D
Acq: 13 Mar 2025 2:13 pm

Tgt Ion:204 Resp: 69474

Ion	Ratio	Lower	Upper
204	100		
206	31.5	25.8	38.6
141	52.4	53.6	80.4#

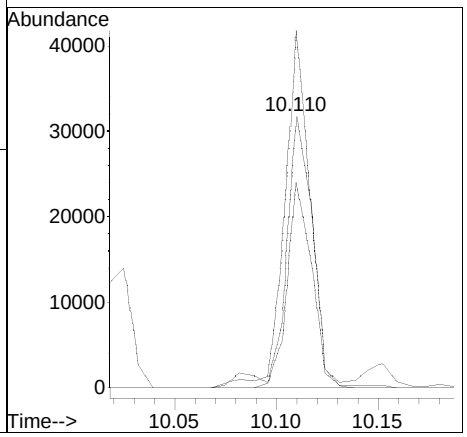


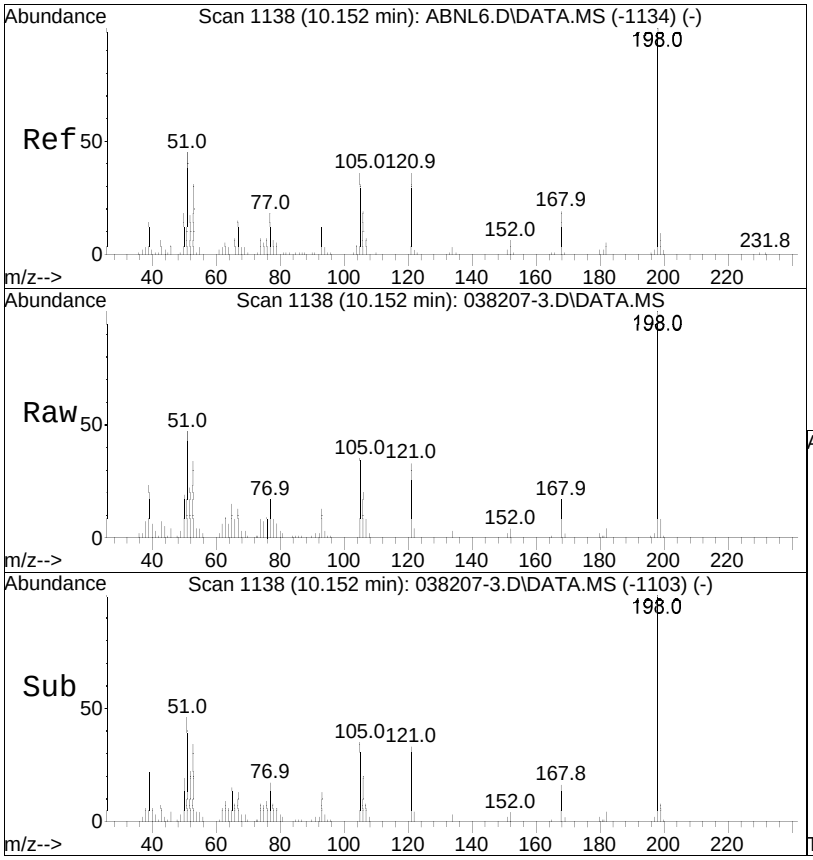


#75
4-Nitroaniline
Concen: 2.06 ug/ml
RT: 10.110 min Scan# 1132
Delta R.T. 0.000 min
Lab File: 038207-3.D
Acq: 13 Mar 2025 2:13 pm

Tgt Ion:138 Resp: 28734

Ion	Ratio	Lower	Upper
138	100		
108	71.1	52.1	78.1
65	125.2	115.0	172.6

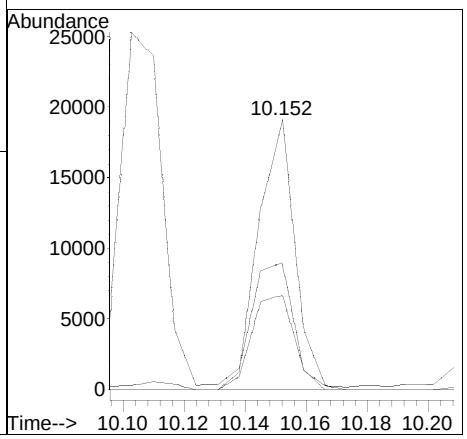


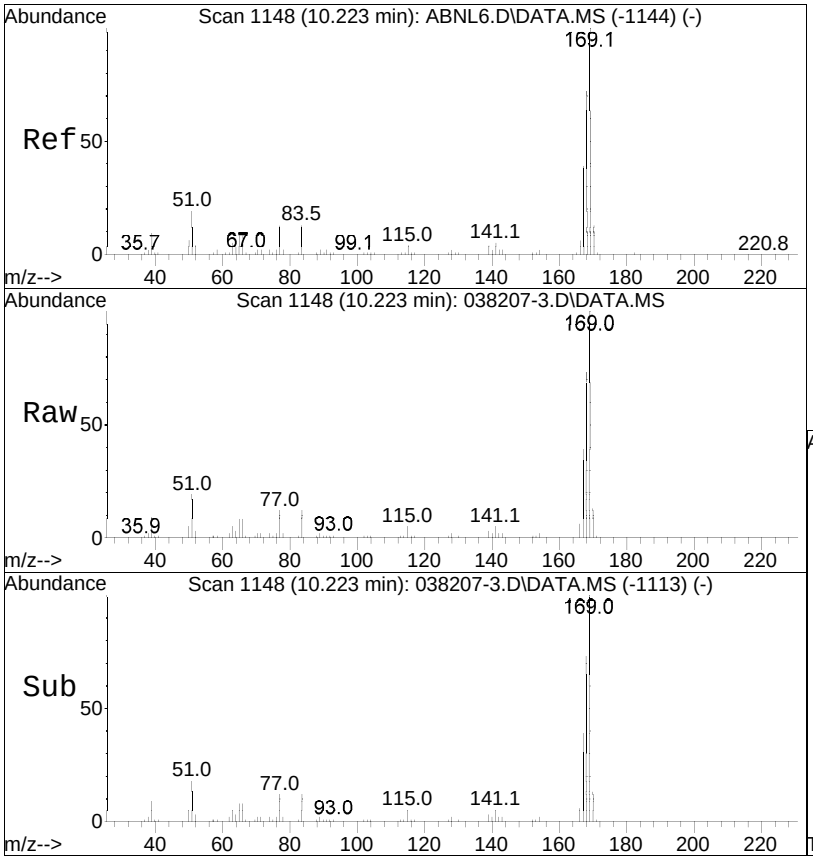


#76
4,6-Dinitro-o-cresol
Concen: 1.64 ug/ml
RT: 10.152 min Scan# 1138
Delta R.T. 0.000 min
Lab File: 038207-3.D
Acq: 13 Mar 2025 2:13 pm

Tgt Ion:198 Resp: 15885

Ion	Ratio	Lower	Upper
198	100		
51	56.3	76.0	114.0#
105	40.7	45.6	68.4#

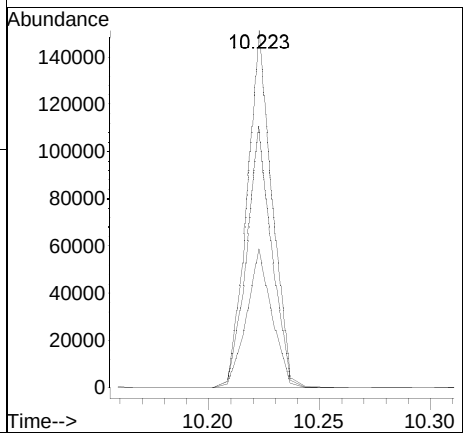


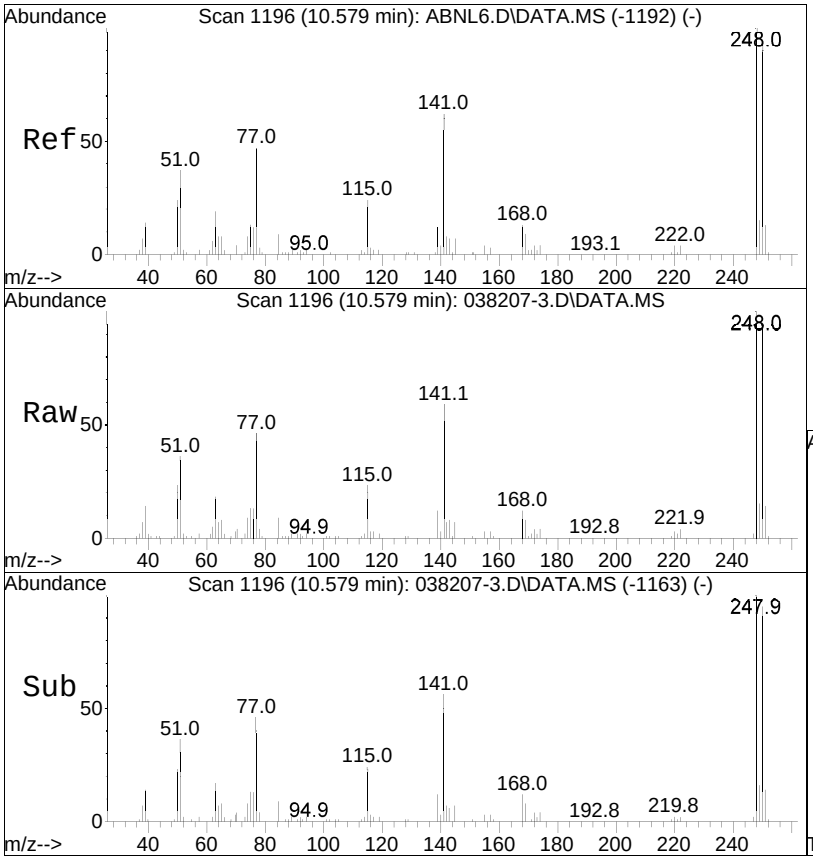


#77
NDPA/DPA
Concen: 1.78 ug/ml
RT: 10.223 min Scan# 1148
Delta R.T. 0.000 min
Lab File: 038207-3.D
Acq: 13 Mar 2025 2:13 pm

Tgt Ion:169 Resp: 119198

Ion	Ratio	Lower	Upper
169	100		
168	73.0	54.0	81.0
167	39.4	28.6	42.8

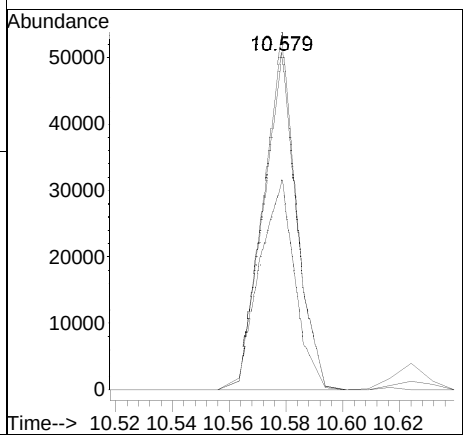


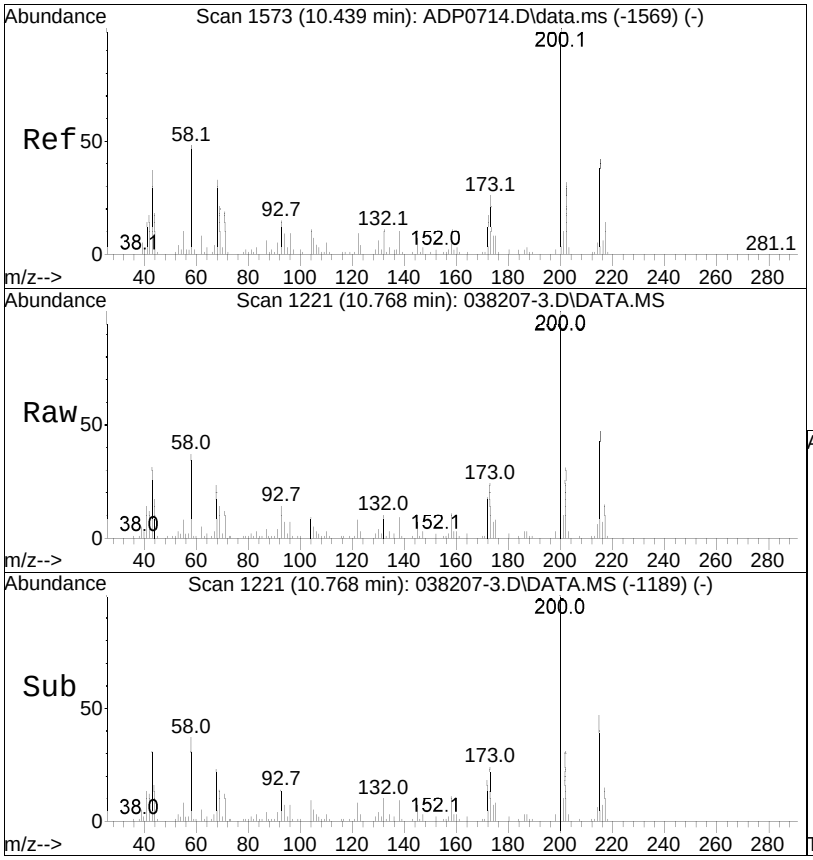


#80
4-Bromophenyl phenyl ether
Concen: 1.62 ug/ml
RT: 10.579 min Scan# 1196
Delta R.T. 0.000 min
Lab File: 038207-3.D
Acq: 13 Mar 2025 2:13 pm

Tgt Ion:248 Resp: 42751

Ion	Ratio	Lower	Upper
248	100		
141	64.1	76.6	114.8#
250	96.0	77.3	115.9

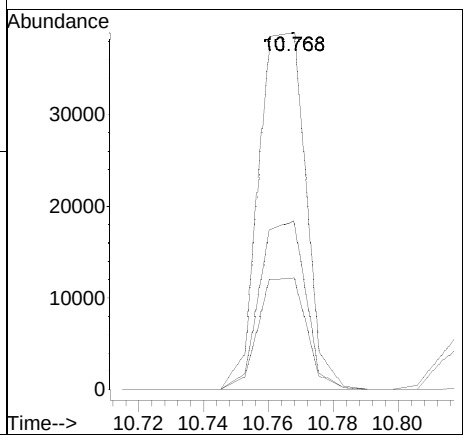


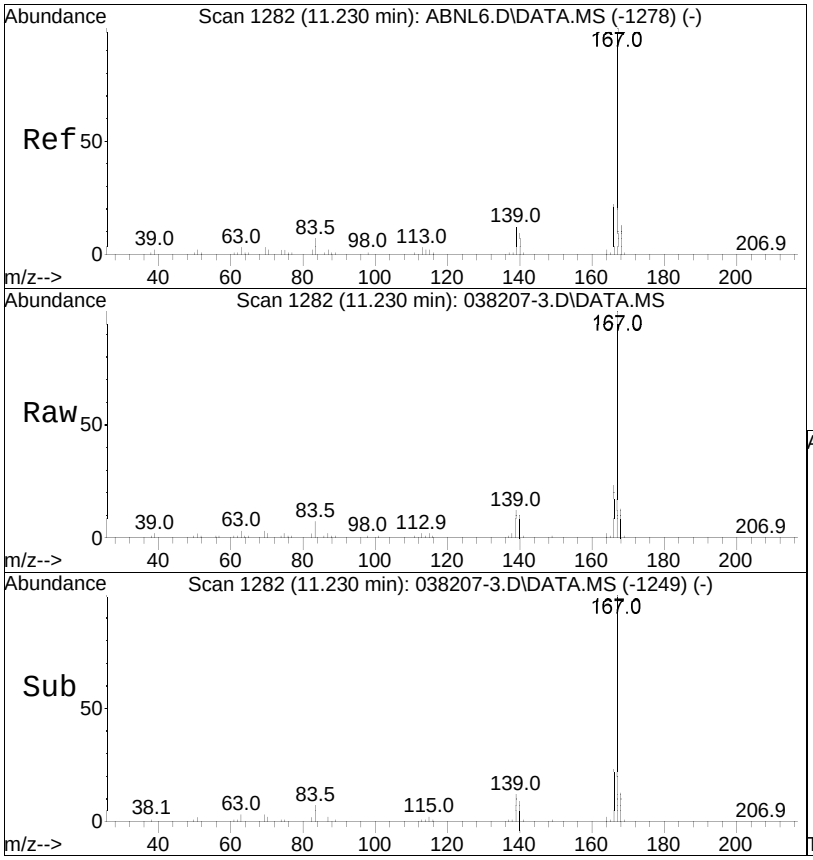


#87
Atrazine
Concen: 1.88 ug/ml
RT: 10.768 min Scan# 1221
Delta R.T. 0.007 min
Lab File: 038207-3.D
Acq: 13 Mar 2025 2:13 pm

Tgt Ion:200 Resp: 39028

Ion	Ratio	Lower	Upper
200	100		
202	31.8	25.8	38.6
215	45.9	40.2	60.4

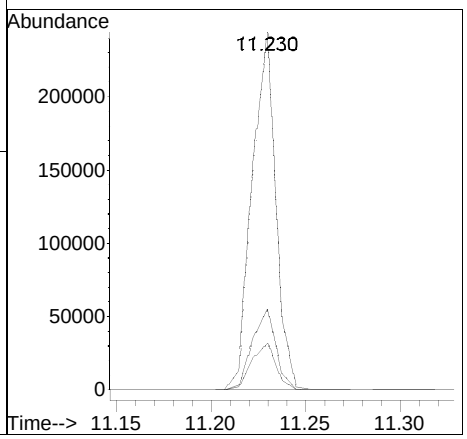


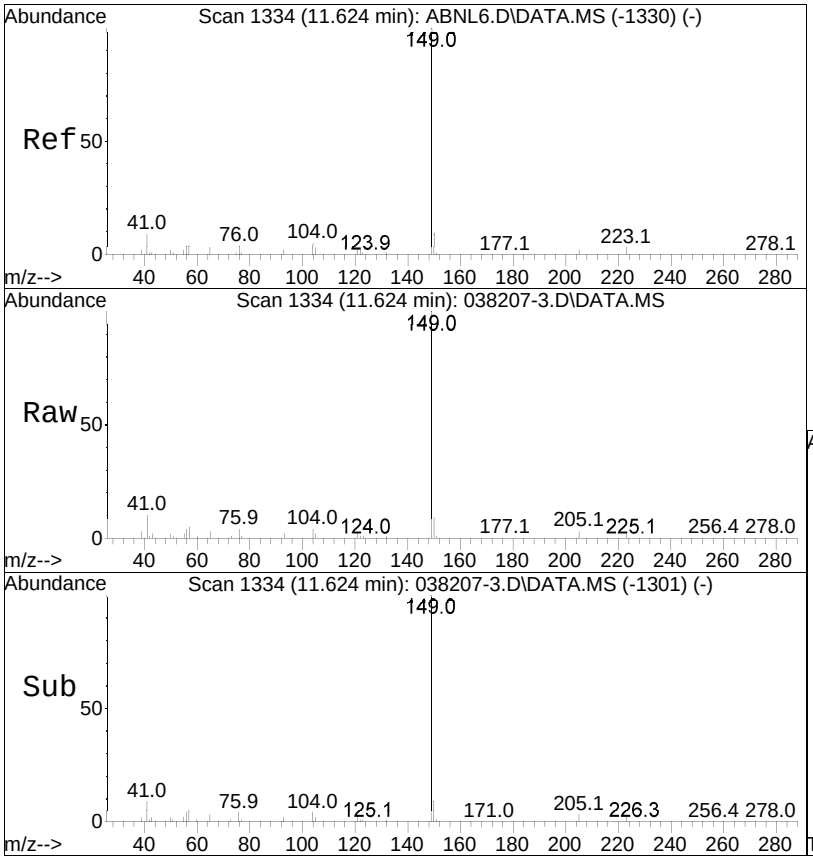


#91
Carbazole
Concen: 1.87 ug/ml
RT: 11.230 min Scan# 1282
Delta R.T. 0.000 min
Lab File: 038207-3.D
Acq: 13 Mar 2025 2:13 pm

Tgt Ion:167 Resp: 209455

Ion	Ratio	Lower	Upper
167	100		
168	13.6	10.6	15.8
166	22.7	17.4	26.0

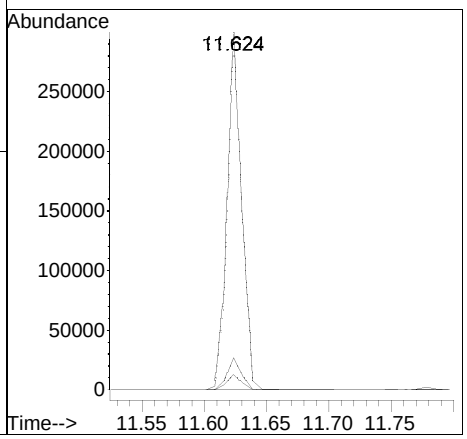


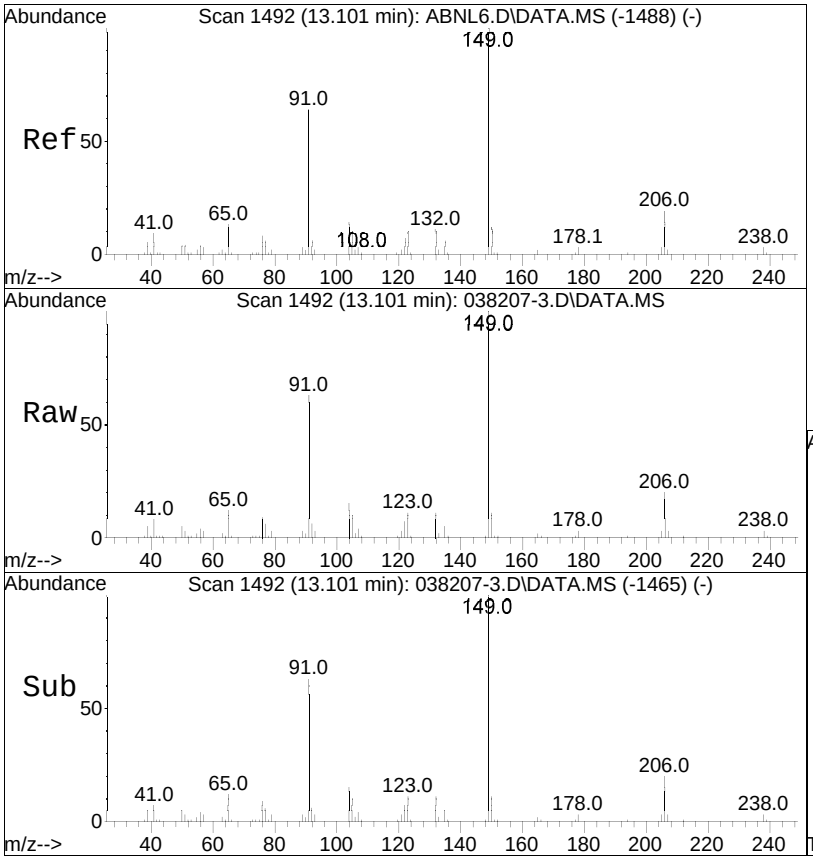


#92
Di-n-butylphthalate
Concen: 2.13 ug/ml
RT: 11.624 min Scan# 1334
Delta R.T. 0.000 min
Lab File: 038207-3.D
Acq: 13 Mar 2025 2:13 pm

Tgt Ion:149 Resp: 270092

Ion	Ratio	Lower	Upper
149	100		
150	7.8	7.0	10.6
104	4.0	4.5	6.7#

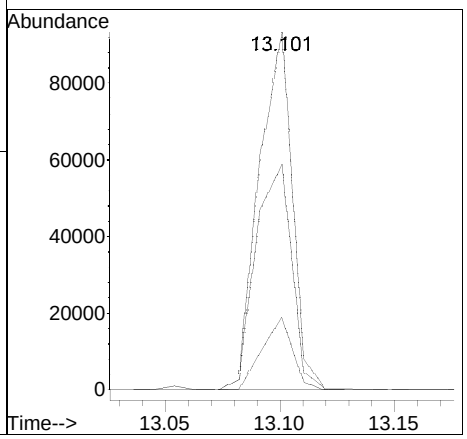


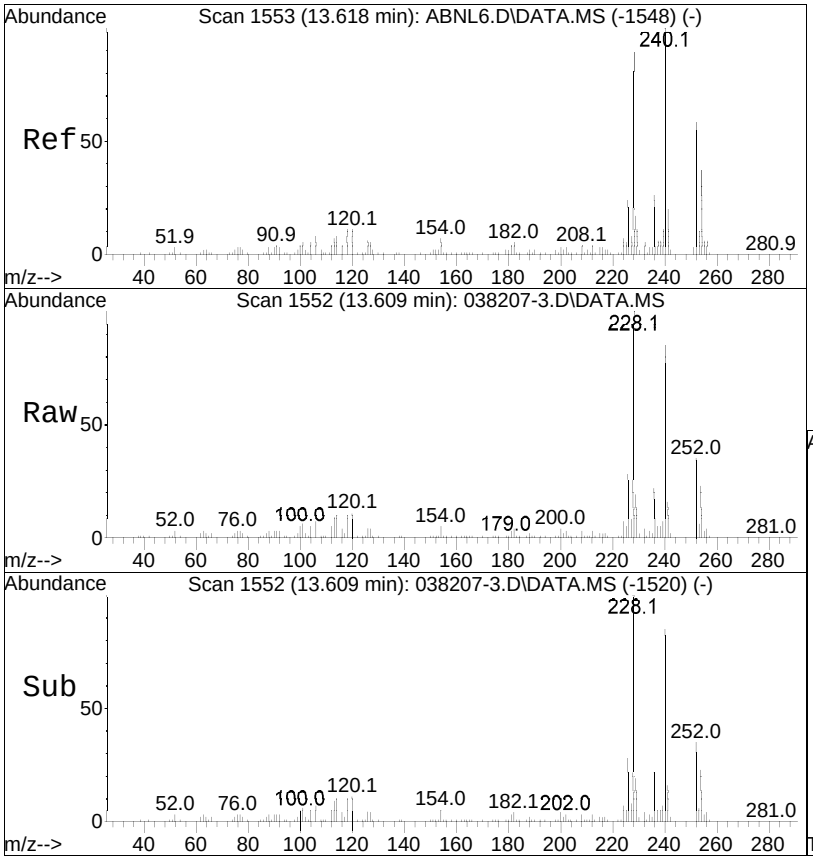


#97
Butyl benzyl phthalate
Concen: 1.86 ug/ml
RT: 13.101 min Scan# 1492
Delta R.T. 0.000 min
Lab File: 038207-3.D
Acq: 13 Mar 2025 2:13 pm

Tgt Ion:149 Resp: 92863

Ion	Ratio	Lower	Upper
149	100		
91	69.9	63.3	94.9
206	18.8	13.9	20.9

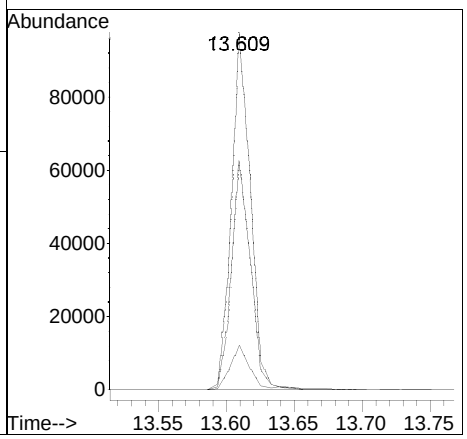


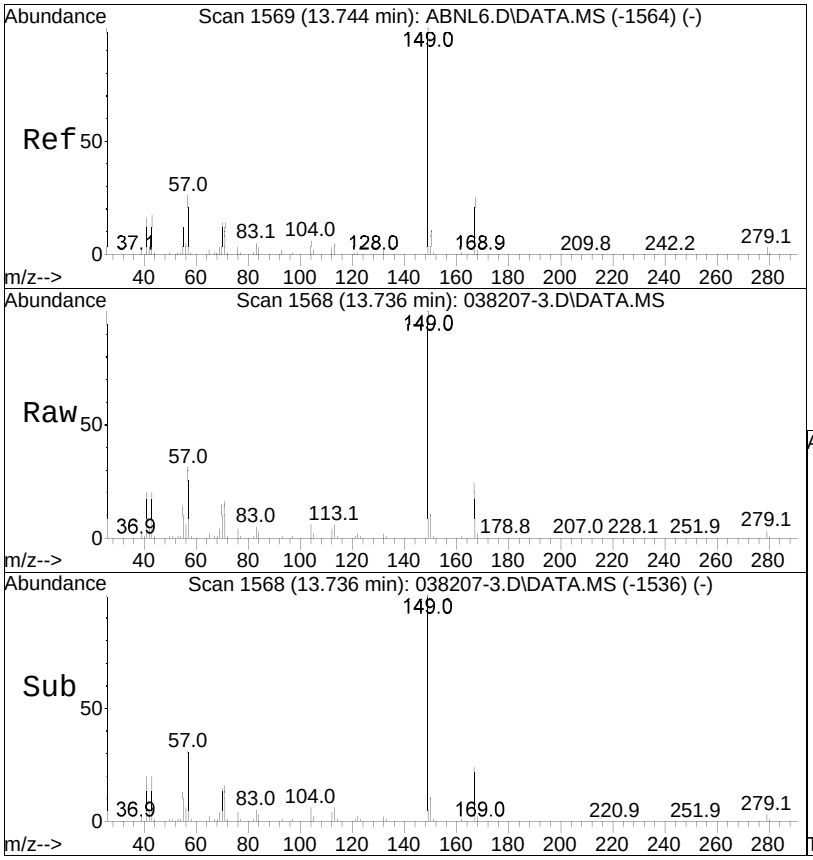


#106
3,3'-Dichlorobenzidine
Concen: 1.89 ug/ml
RT: 13.609 min Scan# 1552
Delta R.T. 0.000 min
Lab File: 038207-3.D
Acq: 13 Mar 2025 2:13 pm

Tgt Ion:252 Resp: 94277

Ion	Ratio	Lower	Upper
252	100		
126	13.6	14.5	21.7#
254	64.6	51.2	76.8

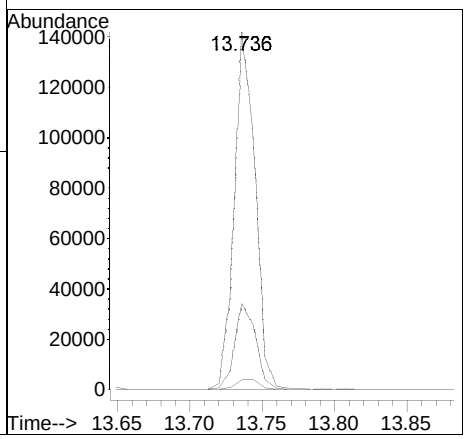


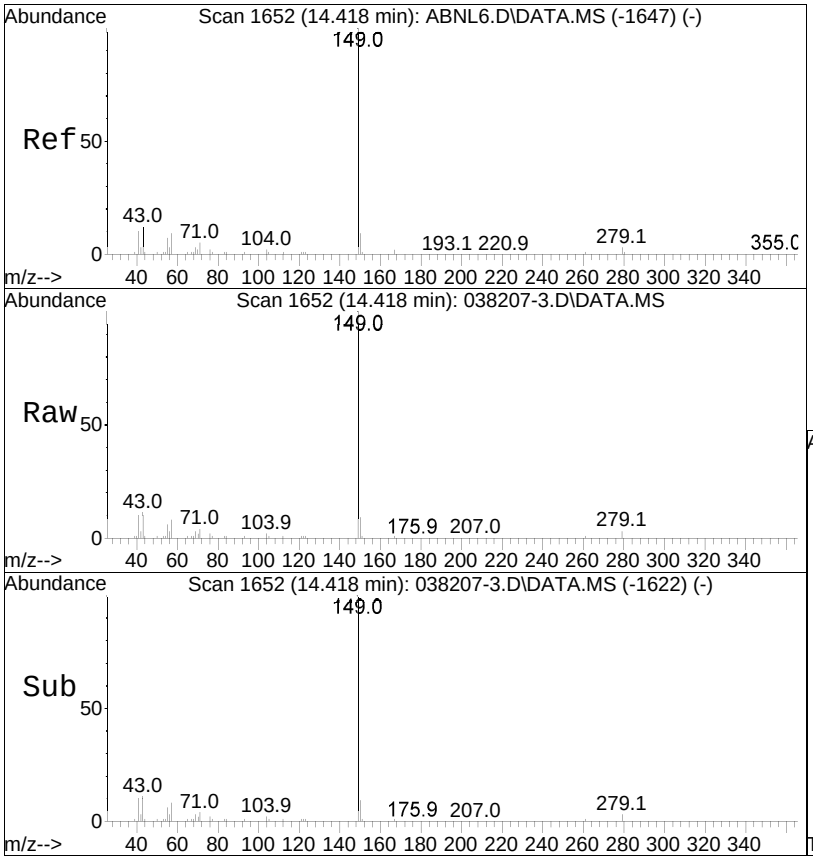


#108
Bis(2-ethylhexyl)phthalate
Concen: 1.79 ug/ml
RT: 13.736 min Scan# 1568
Delta R.T. 0.000 min
Lab File: 038207-3.D
Acq: 13 Mar 2025 2:13 pm

Tgt Ion:149 Resp: 140807

Ion	Ratio	Lower	Upper
149	100		
167	24.5	22.1	33.1
279	2.9	3.0	4.4#

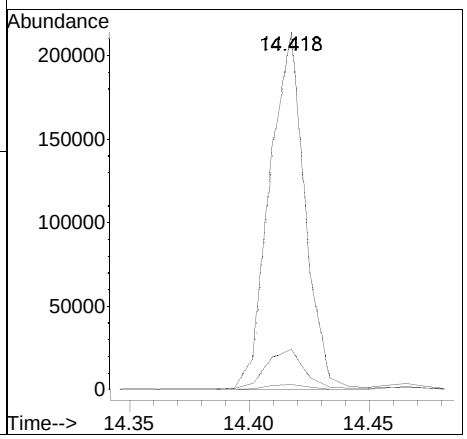




#109
Di-n-octylphthalate
Concen: 1.82 ug/ml
RT: 14.418 min Scan# 1652
Delta R.T. 0.000 min
Lab File: 038207-3.D
Acq: 13 Mar 2025 2:13 pm

Tgt Ion:149 Resp: 216192

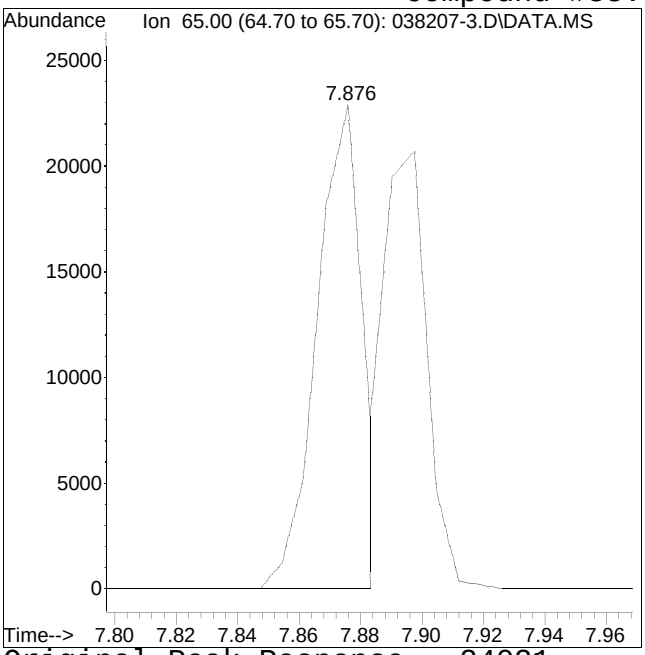
Ion	Ratio	Lower	Upper
149	100		
43	12.2	18.8	28.2#
167	1.4	1.3	1.9

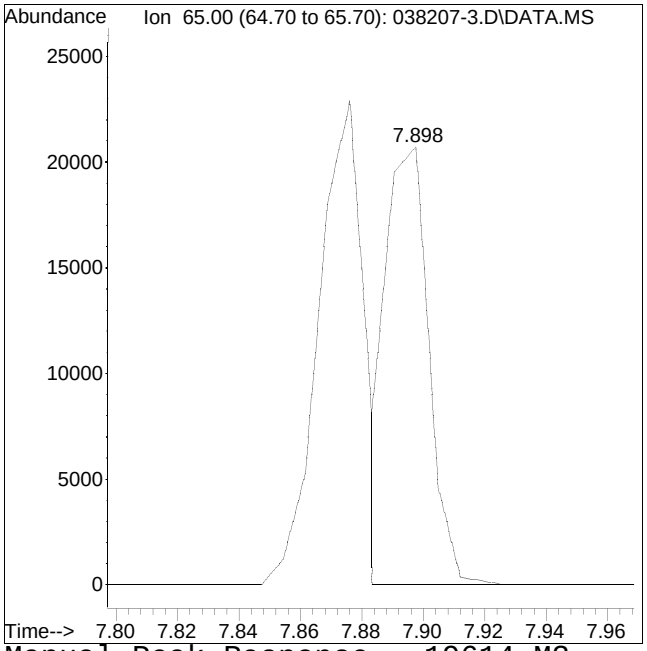


Manual Integration Report

Data Path	: I:\8270\SV106\250313RVT\	QMethod	: FS250311SV106.m
Data File	: 038207-3.D	Operator	: SV106:jg
Date Inj'd	: 3/13/2025 2:13 pm	Instrument	: SV 106
Sample	: WG2038207-3,32,,gmr	Quant Date	: 3/13/2025 4:37 pm

Compound #38: 4-Chloroaniline





Original Peak Response = 24021 Manual Peak Response = 19614 M3

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

Calculation of Semi Volatile Organic Compounds

Aqueous Concentration Formula: Amt * DF * 1000 * (1/Vo) * Vf

Where:
DF = Dilution Factor
Vo = Volume of Sample (mL)
Vf = Extraction Lab Final Volume (mL)

Soil Concentration Formula: Amt * DF * 1000 * (1/Wt) * Vf * (100/TS)
Where:
DF = Dilution Factor
Wt = Weight of Sample (g)
Vf = Extraction Lab Final Volume (mL)
TS = Total Solids

PACE ANALYTICAL SERVICES

PACE WORK GROUP REPORT (wk02)

Mar 14 2025, 09:56 am

Work Group: WG2038207 for Department: 2 Organic Preparation

Created: 08-MAR-25 Due: Operator: SHD

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2512368-01	5A	C	NYTCL-8270-RVT	WATER	DONE	U	0312	0312	S0	Amber-A.1
L2512368-02	5B	C	NYTCL-8270-RVT	WATER	DONE	U	0312	0312	S0	Amber-A.1
L2512368-04	6A	C	NYTCL-8270-RVT	WATER	DONE	U	0312	0312	S0	Amber-A.1
L2512368-05	6B	C	NYTCL-8270-RVT	WATER	DONE	U	0312	0312	S0	Amber-A.1
L2512368-07	7A	C	NYTCL-8270-RVT	WATER	DONE	U	0312	0312	S0	Amber-A.1
L2512368-08	7B	C	NYTCL-8270-RVT	WATER	DONE	U	0312	0312	S0	Amber-A.1
L2512368-10	8A	C	NYTCL-8270-RVT	WATER	DONE	U	0312	0312	S0	Amber-A.1
L2512368-11	8B	C	NYTCL-8270-RVT	WATER	DONE	U	0312	0312	S0	Amber-A.1
L2512368-13	9A	C	NYTCL-8270-RVT	WATER	DONE	U	0312	0312	S0	Amber-A.1
L2512368-14	9B	C	NYTCL-8270-RVT	WATER	DONE	U	0312	0312	S0	Amber-A.1
L2512368-16	10A	C	NYTCL-8270-RVT	WATER	DONE	U	0312	0312	S0	Amber-A.1
L2512368-17	10B	C	NYTCL-8270-RVT	WATER	DONE	U	0312	0312	S0	Amber-A.1
L2512368-19	DUP001	C	NYTCL-8270-RVT	WATER	DONE	U	0312	0312	S0	Amber-A.1
L2512568-01	GW-TS-8	C	NYTCL-8270-RVT	WATER	DONE	U	0313	0313	S0	Amber-A.1
L2512607-01	MW-4S	C	NYTCL-8270-RVT	WATER	DONE	U	0313	0313	S0	Amber-A.1
L2512607-02	MW-4D2	C	NYTCL-8270-RVT	WATER	DONE	U	0313	0313	S0	Amber-A.1
L2512607-03	MW-12S	C	NYTCL-8270-RVT	WATER	DONE	U	0313	0313	S0	Amber-A.1
L2512607-04	MW-12D	C	NYTCL-8270-RVT	WATER	DONE	U	0313	0313	S0	Amber-A.1
L2512607-05	SCDOH_DR	C	NYTCL-8270-RVT	WATER	DONE	U	0313	0313	S0	Amber-A.1
L2512607-06	EQUIPMENT BLANK	C	NYTCL-8270-RVT	WATER	DONE	U	0313	0313	S0	Amber-A.1
WG2038207-1	Laboratory Method Bl	S	NYTCL-8270-RVT	WATER	DONE	U				
WG2038207-2	Laboratory Control S	S	NYTCL-8270-RVT	WATER	DONE	U				
WG2038207-3	LCS Duplicate	S	NYTCL-8270-RVT	WATER	DONE	U				
WG2038207-4	Matrix Spike	S	NYTCL-8270-RVT	WATER	DONE	U				
WG2038207-5	Matrix Spike Duplica	S	NYTCL-8270-RVT	WATER	DONE	U				

Comments:

WG2038207-3	WG2038207-2
WG2038207-4	L2512368-10
WG2038207-5	L2512368-10

Dep.: GCMS
Inst: DAKOTA
Date: **11/05/24**
Run: ICAL

Method
GC: ABNRVT

Seq: WG1994500

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	Initials
100	Tune1	Tune1 Lot # 11144				
1	ABNL9	IL2,32,,ABNL50 Lot# 11111	**Passes Full List**			
2	ABNL8	IL3,32,,ABNL25 Lot# 11112				
3	ABNL7	IL4,32,,ABNL10 Lot# 11113				
4	ABNL6	IL5,32,,ABNL5 Lot# 11114				
5	ABNL5	IL6,32,,ABNL2.5 Lot# 11115				
6	ABNL4	IL7,32,,ABNL1 Lot# 11116				
7	ABNL3	IL8,32,,ABNL0.5 Lot# 11117				
8	ABNL2	IL9,32,,ABNL0.2 Lot# 11149				
9	ABNL1	IL10,32,,ABNL0.1 Lot# 11150				
10	AP9L9	IL2,32,,AP9L50 Lot# 11120				
11	AP9L8	IL3,32,,AP9L25 Lot# 11121				
12	AP9L7	IL4,32,,AP9L10 Lot# 11122				
13	AP9L6	IL5,32,,AP9L5 Lot# 11123				
14	AP9L5	IL6,32,,AP9L2.5 Lot# 11124				
15	AP9L4	IL7,32,,AP9L1 Lot# 11125				
16	AP9L3	IL8,32,,AP9L0.5 Lot# 11126				
17	AP9L2	IL9,32,,AP9L0.2 Lot# 11127				
18	AP9L1	IL10,32,,AP9L0.1 Lot# 11128				
19	ABNICV	CQICV1,32,,ABNICV Lot# 11138				
20	AP9ICV	CQICV2,32,,AP9ICV Lot# 11139				
100	Tune2	Tune2 Lot # 11144				
21	ADPL9	IL2,32,,ADPL50 Lot# 11129				
22	ADPL8	IL3,32,,ADPL25 Lot# 11130				
23	ADPL7	IL4,32,,ADPL10 Lot# 11131				
24	ADPL6	IL5,32,,ADPL5 Lot# 11132				
25	ADPL5	IL6,32,,ADPL2.5 Lot# 11133				
26	ADPL4	IL7,32,,ADPL1 Lot# 11134				
27	ADPL3	IL8,32,,ADPL0.5 Lot# 11135				
28	ADPL2	IL9,32,,ADPL0.2 Lot# 11136				
29	ADPL1	IL10,32,,ADPL0.1 Lot# 11137				
30	ADPICV	CQICV,32,,ADPICV Lot# 11140				
31	Blank	Instrument Blank				

Analysis log File

Total Files Reported in Log : 33
Log Generated From Directory: I:\8270\SV106\250311RVTical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	Tune1.D	ABNRVT(SIM).	Tune1 Lot# 11459	WG2039658,,ical	3/11/2025 4:27 pm
2	ABNL9.D	ABNRVT(SIM).	IL2,32,,ABNL50 Lot# 114	WG2039658,,ical	3/11/2025 4:50 pm
3	ABNL8.D	ABNRVT(SIM).	IL3,32,,ABNL25 Lot# 114	WG2039658,,ical	3/11/2025 5:14 pm
4	ABNL7.D	ABNRVT(SIM).	IL4,32,,ABNL10 Lot# 114	WG2039658,,ical	3/11/2025 5:37 pm
5	ABNL6.D	ABNRVT(SIM).	IL5,32,,ABNL5 Lot# 1142	WG2039658,,ical	3/11/2025 6:01 pm
6	ABNL5.D	ABNRVT(SIM).	IL6,32,,ABNL2.5 Lot# 11	WG2039658,,ical	3/11/2025 6:24 pm
7	ABNL4.D	ABNRVT(SIM).	IL7,32,,ABNL1 Lot# 1143	WG2039658,,ical	3/11/2025 6:48 pm
8	ABNL3.D	ABNRVT(SIM).	IL8,32,,ABNL0.5 Lot# 11	WG2039658,,ical	3/11/2025 7:11 pm
9	ABNL2.D	ABNRVT(SIM).	IL9,32,,ABNL0.2 Lot# 11	WG2039658,,ical	3/11/2025 7:34 pm
10	ABNL1.D	ABNRVT(SIM).	IL10,32,,ABNL0.1 Lot# 1	WG2039658,,ical	3/11/2025 7:58 pm
11	ABNICV.D	ABNRVT(SIM).	CQICV1,32,,ABNICV Lot#	WG2039658,,ical	3/11/2025 10:18 pm
12	Tune2.D	ABNRVT(SIM).	Tune2 Lot# 11459	WG2039658,,ical	3/11/2025 11:05 pm
13	AP9L9.D	ABNRVT(SIM).	IL2,32,,AP9L50 Lot# 114	WG2039658,,ical	3/11/2025 11:29 pm
14	AP9L8.D	ABNRVT(SIM).	IL3,32,,AP9L25 Lot# 114	WG2039658,,ical	3/11/2025 11:52 pm
15	AP9L6.D	ABNRVT(SIM).	IL5,32,,AP9L5 Lot# 1143	WG2039658,,ical	3/12/2025 12:39 am
16	AP9L7.D	ABNRVT(SIM).	IL4,32,,AP9L10 Lot# 114	WG2039658,,ical	3/12/2025 12:15 am
17	AP9L5.D	ABNRVT(SIM).	IL6,32,,AP9L2.5 Lot# 11	WG2039658,,ical	3/12/2025 1:02 am
18	AP9L4.D	ABNRVT(SIM).	IL7,32,,AP9L1 Lot# 1143	WG2039658,,ical	3/12/2025 1:26 am
19	AP9L3.D	ABNRVT(SIM).	IL8,32,,AP9L0.5 Lot# 11	WG2039658,,ical	3/12/2025 1:49 am
20	AP9L2.D	ABNRVT(SIM).	IL9,32,,AP9L0.2 Lot# 11	WG2039658,,ical	3/12/2025 2:12 am
21	AP9L1.D	ABNRVT(SIM).	IL10,32,,AP9L0.1 Lot# 1	WG2039658,,ical	3/12/2025 2:36 am
22	ADPL9.D	ABNRVT(SIM).	IL2,32,,ADPL50 Lot# 114	WG2039658,,ical	3/12/2025 2:59 am
23	ADPL8.D	ABNRVT(SIM).	IL3,32,,ADPL25 Lot# 114	WG2039658,,ical	3/12/2025 3:23 am
24	ADPL7.D	ABNRVT(SIM).	IL4,32,,ADPL10 Lot# 114	WG2039658,,ical	3/12/2025 3:46 am
25	ADPL6.D	ABNRVT(SIM).	IL5,32,,ADPL5 Lot# 1144	WG2039658,,ical	3/12/2025 4:09 am
26	ADPL5.D	ABNRVT(SIM).	IL6,32,,ADPL2.5 Lot# 11	WG2039658,,ical	3/12/2025 4:33 am
27	ADPL4.D	ABNRVT(SIM).	IL7,32,,ADPL1 Lot# 1144	WG2039658,,ical	3/12/2025 4:56 am
28	ADPL3.D	ABNRVT(SIM).	IL8,32,,ADPL0.5 Lot# 11	WG2039658,,ical	3/12/2025 5:20 am
29	ADPL2.D	ABNRVT(SIM).	IL9,32,,ADPL0.2 Lot# 11	WG2039658,,ical	3/12/2025 5:43 am
30	ADPL1.D	ABNRVT(SIM).	IL10,32,,ADPL0.1 Lot# 1	WG2039658,,ical	3/12/2025 6:06 am
31	AP9ICV.D	ABNRVT(SIM).	CQICV2,32,,AP9ICV Lot#	WG2039658,,ical	3/12/2025 6:30 am
32	ADPICV.D	ABNRVT(SIM).	CQICV,32,,ADPICV Lot# 1	WG2039658,,ical	3/12/2025 6:53 am
33	Blank.D	ABNRVT(SIM).	RVT Instrument Blank	wg,,ical	3/12/2025 7:16 am

SeqLog 1.0 - (c) 2009 Abacus Database Applications

Dep.: GCMS
Inst: DAKOTA
Date: **03/13/25**
Run:

Method
GC: ABNRVT

Seq: **WG2040097**
ICAL: 21680

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	Initials
100	DEG0313	wg-1,32,,Degdftpp Lot #11459				smz 3/13
96	ABN0313	wg-3,32,,ABN 11297 gmr0304B				smz 3/13
97	AP90313	wg-4,32,,AP9 11152 gmr0304B				smz 3/13
98	ADP0313	wg-5,32,,ADP 11153 gmr0304B				smz 3/13
1	039600-1	WG2039600-1,32,,RV,gmr				smz 3/13
2	039600-2	WG2039600-2,32,,RV,gmr				smz 3/13
3	039600-3	WG2039600-3,32,,RV,gmr				smz 3/13
4	12223-03	L2512223-03,32,,RV,gmr				smz 3/13
5	12223-04	L2512223-04,32,,RV,gmr				smz 3/13
6	12223-06	L2512223-06,32,,gmr				smz 3/13
7	039914-2	WG2039914-2,32,,gmr				smz 3/13
8	039914-3	WG2039914-3,32,,gmr				smz 3/13
9	039914-1	WG2039914-1,32,,gmr				smz 3/13
10	13609-09	L2513609-09,32,,R3B,gmr				smz 3/13
11	13609-10	L2513609-10,32,,R3B,gmr				smz 3/13
12	039773-2	WG2039773-2,32,,gmr				smz 3/13
13	039773-3	WG2039773-3,32,,gmr				smz 3/13
14	039773-1	WG2039773-1,32,,gmr				smz 3/13
15	12223-01	L2512223-01,32,,gmr			**sv-smz**	smz 3/13
16	12325-03	L2512325-03,32,,RE,gmr				smz 3/13
17	12325-04	L2512325-04,32,,RE,gmr				smz 3/13
18	12325-05	L2512325-05,32,,RE,gmr				smz 3/13
19	12325-06	L2512325-06,32,,RE,gmr			**sv-smz**	smz 3/13
20	12325-07	L2512325-07,32,,RV,gmr				3/13jg
21	12325-08	L2512325-08,32,,RV,gmr				3/13jg
22	12325-09	L2512325-09,32,,RV,gmr				3/13jg
23	2558-02d	L2512558-02d,32,5,RR			**gmr/sv jg**	3/13jg
24	12568-01	L2512568-01,32,,				3/13jg
25	12607-04	L2512607-04,32,,			**jg**	3/13jg
					sv-mrg	

Dep.: GCMS
Inst: SV106
Date: **03/13/25**
Run:

Method
GC: ABNRVT

Seq: **WG2040166**
ICAL: **22075**

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	Initials
141	DEG0313	wg-1,32,,SV106 Degdftpp Lot#11459				3/13jg
142	ABN0313	wg-3,32,,ABN 11297 gmr0304B	**Full List**			3/13jg
143	AP90313	wg-4,32,,AP9 11152 gmr0304B				3/13jg
144	ADP0313	wg-5,32,,ADP 11153 gmr0304B				3/13jg
1	038210-1	WG2038210-1,32,,gmr				
2	038210-2	WG2038210-2,32,,gmr				
3	038210-3	WG2038210-3,32,,gmr				
4	038207-1	WG2038207-1,32,,gmr				3/13jg
5	038207-2	WG2038207-2,32,,gmr				3/13jg
6	038207-3	WG2038207-3,32,,gmr			**sv-hny**	3/13jg
7	038436-1	WG2038436-1,32,,gmr				3/13jg
8	038436-2	WG2038436-2,32,,gmr				3/13jg
9	038436-3	WG2038436-3,32,,gmr				3/13jg
10	12663-01	L2512663-01,32,,gmr				3/13jg
11	12679-01	L2512679-01,32,,gmr			**gmr**	3/13jg
12	12607-02	L2512607-02,32,,gmr			**sv jg**	3/13jg
13	12607-03	L2512607-03,32,,gmr				3/13jg
14	12607-04	L2512607-04,32,,gmr	rv, Is low			3/13jg
15	12607-05	L2512607-05,32,,gmr				3/13jg
16	12607-06	L2512607-06,32,,gmr				3/13jg
17	12607-01	L2512607-01,32,,gmr			**als**	3/13jg
					sv jg	

ORGANIC ELN REPORT

Workgroup: WG2038207

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EJ756
Surrogate Type: ABN **Lot #:** 11378ag,08/11/2025,2c,7,7
Spike Type: ABN **Lot #:** 11219al,06/19/2025,4r,11220ad
Spike Verify by: SHD
Lims Spikelot: 8270-RVT

Additional Reagents/Stds

H2SO4	A120224
Na2SO4	23K2961078
NaOH	10NNaOH010625

Conc.Method: Buchi
Solvent Type: DCM
Lot #: EJ756

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Conc Date	Analyst	Final Vol ml	Conc Unit
L2512368-01 SAMP	03/08/25 23:50	Samy Dakkash	100	<2, >12	.1		03/09/25 04:36	Alaina Ohara-Cruz	1	K
L2512368-02 SAMP	03/08/25 23:50	Samy Dakkash	100	<2, >12	.1		03/09/25 04:36	Alaina Ohara-Cruz	1	K
L2512368-04 SAMP	03/08/25 23:50	Samy Dakkash	100	<2, >12	.1		03/09/25 04:36	Alaina Ohara-Cruz	1	K
L2512368-05 SAMP	03/08/25 23:50	Samy Dakkash	100	<2, >12	.1		03/09/25 04:36	Alaina Ohara-Cruz	1	K
L2512368-07 SAMP	03/08/25 23:50	Samy Dakkash	100	<2, >12	.1		03/09/25 04:36	Alaina Ohara-Cruz	1	K
L2512368-08 SAMP	03/08/25 23:50	Samy Dakkash	100	<2, >12	.1		03/09/25 04:36	Alaina Ohara-Cruz	1	K

ORGANIC ELN REPORT

Workgroup: WG2038207

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2512368-10 SAMP	03/08/25 23:50	Samy Dakkash	100	<2, >12	.1		03/09/25 04:36	Alaina Ohara-Cruz	1	K
L2512368-11 SAMP	03/08/25 23:50	Samy Dakkash	100	<2, >12	.1		03/09/25 04:36	Alaina Ohara-Cruz	1	K
L2512368-13 SAMP	03/08/25 23:50	Samy Dakkash	100	<2, >12	.1		03/09/25 04:36	Alaina Ohara-Cruz	1	K
L2512368-14 SAMP	03/08/25 23:50	Samy Dakkash	100	<2, >12	.1		03/09/25 04:36	Alaina Ohara-Cruz	1	K
L2512368-16 SAMP	03/08/25 23:50	Samy Dakkash	100	<2, >12	.1		03/09/25 04:36	Alaina Ohara-Cruz	1	K
L2512368-17 SAMP	03/08/25 23:50	Samy Dakkash	100	<2, >12	.1		03/09/25 04:36	Alaina Ohara-Cruz	1	K
L2512368-19 SAMP	03/08/25 23:50	Samy Dakkash	100	<2, >12	.1		03/09/25 04:36	Alaina Ohara-Cruz	1	K
L2512568-01 SAMP	03/08/25 23:50	Samy Dakkash	100	<2, >12	.1		03/09/25 04:36	Alaina Ohara-Cruz	1	K

ORGANIC ELN REPORT

Workgroup: WG2038207

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2512607-01 SAMP	03/08/25 23:50	Samy Dakkash	100	<2, >12	.1		03/09/25 04:36	Alaina Ohara-Cruz	1	K
L2512607-02 SAMP	03/08/25 23:50	Samy Dakkash	100	<2, >12	.1		03/09/25 04:36	Alaina Ohara-Cruz	1	K
L2512607-03 SAMP	03/08/25 23:50	Samy Dakkash	100	<2, >12	.1		03/09/25 04:36	Alaina Ohara-Cruz	1	K
L2512607-04 SAMP	03/08/25 23:50	Samy Dakkash	100	<2, >12	.1		03/09/25 04:36	Alaina Ohara-Cruz	1	K
L2512607-05 SAMP	03/08/25 23:50	Samy Dakkash	100	<2, >12	.1		03/09/25 04:36	Alaina Ohara-Cruz	1	K
L2512607-06 SAMP	03/08/25 23:50	Samy Dakkash	100	<2, >12	.1		03/09/25 04:36	Alaina Ohara-Cruz	1	K
WG2038207-1 BLANK	03/08/25 23:50 **WG2038209**	Samy Dakkash	100	<2, >12	.1		03/09/25 04:36	Alaina Ohara-Cruz	1	K
WG2038207-2 LCS	03/08/25 23:50	Samy Dakkash	100	<2, >12	.1	.1	03/09/25 04:36	Alaina Ohara-Cruz	1	K

ORGANIC ELN REPORT

Workgroup: WG2038207

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
WG2038207-3 LCSD	03/08/25 23:50	Samy Dakkash	100	<2, >12	.1	.1	03/09/25 04:36	Alaina Ohara-Cruz	1	K
WG2038207-4 MS	03/08/25 23:50	Samy Dakkash	100	<2, >12	.1	.1	03/09/25 04:36	Alaina Ohara-Cruz	1	K
WG2038207-5 MSD	03/08/25 23:50	Samy Dakkash	100	<2, >12	.1	.1	03/09/25 04:36	Alaina Ohara-Cruz	1	K

Reported: 14-MAR-25 09:56 AM

Semivolatiles Data
by Method 8270D-SIM

Semivolatiles QC Summary

Surrogate Recovery Summary
Form 2
Semivolatiles

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

Lab Number: L2512607
Project Number: 2232.0006Y005
Matrix: Equipment Blank/Water

CLIENT ID (LAB SAMPLE NO.)	S1 (2FP)	S2 (PHL)	S3 (NBZ)	S4 (FBP)	S5 (TBP)	S6 (TPH)	TOT OUT
MW-4S (L2512607-01)	24	21	71	65	44	69	0
MW-4D2 (L2512607-02)	43	35	96	87	72	91	0
MW-12S (L2512607-03)	10*	16	80	73	21	78	1
MW-12D (L2512607-04)	40	28	88	80	70	73	0
SCDOH_DR (L2512607-05)	38	32	89	81	61	84	0
EQUIPMENT BLANK (L2512607-06)	38	30	89	78	63	90	0
WG2038209-1BLANK	41	31	83	74	66	74	0
WG2038209-2LCS	63	44	106	88	93	85	0
WG2038209-3LCSD	61	43	102	87	97	80	0

QC LIMITS

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

*** Values outside of QC limits**

FORM II NYTCL-8270-SIM-RVT

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG2038209-2 **Analysis Date** : 03/11/25 16:39	**File ID**	: 038209-2
LCSD Sample ID	: WG2038209-3 **Analysis Date** : 03/11/25 16:56	**File ID**	: 038209-3

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Acenaphthene	20	19	94	20	18	91	3	40-140	40
2-Chloronaphthalene	20	16	78	20	16	78	0	40-140	40
Fluoranthene	20	18	91	20	17	87	4	40-140	40
Hexachlorobutadiene	20	13	64	20	12	59	8	40-140	40
Naphthalene	20	16	82	20	16	78	5	40-140	40
Benzo(a)anthracene	20	22	110	20	22	108	2	40-140	40
Benzo(a)pyrene	20	23	116	20	23	114	2	40-140	40
Benzo(b)fluoranthene	20	22	110	20	21	105	5	40-140	40
Benzo(k)fluoranthene	20	20	100	20	20	100	0	40-140	40
Chrysene	20	21	103	20	20	102	1	40-140	40
Acenaphthylene	20	17	86	20	18	88	2	40-140	40
Anthracene	20	20	102	20	20	101	1	40-140	40
Benzo(ghi)perylene	20	28	138	20	26	132	4	40-140	40
Fluorene	20	19	97	20	19	96	1	40-140	40
Phenanthrene	20	20	101	20	20	101	0	40-140	40
Dibenzo(a,h)anthracene	20	27	136	20	26	130	5	40-140	40
Indeno(1,2,3-cd)pyrene	20	28	142 Q	20	27	136	4	40-140	40
Pyrene	20	18	89	20	17	85	5	40-140	40
2-Methylnaphthalene	20	14	73	20	14	72	1	40-140	40
Pentachlorophenol	20	19	97	20	19	97	0	40-140	40
Hexachlorobenzene	20	21	105	20	20	102	3	40-140	40
Hexachloroethane	20	12	58	20	11	54	7	40-140	40
Bis(2-chloroethyl)ether	20	22	111	20	21	107	4	40-140	40

Method Blank Summary
Form 4
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG2038209-1	**Lab File ID**	: 038209-1
Instrument ID	: SV119	**Extraction Date**	: 03/08/25
Matrix	: WATER	**Analysis Date**	: 03/11/25 17:13
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG2038209-2LCS	WG2038209-2	03/11/25 16:39
WG2038209-3LCSD	WG2038209-3	03/11/25 16:56
MW-4S	L2512607-01	03/12/25 17:15
MW-4D2	L2512607-02	03/12/25 17:32
MW-12S	L2512607-03	03/12/25 17:48
SCDOH_DR	L2512607-05	03/12/25 18:22
EQUIPMENT BLANK	L2512607-06	03/13/25 08:36
MW-12D	L2512607-04	03/13/25 09:58

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV119	**Analysis Date**	: 12/29/24 13:20
Tune Standard	: R1917140-11	**Tune File ID**	: TUNEa_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	58
68	Less than 2.0% of mass 69	0.8 (1.8)1
69		100
70	Less than 2.0% of mass 69	0.2 (.4)1
127	10.0 - 80.0% of Base Peak	54.8
197	Less than 2.0% of mass 198	0.4
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	7
275	10.0 - 60.0% of Base Peak	25.6
365	Greater than 1.0% of mass 198	2.6
441	Present, but less than 24% of mass 442	17.1
442	Base Peak, or >50% of mass 198	78.7
443	15.0 - 24.0% of mass 442	13.7 (17.4)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
L10	R1917140-2	L10	12/29/24 13:37
L9	R1917140-10	L9	12/29/24 13:53
L8	R1917140-9	L8	12/29/24 14:10
L7	R1917140-7	L7	12/29/24 14:27
L6	R1917140-8	L6	12/29/24 14:44
L5	R1917140-6	L5	12/29/24 15:01
L4	R1917140-5	L4	12/29/24 15:18
L3	R1917140-4	L3	12/29/24 15:35
L2	R1917140-3	L2	12/29/24 15:52
L1	R1917140-1	L1	12/29/24 16:09
ICV Quant Report	R1917140-12	ICV	12/29/24 16:26

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV119	**Analysis Date**	: 03/11/25 09:35
Tune Standard	: WG2039073-1	**Tune File ID**	: deg0311b_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	53.8
68	Less than 2.0% of mass 69	0.7 (1.6)1
69		100
70	Less than 2.0% of mass 69	0.3 (.6)1
127	10.0 - 80.0% of Base Peak	55.3
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	25.4
365	Greater than 1.0% of mass 198	2.6
441	Present, but less than 24% of mass 442	19.5
442	Base Peak, or >50% of mass 198	69.7
443	15.0 - 24.0% of mass 442	14.8 (21.2)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG2039073-4TFACTOR-B	WG2039073-4	DEG0311B	03/11/25 09:35
WG2039073-5TFACTOR-P	WG2039073-5	DEG0311B	03/11/25 09:35
WG2039073-3CCAL	WG2039073-3	CCV0311B	03/11/25 09:51
WG2038209-2LCS	WG2038209-2	038209-2	03/11/25 16:39
WG2038209-3LCSD	WG2038209-3	038209-3	03/11/25 16:56
WG2038209-1BLANK	WG2038209-1	038209-1	03/11/25 17:13

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV119	**Analysis Date**	: 03/12/25 06:22
Tune Standard	: WG2039433-1	**Tune File ID**	: deg0312_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	54
68	Less than 2.0% of mass 69	0.4 (.9)1
69		100
70	Less than 2.0% of mass 69	0.4 (.8)1
127	10.0 - 80.0% of Base Peak	58.6
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.4
275	10.0 - 60.0% of Base Peak	23.2
365	Greater than 1.0% of mass 198	3
441	Present, but less than 24% of mass 442	17.2
442	Base Peak, or >50% of mass 198	67.4
443	15.0 - 24.0% of mass 442	12.7 (18.9)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG2039433-4TFACTOR-B	WG2039433-4	DEG0312	03/12/25 06:22
WG2039433-5TFACTOR-P	WG2039433-5	DEG0312	03/12/25 06:22
WG2039433-3CCAL	WG2039433-3	CCV0312A	03/12/25 06:56
MW-4S	L2512607-01	12607-01	03/12/25 17:15
MW-4D2	L2512607-02	12607-02	03/12/25 17:32
MW-12S	L2512607-03	12607-03	03/12/25 17:48
SCDOH_DR	L2512607-05	12607-05	03/12/25 18:22

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV119	**Analysis Date**	: 03/13/25 06:21
Tune Standard	: WG2039957-1	**Tune File ID**	: deg0313a_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	57.6
68	Less than 2.0% of mass 69	0.8 (1.8)1
69		100
70	Less than 2.0% of mass 69	0.1 (.3)1
127	10.0 - 80.0% of Base Peak	57.5
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 60.0% of Base Peak	22.8
365	Greater than 1.0% of mass 198	2.3
441	Present, but less than 24% of mass 442	17.7
442	Base Peak, or >50% of mass 198	64.6
443	15.0 - 24.0% of mass 442	11.9 (18.5)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG2039957-4TFACTOR-B	WG2039957-4	DEG0313A	03/13/25 06:21
WG2039957-5TFACTOR-P	WG2039957-5	DEG0313A	03/13/25 06:21
WG2039957-3CCAL	WG2039957-3	CCV0313	03/13/25 06:38
EQUIPMENT BLANK	L2512607-06	12607-06	03/13/25 08:36

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV118	**Analysis Date**	: 02/03/25 15:28
Tune Standard	: R1929042-11	**Tune File ID**	: TUNEa_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	52
68	Less than 2.0% of mass 69	0.6 (1.4)1
69		100
70	Less than 2.0% of mass 69	0.2 (.6)1
127	10.0 - 80.0% of Base Peak	52.5
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	25.7
365	Greater than 1.0% of mass 198	2.9
441	Present, but less than 24% of mass 442	18.2
442	Base Peak, or >50% of mass 198	78
443	15.0 - 24.0% of mass 442	14.7 (18.8)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
L10	R1929042-2	L10	02/03/25 15:47
L9	R1929042-10	L9	02/03/25 16:04
L8	R1929042-7	L8	02/03/25 16:20
L7	R1929042-9	L7	02/03/25 16:38
L6	R1929042-8	L6	02/03/25 16:55
L5	R1929042-6	L5	02/03/25 17:12
L4	R1929042-5	L4	02/03/25 17:29
L3	R1929042-4	L3	02/03/25 17:46
L2	R1929042-3	L2	02/03/25 18:03
L1	R1929042-1	L1	02/03/25 18:20
ICV Quant Report	R1929042-12	ICV	02/03/25 18:37

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV118	**Analysis Date**	: 03/13/25 08:16
Tune Standard	: WG2040034-1	**Tune File ID**	: deg0313a_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	55.6
68	Less than 2.0% of mass 69	0.7 (1.7)1
69		100
70	Less than 2.0% of mass 69	0.2 (.4)1
127	10.0 - 80.0% of Base Peak	51.8
197	Less than 2.0% of mass 198	0.3
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	25.2
365	Greater than 1.0% of mass 198	2.9
441	Present, but less than 24% of mass 442	16.7
442	Base Peak, or >50% of mass 198	89.9
443	15.0 - 24.0% of mass 442	16.4 (18.3)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG2040034-4TFACTOR-B	WG2040034-4	DEG0313A	03/13/25 08:16
WG2040034-5TFACTOR-P	WG2040034-5	DEG0313A	03/13/25 08:16
WG2040034-3CCAL	WG2040034-3	CCV0313A	03/13/25 08:33
MW-12D	L2512607-04	12607-04	03/13/25 09:58

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV119	**Analysis Date**	: 03/11/25 09:51:00
Sample No	: WG2039073-3	**Lab File ID**	: CCV0311B

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG2039073-3	325676	2.21	1225929	2.86	688151	3.83
Upper Limit	651352	2.71	2451858	3.36	1376302	4.33
Lower Limit	162838	1.71	612965	2.36	344076	3.33
Sample ID						
WG2038209-2 LCS	355330	2.21	1377596	2.86	713764	3.83
WG2038209-3 LCSD	344875	2.21	1342455	2.86	716499	3.83
WG2038209-1 BLANK	367147	2.21	1403293	2.86	769884	3.83

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV119	**Analysis Date**	: 03/11/25 09:51:00
Sample No	: WG2039073-3	**Lab File ID**	: CCV0311B

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG2039073-3	1410915	4.67	1283861	6.25	1327611	7.44
Upper Limit	2821830	5.17	2567722	6.75	2655222	7.94
Lower Limit	705458	4.17	641931	5.75	663806	6.94
Sample ID						
WG2038209-2 LCS	1240963	4.67	979906	6.25	1187399	7.44
WG2038209-3 LCSD	1260790	4.67	991344	6.25	1213055	7.44
WG2038209-1 BLANK	1377388	4.67	1236844	6.25	1309895	7.44

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV119	**Analysis Date**	: 03/12/25 06:56:00
Sample No	: WG2039433-3	**Lab File ID**	: CCV0312A

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG2039433-3	270856	2.18	1057861	2.83	616254	3.80
Upper Limit	541712	2.68	2115722	3.33	1232508	4.30
Lower Limit	135428	1.68	528931	2.33	308127	3.30
Sample ID						
MW-4S	232956	2.18	911995	2.84	530345	3.81
MW-4D2	261020	2.18	1023264	2.84	592801	3.81
MW-12S	239197	2.18	935338	2.84	544644	3.81
SCDOH_DR	232455	2.18	907217	2.84	529758	3.81

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV119	**Analysis Date**	: 03/12/25 06:56:00
Sample No	: WG2039433-3	**Lab File ID**	: CCV0312A

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG2039433-3	1278760	4.64	1251818	6.19	1310763	7.35
Upper Limit	2557520	5.14	2503636	6.69	2621526	7.85
Lower Limit	639380	4.14	625909	5.69	655382	6.85
Sample ID						
MW-4S	1064167	4.64	980834	6.19	979931	7.34
MW-4D2	1194627	4.64	1091225	6.19	1086280	7.34
MW-12S	1108852	4.64	1020732	6.19	1004676	7.34
SCDOH_DR	1077024	4.64	1006342	6.19	1020341	7.34

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV119	**Analysis Date**	: 03/13/25 06:38:00
Sample No	: WG2039957-3	**Lab File ID**	: CCV0313

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG2039957-3	226451	2.17	898767	2.84	516819	3.80
Upper Limit	452902	2.67	1797534	3.34	1033638	4.30
Lower Limit	113226	1.67	449384	2.34	258410	3.30
Sample ID						
EQUIPMENT BLANK	218407	2.18	866853	2.84	497927	3.81

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV119	**Analysis Date**	: 03/13/25 06:38:00
Sample No	: WG2039957-3	**Lab File ID**	: CCV0313

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG2039957-3	1080335	4.64	1074571	6.20	1109396	7.35
Upper Limit	2160670	5.14	2149142	6.70	2218792	7.85
Lower Limit	540168	4.14	537286	5.70	554698	6.85
Sample ID						
EQUIPMENT BLANK	1012487	4.64	1032442	6.19	1023191	7.34

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV118	**Analysis Date**	: 03/13/25 08:33:00
Sample No	: WG2040034-3	**Lab File ID**	: CCV0313A

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG2040034-3	659004	2.26	2453700	2.92	1463630	3.90
Upper Limit	1318008	2.76	4907400	3.42	2927260	4.40
Lower Limit	329502	1.76	1226850	2.42	731815	3.40
Sample ID						
MW-12D	712836	2.26	2593341	2.92	1582995	3.90

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV118	**Analysis Date**	: 03/13/25 08:33:00
Sample No	: WG2040034-3	**Lab File ID**	: CCV0313A

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG2040034-3	3051028	4.74	3008661	6.29	3049927	7.52
Upper Limit	6102056	5.24	6017322	6.79	6099854	8.02
Lower Limit	1525514	4.24	1504331	5.79	1524964	7.02
Sample ID						
MW-12D	3359483	4.73	3428894	6.28	3492357	7.52

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

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

* Values outside of QC limits

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14021-1
Page: 1

EPA 8270E Low Level PAH (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	0.1	0.035	ug/l	40-140	40	40-140	40	40			
2-Chloronaphthalene	91-58-7	0.2	0.035	ug/l	40-140	40	40-140	40	40			
Fluoranthene	206-44-0	0.1	0.038	ug/l	40-140	40	40-140	40	40			
Hexachlorobutadiene	87-68-3	0.5	0.036	ug/l	40-140	40	40-140	40	40			
Naphthalene	91-20-3	0.1	0.043	ug/l	40-140	40	40-140	40	40			
Benzo(a)anthracene	56-55-3	0.1	0.018	ug/l	40-140	40	40-140	40	40			
Benzo(a)pyrene	50-32-8	0.1	0.039	ug/l	40-140	40	40-140	40	40			
Benzo(b)fluoranthene	205-99-2	0.1	0.016	ug/l	40-140	40	40-140	40	40			
Benzo(k)fluoranthene	207-08-9	0.1	0.042	ug/l	40-140	40	40-140	40	40			
Chrysene	218-01-9	0.1	0.038	ug/l	40-140	40	40-140	40	40			
Acenaphthylene	208-96-8	0.1	0.035	ug/l	40-140	40	40-140	40	40			
Anthracene	120-12-7	0.1	0.035	ug/l	40-140	40	40-140	40	40			
Benzo(ghi)perylene	191-24-2	0.1	0.042	ug/l	40-140	40	40-140	40	40			
Fluorene	86-73-7	0.1	0.037	ug/l	40-140	40	40-140	40	40			
Phenanthrene	85-01-8	0.1	0.015	ug/l	40-140	40	40-140	40	40			
Dibenzo(a,h)anthracene	53-70-3	0.1	0.039	ug/l	40-140	40	40-140	40	40			
Indeno(1,2,3-cd)Pyrene	193-39-5	0.1	0.04	ug/l	40-140	40	40-140	40	40			
Pyrene	129-00-0	0.1	0.04	ug/l	40-140	40	40-140	40	40			
1-Methylnaphthalene	90-12-0	0.1	0.041	ug/l	40-140	40	40-140	40	40			
2-Methylnaphthalene	91-57-6	0.1	0.045	ug/l	40-140	40	40-140	40	40			
Pentachlorophenol	87-86-5	0.8	0.22	ug/l	40-140	40	40-140	40	40			
Hexachlorobenzene	118-74-1	0.8	0.032	ug/l	40-140	40	40-140	40	40			
Hexachloroethane	67-72-1	0.8	0.03	ug/l	40-140	40	40-140	40	40			
2-Fluorophenol	*367-12-4*									*21-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*15-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-120*		
4-Terphenyl-d14	*1718-51-0*									*41-149*		

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

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
Page: 1

EPA 8270E Low Level PAH (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	6.68	1.4028	ug/kg	40-140	50	40-140	50	50			
2-Chloronaphthalene	91-58-7	6.68	0.8684	ug/kg	40-140	50	40-140	50	50			
Fluoranthene	206-44-0	6.68	0.4676	ug/kg	40-140	50	40-140	50	50			
Hexachlorobutadiene	87-68-3	6.68	0.9352	ug/kg	34-107	50	40-140	50	50			
Naphthalene	91-20-3	6.68	1.2024	ug/kg	40-140	50	40-140	50	50			
Benzo(a)anthracene	56-55-3	6.68	0.6346	ug/kg	40-140	50	40-140	50	50			
Benzo(a)pyrene	50-32-8	6.68	0.8016	ug/kg	40-140	50	40-140	50	50			
Benzo(b)fluoranthene	205-99-2	6.68	0.6346	ug/kg	40-140	50	40-140	50	50			
Benzo(k)fluoranthene	207-08-9	6.68	0.6012	ug/kg	40-140	50	40-140	50	50			
Chrysene	218-01-9	6.68	0.501	ug/kg	40-140	50	40-140	50	50			
Acenaphthylene	208-96-8	6.68	0.835	ug/kg	40-140	50	40-140	50	50			
Anthracene	120-12-7	6.68	0.5344	ug/kg	40-140	50	40-140	50	50			
Benzo(ghi)perylene	191-24-2	6.68	0.5678	ug/kg	40-140	50	40-140	50	50			
Fluorene	86-73-7	6.68	0.8016	ug/kg	40-140	50	40-140	50	50			
Phenanthrene	85-01-8	6.68	0.5678	ug/kg	40-140	50	40-140	50	50			
Dibenzo(a,h)anthracene	53-70-3	6.68	0.668	ug/kg	40-140	50	40-140	50	50			
Indeno(1,2,3-cd)Pyrene	193-39-5	6.68	0.8016	ug/kg	40-140	50	40-140	50	50			
Pyrene	129-00-0	6.68	0.4676	ug/kg	35-142	50	35-142	50	50			
1-Methylnaphthalene	90-12-0	6.68	1.0354	ug/kg	40-140	50	40-140	50	50			
2-Methylnaphthalene	91-57-6	6.68	1.9038	ug/kg	40-140	50	40-140	50	50			
Pentachlorophenol	87-86-5	26.72	2.9392	ug/kg	17-109	50	17-109	50	50			
Hexachlorobenzene	118-74-1	6.68	0.7014	ug/kg	40-140	50	40-140	50	50			
Hexachloroethane	67-72-1	6.68	1.2358	ug/kg	29-106	50	40-140	50	50			
2-Fluorophenol	*367-12-4*									*25-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*30-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-136*		
4-Terphenyl-d14	*1718-51-0*									*18-120*		

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

Semivolatile Sample Data

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-01	**Date Collected**	: 03/06/25 10:30
Client ID	: MW-4S	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/12/25 17:15
Sample Matrix	: WATER	**Date Extracted**	: 03/09/25
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 12607-01	**Analyst**	: RP
Sample Amount	: 100 ml	**Instrument ID**	: SV119
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

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

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-01	**Date Collected**	: 03/06/25 10:30
Client ID	: MW-4S	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/12/25 17:15
Sample Matrix	: WATER	**Date Extracted**	: 03/09/25
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 12607-01	**Analyst**	: RP
Sample Amount	: 100 ml	**Instrument ID**	: SV119
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-02	**Date Collected**	: 03/06/25 10:24
Client ID	: MW-4D2	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/12/25 17:32
Sample Matrix	: WATER	**Date Extracted**	: 03/09/25
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 12607-02	**Analyst**	: RP
Sample Amount	: 100 ml	**Instrument ID**	: SV119
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

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

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-02	**Date Collected**	: 03/06/25 10:24
Client ID	: MW-4D2	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/12/25 17:32
Sample Matrix	: WATER	**Date Extracted**	: 03/09/25
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 12607-02	**Analyst**	: RP
Sample Amount	: 100 ml	**Instrument ID**	: SV119
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-03	**Date Collected**	: 03/06/25 09:13
Client ID	: MW-12S	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/12/25 17:48
Sample Matrix	: WATER	**Date Extracted**	: 03/09/25
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 12607-03	**Analyst**	: RP
Sample Amount	: 100 ml	**Instrument ID**	: SV119
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

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

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-03	**Date Collected**	: 03/06/25 09:13
Client ID	: MW-12S	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/12/25 17:48
Sample Matrix	: WATER	**Date Extracted**	: 03/09/25
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 12607-03	**Analyst**	: RP
Sample Amount	: 100 ml	**Instrument ID**	: SV119
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-04	**Date Collected**	: 03/06/25 08:46
Client ID	: MW-12D	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/13/25 09:58
Sample Matrix	: WATER	**Date Extracted**	: 03/09/25
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 12607-04	**Analyst**	: RP
Sample Amount	: 100 ml	**Instrument ID**	: SV118
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

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

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-04	**Date Collected**	: 03/06/25 08:46
Client ID	: MW-12D	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/13/25 09:58
Sample Matrix	: WATER	**Date Extracted**	: 03/09/25
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 12607-04	**Analyst**	: RP
Sample Amount	: 100 ml	**Instrument ID**	: SV118
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-05	**Date Collected**	: 03/06/25 11:51
Client ID	: SCDOH_DR	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/12/25 18:22
Sample Matrix	: WATER	**Date Extracted**	: 03/09/25
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 12607-05	**Analyst**	: RP
Sample Amount	: 100 ml	**Instrument ID**	: SV119
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

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

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-05	**Date Collected**	: 03/06/25 11:51
Client ID	: SCDOH_DR	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/12/25 18:22
Sample Matrix	: WATER	**Date Extracted**	: 03/09/25
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 12607-05	**Analyst**	: RP
Sample Amount	: 100 ml	**Instrument ID**	: SV119
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-06	**Date Collected**	: 03/06/25 12:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/13/25 08:36
Sample Matrix	: Equipment Blank	**Date Extracted**	: 03/09/25
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 12607-06	**Analyst**	: RP
Sample Amount	: 100 ml	**Instrument ID**	: SV119
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

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

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-06	**Date Collected**	: 03/06/25 12:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/13/25 08:36
Sample Matrix	: Equipment Blank	**Date Extracted**	: 03/09/25
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 12607-06	**Analyst**	: RP
Sample Amount	: 100 ml	**Instrument ID**	: SV119
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2038209-1	**Date Collected**	: NA
Client ID	: WG2038209-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/11/25 17:13
Sample Matrix	: WATER	**Date Extracted**	: 03/08/25
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 038209-1	**Analyst**	: RP
Sample Amount	: 100 ml	**Instrument ID**	: SV119
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

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

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2038209-1	**Date Collected**	: NA
Client ID	: WG2038209-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/11/25 17:13
Sample Matrix	: WATER	**Date Extracted**	: 03/08/25
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 038209-1	**Analyst**	: RP
Sample Amount	: 100 ml	**Instrument ID**	: SV119
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250312RVT\
Data File : 12607-01.D
Acq On : 12 Mar 2025 05:15 pm
Operator : sv119:rp
Sample : L2512607-01,32,,kkmh
Misc : WG2039433,WG2038209,ical21826
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Mar 12 19:11:36 2025
Quant Method : I:\8270SIM\sv119\250312RVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 07:11:48 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\250312RVT\ccv0312a.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.182	152	232956	4000.000	ng/ml	0.00
Standard Area 1 = 270856			Recovery = 86.01%			
9) Naphthalene-d8	2.839	136	911995	4000.000	ng/ml	0.00
Standard Area 1 = 1057861			Recovery = 86.21%			
18) Acenaphthene-d10	3.806	164	530345	4000.000	ng/ml	0.00
Standard Area 1 = 616254			Recovery = 86.06%			
23) Phenanthrene-d10	4.642	188	1064167	4000.000	ng/ml	0.00
Standard Area 1 = 1278760			Recovery = 83.22%			
33) Chrysene-d12	6.188	240	980834	4000.000	ng/ml	0.00
Standard Area 1 = 1251818			Recovery = 78.35%			
38) Perylene-d12	7.340	264	979931	4000.000	ng/ml	0.00
Standard Area 1 = 1310763			Recovery = 74.76%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.631	112	30531	489.139	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 24.46%			
4) Phenol-d6	2.036	99	32918	422.541	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 21.13%			
8) Nitrobenzene-d5	2.463	82	53512	708.339	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 70.83%			
14) 2-Fluorobiphenyl	3.431	172	143806	646.652	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 64.67%			
22) 2,4,6-Tribromophenol	4.254	330	20202	872.775	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 43.64%			
32) 4-Terphenyl-d14	5.560	244	183137	693.714	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 69.37%			
Target Compounds						Qvalue
5) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
7) Hexachloroethane	0.000		0	N.D.		
10) Naphthalene	0.000		0	N.D.	d	
11) Hexachlorobutadiene	0.000		0	N.D.		
12) 2-Methylnaphthalene	0.000		0	N.D.	d	
15) 2-Chloronaphthalene	0.000		0	N.D.	d	
17) Acenaphthylene	0.000		0	N.D.		
19) Acenaphthene	0.000		0	N.D.	d	
21) Fluorene	0.000		0	N.D.	d	
25) Hexachlorobenzene	4.431	284	46M3	0.733	ng/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250312RVT\
Data File : 12607-01.D
Acq On : 12 Mar 2025 05:15 pm
Operator : sv119:rp
Sample : L2512607-01,32,,kkmh
Misc : WG2039433,WG2038209,ical21826
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Mar 12 19:11:36 2025
Quant Method : I:\8270SIM\sv119\250312RVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 07:11:48 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\250312RVT\ccv0312a.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Pentachlorophenol	0.000		0	N.D.	d	
27) Phenanthrene	0.000		0	N.D.	d	
28) Anthracene	0.000		0	N.D.	d	
29) Fluoranthene	0.000		0	N.D.	d	
30) Pyrene	0.000		0	N.D.	d	
34) Benzo[a]anthracene	0.000		0	N.D.	d	
36) Chrysene	0.000		0	N.D.	d	
39) Benzo[b]fluoranthene	0.000		0	N.D.	d	
40) Benzo[k]fluoranthene	0.000		0	N.D.	d	
41) Benzo[a]pyrene	0.000		0	N.D.	d	
42) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
43) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
44) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

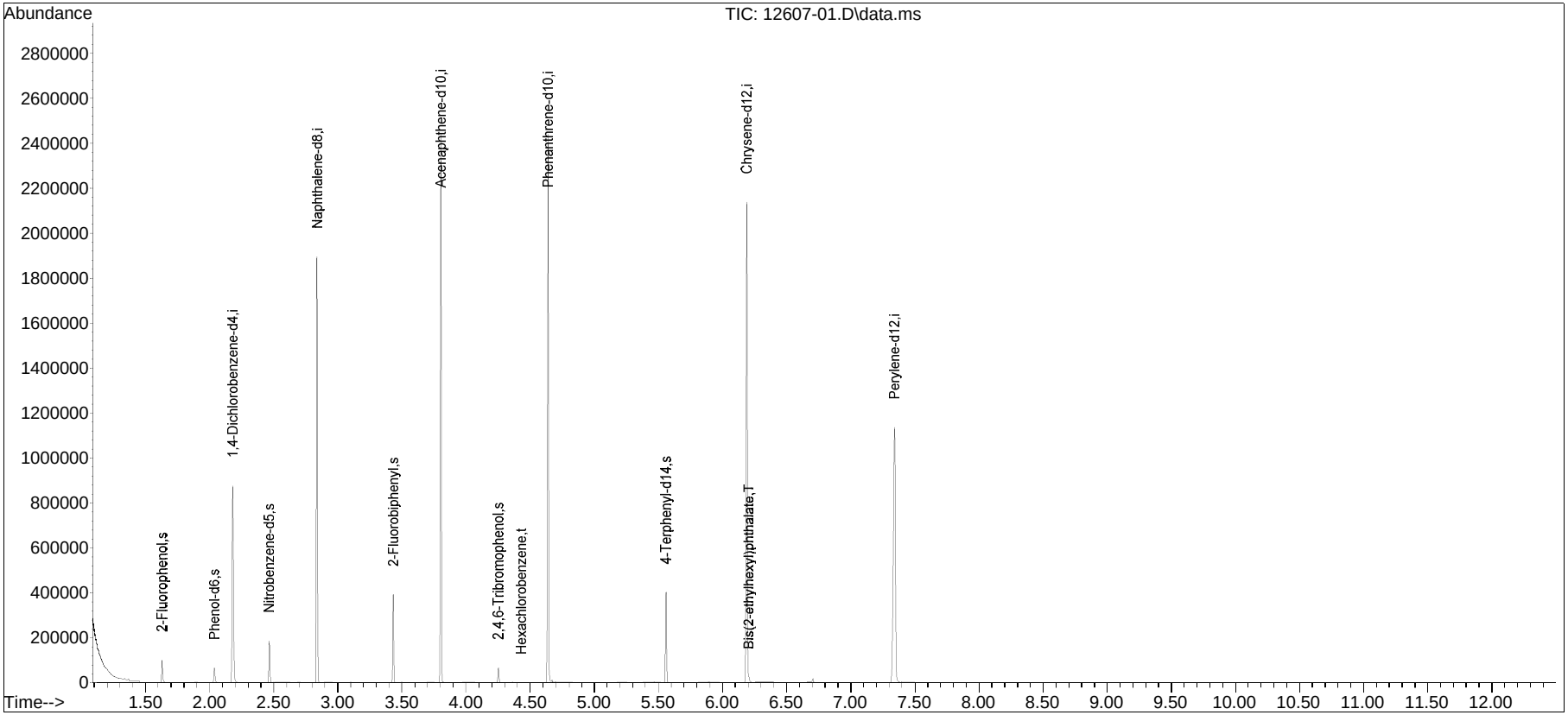
(#) = qualifier out of range (m) = manual integration (+) = signals summed

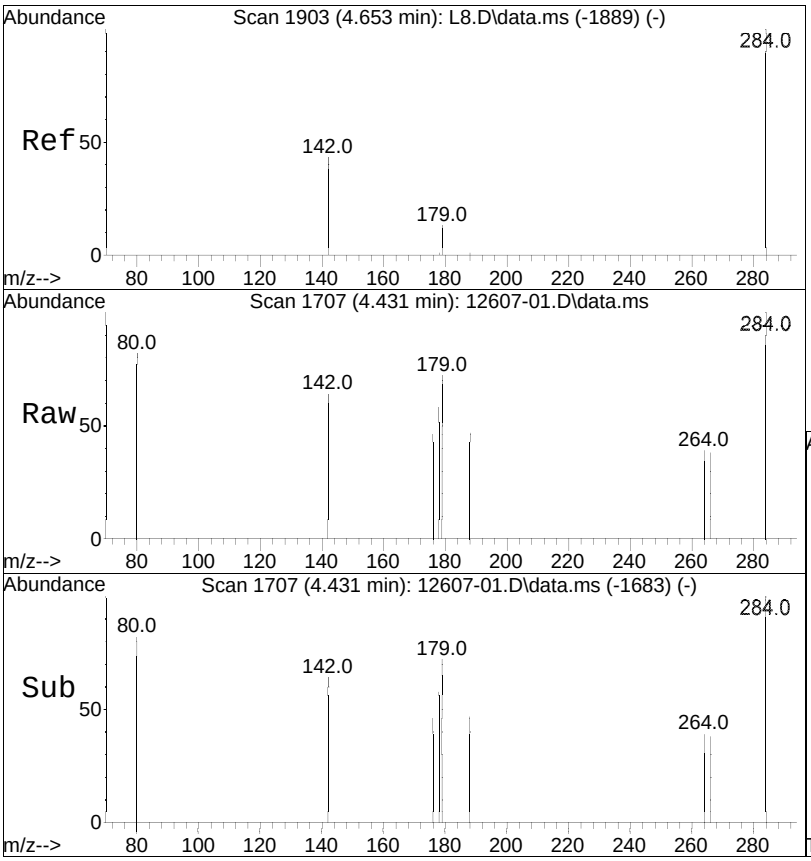
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250312RVT\
Data File : 12607-01.D
Acq On : 12 Mar 2025 05:15 pm
Operator : sv119:rp
Sample : L2512607-01,32,,kkmh
Misc : WG2039433,WG2038209,ical21826
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Mar 12 19:11:36 2025
Quant Method : I:\8270SIM\sv119\250312RVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 07:11:48 2025
Response via : Initial Calibration

Sub List : Default - All compounds listed\ccv0312a.D•

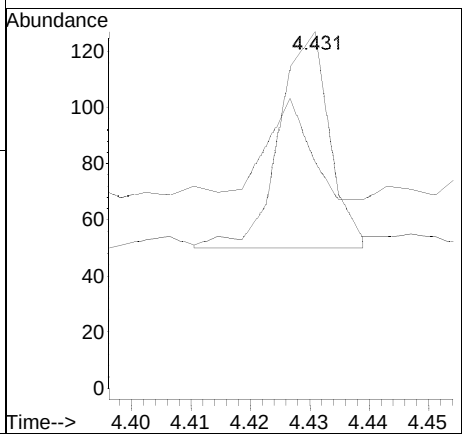




#25
Hexachlorobenzene
Concen: 0.73 ng/ml M3
RT: 4.431 min Scan# 1707
Delta R.T. 0.001 min
Lab File: 12607-01.D
Acq: 12 Mar 2025 05:15 pm

Tgt Ion:284 Resp: 46

Ion	Ratio	Lower	Upper
284	100		
142	37.0	33.8	50.6

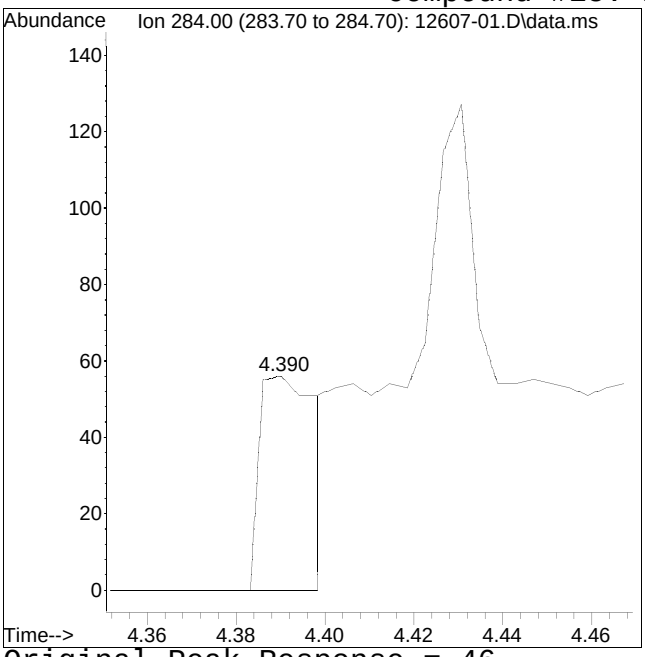


Manual Integration Report

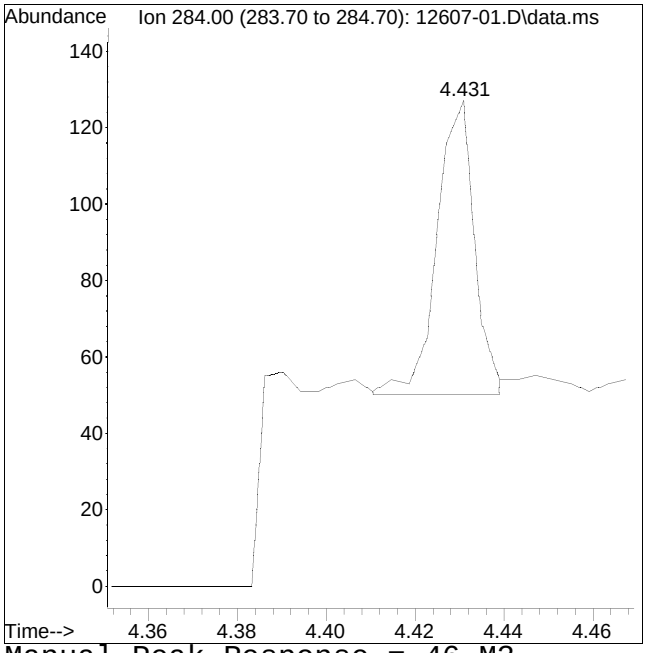
Data Path : I:\8270SIM\sv119\250312RVTQ
Data File : 12607-01.D
Date Inj'd : 3/12/2025 5:15 pm
Sample : L2512607-01,32,,kkmh

Method : SIM-RVT_241229_sv119.M
Operator : sv119:rp
Instrument : SV119
Quant Date : 3/12/2025 7:11 pm

Compound #25: Hexachlorobenzene



Original Peak Response = 46



Manual Peak Response = 46 M3

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250312RVT\
Data File : 12607-02.D
Acq On : 12 Mar 2025 05:32 pm
Operator : sv119:rp
Sample : L2512607-02,32,,kkmh
Misc : WG2039433,WG2038209,ical21826
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Mar 12 19:14:03 2025
Quant Method : I:\8270sim\sv119\250312RVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 07:11:48 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250312RVT\ccv0312a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.179	152	261020	4000.000	ng/ml	0.00
Standard Area 1 = 270856			Recovery = 96.37%			
9) Naphthalene-d8	2.838	136	1023264	4000.000	ng/ml	0.00
Standard Area 1 = 1057861			Recovery = 96.73%			
18) Acenaphthene-d10	3.805	164	592801	4000.000	ng/ml	0.00
Standard Area 1 = 616254			Recovery = 96.19%			
23) Phenanthrene-d10	4.640	188	1194627	4000.000	ng/ml	0.00
Standard Area 1 = 1278760			Recovery = 93.42%			
33) Chrysene-d12	6.189	240	1091225	4000.000	ng/ml	0.00
Standard Area 1 = 1251818			Recovery = 87.17%			
38) Perylene-d12	7.340	264	1086280	4000.000	ng/ml	0.00
Standard Area 1 = 1310763			Recovery = 82.87%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.629	112	60566	866.005	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 43.30%			
4) Phenol-d6	2.036	99	61929	709.463	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 35.47%			
8) Nitrobenzene-d5	2.462	82	81605	964.067	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 96.41%			
14) 2-Fluorobiphenyl	3.431	172	217289	870.836	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 87.08%			
22) 2,4,6-Tribromophenol	4.253	330	37507	1449.672	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 72.48%			
32) 4-Terphenyl-d14	5.560	244	270797	913.746	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 91.37%			
Target Compounds						Qvalue
5) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
7) Hexachloroethane	0.000		0	N.D.		
10) Naphthalene	0.000		0	N.D.	d	
11) Hexachlorobutadiene	0.000		0	N.D.		
12) 2-Methylnaphthalene	0.000		0	N.D.	d	
15) 2-Chloronaphthalene	0.000		0	N.D.	d	
17) Acenaphthylene	0.000		0	N.D.	d	
19) Acenaphthene	0.000		0	N.D.	d	
21) Fluorene	0.000		0	N.D.	d	
25) Hexachlorobenzene	4.429	284	72M6	1.022	ng/ml	

Data Path : I:\8270SIM\sv119\250312RVT\
Data File : 12607-02.D
Acq On : 12 Mar 2025 05:32 pm
Operator : sv119:rp
Sample : L2512607-02,32,,kkmh
Misc : WG2039433,WG2038209,ical21826
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Mar 12 19:14:03 2025
Quant Method : I:\8270sim\sv119\250312RVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 07:11:48 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250312RVT\ccv0312a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Pentachlorophenol	0.000		0	N.D.	d	
27) Phenanthrene	0.000		0	N.D.	d	
28) Anthracene	0.000		0	N.D.	d	
29) Fluoranthene	0.000		0	N.D.	d	
30) Pyrene	0.000		0	N.D.	d	
34) Benzo[a]anthracene	0.000		0	N.D.	d	
36) Chrysene	0.000		0	N.D.	d	
39) Benzo[b]fluoranthene	0.000		0	N.D.	d	
40) Benzo[k]fluoranthene	0.000		0	N.D.	d	
41) Benzo[a]pyrene	0.000		0	N.D.	d	
42) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
43) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
44) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

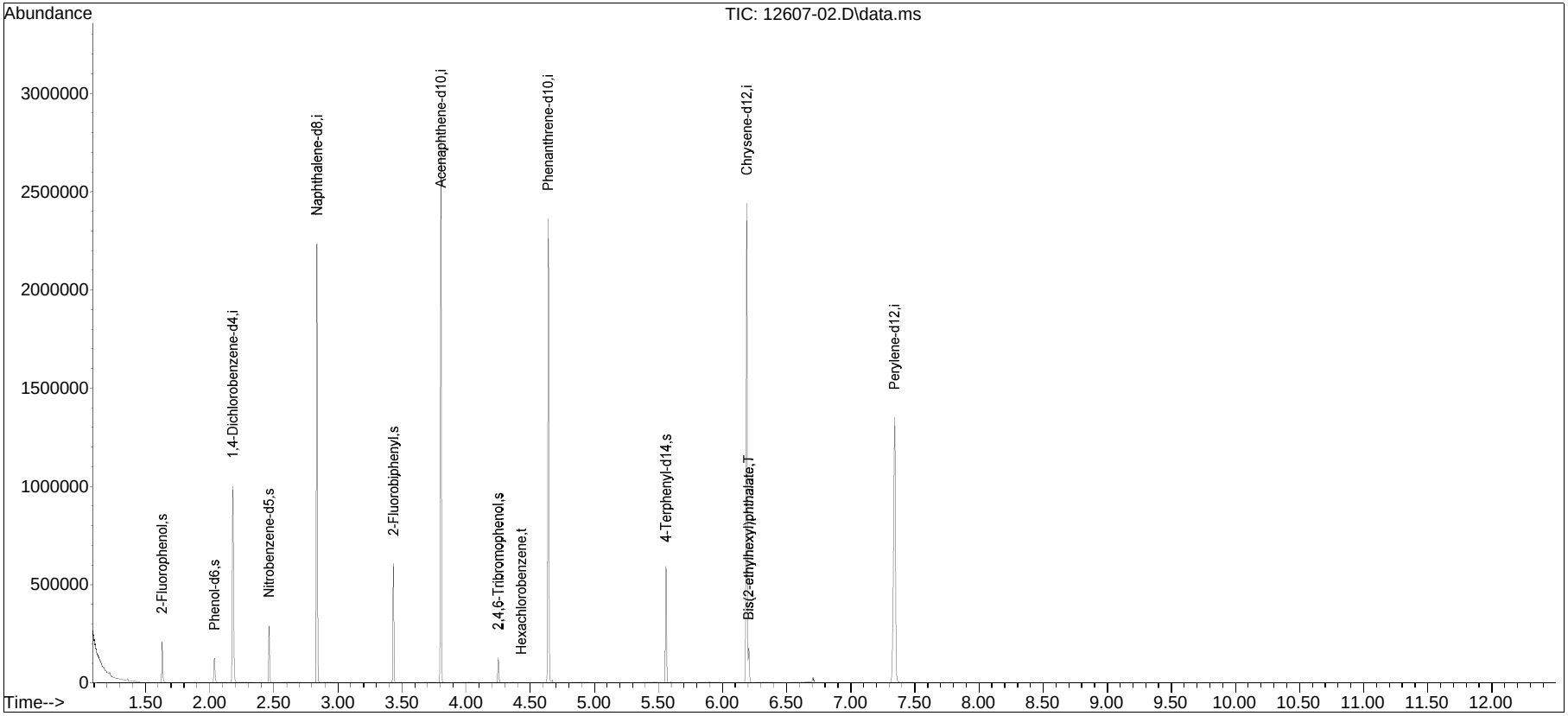
(#) = qualifier out of range (m) = manual integration (+) = signals summed

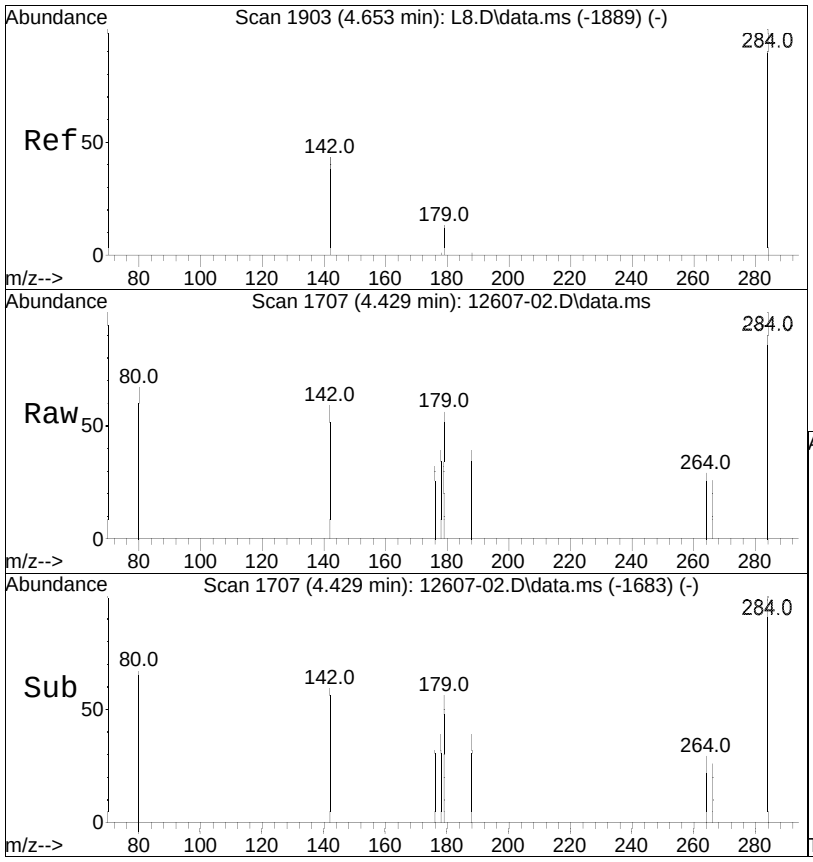
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250312RVT\
Data File : 12607-02.D
Acq On : 12 Mar 2025 05:32 pm
Operator : sv119:rp
Sample : L2512607-02,32,,kkmh
Misc : WG2039433,WG2038209,ical21826
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Mar 12 19:14:03 2025
Quant Method : I:\8270sim\sv119\250312RVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 07:11:48 2025
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0312a.D•

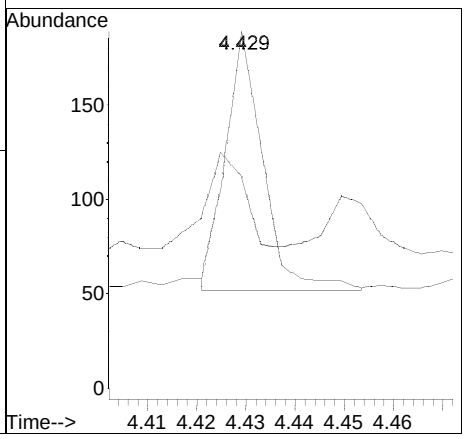




#25
Hexachlorobenzene
Concen: 1.02 ng/ml M6
RT: 4.429 min Scan# 1707
Delta R.T. -0.000 min
Lab File: 12607-02.D
Acq: 12 Mar 2025 05:32 pm

Tgt Ion:284 Resp: 72

Ion	Ratio	Lower	Upper
284	100		
142	33.3	33.8	50.6#

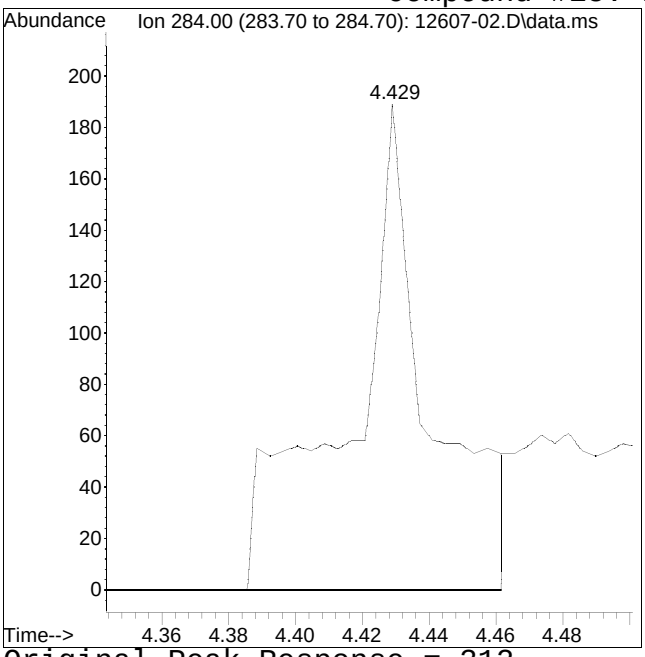


Manual Integration Report

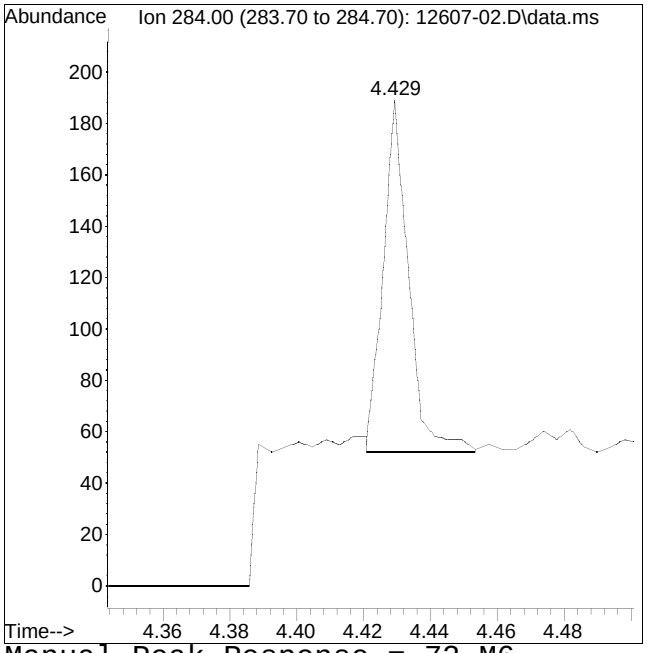
Data Path : I:\8270SIM\sv119\250312RVTQ
Data File : 12607-02.D
Date Inj'd : 3/12/2025 5:32 pm
Sample : L2512607-02,32,,kkmh

Method : SIM-RVT_241229_sv119.M
Operator : sv119:rp
Instrument : SV119
Quant Date : 3/12/2025 5:46 pm

Compound #25: Hexachlorobenzene



Original Peak Response = 312



Manual Peak Response = 72 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250312RVT\
Data File : 12607-03.D
Acq On : 12 Mar 2025 05:48 pm
Operator : sv119:rp
Sample : L2512607-03,32,,kkmh
Misc : WG2039433,WG2038209,ical21826
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Mar 12 19:16:33 2025
Quant Method : I:\8270sim\sv119\250312RVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 07:11:48 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250312RVT\ccv0312a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.182	152	239197	4000.000	ng/ml	0.00
Standard Area 1 = 270856			Recovery = 88.31%			
9) Naphthalene-d8	2.838	136	935338	4000.000	ng/ml	0.00
Standard Area 1 = 1057861			Recovery = 88.42%			
18) Acenaphthene-d10	3.806	164	544644	4000.000	ng/ml	0.00
Standard Area 1 = 616254			Recovery = 88.38%			
23) Phenanthrene-d10	4.640	188	1108852	4000.000	ng/ml	0.00
Standard Area 1 = 1278760			Recovery = 86.71%			
33) Chrysene-d12	6.187	240	1020732	4000.000	ng/ml	0.00
Standard Area 1 = 1251818			Recovery = 81.54%			
38) Perylene-d12	7.338	264	1004676	4000.000	ng/ml	0.00
Standard Area 1 = 1310763			Recovery = 76.65%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.631	112	12516	195.288	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 9.76%#			
4) Phenol-d6	2.036	99	25282	316.057	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 15.80%			
8) Nitrobenzene-d5	2.463	82	61799	796.691	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 79.67%			
14) 2-Fluorobiphenyl	3.431	172	165547	725.837	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 72.58%			
22) 2,4,6-Tribromophenol	4.254	330	9817	412.983	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 20.65%			
32) 4-Terphenyl-d14	5.559	244	214207	778.707	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 77.87%			
Target Compounds						Qvalue
5) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
7) Hexachloroethane	0.000		0	N.D.		
10) Naphthalene	0.000		0	N.D.	d	
11) Hexachlorobutadiene	0.000		0	N.D.	d	
12) 2-Methylnaphthalene	0.000		0	N.D.	d	
15) 2-Chloronaphthalene	0.000		0	N.D.	d	
17) Acenaphthylene	0.000		0	N.D.	d	
19) Acenaphthene	0.000		0	N.D.	d	
21) Fluorene	4.113	166	330M6	1.581	ng/ml	
25) Hexachlorobenzene	4.429	284	159M6	2.433	ng/ml	

Data Path : I:\8270SIM\sv119\250312RVT\
Data File : 12607-03.D
Acq On : 12 Mar 2025 05:48 pm
Operator : sv119:rp
Sample : L2512607-03,32,,kkmh
Misc : WG2039433,WG2038209,ical21826
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Mar 12 19:16:33 2025
Quant Method : I:\8270sim\sv119\250312RVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 07:11:48 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250312RVT\ccv0312a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Pentachlorophenol	0.000		0	N.D.	d	
27) Phenanthrene	0.000		0	N.D.	d	
28) Anthracene	0.000		0	N.D.	d	
29) Fluoranthene	0.000		0	N.D.	d	
30) Pyrene	0.000		0	N.D.	d	
34) Benzo[a]anthracene	0.000		0	N.D.	d	
36) Chrysene	0.000		0	N.D.	d	
39) Benzo[b]fluoranthene	0.000		0	N.D.	d	
40) Benzo[k]fluoranthene	0.000		0	N.D.	d	
41) Benzo[a]pyrene	0.000		0	N.D.	d	
42) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
43) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
44) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

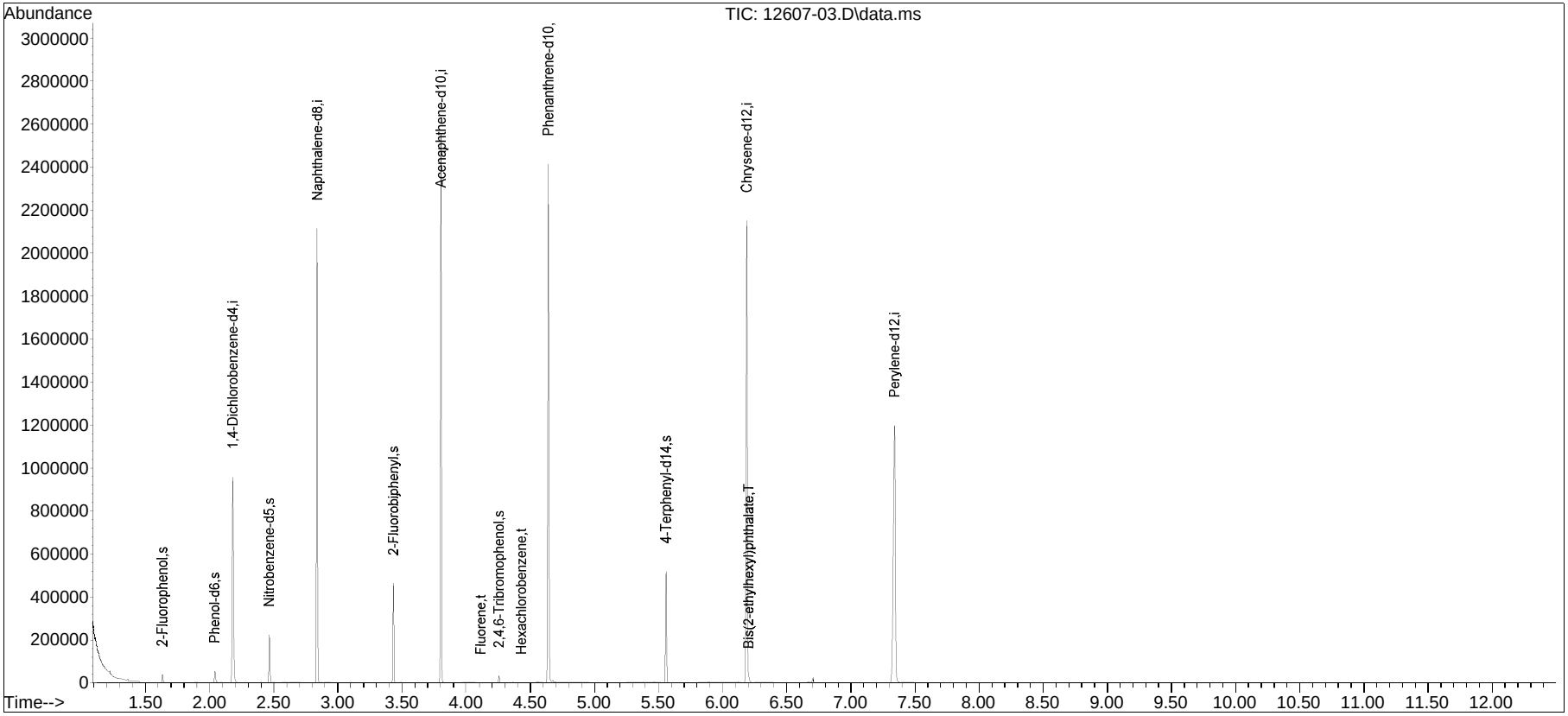
(#) = qualifier out of range (m) = manual integration (+) = signals summed

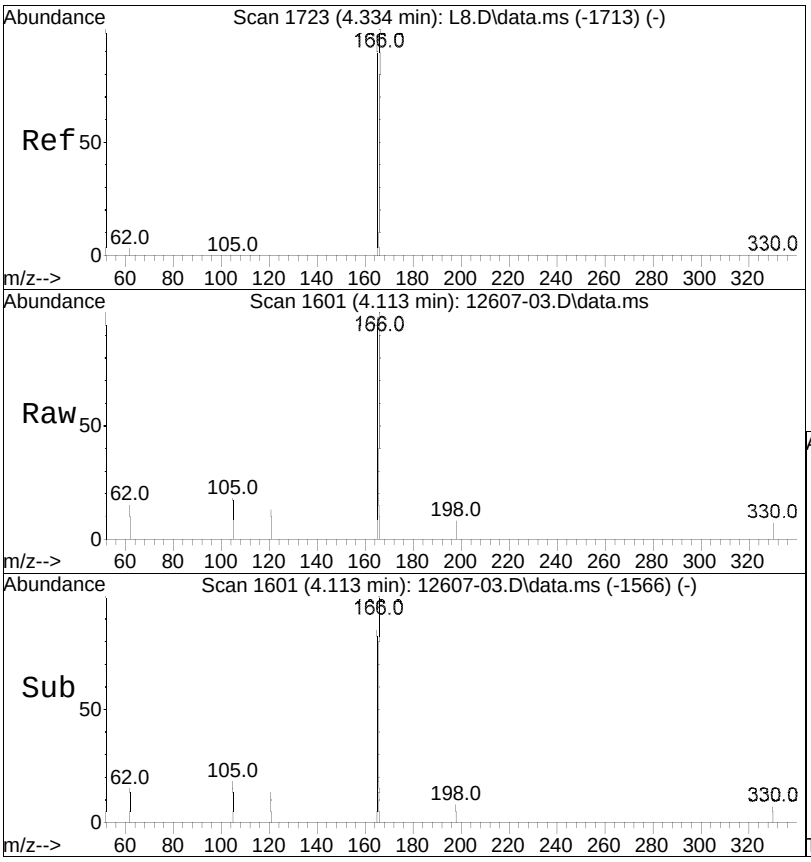
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250312RVT\
Data File : 12607-03.D
Acq On : 12 Mar 2025 05:48 pm
Operator : sv119:rp
Sample : L2512607-03,32,,kkmh
Misc : WG2039433,WG2038209,ical21826
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Mar 12 19:16:33 2025
Quant Method : I:\8270sim\sv119\250312RVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 07:11:48 2025
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0312a.D•

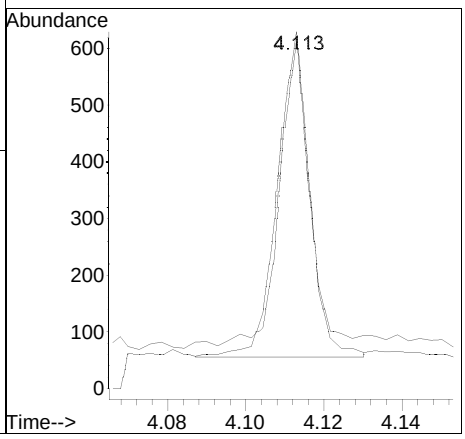


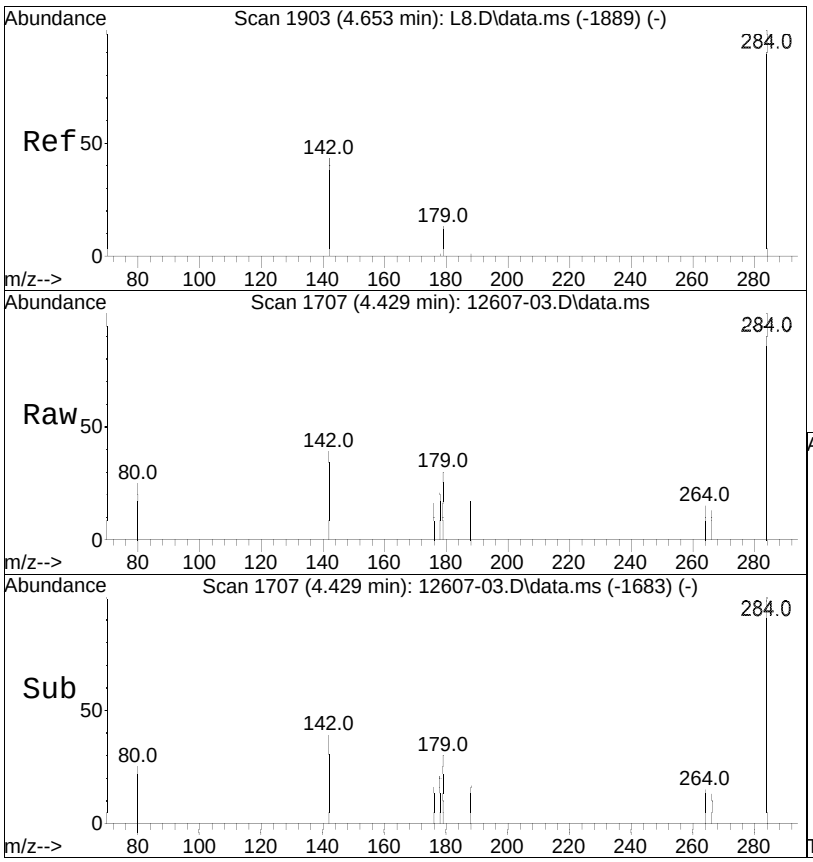


#21
Fluorene
Concen: 1.58 ng/ml M6
RT: 4.113 min Scan# 1601
Delta R.T. 0.003 min
Lab File: 12607-03.D
Acq: 12 Mar 2025 05:48 pm

Tgt Ion:166 Resp: 330

Ion	Ratio	Lower	Upper
166	100		
165	91.5	77.8	116.8

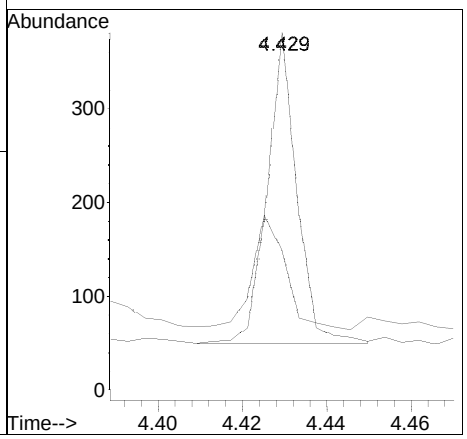




#25
Hexachlorobenzene
Concen: 2.43 ng/ml M6
RT: 4.429 min Scan# 1707
Delta R.T. -0.000 min
Lab File: 12607-03.D
Acq: 12 Mar 2025 05:48 pm

Tgt Ion:284 Resp: 159

Ion	Ratio	Lower	Upper
284	100		
142	41.5	33.8	50.6

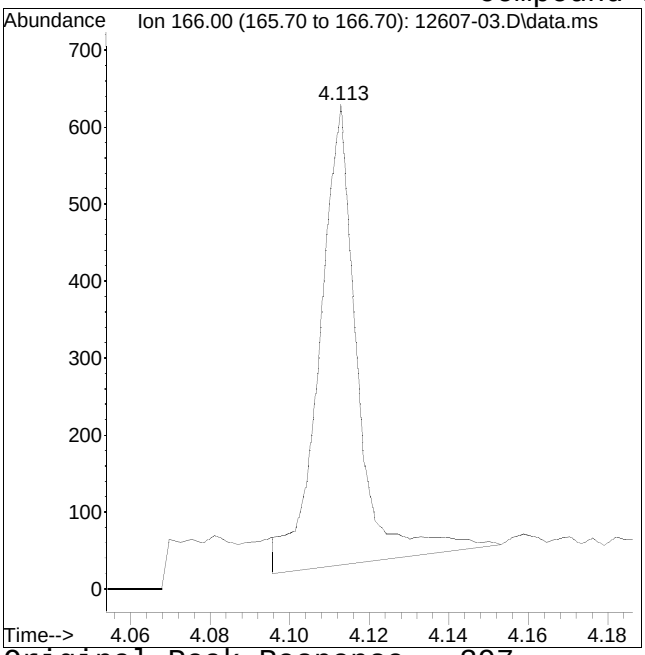


Manual Integration Report

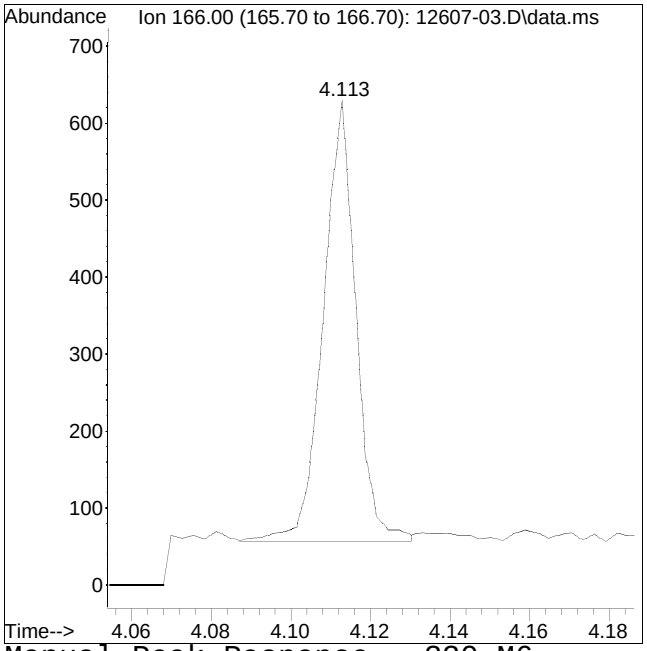
Data Path : I:\8270SIM\sv119\250312RVTQ
Data File : 12607-03.D
Date Inj'd : 3/12/2025 5:48 pm
Sample : L2512607-03,32,,kkmh

Method : SIM-RVT_241229_sv119.M
Operator : sv119:rp
Instrument : SV119
Quant Date : 3/12/2025 6:02 pm

Compound #21: Fluorene



Original Peak Response = 397



Manual Peak Response = 330 M6

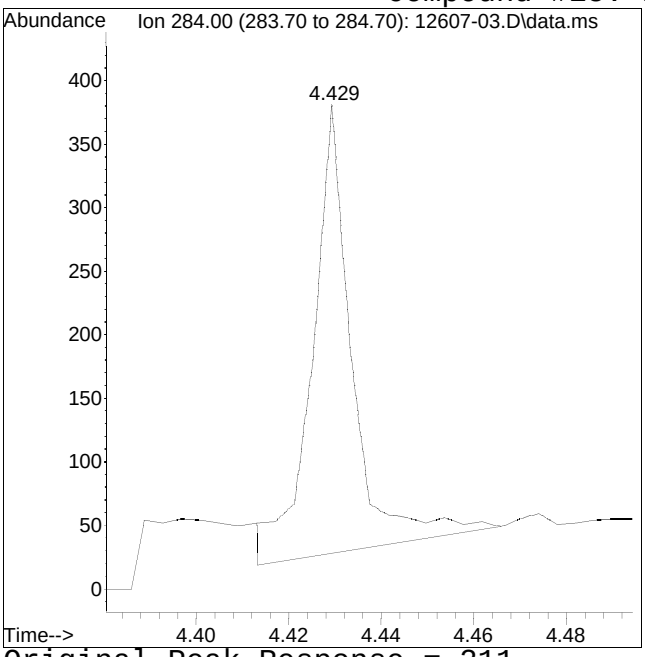
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

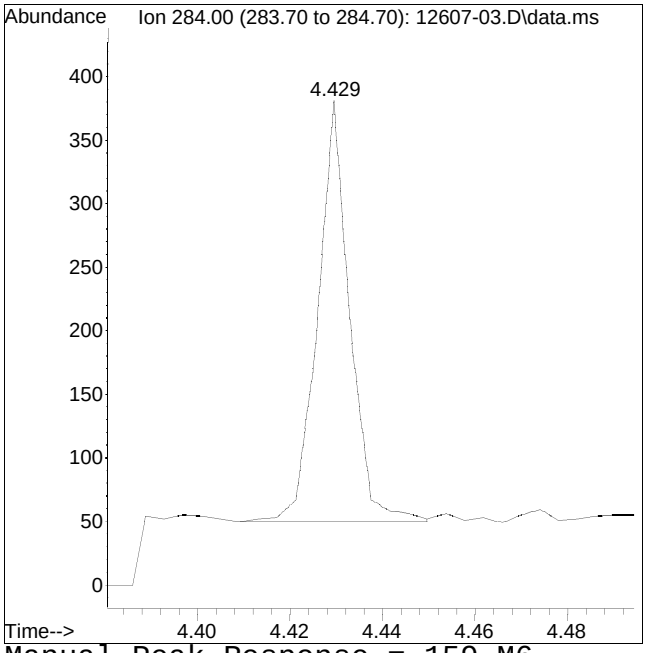
Data Path : I:\8270SIM\sv119\250312RVTQ
Data File : 12607-03.D
Date Inj'd : 3/12/2025 5:48 pm
Sample : L2512607-03,32,,kkmh

Method : SIM-RVT_241229_sv119.M
Operator : sv119:rp
Instrument : SV119
Quant Date : 3/12/2025 6:02 pm

Compound #25: Hexachlorobenzene



Original Peak Response = 211



Manual Peak Response = 159 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250312RVT\
Data File : 12607-05.D
Acq On : 12 Mar 2025 06:22 pm
Operator : sv119:rp
Sample : L2512607-05,32,,kkmh
Misc : WG2039433,WG2038209,ical21826
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Mar 12 19:18:53 2025
Quant Method : I:\8270sim\sv119\250312RVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 07:11:48 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250312RVT\ccv0312a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.182	152	232455	4000.000	ng/ml	0.00
Standard Area 1 = 270856			Recovery = 85.82%			
9) Naphthalene-d8	2.838	136	907217	4000.000	ng/ml	0.00
Standard Area 1 = 1057861			Recovery = 85.76%			
18) Acenaphthene-d10	3.806	164	529758	4000.000	ng/ml	0.00
Standard Area 1 = 616254			Recovery = 85.96%			
23) Phenanthrene-d10	4.640	188	1077024	4000.000	ng/ml	0.00
Standard Area 1 = 1278760			Recovery = 84.22%			
33) Chrysene-d12	6.191	240	1006342	4000.000	ng/ml	0.00
Standard Area 1 = 1251818			Recovery = 80.39%			
38) Perylene-d12	7.340	264	1020341	4000.000	ng/ml	0.00
Standard Area 1 = 1310763			Recovery = 77.84%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.631	112	47696	765.788	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 38.29%			
4) Phenol-d6	2.037	99	49968	642.780	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 32.14%			
8) Nitrobenzene-d5	2.464	82	67241	891.989	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 89.20%			
14) 2-Fluorobiphenyl	3.431	172	179954	813.460	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 81.35%			
22) 2,4,6-Tribromophenol	4.254	330	28321	1224.891	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 61.24%			
32) 4-Terphenyl-d14	5.559	244	225211	842.904	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 84.29%			
Target Compounds						Qvalue
5) Bis(2-chloroethyl)ether	0.000		0	N.D. d		
7) Hexachloroethane	0.000		0	N.D.		
10) Naphthalene	0.000		0	N.D. d		
11) Hexachlorobutadiene	0.000		0	N.D.		
12) 2-Methylnaphthalene	0.000		0	N.D. d		
15) 2-Chloronaphthalene	0.000		0	N.D. d		
17) Acenaphthylene	0.000		0	N.D. d		
19) Acenaphthene	0.000		0	N.D. d		
21) Fluorene	0.000		0	N.D. d		
25) Hexachlorobenzene	0.000		0	N.D. d		

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250312RVT\
Data File : 12607-05.D
Acq On : 12 Mar 2025 06:22 pm
Operator : sv119:rp
Sample : L2512607-05,32,,kkmh
Misc : WG2039433,WG2038209,ical21826
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Mar 12 19:18:53 2025
Quant Method : I:\8270sim\sv119\250312RVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 07:11:48 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250312RVT\ccv0312a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Pentachlorophenol	0.000		0	N.D.	d	
27) Phenanthrene	0.000		0	N.D.	d	
28) Anthracene	0.000		0	N.D.	d	
29) Fluoranthene	0.000		0	N.D.	d	
30) Pyrene	0.000		0	N.D.	d	
34) Benzo[a]anthracene	0.000		0	N.D.	d	
36) Chrysene	0.000		0	N.D.	d	
39) Benzo[b]fluoranthene	0.000		0	N.D.	d	
40) Benzo[k]fluoranthene	0.000		0	N.D.	d	
41) Benzo[a]pyrene	0.000		0	N.D.	d	
42) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
43) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
44) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

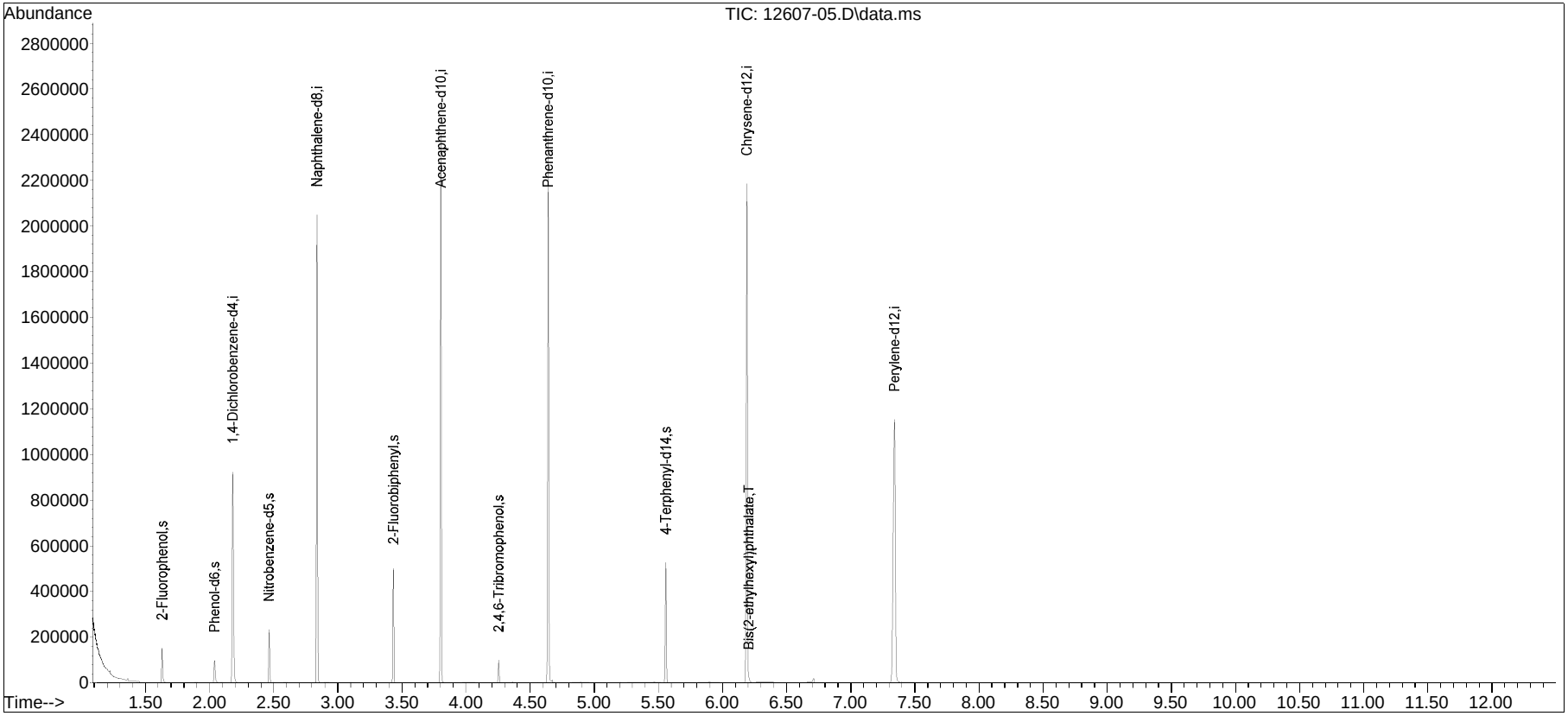
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250312RVT\
Data File : 12607-05.D
Acq On : 12 Mar 2025 06:22 pm
Operator : sv119:rp
Sample : L2512607-05,32,,kkmh
Misc : WG2039433,WG2038209,ical21826
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Mar 12 19:18:53 2025
Quant Method : I:\8270sim\sv119\250312RVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 07:11:48 2025
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0312a.D•



Manual Integration Report

Data Path	: I:\8270SIM\sv119\250312RVTQ	Method	: SIM-RVT_241229_sv119.M
Data File	: 12607-05.D	Operator	: sv119:rp
Date Inj'd	: 3/12/2025 6:22 pm	Instrument	: SV119
Sample	: L2512607-05,32,,kkmh	Quant Date	: 3/12/2025 6:36 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250313RVT\
Data File : 12607-06.D
Acq On : 13 Mar 2025 08:36 am
Operator : sv119:rp
Sample : L2512607-06,32,,kmh
Misc : WG2039957,WG2038209,ical21826
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 13 11:23:09 2025
Quant Method : I:\8270sim\sv119\250313RVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 06:54:19 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250313RVT\ccv0313.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.176	152	218407	4000.000	ng/ml	0.00
Standard Area 1 = 226451			Recovery = 96.45%			
9) Naphthalene-d8	2.837	136	866853	4000.000	ng/ml	0.00
Standard Area 1 = 898767			Recovery = 96.45%			
18) Acenaphthene-d10	3.805	164	497927	4000.000	ng/ml	0.00
Standard Area 1 = 516819			Recovery = 96.34%			
23) Phenanthrene-d10	4.639	188	1012487	4000.000	ng/ml	0.00
Standard Area 1 = 1080335			Recovery = 93.72%			
33) Chrysene-d12	6.188	240	1032442	4000.000	ng/ml	0.00
Standard Area 1 = 1074571			Recovery = 96.08%			
38) Perylene-d12	7.338	264	1023191	4000.000	ng/ml	0.00
Standard Area 1 = 1109396			Recovery = 92.23%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.621	112	44256	756.260	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 37.81%			
4) Phenol-d6	2.027	99	43928	601.429	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 30.07%			
8) Nitrobenzene-d5	2.460	82	63002	889.512	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 88.95%			
14) 2-Fluorobiphenyl	3.431	172	165465	782.793	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 78.28%			
22) 2,4,6-Tribromophenol	4.254	330	27195	1251.382	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 62.57%			
32) 4-Terphenyl-d14	5.559	244	225604	898.197	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 89.82%			
Target Compounds						Qvalue
5) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
7) Hexachloroethane	0.000		0	N.D.		
10) Naphthalene	0.000		0	N.D.	d	
11) Hexachlorobutadiene	0.000		0	N.D.		
12) 2-Methylnaphthalene	0.000		0	N.D.	d	
15) 2-Chloronaphthalene	0.000		0	N.D.	d	
17) Acenaphthylene	0.000		0	N.D.	d	
19) Acenaphthene	0.000		0	N.D.	d	
21) Fluorene	0.000		0	N.D.	d	
25) Hexachlorobenzene	0.000		0	N.D.	d	

Data Path : I:\8270SIM\sv119\250313RVT\
Data File : 12607-06.D
Acq On : 13 Mar 2025 08:36 am
Operator : sv119:rp
Sample : L2512607-06,32,,kmh
Misc : WG2039957,WG2038209,ical21826
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 13 11:23:09 2025
Quant Method : I:\8270sim\sv119\250313RVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 06:54:19 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250313RVT\ccv0313.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Pentachlorophenol	0.000		0	N.D.	d	
27) Phenanthrene	0.000		0	N.D.	d	
28) Anthracene	0.000		0	N.D.	d	
29) Fluoranthene	0.000		0	N.D.	d	
30) Pyrene	0.000		0	N.D.	d	
34) Benzo[a]anthracene	0.000		0	N.D.	d	
36) Chrysene	0.000		0	N.D.	d	
39) Benzo[b]fluoranthene	0.000		0	N.D.	d	
40) Benzo[k]fluoranthene	0.000		0	N.D.	d	
41) Benzo[a]pyrene	0.000		0	N.D.	d	
42) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
43) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
44) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

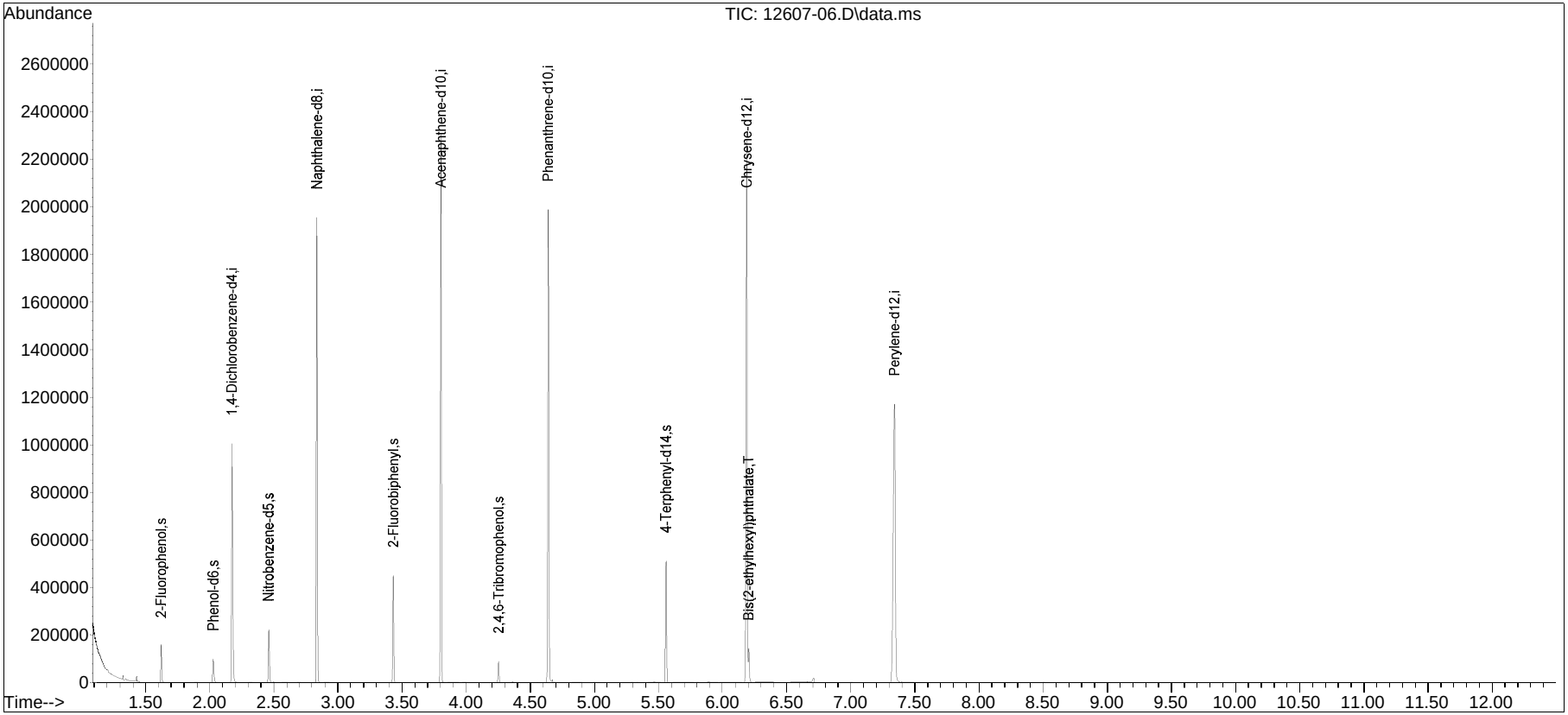
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250313RVT\
Data File : 12607-06.D
Acq On : 13 Mar 2025 08:36 am
Operator : sv119:rp
Sample : L2512607-06,32,,kmh
Misc : WG2039957,WG2038209,ical21826
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 13 11:23:09 2025
Quant Method : I:\8270sim\sv119\250313RVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 06:54:19 2025
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0313.D•



Manual Integration Report

Data Path	: I:\8270SIM\sv119\250313RVTQ	Method	: SIM-RVT_241229_sv119.M
Data File	: 12607-06.D	Operator	: sv119:rp
Date Inj'd	: 3/13/2025 8:36 am	Instrument	: SV119
Sample	: L2512607-06,32,,kmh	Quant Date	: 3/13/2025 8:50 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250313aRVT\
Data File : 12607-04.D
Acq On : 13 Mar 2025 09:58 am
Operator : SV118:rp
Sample : L2512607-04,32,,RV,kmh
Misc : WG2040034,WG2038209,ical21963
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 13 11:10:58 2025
Quant Method : I:\8270sim\SV118\250313aRVT\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 08:48:25 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV118\250313aRVT\ccv0313a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	2.262	152	712836	4000.000	ng/ml		0.00
Standard Area 1 = 659004			Recovery = 108.17%				
9) Naphthalene-d8	2.921	136	2593341	4000.000	ng/ml		0.00
Standard Area 1 = 2453700			Recovery = 105.69%				
18) Acenaphthene-d10	3.895	164	1582995	4000.000	ng/ml		0.00
Standard Area 1 = 1463630			Recovery = 108.16%				
23) Phenanthrene-d10	4.732	188	3359483	4000.000	ng/ml	#	0.00
Standard Area 1 = 3051028			Recovery = 110.11%				
33) Chrysene-d12	6.283	240	3428894	4000.000	ng/ml		0.00
Standard Area 1 = 3008661			Recovery = 113.97%				
38) Perylene-d12	7.521	264	3492357	4000.000	ng/ml		0.00
Standard Area 1 = 3049927			Recovery = 114.51%				
System Monitoring Compounds							
3) 2-Fluorophenol	1.679	112	172599	791.827	ng/ml		0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 39.59%				
4) Phenol-d6	2.076	99	148121	567.126	ng/ml		0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 28.36%				
8) Nitrobenzene-d5	2.541	82	187088	877.223	ng/ml		0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 87.72%				
14) 2-Fluorobiphenyl	3.513	172	454676	800.666	ng/ml		0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 80.07%				
22) 2,4,6-Tribromophenol	4.338	330	102274	1396.670	ng/ml		0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 69.83%				
32) 4-Terphenyl-d14	5.647	244	566733	726.186	ng/ml		0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 72.62%				

Target Compounds				Qvalue
5) Bis(2-chloroethyl)ether	0.000	0	N.D. d	
7) Hexachloroethane	0.000	0	N.D. d	
10) Naphthalene	0.000	0	N.D. d	
11) Hexachlorobutadiene	0.000	0	N.D. d	
12) 2-Methylnaphthalene	0.000	0	N.D. d	
15) 2-Chloronaphthalene	0.000	0	N.D. d	
17) Acenaphthylene	0.000	0	N.D. d	
19) Acenaphthene	0.000	0	N.D. d	
21) Fluorene	0.000	0	N.D. d	
25) Hexachlorobenzene	0.000	0	N.D. d	

Data Path : I:\8270SIM\SV118\250313aRVT\
Data File : 12607-04.D
Acq On : 13 Mar 2025 09:58 am
Operator : SV118:rp
Sample : L2512607-04,32,,RV,kmh
Misc : WG2040034,WG2038209,ical21963
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 13 11:10:58 2025
Quant Method : I:\8270sim\SV118\250313aRVT\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 08:48:25 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\SV118\250313aRVT\ccv0313a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Pentachlorophenol	0.000		0	N.D.	d	
27) Phenanthrene	0.000		0	N.D.	d	
28) Anthracene	0.000		0	N.D.	d	
29) Fluoranthene	5.424	202	4420	3.816	ng/ml#	93
30) Pyrene	0.000		0	N.D.	d	
34) Benzo[a]anthracene	6.283	226	1237	3.414	ng/ml#	1
36) Chrysene	6.297	228	1595	1.348	ng/ml#	77
39) Benzo[b]fluoranthene	0.000		0	N.D.	d	
40) Benzo[k]fluoranthene	0.000		0	N.D.	d	
41) Benzo[a]pyrene	0.000		0	N.D.	d	
42) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
43) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
44) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

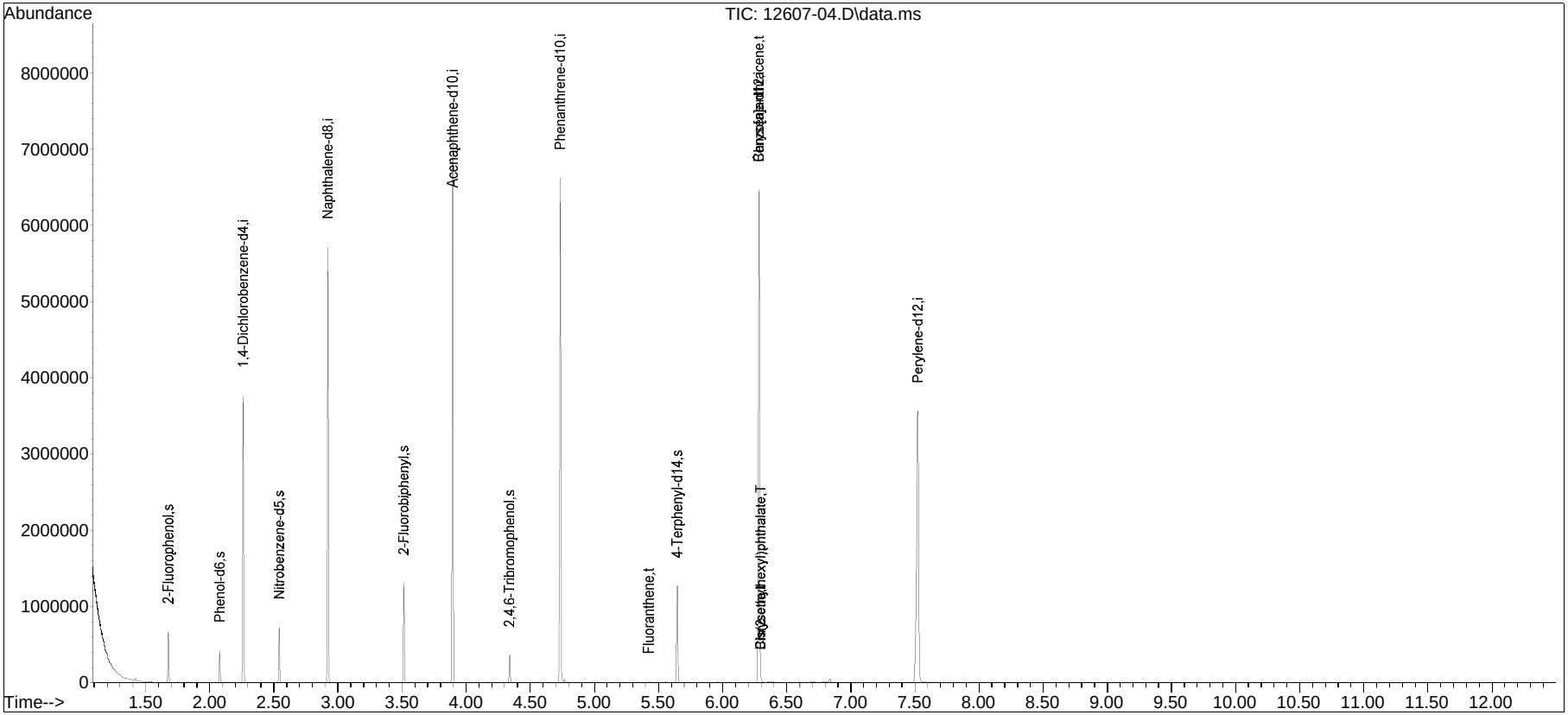
(#) = qualifier out of range (m) = manual integration (+) = signals summed

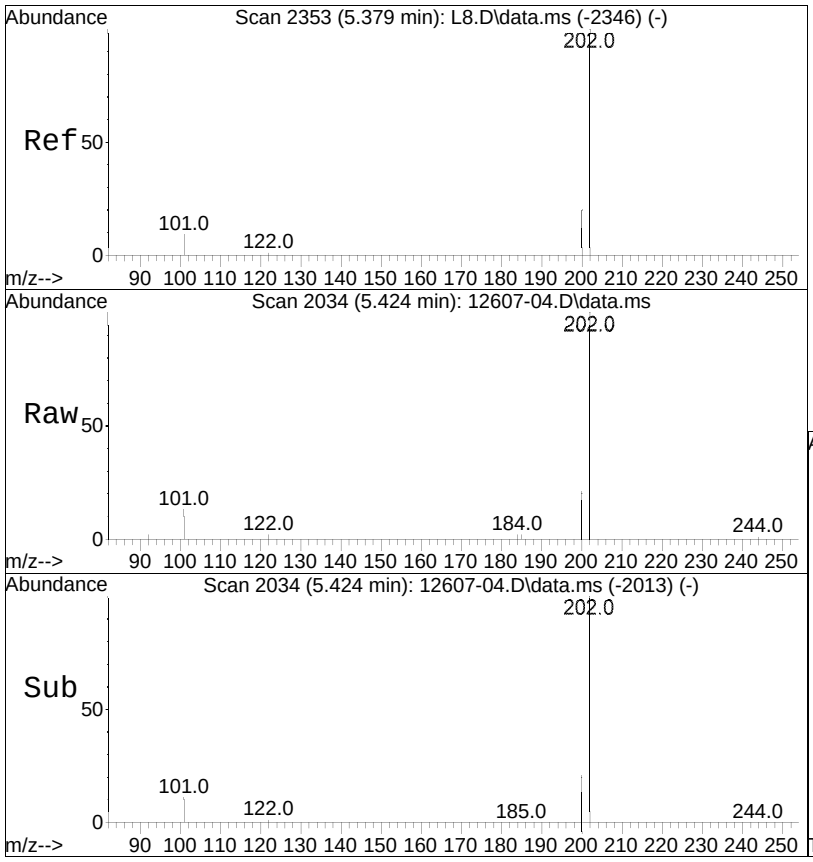
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250313aRVT\
Data File : 12607-04.D
Acq On : 13 Mar 2025 09:58 am
Operator : SV118:rp
Sample : L2512607-04,32,,RV,kmh
Misc : WG2040034,WG2038209,ical21963
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 13 11:10:58 2025
Quant Method : I:\8270sim\SV118\250313aRVT\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 08:48:25 2025
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedT\ccv0313a.D•

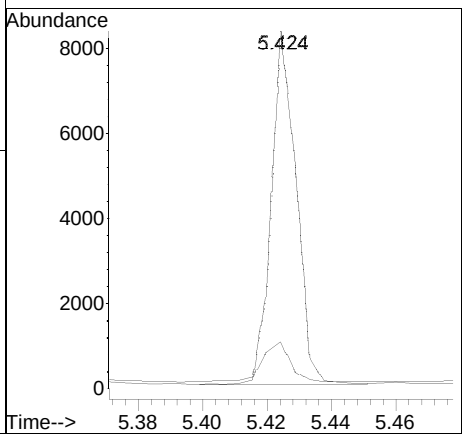


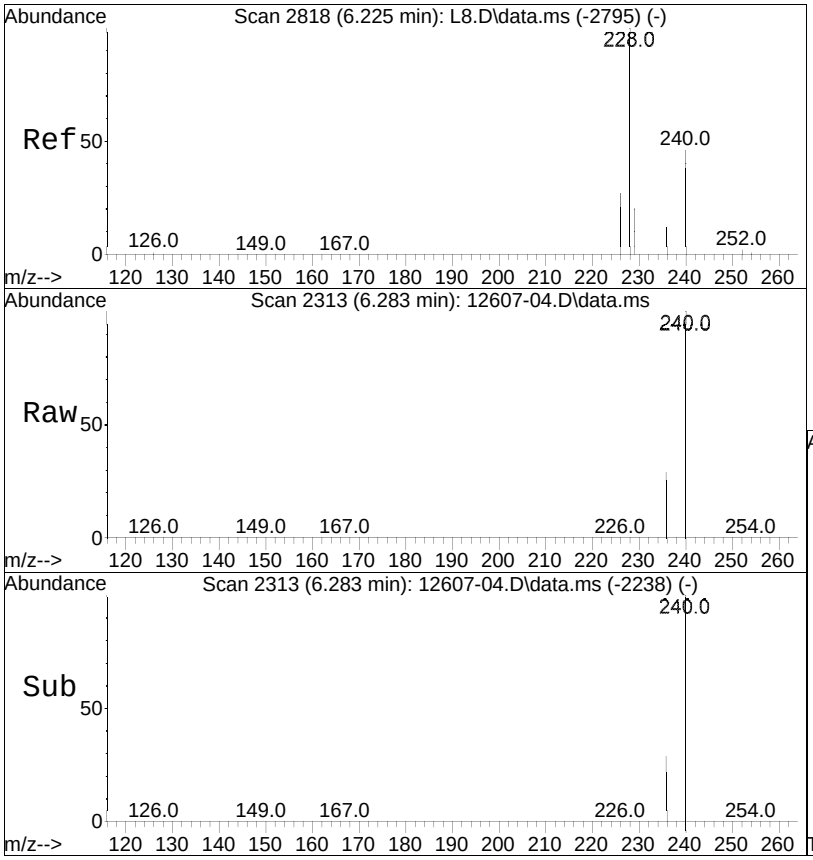


#29
Fluoranthene
Concen: 3.82 ng/ml
RT: 5.424 min Scan# 2034
Delta R.T. -0.005 min
Lab File: 12607-04.D
Acq: 13 Mar 2025 09:58 am

Tgt Ion:202 Resp: 4420

Ion	Ratio	Lower	Upper
202	100		
101	13.8	8.8	13.2#

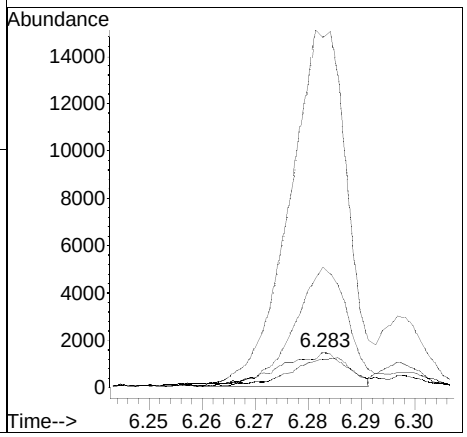


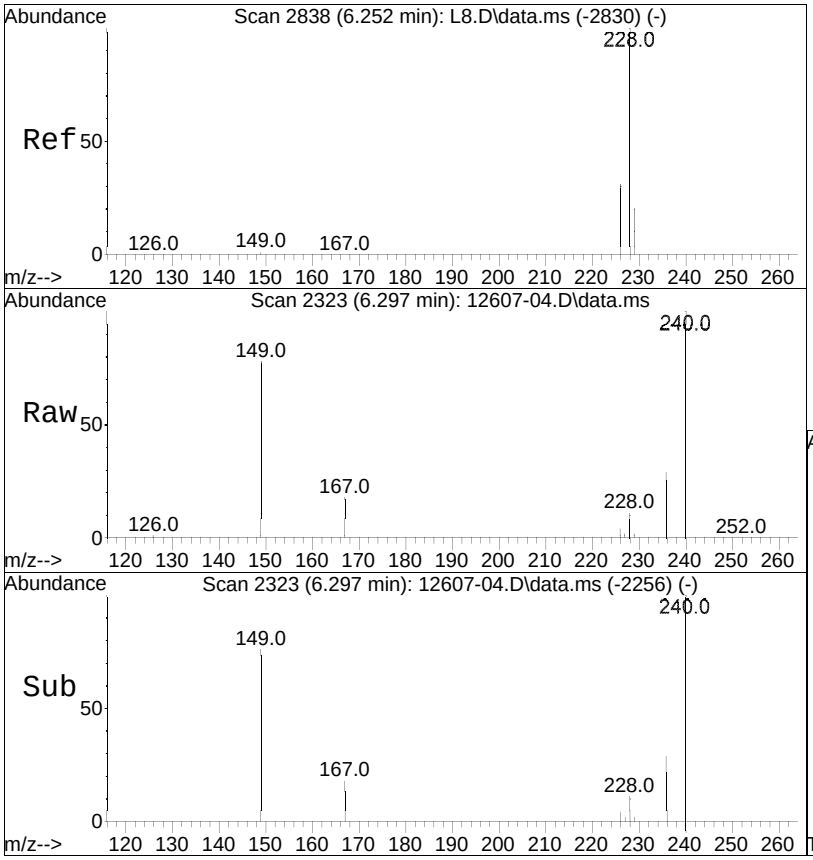


#34
Benzo[a]anthracene
Concen: 3.41 ng/ml
RT: 6.283 min Scan# 2313
Delta R.T. 0.007 min
Lab File: 12607-04.D
Acq: 13 Mar 2025 09:58 am

Tgt Ion:226 Resp: 1237

Ion	Ratio	Lower	Upper
226	100		
227	81.1	0.0	0.0#
228	912.1	288.7	433.1#
229	276.4	56.8	85.2#

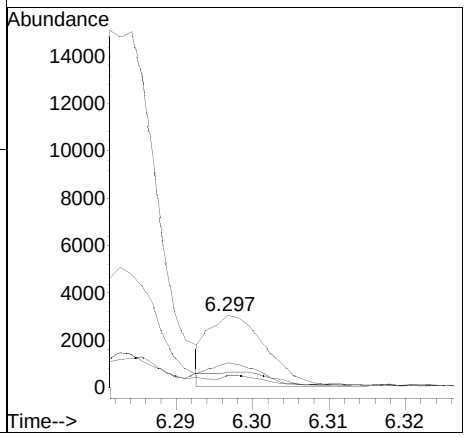




#36
Chrysene
Concen: 1.35 ng/ml
RT: 6.297 min Scan# 2323
Delta R.T. -0.006 min
Lab File: 12607-04.D
Acq: 13 Mar 2025 09:58 am

Tgt Ion:228 Resp: 1595

Ion	Ratio	Lower	Upper
228	100		
226	36.2	24.4	36.6
227	10.5	0.0	0.0#
229	0.6	15.6	23.4#



Manual Integration Report

Data Path	: I:\8270SIM\SV118\250313aRVQ	Method	: SIM-RVT_250203sv118.M
Data File	: 12607-04.D	Operator	: SV118:rp
Date Inj'd	: 3/13/2025 9:58 am	Instrument	: SV118
Sample	: L2512607-04,32,,RV,kmh	Quant Date	: 3/13/2025 10:11 am

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

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2512607**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV119**	**Ical Ref**	**: ICAL21826**
Calibration dates	**: 12/29/24 13:37 12/29/24 16:09**		

Calibration Files
L1 =L1.D L2 =L2.D L3 =L3.D L4 =L4.D L5 =L5.D L6 =L6.D L7 =L7.D L8 =ccv0205a.D L9 =L
L10 =L10.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
1)	i	1,4-Dichlorobenzene-d4	----------ISTD----------											
2)	s	2-Fluorophenol		1.194	1.049	1.050	1.065	0.971	1.054	1.080	1.098	1.085	1.072	5.45
3)	s	Phenol-d6		1.497	1.292	1.304	1.309	1.168	1.318	1.365	1.398	1.388	1.338	6.77
4)	T	bis(2-Chloroethyl)ether			1.307	1.266	1.553	1.083	1.183	1.165	1.180	1.141	1.235	11.84
5)	T	n-Nitrosodi-n-propylamine		0.837	0.808	0.833	0.812	0.724	0.826	0.837	0.889	0.880	0.827	5.75
6)	t	Hexachloroethane		0.655	0.513	0.522	0.518	0.458	0.500	0.499	0.506	0.495	0.518	10.54
7)	s	Nitrobenzene-d5		1.380	1.332	1.291	1.325	1.150	1.295	1.287	1.325	1.289	1.297	4.83
8)	i	Naphthalene-d8	----------ISTD----------											
9)	t	Naphthalene	1.204	1.406	1.128	1.129	1.123	0.990	1.072	1.048	1.051	1.005	1.116	10.81
10)	t	Hexachlorobutadiene		0.230	0.206	0.202	0.201	0.178	0.192	0.187	0.189	0.183	0.196	7.94
11)	t	2-Methylnaphthalene	0.833	0.914	0.778	0.783	0.800	0.703	0.761	0.749	0.753	0.721	0.780	7.71
12)	t	1-Methylnaphthalene	0.767	0.829	0.720	0.727	0.739	0.652	0.707	0.691	0.689	0.659	0.718	7.32
13)	s	2-Fluorobiphenyl		1.155	0.985	0.990	1.010	0.877	0.949	0.922	0.914		0.975	8.73
14)	t	2-Chloronaphthalene		0.942	0.813	0.825	0.837	0.739	0.792	0.774	0.778	0.748	0.805	7.56
15)	t	2,6-Dinitrotoluene					0.191	0.171	0.200	0.204	0.215	0.210	0.198	7.92
16)	t	Acenaphthylene	1.300	1.472	1.249	1.250	1.283	1.127	1.221	1.209	1.212	1.147	1.247	7.67
17)	i	Acenaphthene-d10	----------ISTD----------											
18)	t	Acenaphthene	1.410	1.530	1.355	1.333	1.362	1.213	1.307	1.288	1.299	1.244	1.334	6.72
19)	t	2,4-Dinitrotoluene					0.369	0.351	0.432	0.447	0.479	0.469	0.424	12.45
20)	t	Fluorene	1.590	1.759	1.495	1.502	1.566	1.395	1.529	1.516	1.527	1.448	1.533	6.31
21)	s	2,4,6-Tribromophenol		0.198	0.156	0.146	0.157	0.151	0.180	0.186	0.200	0.197	0.175	12.68
22)	i	Phenanthrene-d10	----------ISTD----------											
23)	T	4,6-Dinitro-o-cresol					0.083	0.079	0.111	0.122	0.135	0.137	*L	0.9975
24)	t	Hexachlorobenzene		0.289	0.238	0.240	0.239	0.212	0.227	0.219	0.222		0.236	10.08
25)	t	Pentachlorophenol				0.234	0.138	0.101	0.094	0.116	0.140	0.144	*Q	0.9961
26)	t	Phenanthrene	1.294	1.376	1.172	1.163	1.200	1.069	1.143	1.111	1.116	1.050	1.170	8.58
27)	t	Anthracene	1.275	1.363	1.165	1.157	1.187	1.066	1.158	1.129	1.143	1.082	1.173	7.51
28)	t	Fluoranthene	1.590	1.707	1.447	1.422	1.488	1.319	1.431	1.393	1.372		1.463	8.13
29)	t	Pyrene	1.620	1.738	1.506	1.482	1.544	1.370	1.491	1.436	1.406		1.510	7.49
30)	s	4-Terphenyl-d14			1.036	1.008	1.068	0.945	1.001	0.958	0.931		0.992	5.06
31)	i	Chrysene-d12	----------ISTD----------											
32)	t	Benzo[a]anthracene	1.237	0.709	0.355	0.247	0.168	0.137	0.145	0.141	0.145	0.139	*L	0.9995
33)	t	3,3'-Dichlorobenzidine					0.337	0.313	0.410	0.451	0.523	0.526	*L	0.9962
34)	t	Chrysene	1.465	1.591	1.379	1.371	1.369	1.249	1.376	1.320	1.353	1.300	1.377	6.83
35)	T	bis(2-Ethylhexyl)phthalate					0.614	0.557	0.715	0.739	0.828	0.834	0.714	15.65
36)	i	Perylene-d12	----------ISTD----------											

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2512607**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV119**	**Ical Ref**	**: ICAL21826**
Calibration dates	**: 12/29/24 13:37 12/29/24 16:09**		

Calibration Files
L1 =L1.D L2 =L2.D L3 =L3.D L4 =L4.D L5 =L5.D L6 =L6.D L7 =L7.D L8 =ccv0205a.D L9 =L
L10 =L10.D

	Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
37) t	Benzo[b]fluoranthene	1.378	1.493	1.304	1.278	1.294	1.169	1.356	1.333	1.331	1.320	1.326	6.17
38) t	Benzo[k]fluoranthene	1.407	1.441	1.210	1.216	1.311	1.209	1.358	1.298	1.361	1.261	1.307	6.40
39) t	Benzo[a]pyrene	1.147	1.221	1.050	1.049	1.083	0.999	1.169	1.154	1.202	1.175	1.125	6.63
40) t	Indeno[1,2,3-cd]pyrene	1.094	1.170	1.014	1.008	1.020	0.953	1.135	1.138	1.177	1.182	1.089	7.67
41) t	Dibenzo[a,h]anthracene	0.964	1.027	0.910	0.921	0.957	0.929	1.106	1.087	1.111	1.092	1.010	8.18
42) t	Benzo[g,h,i]perylene	1.076	1.108	0.966	0.976	0.982	0.929	1.078	1.071	1.097	1.083	1.036	6.31

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2512607**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV118**	**Ical Ref**	**: ICAL21963**
Calibration dates	**: 02/03/25 15:47 02/03/25 18:20**		

Calibration Files
L1 =L1.D L2 =L2.D L3 =L3.D L4 =L4.D L5 =L5.D L6 =L6.D L7 =L7.D L8 =L8.D L9 =L9.D
L10 =L10.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
1)	i	1,4-Dichlorobenzene-d4	----------ISTD----------											
2)	s	2-Fluorophenol		1.239	1.204	1.243	1.241	1.289	1.259	1.229	1.173	1.131	1.223	3.88
3)	s	Phenol-d6		1.538	1.428	1.427	1.436	1.495	1.503	1.482	1.446	1.435	1.466	2.72
4)	T	bis(2-Chloroethyl)ether			1.452	1.310	1.318	1.349	1.310	1.269	1.206	1.195	1.301	6.29
5)	T	n-Nitrosodi-n-propylamine		0.803	0.785	0.765	0.784	0.828	0.882	0.885	0.888	0.892	0.835	6.26
6)	t	Hexachloroethane			0.559	0.549	0.537	0.556	0.556	0.546	0.528	0.523	0.544	2.49
7)	s	Nitrobenzene-d5	1.228	1.170	1.104	1.095	1.173	1.220	1.272	1.256	1.232	1.217	1.197	5.04
8)	i	Naphthalene-d8	----------ISTD----------											
9)	t	Naphthalene		1.330	1.169	1.168	1.134	1.162	1.130	1.100	1.042	0.996	1.137	8.24
10)	t	Hexachlorobutadiene				0.210	0.207	0.213	0.208	0.204	0.193	0.190	0.204	4.20
11)	t	2-Methylnaphthalene		0.787	0.701	0.704	0.710	0.730	0.723	0.703	0.665	0.643	0.707	5.74
12)	t	1-Methylnaphthalene		0.789	0.712	0.718	0.728	0.748	0.737	0.711	0.675	0.652	0.719	5.54
13)	s	2-Fluorobiphenyl	0.940	0.997	0.878	0.887	0.891	0.906	0.879	0.841	0.788	0.751	0.876	8.03
14)	t	2-Chloronaphthalene		0.807	0.766	0.757	0.780	0.799	0.787	0.762	0.726	0.703	0.765	4.39
15)	t	2,6-Dinitrotoluene					0.137	0.148	0.178	0.184	0.189	0.186	0.170	12.95
16)	t	Acenaphthylene		1.189	1.093	1.083	1.145	1.212	1.269	1.236	1.188	1.115	1.170	5.54
17)	i	Acenaphthene-d10	----------ISTD----------											
18)	t	Acenaphthene		1.578	1.459	1.432	1.440	1.464	1.429	1.400	1.324	1.289	1.424	5.86
19)	t	2,4-Dinitrotoluene					0.305	0.349	0.437	0.456	0.465	0.456	0.411	16.37
20)	t	Fluorene	1.628	1.690	1.541	1.511	1.554	1.609	1.622	1.576	1.494	1.431	1.566	4.82
21)	s	2,4,6-Tribromophenol			0.145	0.144	0.156	0.181	0.212	0.214	0.214	0.214	0.185	17.53
22)	i	Phenanthrene-d10	----------ISTD----------											
23)	T	4,6-Dinitro-o-cresol					0.052	0.072	0.107	0.117	0.128	0.135	*L	0.9973
24)	t	Hexachlorobenzene		0.290	0.264	0.262	0.268	0.279	0.270	0.262	0.246	0.243	0.265	5.57
25)	t	Pentachlorophenol				0.059	0.063	0.088	0.130	0.141	0.152		*Q	0.9979
26)	t	Phenanthrene	1.301	1.264	1.238	1.198	1.247	1.255	1.227	1.190	1.126	1.066	1.211	5.77
27)	t	Anthracene	1.273	1.263	1.156	1.156	1.189	1.236	1.258	1.223	1.160	1.107	1.202	4.68
28)	t	Fluoranthene	1.511	1.425	1.362	1.286	1.392	1.419	1.448	1.388	1.331	1.231	1.379	5.88
29)	t	Pyrene	1.550	1.470	1.410	1.321	1.447	1.470	1.517	1.456	1.370	1.262	1.427	6.19
30)	s	4-Terphenyl-d14	1.052	0.994	0.932	0.865	0.947	0.960	0.967	0.913	0.868	0.794	0.929	7.91
31)	i	Chrysene-d12	----------ISTD----------											
32)	t	Benzo[a]anthracene			0.534	0.436	0.390	0.392	0.411	0.408	0.403	0.407	0.423	11.16
33)	t	3,3'-Dichlorobenzidine					0.419	0.456	0.550	0.578	0.600	0.604	0.534	14.68
34)	t	Chrysene	1.390	1.357	1.364	1.358	1.421	1.446	1.429	1.385	1.338	1.314	1.380	3.05
35)	T	bis(2-Ethylhexyl)phthalate					0.556	0.603	0.795	0.883	0.958	0.999	*L	0.9974
36)	i	Perylene-d12	----------ISTD----------											

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2512607**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV118**	**Ical Ref**	**: ICAL21963**
Calibration dates	**: 02/03/25 15:47 02/03/25 18:20**		

Calibration Files
L1 =L1.D L2 =L2.D L3 =L3.D L4 =L4.D L5 =L5.D L6 =L6.D L7 =L7.D L8 =L8.D L9 =L9.D
L10 =L10.D

	Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
37) t	Benzo[b]fluoranthene	1.338	1.316	1.277	1.249	1.270	1.349	1.381	1.342	1.317	1.321	1.316	3.06
38) t	Benzo[k]fluoranthene	1.173	1.259	1.124	1.188	1.219	1.299	1.367	1.346	1.282	1.266	1.252	6.13
39) t	Benzo[a]pyrene	1.037	1.021	0.982	1.006	1.029	1.103	1.191	1.200	1.187	1.195	1.095	8.21
40) t	Indeno[1,2,3-cd]pyrene		0.884	0.863	0.888	0.902	0.951	1.005	1.060	1.074	1.111	0.971	9.69
41) t	Dibenzo[a,h]anthracene	0.886	0.835	0.786	0.834	0.875	0.960	1.026	1.058	1.046	1.066	0.937	11.36
42) t	Benzo[g,h,i]perylene		0.942	0.922	0.936	0.985	1.052	1.079	1.110	1.092	1.115	1.026	7.75

Response Factor Report SV119

Method Path : I:\8270SIM\sv119\250205aRVT\
Method File : SIM-RVT_241229_sv119.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Feb 05 07:16:40 2025
Response Via : Initial Calibration

Calibration Files
L1 =L1.D L2 =L2.D L3 =L3.D L4 =L4.D L5 =L5.D L6 =L6.D L7 =L7.D L8 =ccv0205a.D L9 =L
L10 =L10.D

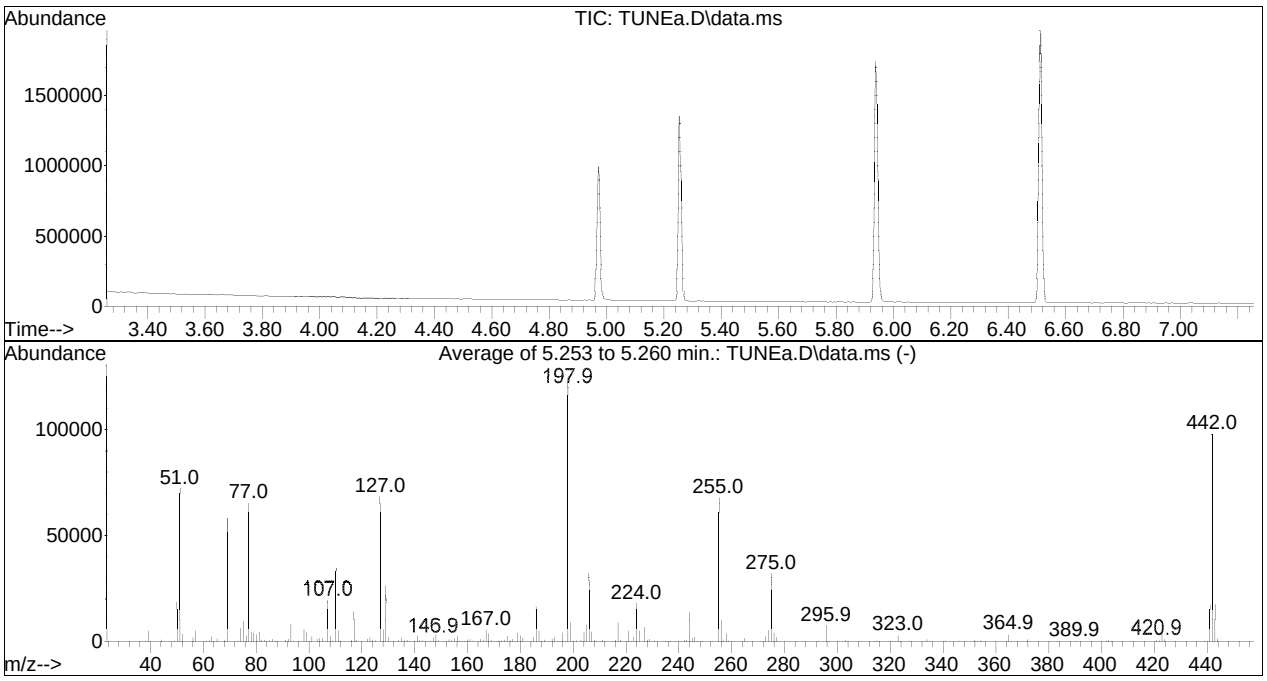
		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
1)	i	1,4-Dichlorobenzene-d4	ISTD											
2)	s	2-Fluorophenol		1.194	1.049	1.050	1.065	0.971	1.054	1.080	1.098	1.085	1.072	5.45
3)	s	Phenol-d6		1.497	1.292	1.304	1.309	1.168	1.318	1.365	1.398	1.388	1.338	6.77
4)	T	bis(2-Chloroethyl)ether			1.307	1.266	1.553	1.083	1.183	1.165	1.180	1.141	1.235	11.84
5)	T	n-Nitrosodi-n-propylamine		0.837	0.808	0.833	0.812	0.724	0.826	0.837	0.889	0.880	0.827	5.75
6)	t	Hexachloroethane		0.655	0.513	0.522	0.518	0.458	0.500	0.499	0.506	0.495	0.518	10.54
7)	s	Nitrobenzene-d5		1.380	1.332	1.291	1.325	1.150	1.295	1.287	1.325	1.289	1.297	4.83
8)	i	Naphthalene-d8	ISTD											
9)	t	Naphthalene	1.204	1.406	1.128	1.129	1.123	0.990	1.072	1.048	1.051	1.005	1.116	10.81
10)	t	Hexachlorobutadiene		0.230	0.206	0.202	0.201	0.178	0.192	0.187	0.189	0.183	0.196	7.94
11)	t	2-Methylnaphthalene	0.833	0.914	0.778	0.783	0.800	0.703	0.761	0.749	0.753	0.721	0.780	7.71
12)	t	1-Methylnaphthalene	0.767	0.829	0.720	0.727	0.739	0.652	0.707	0.691	0.689	0.659	0.718	7.32
13)	s	2-Fluorobiphenyl		1.155	0.985	0.990	1.010	0.877	0.949	0.922	0.914		0.975	8.73
14)	t	2-Chloronaphthalene		0.942	0.813	0.825	0.837	0.739	0.792	0.774	0.778	0.748	0.805	7.56
15)	t	2,6-Dinitrotoluene					0.191	0.171	0.200	0.204	0.215	0.210	0.198	7.92
16)	t	Acenaphthylene	1.300	1.472	1.249	1.250	1.283	1.127	1.221	1.209	1.212	1.147	1.247	7.67
17)	i	Acenaphthene-d10	ISTD											
18)	t	Acenaphthene	1.410	1.530	1.355	1.333	1.362	1.213	1.307	1.288	1.299	1.244	1.334	6.72
19)	t	2,4-Dinitrotoluene					0.369	0.351	0.432	0.447	0.479	0.469	0.424	12.45
20)	t	Fluorene	1.590	1.759	1.495	1.502	1.566	1.395	1.529	1.516	1.527	1.448	1.533	6.31
21)	s	2,4,6-Tribromophenol		0.198	0.156	0.146	0.157	0.151	0.180	0.186	0.200	0.197	0.175	12.68
22)	i	Phenanthrene-d10	ISTD											
23)	T	4,6-Dinitro-o-cresol					0.083	0.079	0.111	0.122	0.135	0.137	*L	0.9975
24)	t	Hexachlorobenzene		0.289	0.238	0.240	0.239	0.212	0.227	0.219	0.222		0.236	10.08
25)	t	Pentachlorophenol				0.234	0.138	0.101	0.094	0.116	0.140	0.144	*Q	0.9961
26)	t	Phenanthrene	1.294	1.376	1.172	1.163	1.200	1.069	1.143	1.111	1.116	1.050	1.170	8.58
27)	t	Anthracene	1.275	1.363	1.165	1.157	1.187	1.066	1.158	1.129	1.143	1.082	1.173	7.51
28)	t	Fluoranthene	1.590	1.707	1.447	1.422	1.488	1.319	1.431	1.393	1.372		1.463	8.13
29)	t	Pyrene	1.620	1.738	1.506	1.482	1.544	1.370	1.491	1.436	1.406		1.510	7.49
30)	s	4-Terphenyl-d14			1.036	1.008	1.068	0.945	1.001	0.958	0.931		0.992	5.06
31)	i	Chrysene-d12	ISTD											
32)	t	Benzo[a]anthracene	1.237	0.709	0.355	0.247	0.168	0.137	0.145	0.141	0.145	0.139	*L	0.9995
33)	t	3,3'-Dichlorobenzidine					0.337	0.313	0.410	0.451	0.523	0.526	*L	0.9962
34)	t	Chrysene	1.465	1.591	1.379	1.371	1.369	1.249	1.376	1.320	1.353	1.300	1.377	6.83
35)	T	bis(2-Ethylhexyl)phthalate					0.614	0.557	0.715	0.739	0.828	0.834	0.714	15.65
36)	i	Perylene-d12	ISTD											
37)	t	Benzo[b]fluora...	1.378	1.493	1.304	1.278	1.294	1.169	1.356	1.333	1.331	1.320	1.326	6.17
38)	t	Benzo[k]fluora...	1.407	1.441	1.210	1.216	1.311	1.209	1.358	1.298	1.361	1.261	1.307	6.40
39)	t	Benzo[a]pyrene	1.147	1.221	1.050	1.049	1.083	0.999	1.169	1.154	1.202	1.175	1.125	6.63
40)	t	Indeno[1,2,3-c...	1.094	1.170	1.014	1.008	1.020	0.953	1.135	1.138	1.177	1.182	1.089	7.67
41)	t	Dibenzo[a,h]anthracene	0.964	1.027	0.910	0.921	0.957	0.929	1.106	1.087	1.111	1.092	1.010	8.18
42)	t	Benzo[g,h,i]pe...	1.076	1.108	0.966	0.976	0.982	0.929	1.078	1.071	1.097	1.083	1.036	6.31

(#) = Out of Range

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : TUNEa.D
Acq On : 29 Dec 2024 01:20 pm
Operator : sv119:jjw
Sample : TUNE
Misc : WG2015284,,ical
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Dec 30 14:10:06 2024



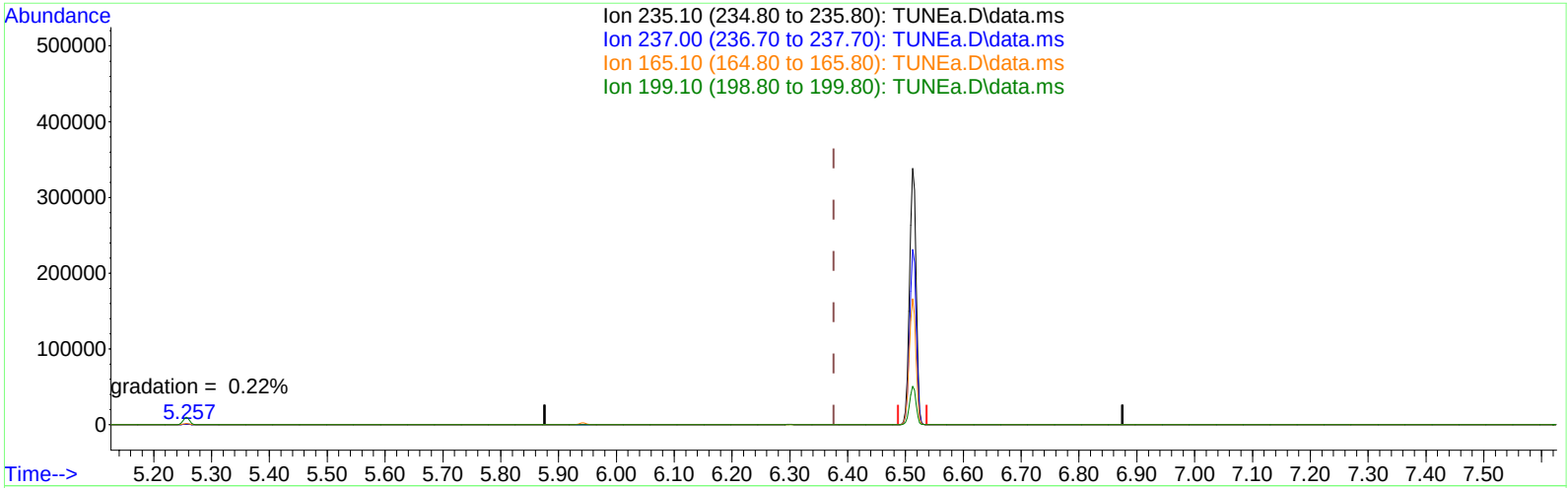
Spectrum Information: Average of 5.253 to 5.260 min.

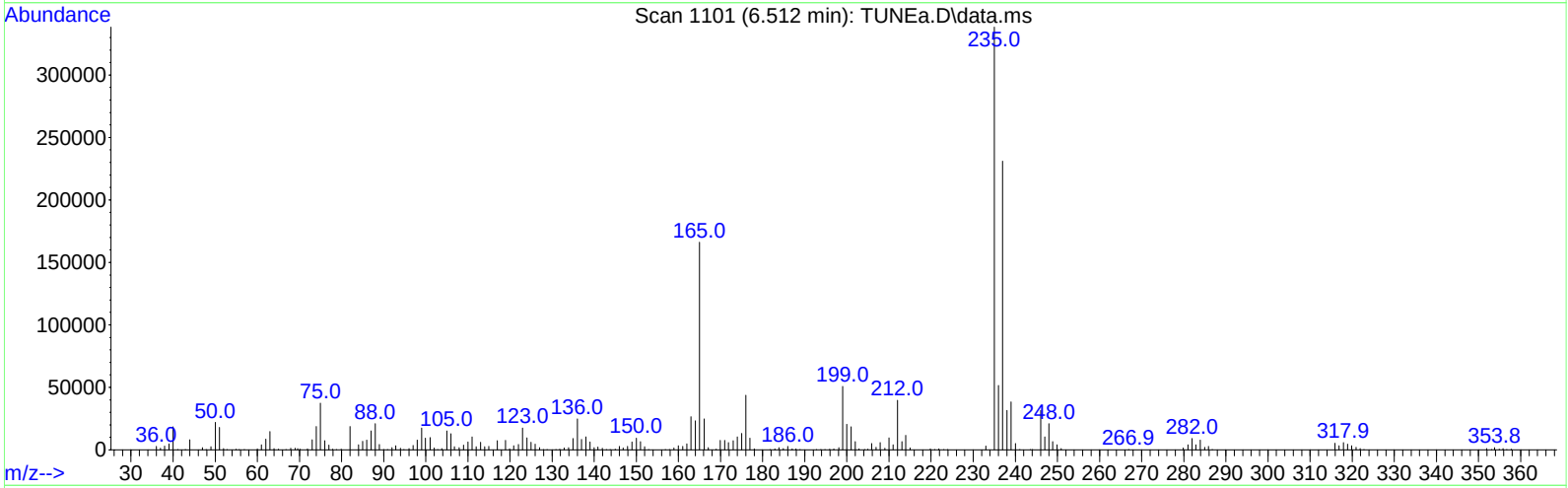
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	58.0	72220	PASS
68	69	0.00	2	1.8	1027	PASS
69	69	100	100	100.0	58144	PASS
70	69	0.00	2	0.4	254	PASS
127	198	10	80	54.8	68219	PASS
197	198	0.00	2	0.4	477	PASS
198	198	100	100	100.0	124584	PASS
199	198	5	9	7.0	8733	PASS
275	198	10	60	25.6	31883	PASS
365	198	1	100	2.6	3257	PASS
441	442	0.01	24	17.1	16738	PASS
442	198	50	100	78.7	98011	PASS
443	442	15	24	17.4	17081	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : TUNEa.D
Acq On : 29 Dec 2024 01:20 pm
Operator : sv119:jjw
Sample : TUNE
Misc : WG2015284,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Dec 29 13:32:29 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 27 15:06:27 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





CHROMtools™ [TUNE]

(6) ddt (T)

6.512min (+ 0.136) 43.92

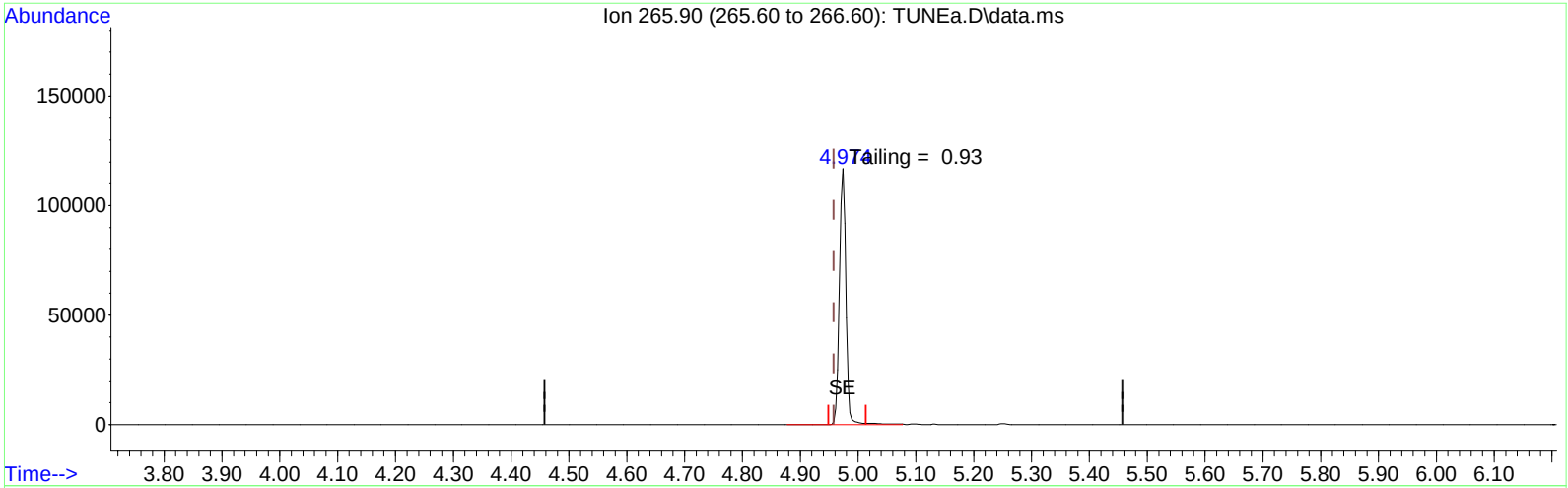
response 267725

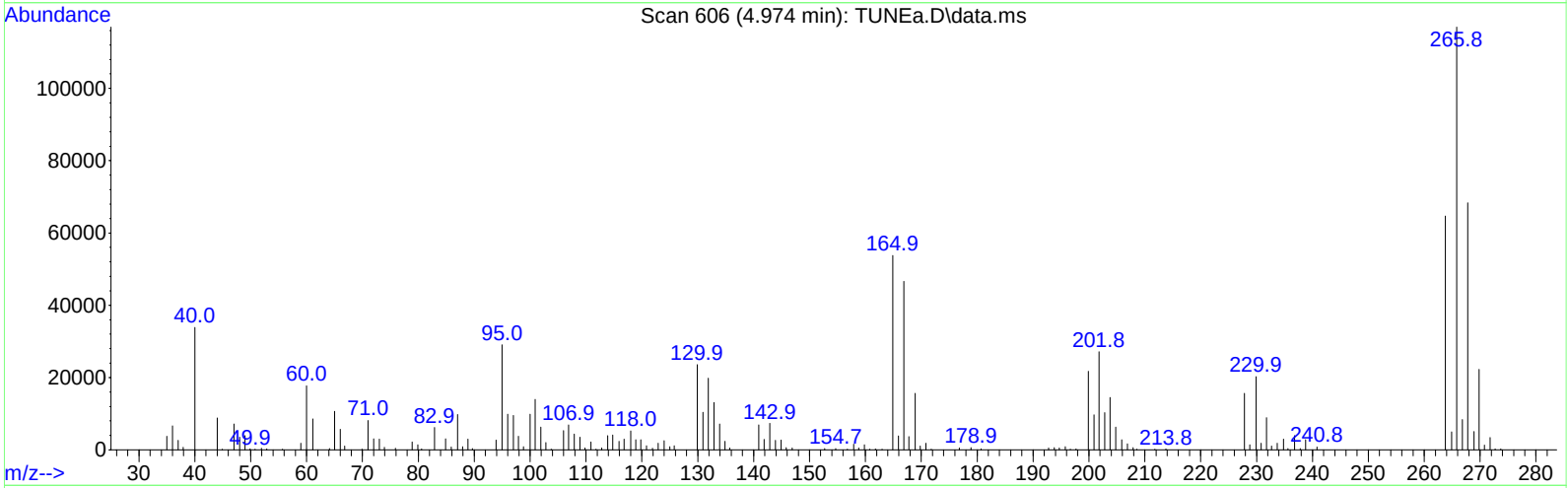
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	67.99
165.10	53.30	49.37
199.10	17.10	14.67

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : TUNEa.D
Acq On : 29 Dec 2024 01:20 pm
Operator : sv119:jjw
Sample : TUNE
Misc : WG2015284,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Dec 29 13:32:29 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 27 15:06:27 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





CHROMtools™ [TUNE]

(1) pentachlorophenol (T)

4.974min (+ 0.016) 43.16

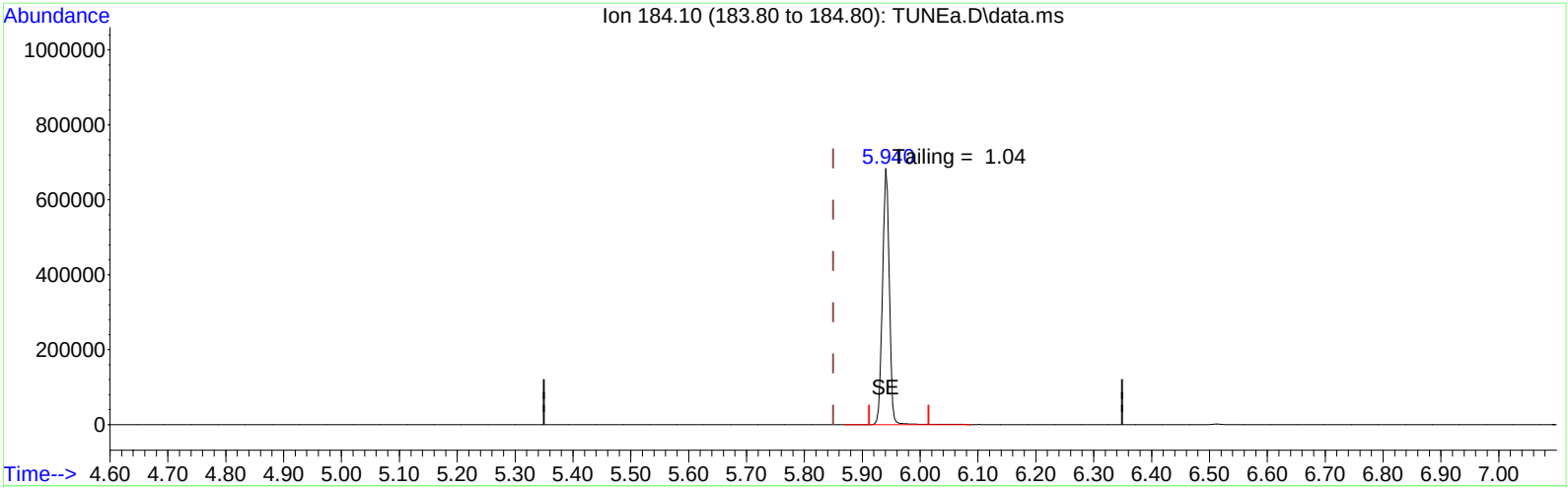
response 90650

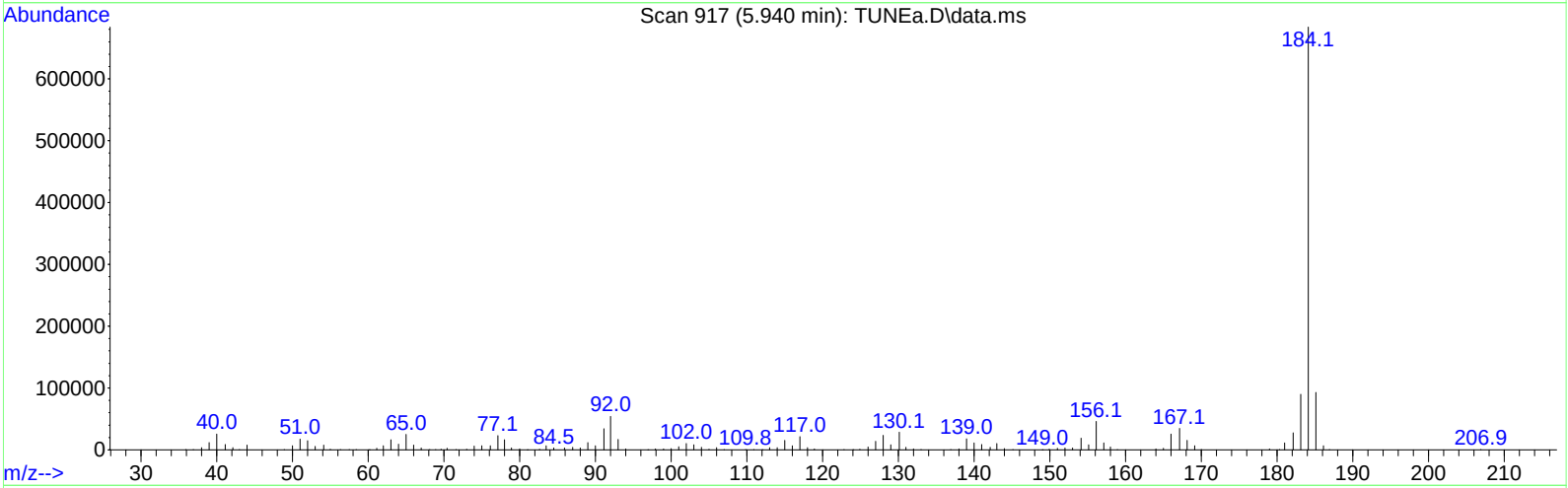
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : TUNEa.D
Acq On : 29 Dec 2024 01:20 pm
Operator : sv119:jjw
Sample : TUNE
Misc : WG2015284,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Dec 29 13:32:29 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 27 15:06:27 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





CHROMtools™ [TUNE]

(3) benzidine (T)

5.940min (+ 0.090) 55.19

response 561817

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L10.D
Acq On : 29 Dec 2024 01:37 pm
Operator : sv119:jjw
Sample : IL10,32,, #10885 5000 ng/ml
Misc : WG2015284,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 31 16:07:10 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\241229RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.340	152	348275	4000.000	ng/ml	0.00
Standard Area 1 = 305578			Recovery = 113.97%			
8) Naphthalene-d8	3.003	136	1330364	4000.000	ng/ml	0.00
Standard Area 1 = 1146492			Recovery = 116.04%			
17) Acenaphthene-d10	3.980	164	838143	4000.000	ng/ml	0.00
Standard Area 1 = 714823			Recovery = 117.25%			
22) Phenanthrene-d10	4.824	188	1768675	4000.000	ng/ml	0.00
Standard Area 1 = 1521053			Recovery = 116.28%			
31) Chrysene-d12	6.464	240	1711433	4000.000	ng/ml	0.02
Standard Area 1 = 1553026			Recovery = 110.20%			
36) Perylene-d12	7.769	264	1750457	4000.000	ng/ml	0.02
Standard Area 1 = 1562574			Recovery = 112.02%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.751	112	472357	5061.900	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 253.09%#			
3) Phenol-d6	2.147	99	604405	5189.373	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 259.47%#			
7) Nitrobenzene-d5	2.621	82	561304	4969.811	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 496.98%#			
13) 2-Fluorobiphenyl	3.597	172	1432759	4416.607	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 441.66%#			
21) 2,4,6-Tribromophenol	4.426	330	206277	5638.961	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 281.95%#			
30) 4-Terphenyl-d14	5.772	244	1940016	4421.517	ng/ml	0.01
Spiked Amount 1000.000	Range 30 - 130		Recovery = 442.15%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.203	93	496607	4619.555	ng/ml#	78
5) n-nitrosodi-n-propylamine	2.540	70	383143	5318.010	ng/ml	100
6) Hexachloroethane	2.600	117	215330	4770.086	ng/ml	94
9) Naphthalene	3.015	128	1671836	4505.835	ng/ml	99
10) Hexachlorobutadiene	3.084	225	304831	4668.432	ng/ml	100
11) 2-Methylnaphthalene	3.393	142	1198947	4624.033	ng/ml	98
12) 1-Methylnaphthalene	3.448	142	1095173	4587.255	ng/ml	98
14) 2-Chloronaphthalene	3.664	162	1244316	4646.626	ng/ml	97
15) 2,6-Dinitrotoluene	3.857	165	349015	5288.657	ng/ml#	91
16) Acenaphthylene	3.898	152	1908137	4601.153	ng/ml	99
18) Acenaphthene	3.998	153	1302852	4660.794	ng/ml	96

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L10.D
Acq On : 29 Dec 2024 01:37 pm
Operator : sv119:jjw
Sample : IL10,32,, #10885 5000 ng/ml
Misc : WG2015284,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 31 16:07:10 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\241229RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.086	165	490910	5520.724	ng/ml#	75
20) Fluorene	4.290	166	1517338	4724.560	ng/ml	97
23) 4,6-Dinitro-o-cresol	4.319	198	303012	5103.808	ng/ml	99
24) Hexachlorobenzene	4.607	284	472069	4528.048	ng/ml	91
25) Pentachlorophenol	4.718	266	318419	4932.491	ng/ml	100
26) Phenanthrene	4.838	178	2321862	4489.867	ng/ml	100
27) Anthracene	4.866	178	2392350	4614.136	ng/ml	99
28) Fluoranthene	5.538	202	2844606	4396.700	ng/ml	98
29) Pyrene	5.677	202	2884960	4320.017	ng/ml	99
32) Benzo[a]anthracene	6.455	228	2973633	4935.581	ng/ml	100
33) 3,3'-Dichlorobenzidine	6.440	252	1124922	5116.132	ng/ml	100
34) Chrysene	6.484	228	2781095	4719.620	ng/ml	99
35) Bis(2-ethylhexyl)phtha...	6.481	149	1783851	5835.435	ng/ml	100
37) Benzo[b]fluoranthene	7.370	252	2888340	4978.758	ng/ml	99
38) Benzo[k]fluoranthene	7.399	252	2759094	4822.834	ng/ml	99
39) Benzo[a]pyrene	7.705	252	2570234	5221.315	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	9.084	276	2585550	5425.382	ng/ml	94
41) Dibenzo[a,h]anthracene	9.122	278	2388781M6	5403.252	ng/ml	
42) Benzo[g,h,i]perylene	9.456	276	2370451	5226.027	ng/ml	93

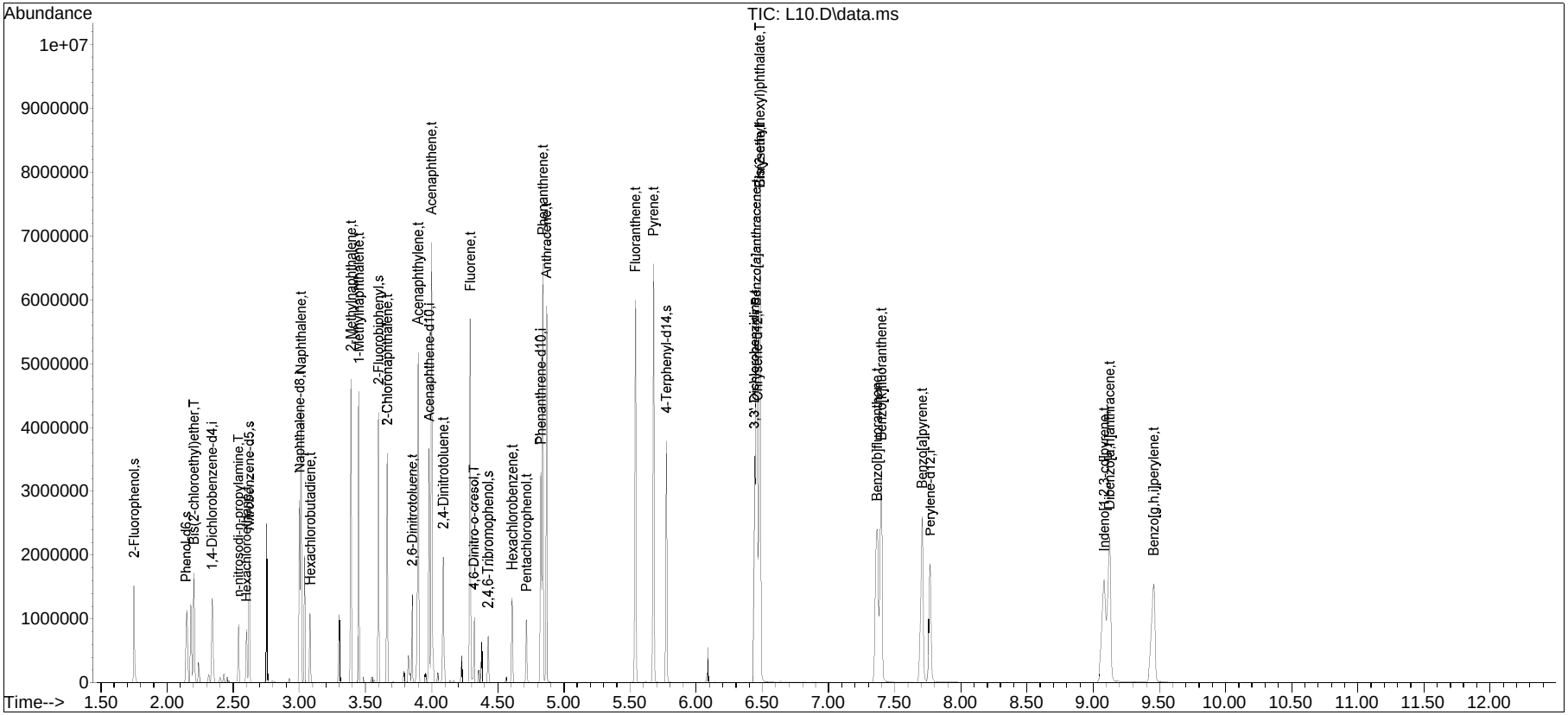
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L10.D
Acq On : 29 Dec 2024 01:37 pm
Operator : sv119:jjw
Sample : IL10,32,, #10885 5000 ng/ml
Misc : WG2015284,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 31 16:07:10 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:19 2024
Response via : Initial Calibration

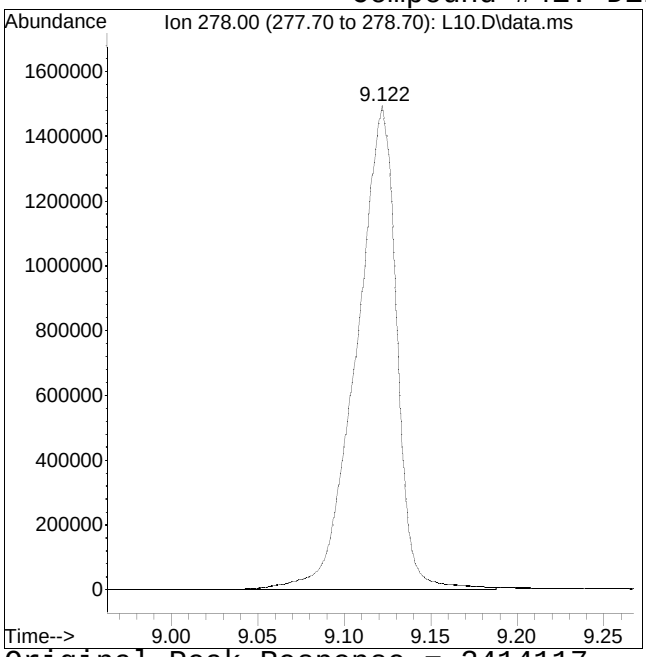
Sub List : Default - All compounds listedical\L8.D•



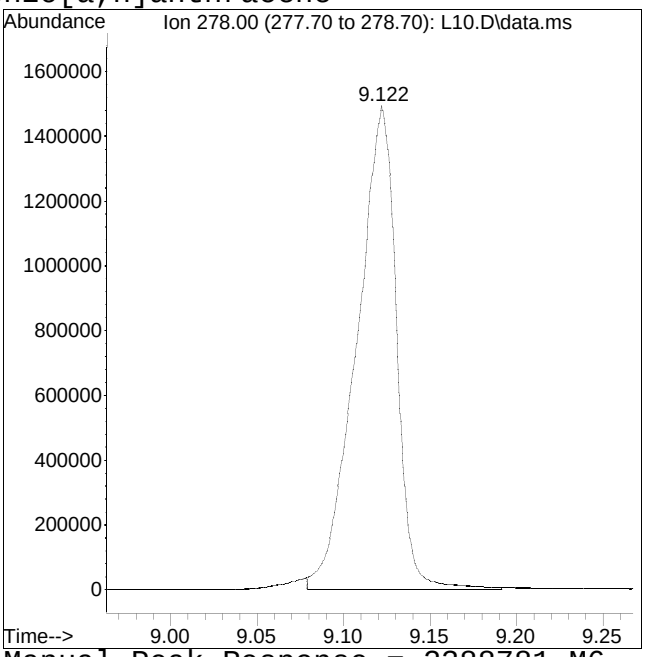
Manual Integration Report

Data Path : I:\8270SIM\sv119\241229RVTQMethod : SIM-RVT_241229_sv119.M
Data File : L10.D Operator : sv119:jjw
Date Inj'd : 12/29/2024 1:37 pm Instrument : SV119
Sample : IL10,32,, #10885 5000 ng/mQuant Date : 12/31/2024 4:08 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 2414117



Manual Peak Response = 2388781 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L9.D
Acq On : 29 Dec 2024 01:53 pm
Operator : sv119:jjw
Sample : IL9,32,, #10901 2500 ng/ml
Misc : WG2015284,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 31 16:07:50 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:59 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\241229RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.346	152	346604	4000.000	ng/ml	0.00
Standard Area 1 = 305578			Recovery = 113.43%			
8) Naphthalene-d8	3.007	136	1324130	4000.000	ng/ml	0.00
Standard Area 1 = 1146492			Recovery = 115.49%			
17) Acenaphthene-d10	3.980	164	828772	4000.000	ng/ml	0.00
Standard Area 1 = 714823			Recovery = 115.94%			
22) Phenanthrene-d10	4.822	188	1758222	4000.000	ng/ml	0.00
Standard Area 1 = 1521053			Recovery = 115.59%			
31) Chrysene-d12	6.445	240	1717251	4000.000	ng/ml	0.00
Standard Area 1 = 1553026			Recovery = 110.57%			
36) Perylene-d12	7.753	264	1736377	4000.000	ng/ml	0.00
Standard Area 1 = 1562574			Recovery = 111.12%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.755	112	237814	2560.763	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 128.04%#			
3) Phenol-d6	2.150	99	302797	2612.325	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 130.62%#			
7) Nitrobenzene-d5	2.623	82	286990	2553.273	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 255.33%#			
13) 2-Fluorobiphenyl	3.599	172	756619	2343.326	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 234.33%#			
21) 2,4,6-Tribromophenol	4.425	330	103515	2861.769	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 143.09%#			
30) 4-Terphenyl-d14	5.764	244	1022967	2345.319	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 234.53%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.206	93	255714	2390.180	ng/ml#	78
5) n-nitrosodi-n-propylamine	2.542	70	192599	2686.154	ng/ml	100
6) Hexachloroethane	2.604	117	109630	2440.281	ng/ml	93
9) Naphthalene	3.016	128	869651	2354.867	ng/ml	99
10) Hexachlorobutadiene	3.087	225	156282	2404.699	ng/ml	100
11) 2-Methylnaphthalene	3.395	142	623050	2414.258	ng/ml	98
12) 1-Methylnaphthalene	3.450	142	570089	2399.124	ng/ml	98
14) 2-Chloronaphthalene	3.666	162	643857	2415.663	ng/ml	97
15) 2,6-Dinitrotoluene	3.857	165	177710	2705.534	ng/ml#	92
16) Acenaphthylene	3.898	152	1002725	2429.287	ng/ml	99
18) Acenaphthene	3.998	153	672903	2434.447	ng/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L9.D
Acq On : 29 Dec 2024 01:53 pm
Operator : sv119:jjw
Sample : IL9,32,, #10901 2500 ng/ml
Misc : WG2015284,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 31 16:07:50 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:59 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\241229RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.084	165	248081	2821.439	ng/ml#	85
20) Fluorene	4.288	166	791109	2491.142	ng/ml	97
23) 4,6-Dinitro-o-cresol	4.316	198	148490	2529.865	ng/ml	97
24) Hexachlorobenzene	4.607	284	243431	2348.853	ng/ml	90
25) Pentachlorophenol	4.718	266	154275	2689.340	ng/ml	100
26) Phenanthrene	4.836	178	1226441	2385.712	ng/ml	99
27) Anthracene	4.864	178	1256012	2436.878	ng/ml	100
28) Fluoranthene	5.531	202	1507744	2344.265	ng/ml	97
29) Pyrene	5.668	202	1545081	2327.401	ng/ml	100
32) Benzo[a]anthracene	6.436	228	1557204	2572.132	ng/ml	100
33) 3,3'-Dichlorobenzidine	6.421	252	561473	2558.506	ng/ml	99
34) Chrysene	6.465	228	1452499	2456.593	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.463	149	888762	2897.519	ng/ml	99
37) Benzo[b]fluoranthene	7.346	252	1444231	2509.671	ng/ml	100
38) Benzo[k]fluoranthene	7.372	252	1477398	2603.399	ng/ml	97
39) Benzo[a]pyrene	7.681	252	1304908	2672.357	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	9.055	276	1277350	2702.058	ng/ml	94
41) Dibenzo[a,h]anthracene	9.094	278	1205173M6	2748.120	ng/ml	
42) Benzo[g,h,i]perylene	9.426	276	1190170	2645.191	ng/ml	93

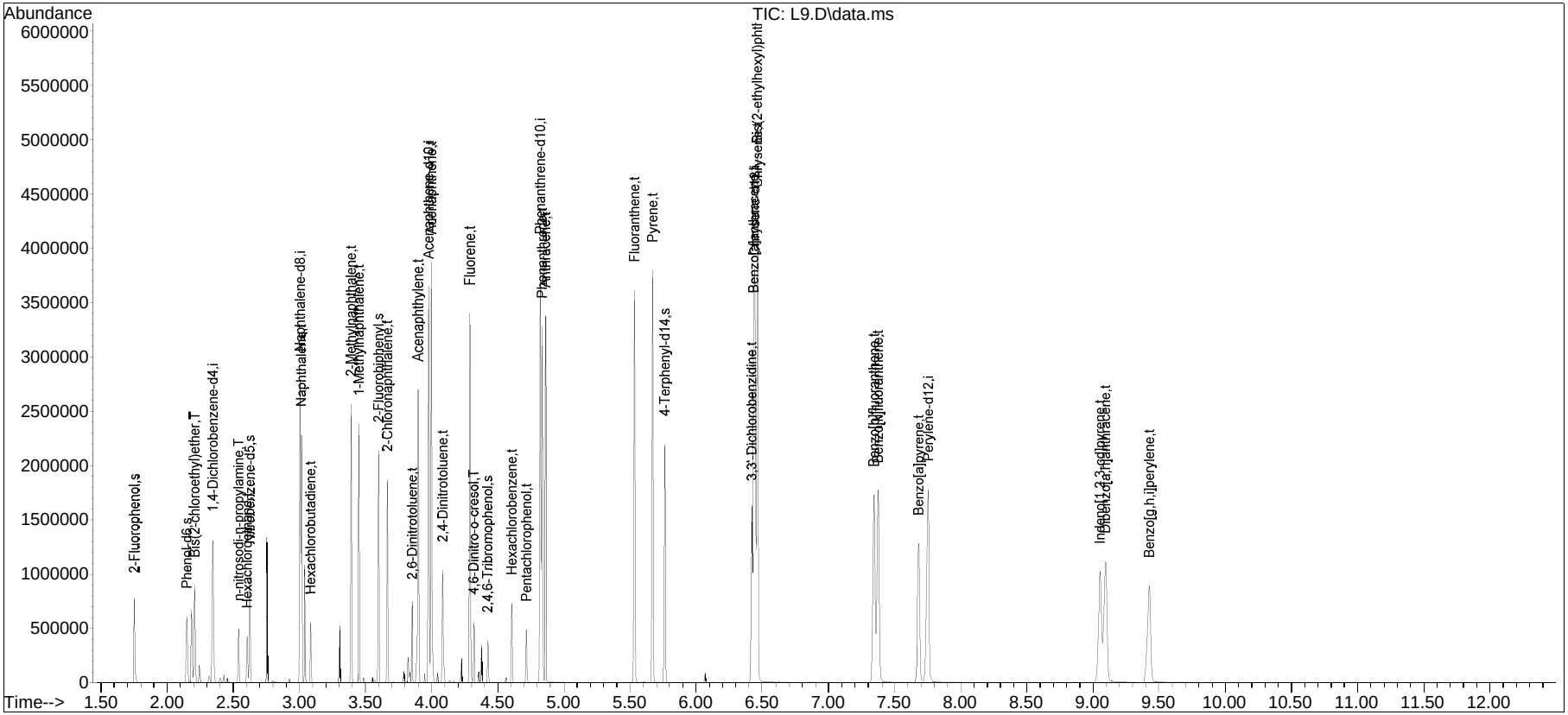
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L9.D
Acq On : 29 Dec 2024 01:53 pm
Operator : sv119:jjw
Sample : IL9,32,, #10901 2500 ng/ml
Misc : WG2015284,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 31 16:07:50 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:59 2024
Response via : Initial Calibration

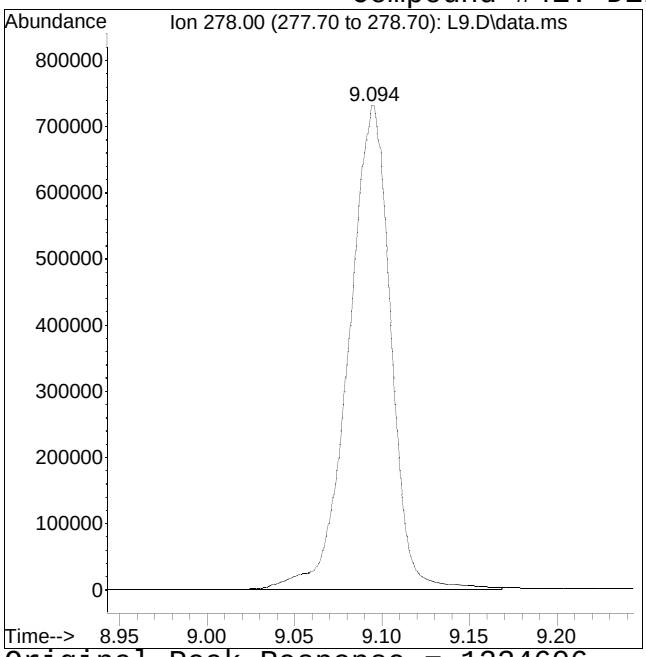
Sub List : Default - All compounds listedical\L8.D•



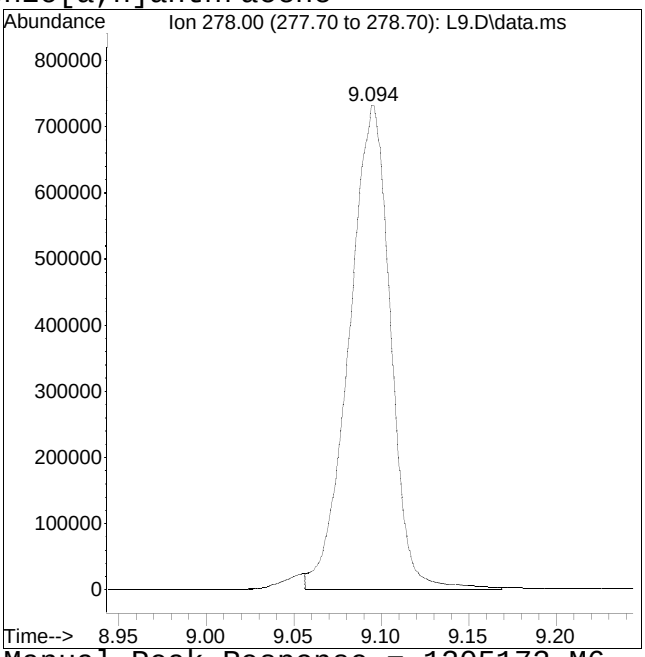
Manual Integration Report

Data Path : I:\8270SIM\sv119\241229RVTQMethod : SIM-RVT_241229_sv119.M
Data File : L9.D Operator : sv119:jjw
Date Inj'd : 12/29/2024 1:53 pm Instrument : SV119
Sample : IL9,32,, #10901 2500 ng/mlQuant Date : 12/31/2024 4:08 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 1224606



Manual Peak Response = 1205173 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L8.D
Acq On : 29 Dec 2024 02:10 pm
Operator : sv119:jjw
Sample : IL8,32,, #10888 1000 ng/ml
Misc : WG2015284,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 31 16:07:45 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\241229RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.348	152	305578	4000.000	ng/ml	0.00
Standard Area 1 = 305578			Recovery = 100.00%			
8) Naphthalene-d8	3.007	136	1146492	4000.000	ng/ml	0.00
Standard Area 1 = 1146492			Recovery = 100.00%			
17) Acenaphthene-d10	3.981	164	714823	4000.000	ng/ml	0.00
Standard Area 1 = 714823			Recovery = 100.00%			
22) Phenanthrene-d10	4.823	188	1521053	4000.000	ng/ml	0.00
Standard Area 1 = 1521053			Recovery = 100.00%			
31) Chrysene-d12	6.442	240	1553026	4000.000	ng/ml	0.00
Standard Area 1 = 1553026			Recovery = 100.00%			
36) Perylene-d12	7.747	264	1562574	4000.000	ng/ml	-0.02
Standard Area 1 = 1562574			Recovery = 100.00%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.754	112	82538	1008.085	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 50.40%			
3) Phenol-d6	2.149	99	104272	1020.363	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 51.02%			
7) Nitrobenzene-d5	2.624	82	98311	992.074	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 99.21%			
13) 2-Fluorobiphenyl	3.598	172	264373	945.654	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 94.57%			
21) 2,4,6-Tribromophenol	4.425	330	33279	1066.690	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 53.33%			
30) 4-Terphenyl-d14	5.762	244	364120	964.971	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 96.50%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.208	93	89000	943.577	ng/ml#	77
5) n-nitrosodi-n-propylamine	2.541	70	63954	1011.710	ng/ml	100
6) Hexachloroethane	2.605	117	38084	961.533	ng/ml	94
9) Naphthalene	3.018	128	300505	939.794	ng/ml	99
10) Hexachlorobutadiene	3.089	225	53732	954.870	ng/ml	100
11) 2-Methylnaphthalene	3.395	142	214708	960.879	ng/ml	98
12) 1-Methylnaphthalene	3.451	142	197962	962.169	ng/ml	98
14) 2-Chloronaphthalene	3.667	162	221813	961.155	ng/ml	98
15) 2,6-Dinitrotoluene	3.856	165	58451	1027.762	ng/ml#	91
16) Acenaphthylene	3.899	152	346408	969.269	ng/ml	100
18) Acenaphthene	3.997	153	230112	965.214	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L8.D
Acq On : 29 Dec 2024 02:10 pm
Operator : sv119:jjw
Sample : IL8,32,, #10888 1000 ng/ml
Misc : WG2015284,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 31 16:07:45 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:54 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\241229RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.083	165	79884	1053.352	ng/ml#	84
20) Fluorene	4.289	166	270902	989.033	ng/ml	97
23) 4,6-Dinitro-o-cresol	4.315	198	46279	928.938	ng/ml	98
24) Hexachlorobenzene	4.608	284	83312	929.216	ng/ml	90
25) Pentachlorophenol	4.716	266	44173	975.015	ng/ml	100
26) Phenanthrene	4.837	178	422591	950.213	ng/ml	99
27) Anthracene	4.864	178	429413	963.041	ng/ml	99
28) Fluoranthene	5.530	202	529706	952.014	ng/ml	97
29) Pyrene	5.667	202	546047	950.778	ng/ml	100
32) Benzo[a]anthracene	6.434	228	546693	993.722	ng/ml	99
33) 3,3'-Dichlorobenzidine	6.417	252	175197	900.458	ng/ml	99
34) Chrysene	6.462	228	512439	958.329	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.463	149	286862	1034.115	ng/ml	99
37) Benzo[b]fluoranthene	7.343	252	520748	1005.567	ng/ml	98
38) Benzo[k]fluoranthene	7.372	252	507018	992.819	ng/ml	98
39) Benzo[a]pyrene	7.676	252	450660	1025.574	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	9.052	276	444586	1045.067	ng/ml	93
41) Dibenzo[a,h]anthracene	9.089	278	424467M4	1075.558	ng/ml	
42) Benzo[g,h,i]perylene	9.414	276	415191	1025.415	ng/ml	93

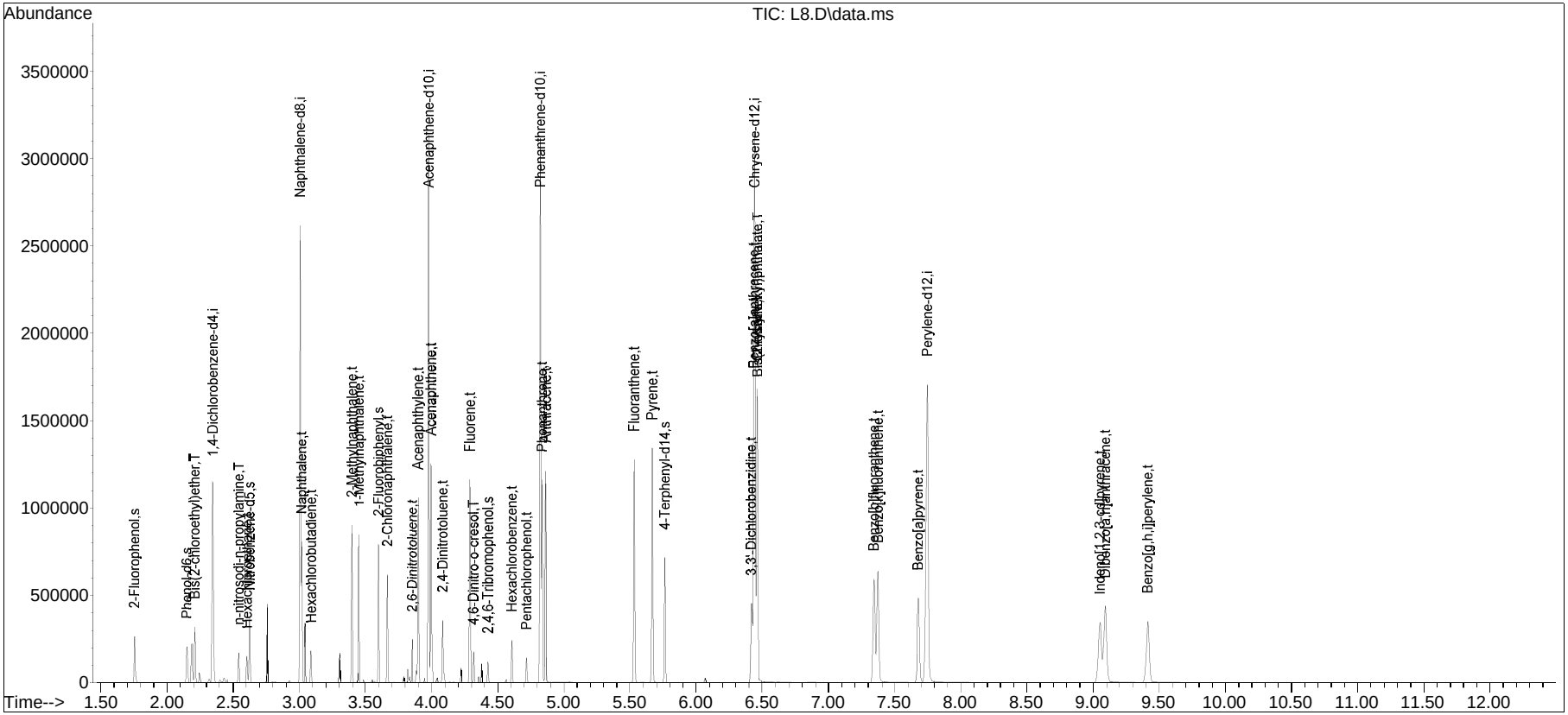
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L8.D
Acq On : 29 Dec 2024 02:10 pm
Operator : sv119:jjw
Sample : IL8,32,, #10888 1000 ng/ml
Misc : WG2015284,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 31 16:07:45 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:54 2024
Response via : Initial Calibration

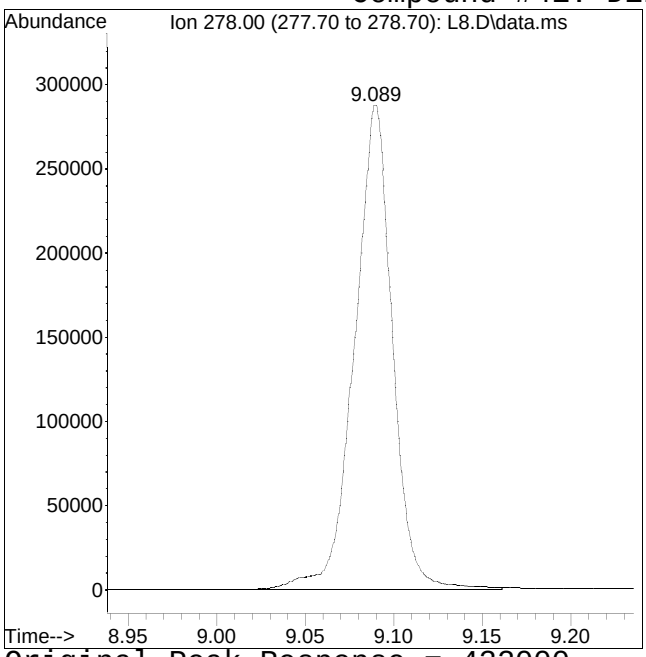
Sub List : Default - All compounds listedical\L8.D•



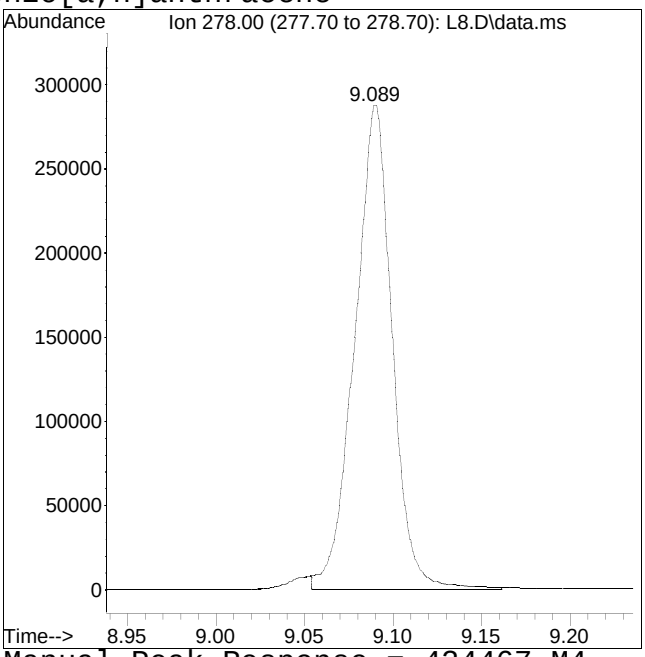
Manual Integration Report

Data Path : I:\8270SIM\sv119\241229RVTQMethod : SIM-RVT_241229_sv119.M
Data File : L8.D Operator : sv119:jjw
Date Inj'd : 12/29/2024 2:10 pm Instrument : SV119
Sample : IL8,32,, #10888 1000 ng/mlQuant Date : 12/31/2024 4:08 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 432000



Manual Peak Response = 424467 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L7.D
Acq On : 29 Dec 2024 02:27 pm
Operator : sv119:jjw
Sample : IL7,32,, #10889 500 ng/ml
Misc : WG2015284,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 31 16:07:40 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:49 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\241229RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.347	152	277700	4000.000	ng/ml	0.00
Standard Area 1 = 305578			Recovery = 90.88%			
8) Naphthalene-d8	3.009	136	1031350	4000.000	ng/ml	0.00
Standard Area 1 = 1146492			Recovery = 89.96%			
17) Acenaphthene-d10	3.981	164	642605	4000.000	ng/ml	0.00
Standard Area 1 = 714823			Recovery = 89.90%			
22) Phenanthrene-d10	4.823	188	1358701	4000.000	ng/ml	0.00
Standard Area 1 = 1521053			Recovery = 89.33%			
31) Chrysene-d12	6.441	240	1404741	4000.000	ng/ml	0.00
Standard Area 1 = 1553026			Recovery = 90.45%			
36) Perylene-d12	7.745	264	1401329	4000.000	ng/ml	0.00
Standard Area 1 = 1562574			Recovery = 89.68%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.751	112	36580	491.624	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 24.58%			
3) Phenol-d6	2.149	99	45744	492.569	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 24.63%			
7) Nitrobenzene-d5	2.624	82	44951	499.146	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 49.91%			
13) 2-Fluorobiphenyl	3.600	172	122309	486.338	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 48.63%			
21) 2,4,6-Tribromophenol	4.427	330	14481	516.322	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 25.82%			
30) 4-Terphenyl-d14	5.760	244	169972	504.275	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 50.43%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.208	93	41071	479.147	ng/ml#	77
5) n-nitrosodi-n-propylamine	2.543	70	28682	499.280	ng/ml	100
6) Hexachloroethane	2.607	117	17362	482.356	ng/ml	94
9) Naphthalene	3.018	128	138206	480.477	ng/ml	99
10) Hexachlorobutadiene	3.089	225	24705	488.047	ng/ml	100
11) 2-Methylnaphthalene	3.397	142	98129	488.183	ng/ml	97
12) 1-Methylnaphthalene	3.453	142	91083	492.121	ng/ml	98
14) 2-Chloronaphthalene	3.666	162	102077	491.699	ng/ml	98
15) 2,6-Dinitrotoluene	3.856	165	25755	503.416	ng/ml#	90
16) Acenaphthylene	3.901	152	157411	489.617	ng/ml	100
18) Acenaphthene	3.999	153	105015	489.993	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L7.D
Acq On : 29 Dec 2024 02:27 pm
Operator : sv119:jjw
Sample : IL7,32,, #10889 500 ng/ml
Misc : WG2015284,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 31 16:07:40 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:49 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\241229RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.085	165	34686	508.771	ng/ml#	91
20) Fluorene	4.289	166	122836	498.860	ng/ml	96
23) 4,6-Dinitro-o-cresol	4.315	198	18886	439.270	ng/ml	98
24) Hexachlorobenzene	4.608	284	38541	481.230	ng/ml	89
25) Pentachlorophenol	4.716	266	16039	405.437	ng/ml	100
26) Phenanthrene	4.836	178	194162	488.748	ng/ml	100
27) Anthracene	4.864	178	196722	493.904	ng/ml	99
28) Fluoranthene	5.530	202	243061	489.040	ng/ml	97
29) Pyrene	5.665	202	253172	493.498	ng/ml	100
32) Benzo[a]anthracene	6.433	228	255211	509.090	ng/ml	100
33) 3,3'-Dichlorobenzidine	6.415	252	72048	424.135	ng/ml	99
34) Chrysene	6.458	228	241633	499.587	ng/ml	99
35) Bis(2-ethylhexyl)phtha...	6.458	149	125474	500.071	ng/ml	100
37) Benzo[b]fluoranthene	7.339	252	237567	511.529	ng/ml	98
38) Benzo[k]fluoranthene	7.365	252	237883	519.410	ng/ml	98
39) Benzo[a]pyrene	7.671	252	204746	519.558	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	9.047	276	198795	521.068	ng/ml	93
41) Dibenzo[a,h]anthracene	9.084	278	193699M6	547.290	ng/ml	
42) Benzo[g,h,i]perylene	9.414	276	188750	519.803	ng/ml	93

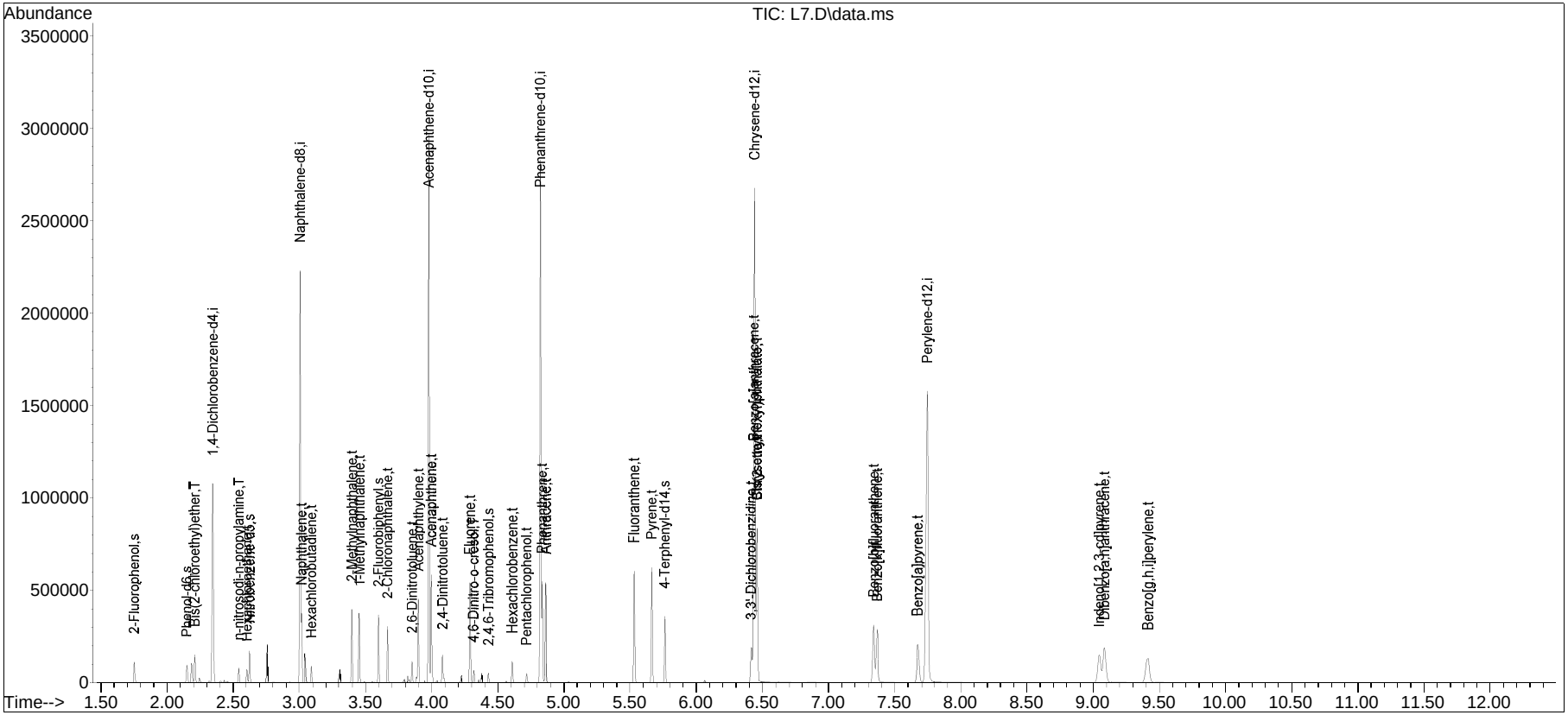
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L7.D
Acq On : 29 Dec 2024 02:27 pm
Operator : sv119:jjw
Sample : IL7,32,, #10889 500 ng/ml
Misc : WG2015284,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 31 16:07:40 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:49 2024
Response via : Initial Calibration

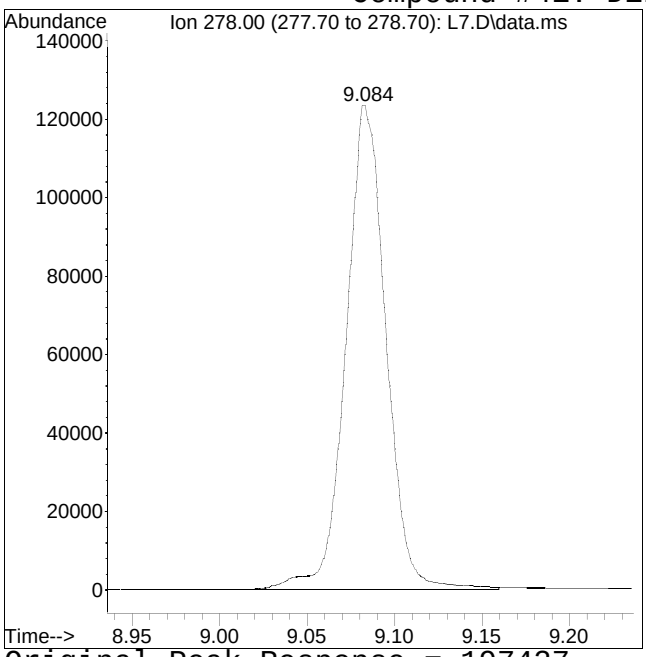
Sub List : Default - All compounds listedical\L8.D•



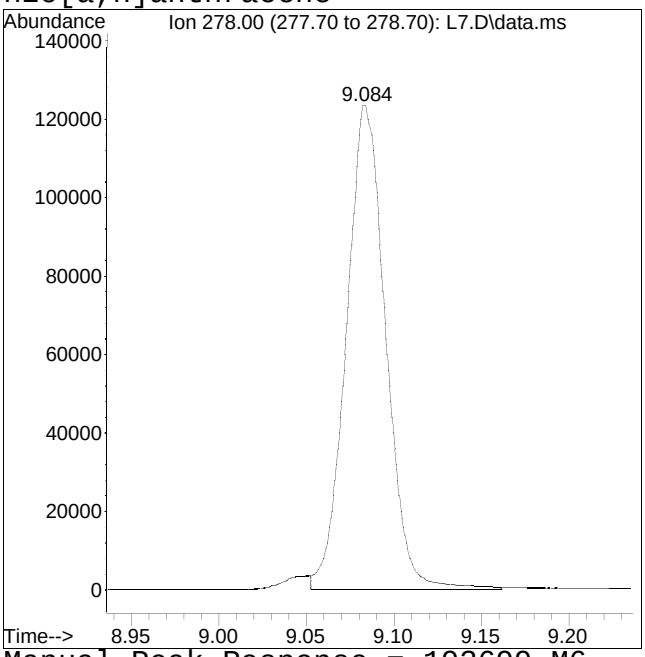
Manual Integration Report

Data Path : I:\8270SIM\sv119\241229RVTQMethod : SIM-RVT_241229_sv119.M
Data File : L7.D Operator : sv119:jjw
Date Inj'd : 12/29/2024 2:27 pm Instrument : SV119
Sample : IL7,32,, #10889 500 ng/ml Quant Date : 12/31/2024 4:08 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 197427



Manual Peak Response = 193699 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L6.D
Acq On : 29 Dec 2024 02:44 pm
Operator : sv119:jjw
Sample : IL6,32,, #11222 100 ng/ml
Misc : WG2015284,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 31 16:07:35 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:44 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\241229RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.349	152	348584	4000.000	ng/ml	0.00
Standard Area 1 = 305578			Recovery = 114.07%			
8) Naphthalene-d8	3.010	136	1262202	4000.000	ng/ml	0.00
Standard Area 1 = 1146492			Recovery = 110.09%			
17) Acenaphthene-d10	3.982	164	774717	4000.000	ng/ml	0.00
Standard Area 1 = 714823			Recovery = 108.38%			
22) Phenanthrene-d10	4.824	188	1624304	4000.000	ng/ml	0.00
Standard Area 1 = 1521053			Recovery = 106.79%			
31) Chrysene-d12	6.442	240	1715880	4000.000	ng/ml	0.00
Standard Area 1 = 1553026			Recovery = 110.49%			
36) Perylene-d12	7.746	264	1679771	4000.000	ng/ml	0.00
Standard Area 1 = 1562574			Recovery = 107.50%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.761	112	8463	90.611	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 4.53%#			
3) Phenol-d6	2.153	99	10183	87.353	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 4.37%#			
7) Nitrobenzene-d5	2.627	82	10026	88.692	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 8.87%#			
13) 2-Fluorobiphenyl	3.601	172	27683	89.944	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 8.99%#			
21) 2,4,6-Tribromophenol	4.426	330	2917	86.270	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 4.31%#			
30) 4-Terphenyl-d14	5.760	244	38387	95.264	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 9.53%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.212	93	9437	87.707	ng/ml#	77
5) n-nitrosodi-n-propylamine	2.546	70	6307	87.463	ng/ml	98
6) Hexachloroethane	2.608	117	3992	88.354	ng/ml	94
9) Naphthalene	3.021	128	31246	88.760	ng/ml	100
10) Hexachlorobutadiene	3.090	225	5602	90.427	ng/ml	99
11) 2-Methylnaphthalene	3.397	142	22197	90.231	ng/ml	98
12) 1-Methylnaphthalene	3.452	142	20577	90.843	ng/ml	98
14) 2-Chloronaphthalene	3.668	162	23306	91.731	ng/ml	98
15) 2,6-Dinitrotoluene	3.857	165	5395	86.166	ng/ml#	88
16) Acenaphthylene	3.900	152	35549	90.350	ng/ml	100
18) Acenaphthene	3.998	153	23490	90.912	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L6.D
Acq On : 29 Dec 2024 02:44 pm
Operator : sv119:jjw
Sample : IL6,32,, #11222 100 ng/ml
Misc : WG2015284,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 31 16:07:35 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:44 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\241229RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.084	165	6802	82.757	ng/ml#	87
20) Fluorene	4.290	166	27026	91.041	ng/ml	96
23) 4,6-Dinitro-o-cresol	4.314	198	3224	86.212	ng/ml	100
24) Hexachlorobenzene	4.609	284	8612	89.948	ng/ml	89
25) Pentachlorophenol	4.718	266	4120	82.571	ng/ml	100
26) Phenanthrene	4.836	178	43401M6	91.386	ng/ml	
27) Anthracene	4.866	178	43275	90.883	ng/ml	99
28) Fluoranthene	5.529	202	53550	90.125	ng/ml	97
29) Pyrene	5.666	202	55647	90.734	ng/ml	99
32) Benzo[a]anthracene	6.434	228	58816	89.720	ng/ml	99
33) 3,3'-Dichlorobenzidine	6.413	252	13432	87.639	ng/ml	99
34) Chrysene	6.457	228	53579	90.690	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.456	149	23895	77.964	ng/ml	98
37) Benzo[b]fluoranthene	7.339	252	49075	88.152	ng/ml	100
38) Benzo[k]fluoranthene	7.363	252	50767	92.474	ng/ml	96
39) Benzo[a]pyrene	7.672	252	41958	88.823	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	9.043	276	40027	87.525	ng/ml	93
41) Dibenzo[a,h]anthracene	9.081	278	39005M6	91.939	ng/ml	
42) Benzo[g,h,i]perylene	9.404	276	39026	89.659	ng/ml	93

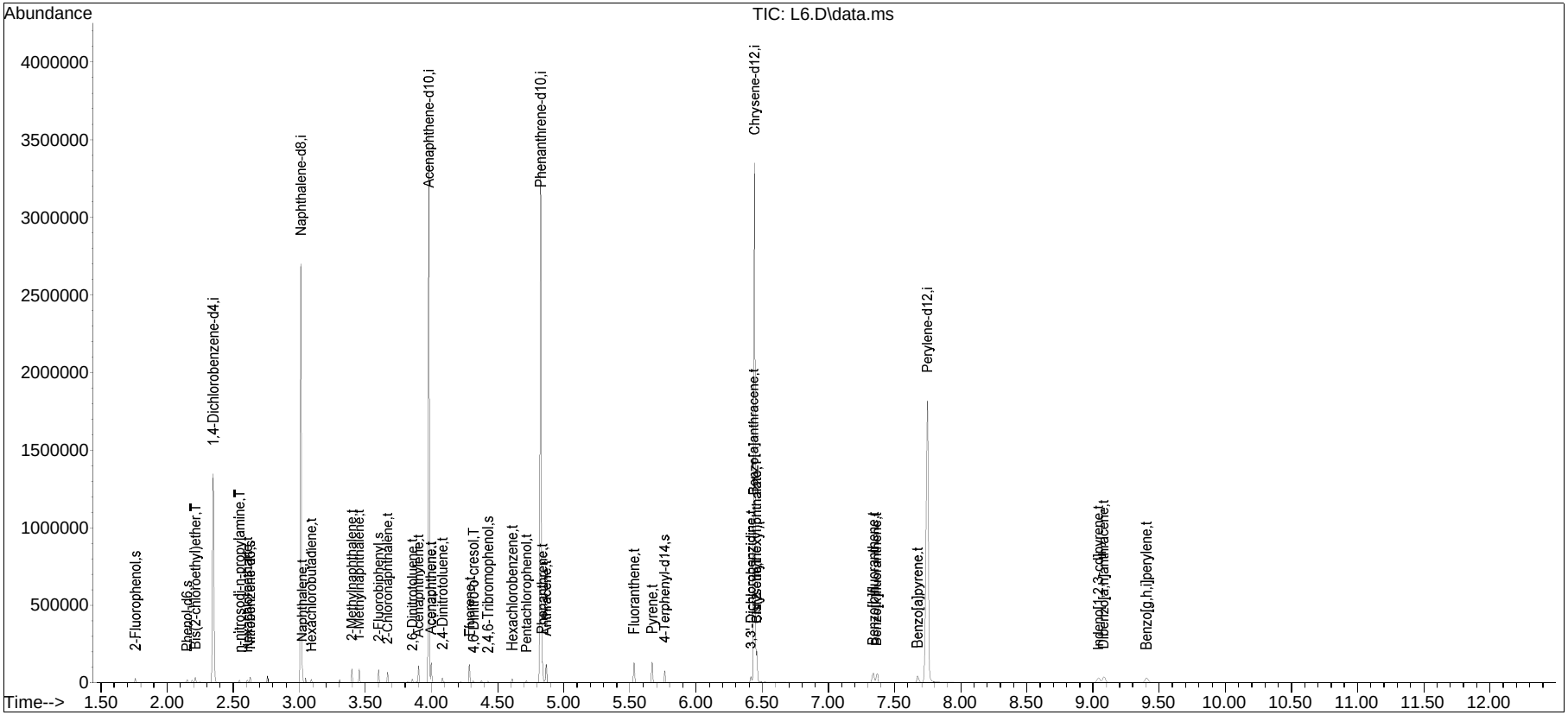
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L6.D
Acq On : 29 Dec 2024 02:44 pm
Operator : sv119:jjw
Sample : IL6,32,, #11222 100 ng/ml
Misc : WG2015284,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 31 16:07:35 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:44 2024
Response via : Initial Calibration

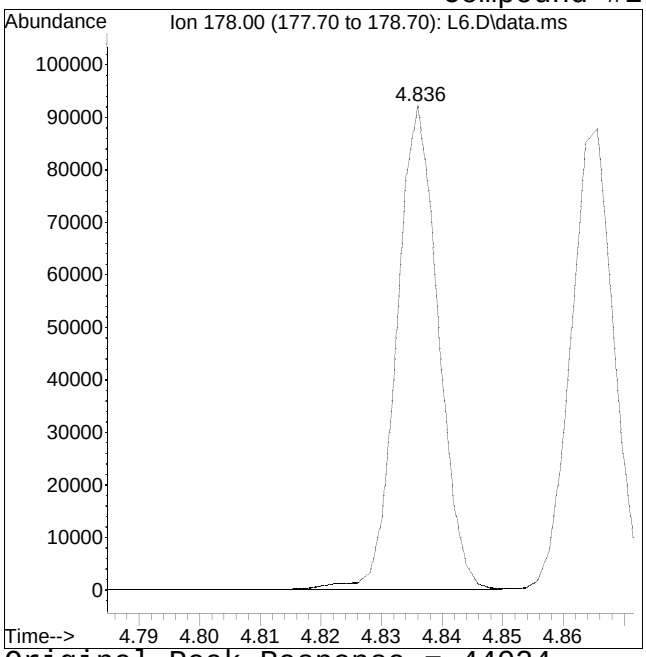
Sub List : Default - All compounds listedical\L8.D•



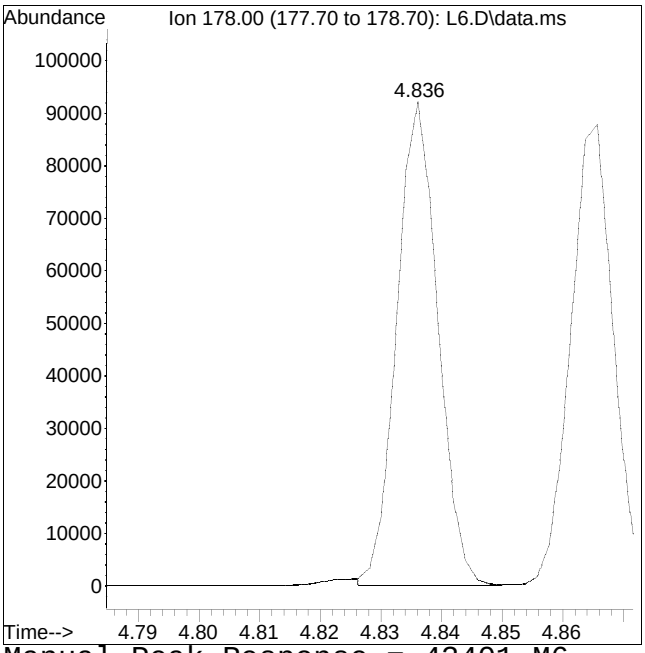
Manual Integration Report

Data Path : I:\8270SIM\sv119\241229RVTQMethod : SIM-RVT_241229_sv119.M
Data File : L6.D Operator : sv119:jjw
Date Inj'd : 12/29/2024 2:44 pm Instrument : SV119
Sample : IL6,32,, #11222 100 ng/ml Quant Date : 12/31/2024 4:08 pm

Compound #26: Phenanthrene



Original Peak Response = 44024



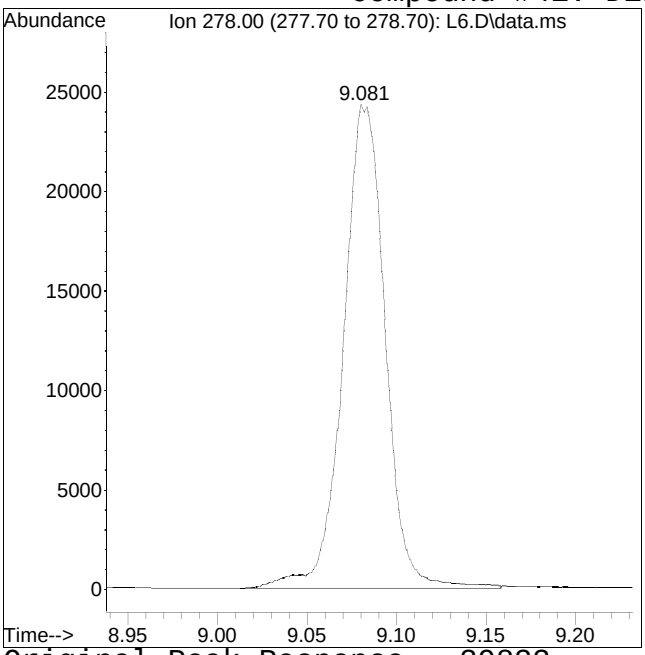
Manual Peak Response = 43401 M6

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

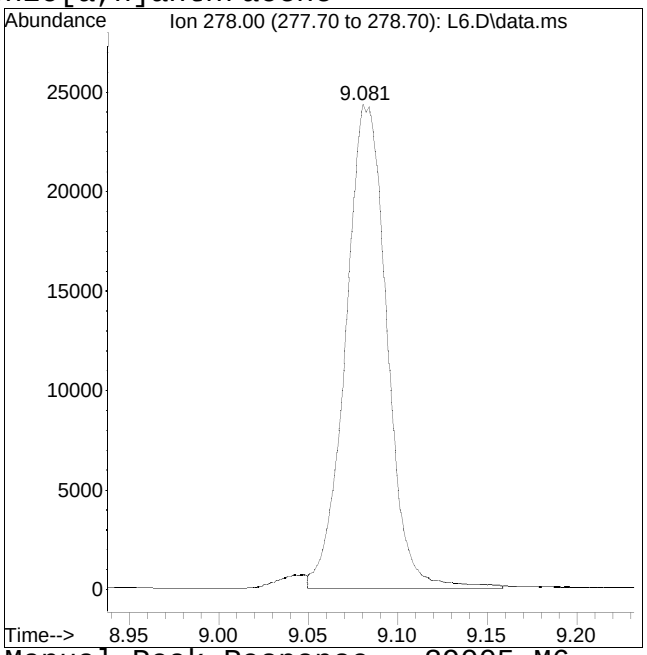
Manual Integration Report

Data Path : I:\8270SIM\sv119\241229RVTQMethod : SIM-RVT_241229_sv119.M
Data File : L6.D Operator : sv119:jjw
Date Inj'd : 12/29/2024 2:44 pm Instrument : SV119
Sample : IL6,32,, #11222 100 ng/ml Quant Date : 12/31/2024 4:08 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 39833



Manual Peak Response = 39005 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L5.D
Acq On : 29 Dec 2024 03:01 pm
Operator : sv119:jjw
Sample : IL5,32,, #10891 40 ng/ml
Misc : WG2015284,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 31 16:07:30 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\241229RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.349	152	371978	4000.000	ng/ml	0.00
Standard Area 1 = 305578			Recovery = 121.73%			
8) Naphthalene-d8	3.010	136	1361124	4000.000	ng/ml	0.00
Standard Area 1 = 1146492			Recovery = 118.72%			
17) Acenaphthene-d10	3.982	164	850825	4000.000	ng/ml	0.00
Standard Area 1 = 714823			Recovery = 119.03%			
22) Phenanthrene-d10	4.824	188	1815883	4000.000	ng/ml	0.00
Standard Area 1 = 1521053			Recovery = 119.38%			
31) Chrysene-d12	6.439	240	1971843	4000.000	ng/ml	0.00
Standard Area 1 = 1553026			Recovery = 126.97%			
36) Perylene-d12	7.743	264	1883991	4000.000	ng/ml	0.00
Standard Area 1 = 1562574			Recovery = 120.57%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.762	112	3960	39.732	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 1.99%#			
3) Phenol-d6	2.153	99	4868	39.133	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 1.96%#			
7) Nitrobenzene-d5	2.627	82	4930	40.869	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 4.09%#			
13) 2-Fluorobiphenyl	3.601	172	13741	41.401	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 4.14%#			
21) 2,4,6-Tribromophenol	4.426	330	1339	36.058	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 1.80%#			
30) 4-Terphenyl-d14	5.760	244	19393	43.050	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 4.30%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.212	93	5775	50.297	ng/ml	99
5) n-nitrosodi-n-propylamine	2.546	70	3022	39.272	ng/ml	100
6) Hexachloroethane	2.608	117	1928	39.988	ng/ml	93
9) Naphthalene	3.021	128	15283	40.259	ng/ml	100
10) Hexachlorobutadiene	3.090	225	2730	40.865	ng/ml	99
11) 2-Methylnaphthalene	3.398	142	10887	41.039	ng/ml	98
12) 1-Methylnaphthalene	3.452	142	10053	41.157	ng/ml	98
14) 2-Chloronaphthalene	3.668	162	11392	41.580	ng/ml	98
15) 2,6-Dinitrotoluene	3.857	165	2603	38.552	ng/ml#	87
16) Acenaphthylene	3.900	152	17461	41.153	ng/ml	100
18) Acenaphthene	4.000	153	11585	40.826	ng/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L5.D
Acq On : 29 Dec 2024 03:01 pm
Operator : sv119:jjw
Sample : IL5,32,, #10891 40 ng/ml
Misc : WG2015284,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 31 16:07:30 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\241229RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.084	165	3137	34.753	ng/ml#	84
20) Fluorene	4.290	166	13325	40.872	ng/ml	96
23) 4,6-Dinitro-o-cresol	4.316	198	1502	51.908	ng/ml	97
24) Hexachlorobenzene	4.609	284	4349	40.631	ng/ml	89
25) Pentachlorophenol	4.718	266	2504	41.336	ng/ml	99
26) Phenanthrene	4.836	178	21799M6	41.058	ng/ml	
27) Anthracene	4.866	178	21558	40.498	ng/ml	99
28) Fluoranthene	5.529	202	27023	40.682	ng/ml	97
29) Pyrene	5.664	202	28030	40.882	ng/ml	99
32) Benzo[a]anthracene	6.430	228	33056	39.893	ng/ml	97
33) 3,3'-Dichlorobenzidine	6.411	252	6647	53.130	ng/ml	99
34) Chrysene	6.455	228	26991	39.756	ng/ml	99
35) Bis(2-ethylhexyl)phtha...	6.455	149	12116	34.400	ng/ml	98
37) Benzo[b]fluoranthene	7.334	252	24381	39.048	ng/ml	98
38) Benzo[k]fluoranthene	7.360	252	24703	40.120	ng/ml	98
39) Benzo[a]pyrene	7.669	252	20397	38.499	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	9.037	276	19225	37.481	ng/ml	94
41) Dibenzo[a,h]anthracene	9.077	278	18024	37.879	ng/ml	92
42) Benzo[g,h,i]perylene	9.404	276	18496	37.887	ng/ml	93

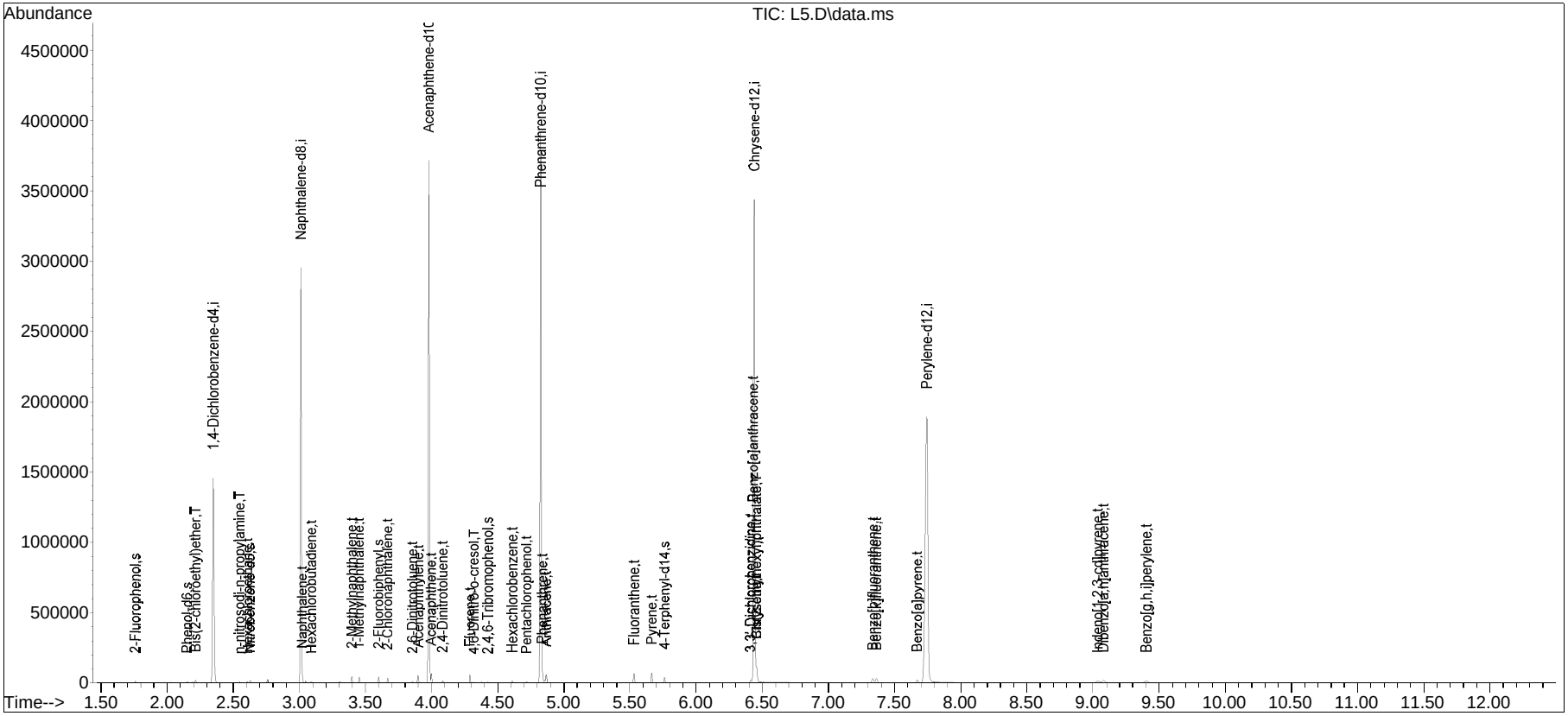
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L5.D
Acq On : 29 Dec 2024 03:01 pm
Operator : sv119:jjw
Sample : IL5,32,, #10891 40 ng/ml
Misc : WG2015284,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 31 16:07:30 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:39 2024
Response via : Initial Calibration

Sub List : Default - All compounds listedical\L8.D•

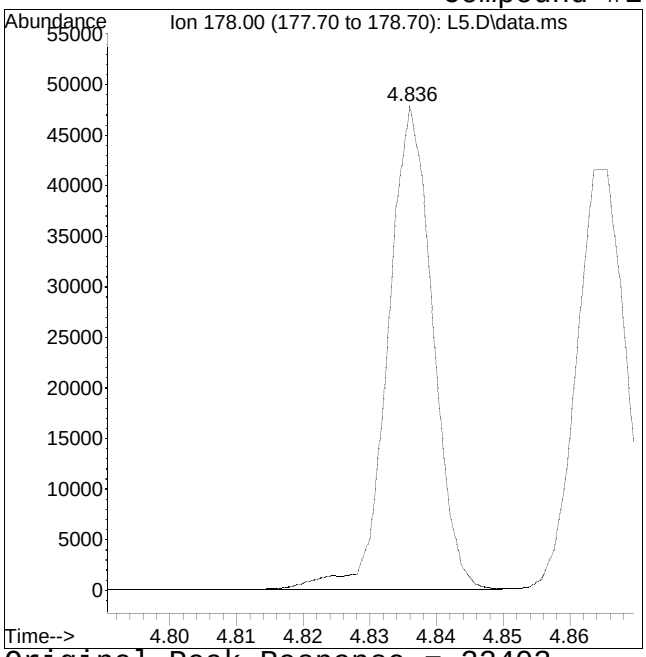


Manual Integration Report

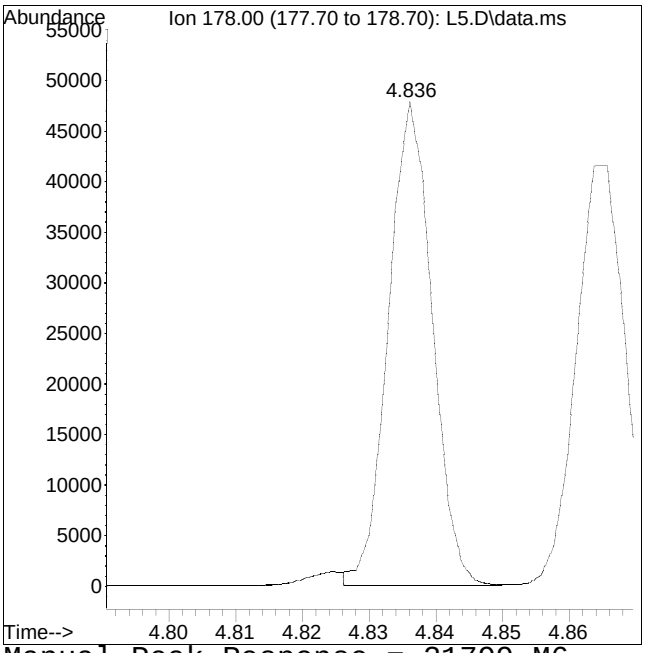
Data Path : I:\8270SIM\sv119\241229RVTQ
Data File : L5.D
Date Inj'd : 12/29/2024 3:01 pm
Sample : IL5,32,, #10891 40 ng/ml

Method : SIM-RVT_241229_sv119.M
Operator : sv119:jjw
Instrument : SV119
Quant Date : 12/31/2024 4:08 pm

Compound #26: Phenanthrene



Original Peak Response = 22403



Manual Peak Response = 21799 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L4.D
Acq On : 29 Dec 2024 03:18 pm
Operator : sv119:jjw
Sample : IL4,32,, #10892 10 ng/ml
Misc : WG2015284,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 31 16:07:24 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:34 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\241229RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.347	152	370999	4000.000	ng/ml	0.00
Standard Area 1 = 305578			Recovery = 121.41%			
8) Naphthalene-d8	3.011	136	1351451	4000.000	ng/ml	0.00
Standard Area 1 = 1146492			Recovery = 117.88%			
17) Acenaphthene-d10	3.983	164	838484	4000.000	ng/ml	0.00
Standard Area 1 = 714823			Recovery = 117.30%			
22) Phenanthrene-d10	4.825	188	1741192	4000.000	ng/ml	0.00
Standard Area 1 = 1521053			Recovery = 114.47%			
31) Chrysene-d12	6.437	240	1850107	4000.000	ng/ml	0.00
Standard Area 1 = 1553026			Recovery = 119.13%			
36) Perylene-d12	7.743	264	1793742	4000.000	ng/ml	0.00
Standard Area 1 = 1562574			Recovery = 114.79%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.761	112	974	9.798	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.49%#			
3) Phenol-d6	2.152	99	1209	9.745	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.49%#			
7) Nitrobenzene-d5	2.628	82	1197	9.949	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.99%#			
13) 2-Fluorobiphenyl	3.602	172	3346	10.153	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 1.02%#			
21) 2,4,6-Tribromophenol	4.425	330	305	8.334	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.42%#			
30) 4-Terphenyl-d14	5.759	244	4386	10.154	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 1.02%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.213	93	1174	10.252	ng/ml#	79
5) n-nitrosodi-n-propylamine	2.547	70	773	10.072	ng/ml	99
6) Hexachloroethane	2.608	117	484	10.065	ng/ml	92
9) Naphthalene	3.020	128	3813	10.116	ng/ml	99
10) Hexachlorobutadiene	3.091	225	683	10.297	ng/ml	99
11) 2-Methylnaphthalene	3.398	142	2645	10.042	ng/ml	98
12) 1-Methylnaphthalene	3.453	142	2455	10.123	ng/ml	97
14) 2-Chloronaphthalene	3.669	162	2786	10.241	ng/ml	97
15) 2,6-Dinitrotoluene	3.856	165	657	9.800	ng/ml	91
16) Acenaphthylene	3.901	152	4223	10.024	ng/ml	99
18) Acenaphthene	3.999	153	2795	9.995	ng/ml	91

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L4.D
Acq On : 29 Dec 2024 03:18 pm
Operator : sv119:jjw
Sample : IL4,32,, #10892 10 ng/ml
Misc : WG2015284,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 31 16:07:24 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:34 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\241229RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.085	165	725	8.150	ng/ml#	85
20) Fluorene	4.291	166	3148	9.798	ng/ml	95
23) 4,6-Dinitro-o-cresol	4.317	198	263	31.874	ng/ml	99
24) Hexachlorobenzene	4.608	284	1045	10.182	ng/ml	90
25) Pentachlorophenol	4.718	266	1018	12.918	ng/ml	95
26) Phenanthrene	4.837	178	5063	9.945	ng/ml	98
27) Anthracene	4.864	178	5037	9.868	ng/ml	99
28) Fluoranthene	5.528	202	6189	9.717	ng/ml	98
29) Pyrene	5.663	202	6449	9.809	ng/ml	99
32) Benzo[a]anthracene	6.432	228	11427	9.770	ng/ml#	89
33) 3,3'-Dichlorobenzidine	6.410	252	1506	33.333	ng/ml	99
34) Chrysene	6.453	228	6339	9.951	ng/ml	98
35) Bis(2-ethylhexyl)phtha...	6.454	149	2705	8.185	ng/ml	100
37) Benzo[b]fluoranthene	7.331	252	5732	9.642	ng/ml	98
38) Benzo[k]fluoranthene	7.360	252	5454	9.303	ng/ml	98
39) Benzo[a]pyrene	7.669	252	4705	9.327	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	9.035	276	4520	9.256	ng/ml	95
41) Dibenzo[a,h]anthracene	9.078	278	4132	9.121	ng/ml	93
42) Benzo[g,h,i]perylene	9.402	276	4376	9.415	ng/ml	93

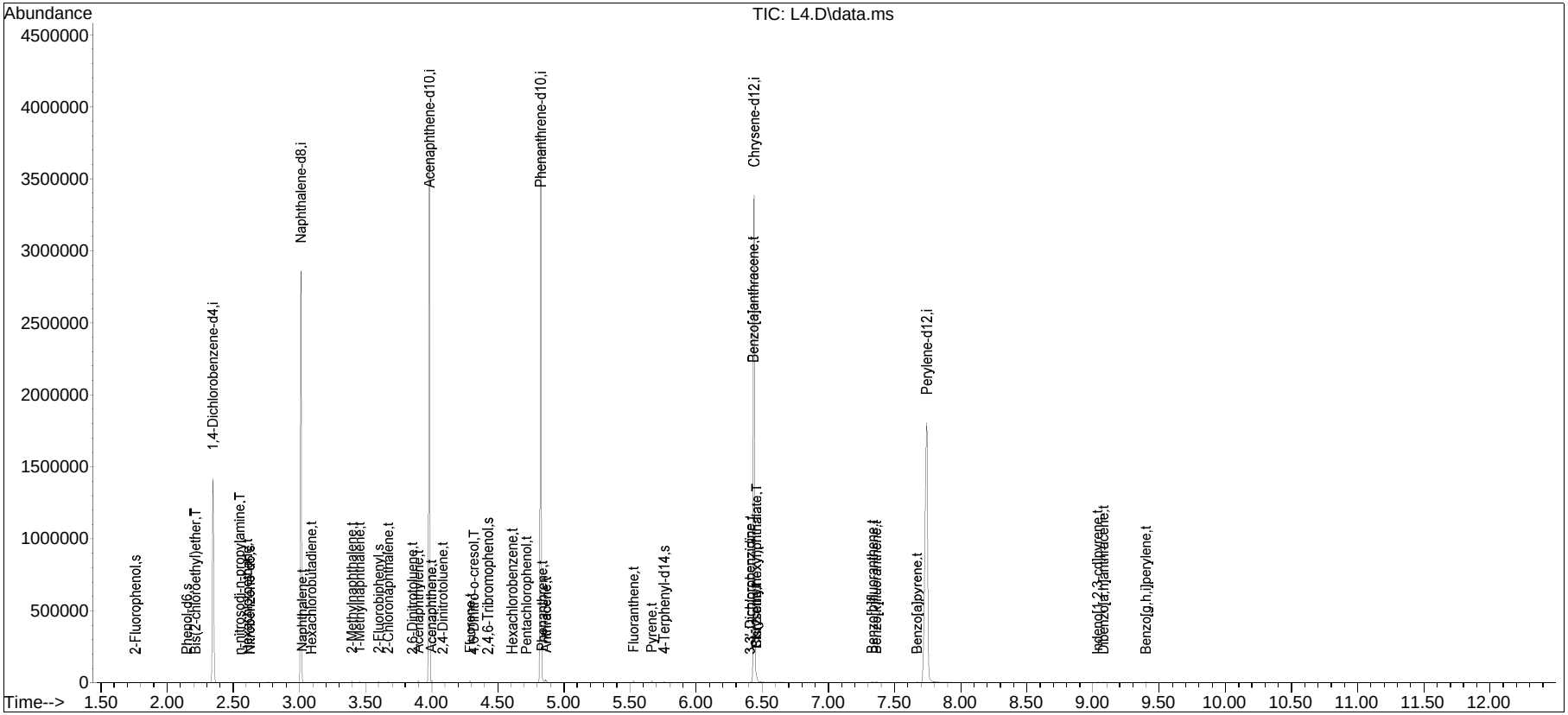
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L4.D
Acq On : 29 Dec 2024 03:18 pm
Operator : sv119:jjw
Sample : IL4,32,, #10892 10 ng/ml
Misc : WG2015284,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 31 16:07:24 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:34 2024
Response via : Initial Calibration

Sub List : Default - All compounds listedical\L8.D•



Manual Integration Report

Data Path	: I:\8270SIM\sv119\241229RVTQ	Method	: SIM-RVT_241229_sv119.M
Data File	: L4.D	Operator	: sv119:jjw
Date Inj'd	: 12/29/2024 3:18 pm	Instrument	: SV119
Sample	: IL4,32,, #10892 10 ng/ml	Quant Date	: 12/31/2024 4:08 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L3.D
Acq On : 29 Dec 2024 03:35 pm
Operator : sv119:jjw
Sample : IL3,32,, #10893 5 ng/ml
Misc : WG2015284,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 31 16:10:32 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\241229RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.349	152	381992	4000.000	ng/ml	0.00
Standard Area 1 = 305578			Recovery = 125.01%			
8) Naphthalene-d8	3.010	136	1374019	4000.000	ng/ml	0.00
Standard Area 1 = 1146492			Recovery = 119.85%			
17) Acenaphthene-d10	3.982	164	845214	4000.000	ng/ml	0.00
Standard Area 1 = 714823			Recovery = 118.24%			
22) Phenanthrene-d10	4.824	188	1771374	4000.000	ng/ml	0.00
Standard Area 1 = 1521053			Recovery = 116.46%			
31) Chrysene-d12	6.438	240	1918872	4000.000	ng/ml	0.00
Standard Area 1 = 1553026			Recovery = 123.56%			
36) Perylene-d12	7.741	264	1850785	4000.000	ng/ml	0.00
Standard Area 1 = 1562574			Recovery = 118.44%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.762	112	501	4.895	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.24%#			
3) Phenol-d6	2.153	99	617	4.830	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.24%#			
7) Nitrobenzene-d5	2.629	82	636	5.134	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.51%#			
13) 2-Fluorobiphenyl	3.601	172	1692	5.050	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.51%#			
21) 2,4,6-Tribromophenol	4.426	330	165	4.473	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.22%#			
30) 4-Terphenyl-d14	5.758	244	2294	5.220	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.52%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.212	93	624	5.292	ng/ml	85
5) n-nitrosodi-n-propylamine	2.548	70	386	4.885	ng/ml	100
6) Hexachloroethane	2.610	117	245	4.948	ng/ml	92
9) Naphthalene	3.021	128	1938	5.057	ng/ml	97
10) Hexachlorobutadiene	3.090	225	353	5.234	ng/ml	98
11) 2-Methylnaphthalene	3.398	142	1337	4.993	ng/ml	96
12) 1-Methylnaphthalene	3.454	142	1237	5.017	ng/ml	97
14) 2-Chloronaphthalene	3.668	162	1396	5.047	ng/ml	97
15) 2,6-Dinitrotoluene	3.857	165	353	5.179	ng/ml	95
16) Acenaphthylene	3.900	152	2146	5.010	ng/ml	99
18) Acenaphthene	4.000	153	1432	5.080	ng/ml	91

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L3.D
Acq On : 29 Dec 2024 03:35 pm
Operator : sv119:jjw
Sample : IL3,32,, #10893 5 ng/ml
Misc : WG2015284,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 31 16:10:32 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\241229RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.084	165	370	4.126	ng/ml#	86
20) Fluorene	4.290	166	1579	4.875	ng/ml	93
23) 4,6-Dinitro-o-cresol	4.319	198	103M7	29.122	ng/ml	
24) Hexachlorobenzene	4.607	284	528	5.057	ng/ml	92
25) Pentachlorophenol	4.718	266	755	7.237	ng/ml	98
26) Phenanthrene	4.836	178	2595M7	5.010	ng/ml	
27) Anthracene	4.864	178	2580	4.968	ng/ml	99
28) Fluoranthene	5.527	202	3205	4.946	ng/ml	96
29) Pyrene	5.664	202	3335	4.986	ng/ml	100
32) Benzo[a]anthracene	6.436	228	8508	4.812	ng/ml#	84
33) 3,3'-Dichlorobenzidine	6.410	252	822	30.347	ng/ml	98
34) Chrysene	6.454	228	3307	5.005	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.454	149	1563	4.560	ng/ml	96
37) Benzo[b]fluoranthene	7.332	252	3017	4.919	ng/ml	97
38) Benzo[k]fluoranthene	7.358	252	2800	4.629	ng/ml	98
39) Benzo[a]pyrene	7.667	252	2428	4.665	ng/ml	98
40) Indeno[1,2,3-cd]pyrene	9.037	276	2345	4.654	ng/ml	93
41) Dibenzo[a,h]anthracene	9.075	278	2106	4.505	ng/ml#	91
42) Benzo[g,h,i]perylene	9.400	276	2235	4.660	ng/ml	94

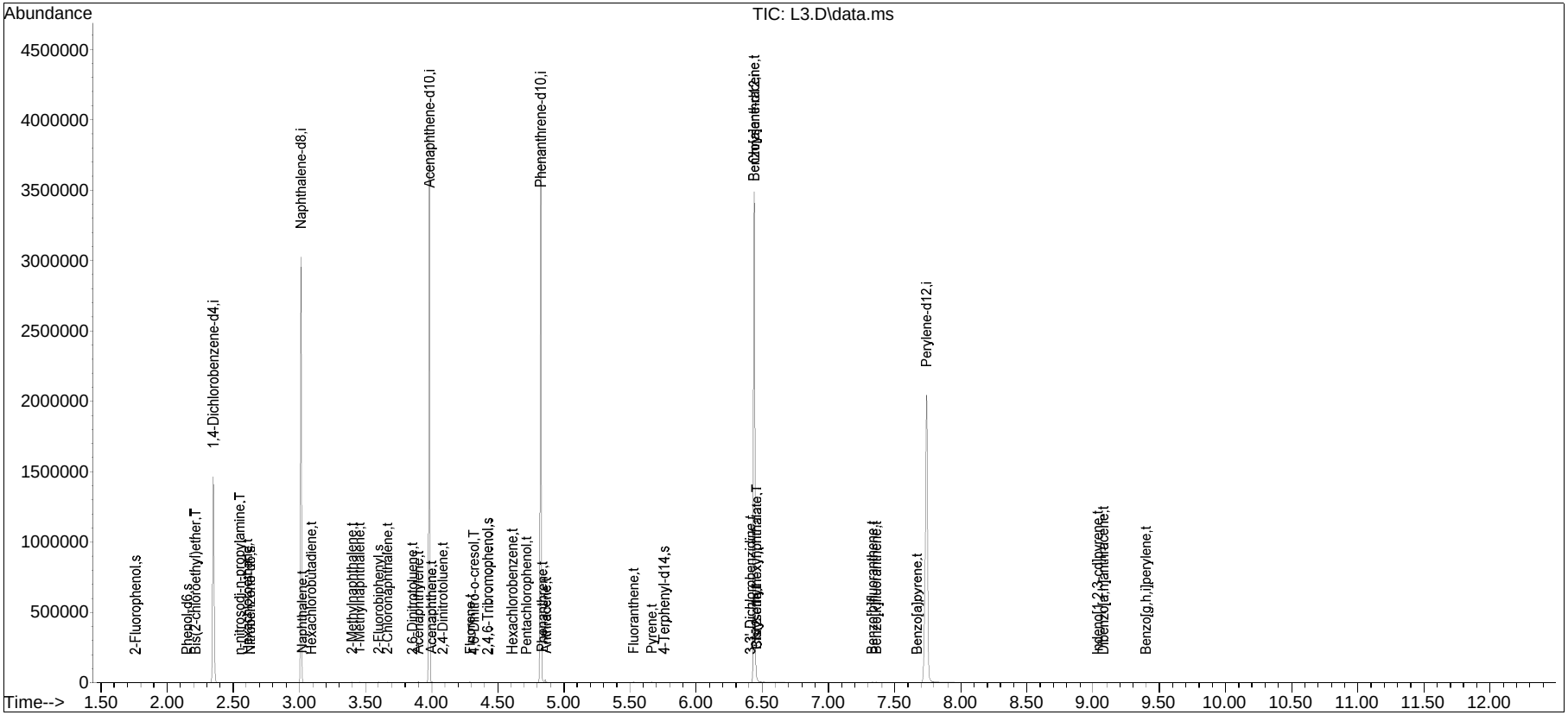
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L3.D
Acq On : 29 Dec 2024 03:35 pm
Operator : sv119:jjw
Sample : IL3,32,, #10893 5 ng/ml
Misc : WG2015284,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 31 16:10:32 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:29 2024
Response via : Initial Calibration

Sub List : Default - All compounds listedical\L8.D•

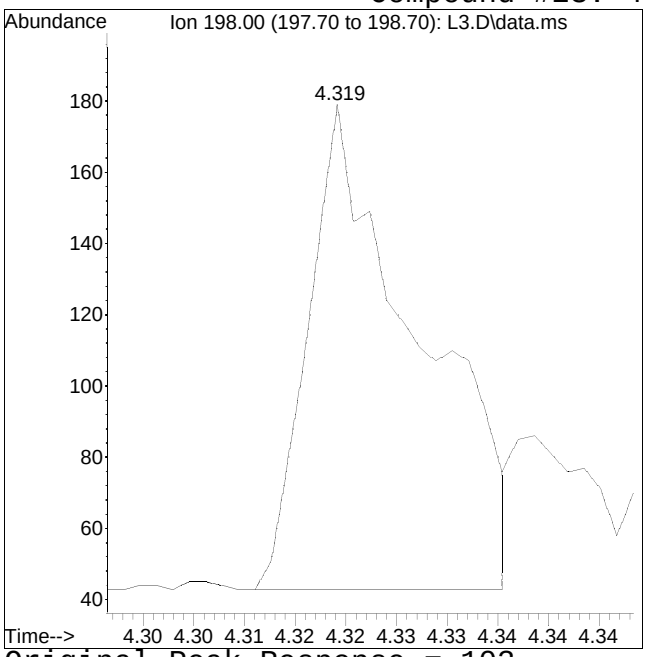


Manual Integration Report

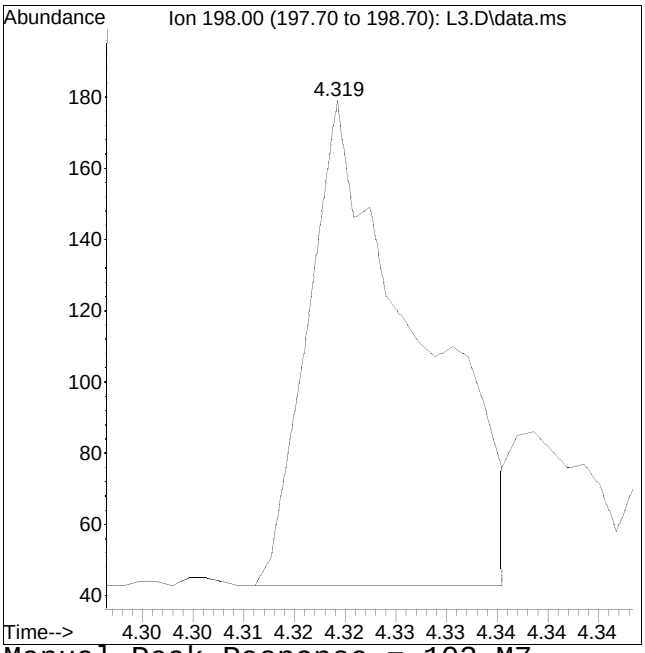
Data Path : I:\8270SIM\sv119\241229RVTQ
Data File : L3.D
Date Inj'd : 12/29/2024 3:35 pm
Sample : IL3,32,, #10893 5 ng/ml

Method : SIM-RVT_241229_sv119.M
Operator : sv119:jjw
Instrument : SV119
Quant Date : 12/31/2024 4:08 pm

Compound #23: 4,6-Dinitro-o-cresol



Original Peak Response = 103



Manual Peak Response = 103 M7

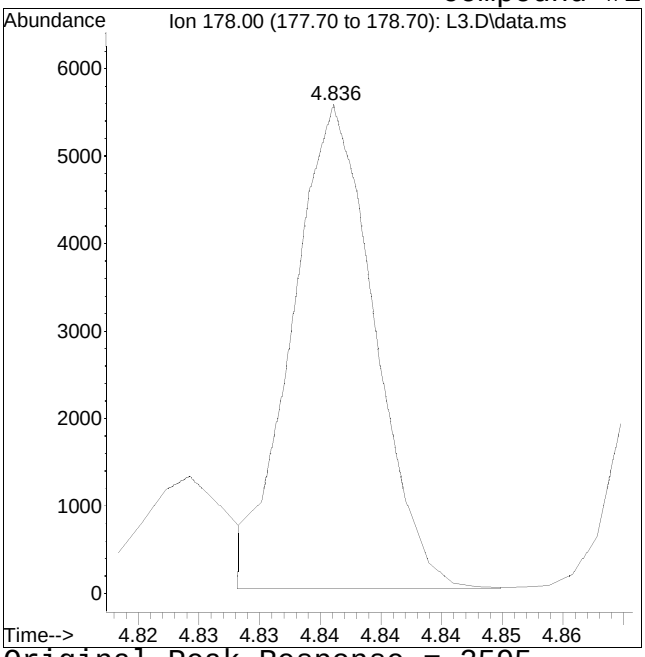
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

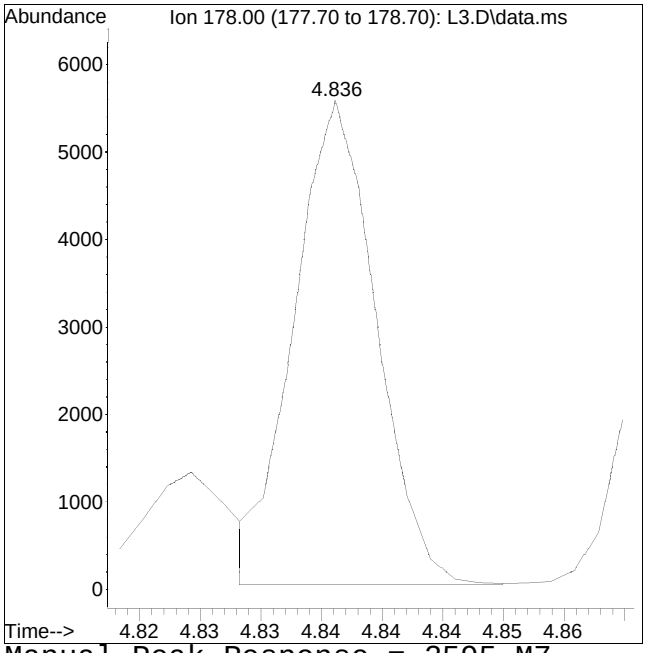
Data Path : I:\8270SIM\sv119\241229RVTQ
Data File : L3.D
Date Inj'd : 12/29/2024 3:35 pm
Sample : IL3,32,, #10893 5 ng/ml

Method : SIM-RVT_241229_sv119.M
Operator : sv119:jjw
Instrument : SV119
Quant Date : 12/31/2024 4:08 pm

Compound #26: Phenanthrene



Original Peak Response = 2595



Manual Peak Response = 2595 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L2.D
Acq On : 29 Dec 2024 03:52 pm
Operator : sv119:jjw
Sample : IL2,32,, #10900 2 ng/ml
Misc : WG2015284,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 31 16:10:02 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:24 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\241229RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.348	152	375319	4000.000	ng/ml	0.00
Standard Area 1 = 305578			Recovery = 122.82%			
8) Naphthalene-d8	3.010	136	1365787	4000.000	ng/ml	0.00
Standard Area 1 = 1146492			Recovery = 119.13%			
17) Acenaphthene-d10	3.982	164	847104	4000.000	ng/ml	0.00
Standard Area 1 = 714823			Recovery = 118.51%			
22) Phenanthrene-d10	4.824	188	1774123	4000.000	ng/ml	0.00
Standard Area 1 = 1521053			Recovery = 116.64%			
31) Chrysene-d12	6.435	240	1906045	4000.000	ng/ml	0.00
Standard Area 1 = 1553026			Recovery = 122.73%			
36) Perylene-d12	7.741	264	1822819	4000.000	ng/ml	0.00
Standard Area 1 = 1562574			Recovery = 116.65%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.761	112	224	2.227	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.11%#			
3) Phenol-d6	2.153	99	281	2.239	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.11%#			
7) Nitrobenzene-d5	2.629	82	259	2.128	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.21%#			
13) 2-Fluorobiphenyl	3.603	172	789	2.369	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.24%#			
21) 2,4,6-Tribromophenol	4.428	330	84	2.272	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.11%#			
30) 4-Terphenyl-d14	5.758	244	1081	2.456	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.25%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.214	93	2762	23.841	ng/ml#	25
5) n-nitrosodi-n-propylamine	2.548	70	157M7	2.022	ng/ml	
6) Hexachloroethane	2.610	117	123	2.528	ng/ml	94
9) Naphthalene	3.021	128	960M6	2.520	ng/ml	
10) Hexachlorobutadiene	3.092	225	157	2.342	ng/ml	94
11) 2-Methylnaphthalene	3.398	142	624	2.344	ng/ml	96
12) 1-Methylnaphthalene	3.454	142	566	2.309	ng/ml	97
14) 2-Chloronaphthalene	3.669	162	643	2.339	ng/ml	95
15) 2,6-Dinitrotoluene	3.857	165	186	2.745	ng/ml	95
16) Acenaphthylene	3.902	152	1005	2.361	ng/ml	97
18) Acenaphthene	4.000	153	648	2.294	ng/ml	92

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L2.D
Acq On : 29 Dec 2024 03:52 pm
Operator : sv119:jjw
Sample : IL2,32,, #10900 2 ng/ml
Misc : WG2015284,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 31 16:10:02 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:24 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\241229RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.086	165	189	2.103	ng/ml#	91
20) Fluorene	4.290	166	745	2.295	ng/ml	96
23) 4,6-Dinitro-o-cresol	4.321	198	52M7	28.267	ng/ml	
24) Hexachlorobenzene	4.609	284	256	2.448	ng/ml	90
25) Pentachlorophenol	4.720	266	642	4.929	ng/ml	100
26) Phenanthrene	4.836	178	1221M7	2.354	ng/ml	
27) Anthracene	4.866	178	1209	2.325	ng/ml	98
28) Fluoranthene	5.529	202	1514	2.333	ng/ml	99
29) Pyrene	5.664	202	1542	2.302	ng/ml	98
32) Benzo[a]anthracene	6.435	228	6756	2.282	ng/ml#	80
33) 3,3'-Dichlorobenzidine	6.410	252	432M7	28.785	ng/ml	
34) Chrysene	6.451	228	1516	2.310	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.455	149	972	2.855	ng/ml	98
37) Benzo[b]fluoranthene	7.327	252	1361	2.253	ng/ml	100
38) Benzo[k]fluoranthene	7.360	252	1313	2.204	ng/ml	96
39) Benzo[a]pyrene	7.667	252	1113	2.171	ng/ml	97
40) Indeno[1,2,3-cd]pyrene	9.034	276	1066	2.148	ng/ml	93
41) Dibenzo[a,h]anthracene	9.079	278	936	2.033	ng/ml	96
42) Benzo[g,h,i]perylene	9.402	276	1010	2.138	ng/ml	96

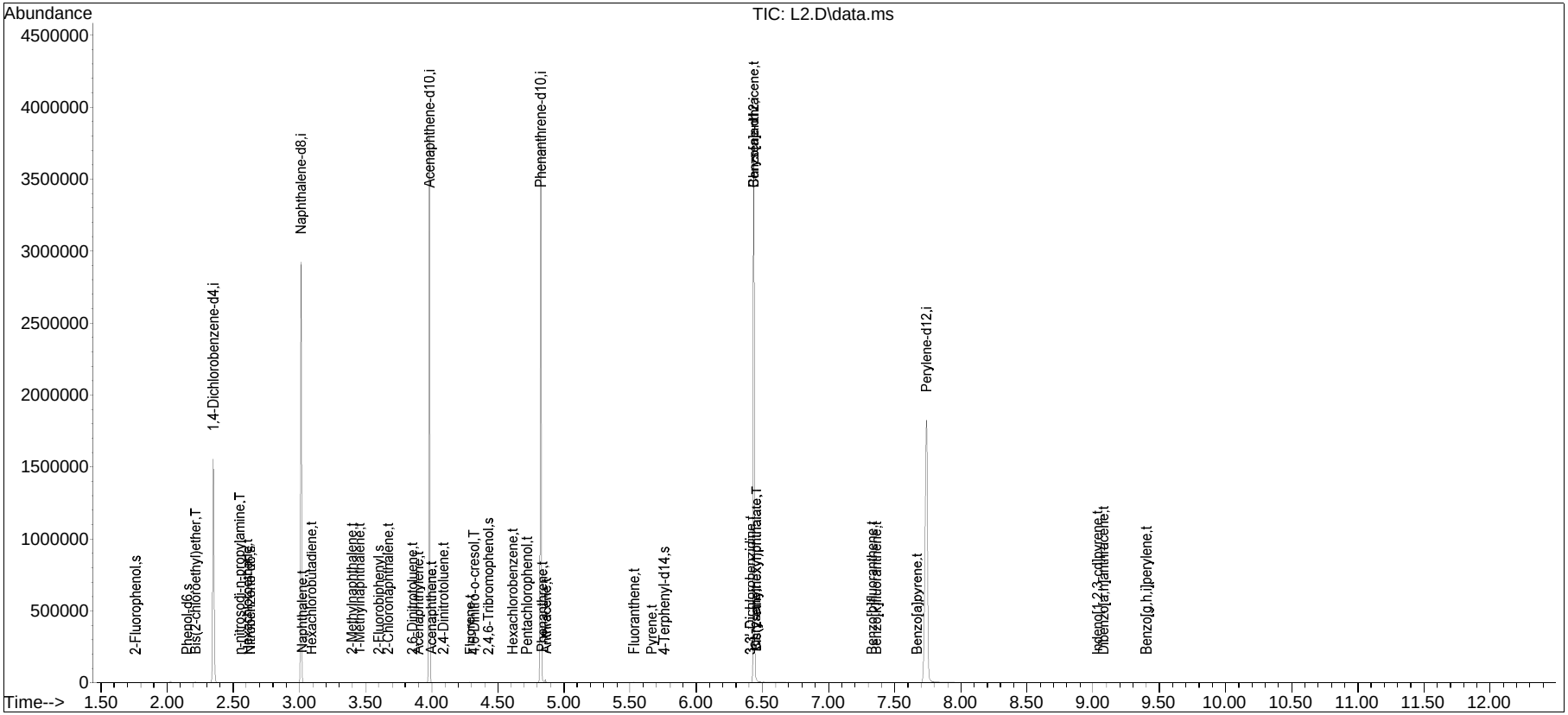
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L2.D
Acq On : 29 Dec 2024 03:52 pm
Operator : sv119:jjw
Sample : IL2,32,, #10900 2 ng/ml
Misc : WG2015284,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 31 16:10:02 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:08:24 2024
Response via : Initial Calibration

Sub List : Default - All compounds listedical\L8.D•

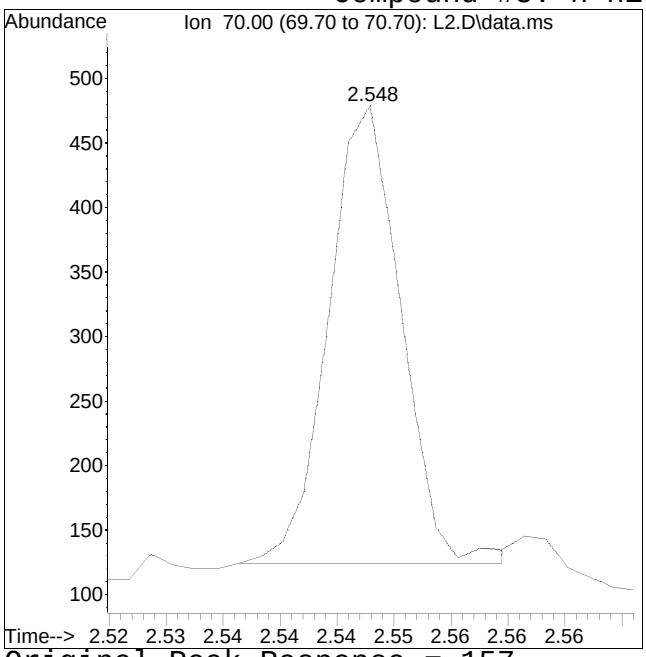


Manual Integration Report

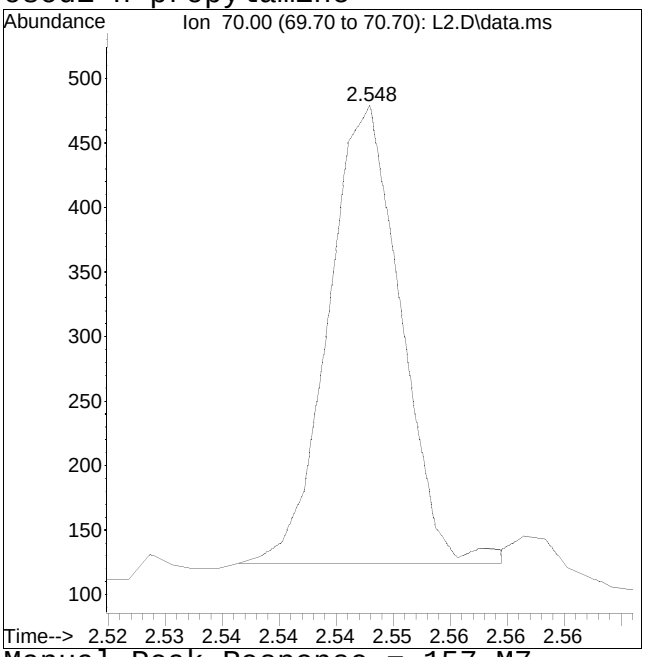
Data Path : I:\8270SIM\sv119\241229RVTQ
Data File : L2.D
Date Inj'd : 12/29/2024 3:52 pm
Sample : IL2,32,, #10900 2 ng/ml

Method : SIM-RVT_241229_sv119.M
Operator : sv119:jjw
Instrument : SV119
Quant Date : 12/31/2024 4:08 pm

Compound #5: n-nitrosodi-n-propylamine



Original Peak Response = 157



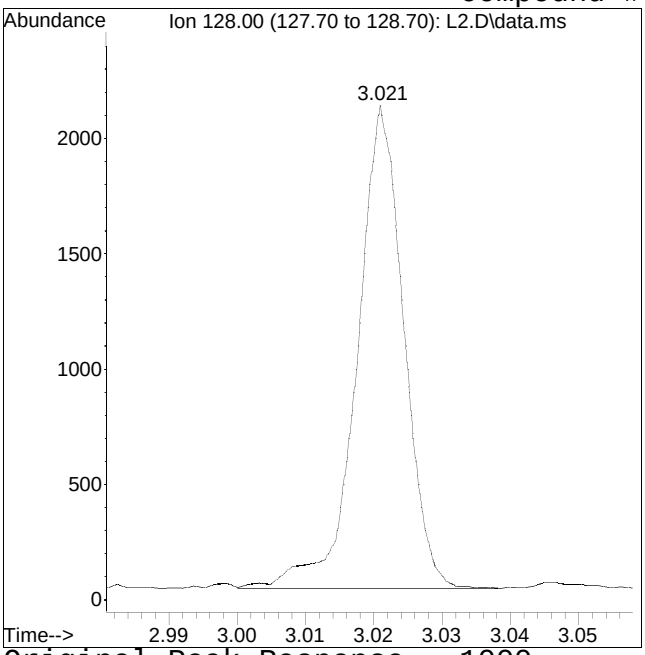
Manual Peak Response = 157 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

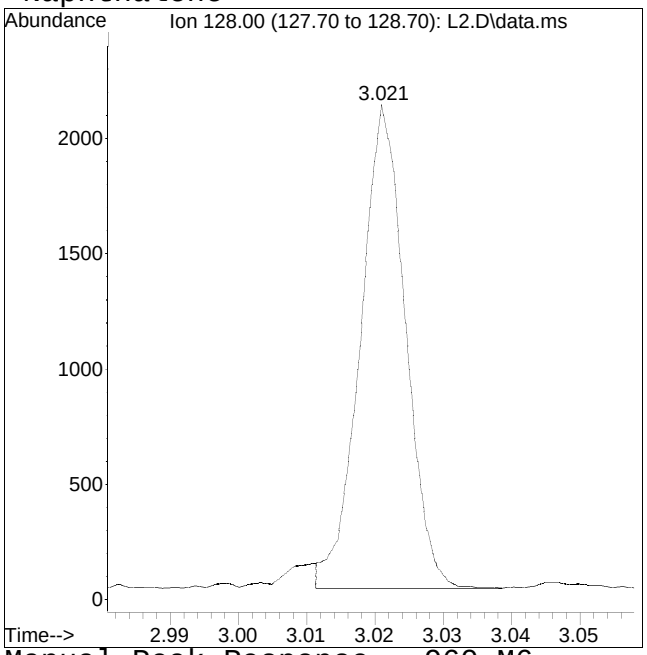
Manual Integration Report

Data Path : I:\8270SIM\sv119\241229RVTQ
Data File : L2.D
Date Inj'd : 12/29/2024 3:52 pm
Sample : IL2,32,, #10900 2 ng/ml
Method : SIM-RVT_241229_sv119.M
Operator : sv119:jjw
Instrument : SV119
Quant Date : 12/31/2024 4:08 pm

Compound #9: Naphthalene



Original Peak Response = 1000



Manual Peak Response = 960 M6

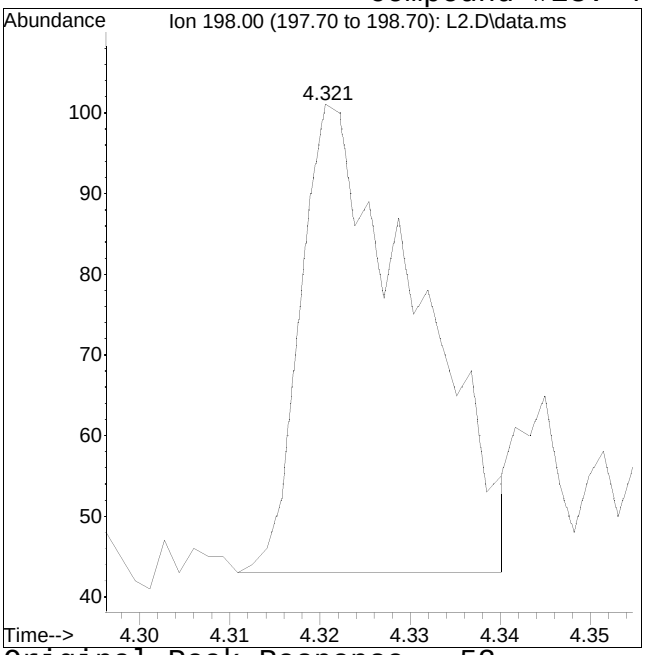
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

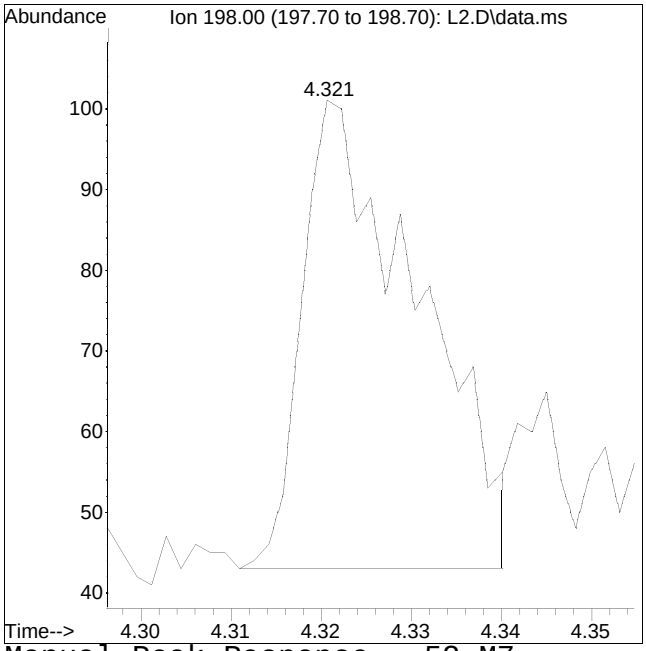
Manual Integration Report

Data Path : I:\8270SIM\sv119\241229RVTQ
Data File : L2.D
Date Inj'd : 12/29/2024 3:52 pm
Sample : IL2,32,, #10900 2 ng/ml

Method : SIM-RVT_241229_sv119.M
Operator : sv119:jjw
Instrument : SV119
Quant Date : 12/31/2024 4:08 pm

Compound #23: 4,6-Dinitro-o-cresol





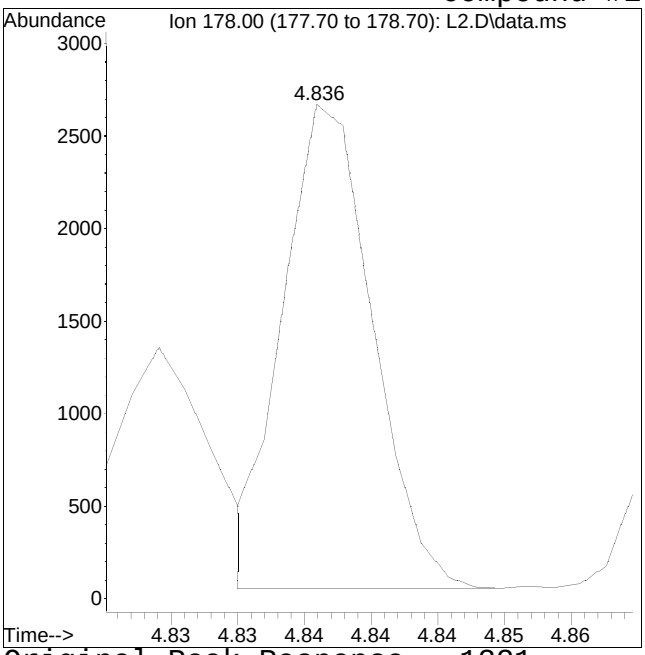
Original Peak Response = 52
Manual Peak Response = 52 M7
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

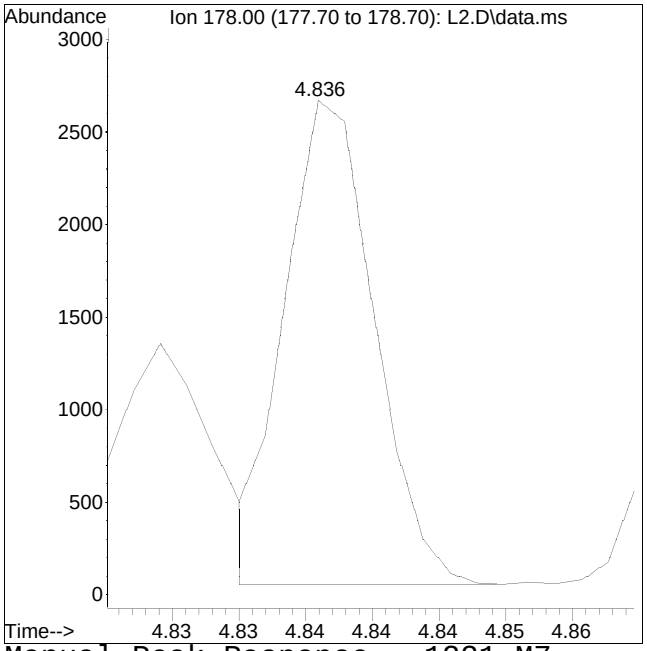
Data Path : I:\8270SIM\sv119\241229RVTQ
Data File : L2.D
Date Inj'd : 12/29/2024 3:52 pm
Sample : IL2,32,, #10900 2 ng/ml

Method : SIM-RVT_241229_sv119.M
Operator : sv119:jjw
Instrument : SV119
Quant Date : 12/31/2024 4:08 pm

Compound #26: Phenanthrene



Original Peak Response = 1221



Manual Peak Response = 1221 M7

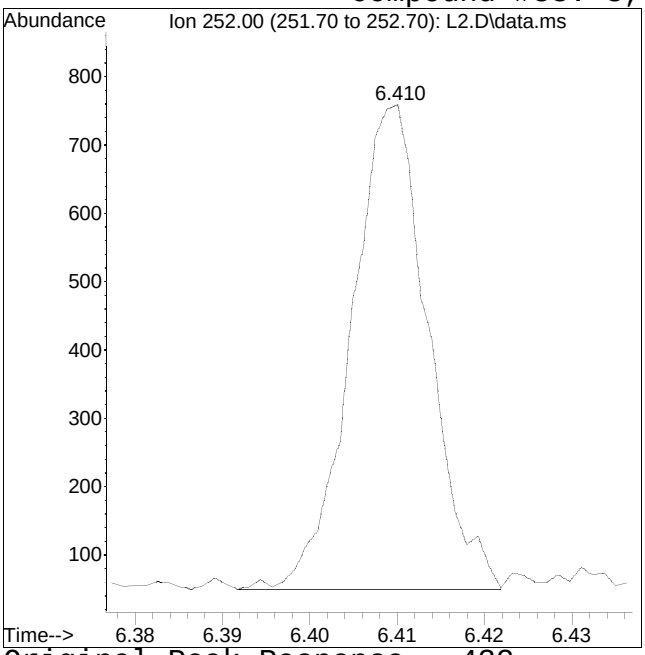
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

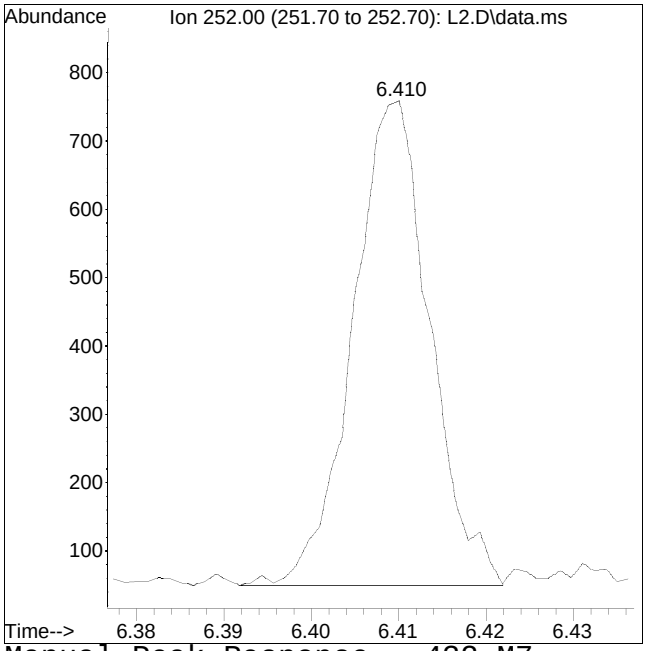
Data Path : I:\8270SIM\sv119\241229RVTQ
Data File : L2.D
Date Inj'd : 12/29/2024 3:52 pm
Sample : IL2,32,, #10900 2 ng/ml

Method : SIM-RVT_241229_sv119.M
Operator : sv119:jjw
Instrument : SV119
Quant Date : 12/31/2024 4:08 pm

Compound #33: 3,3'-Dichlorobenzidine



Original Peak Response = 432



Manual Peak Response = 432 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L1.D
Acq On : 29 Dec 2024 04:09 pm
Operator : sv119:jjw
Sample : IL1,32,, #10895 1 ng/ml
Misc : WG2015284,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 31 16:09:17 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:06:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\241229RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.350	152	366307	4000.000	ng/ml	0.00
Standard Area 1 = 305578			Recovery = 119.87%			
8) Naphthalene-d8	3.010	136	1329353	4000.000	ng/ml	0.00
Standard Area 1 = 1146492			Recovery = 115.95%			
17) Acenaphthene-d10	3.983	164	822777	4000.000	ng/ml	0.00
Standard Area 1 = 714823			Recovery = 115.10%			
22) Phenanthrene-d10	4.825	188	1715899	4000.000	ng/ml	0.00
Standard Area 1 = 1521053			Recovery = 112.81%			
31) Chrysene-d12	6.435	240	1842638	4000.000	ng/ml	0.00
Standard Area 1 = 1553026			Recovery = 118.65%			
36) Perylene-d12	7.742	264	1784873	4000.000	ng/ml	0.00
Standard Area 1 = 1562574			Recovery = 114.23%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.762	112	107	1.090	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.05%#			
3) Phenol-d6	2.155	99	122	0.996	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.05%#			
7) Nitrobenzene-d5	2.628	82	144	1.212	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.12%#			
13) 2-Fluorobiphenyl	3.601	172	345	1.064	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.11%#			
21) 2,4,6-Tribromophenol	4.427	330	45M7	1.253	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.06%#			
30) 4-Terphenyl-d14	5.758	244	522	1.226	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.12%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.213	93	160	1.415	ng/ml	100
5) n-nitrosodi-n-propylamine	2.549	70	84M7	1.109	ng/ml	
6) Hexachloroethane	2.610	117	56	1.179	ng/ml	92
9) Naphthalene	3.021	128	400M6	1.079	ng/ml	
10) Hexachlorobutadiene	3.092	225	68	1.042	ng/ml	88
11) 2-Methylnaphthalene	3.399	142	277	1.069	ng/ml	98
12) 1-Methylnaphthalene	3.454	142	255	1.069	ng/ml	98
14) 2-Chloronaphthalene	3.668	162	293	1.095	ng/ml	97
15) 2,6-Dinitrotoluene	3.855	165	122M4	1.850	ng/ml	
16) Acenaphthylene	3.902	152	432	1.042	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L1.D
Acq On : 29 Dec 2024 04:09 pm
Operator : sv119:jjw
Sample : IL1,32,, #10895 1 ng/ml
Misc : WG2015284,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 31 16:09:17 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:06:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\241229RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
18) Acenaphthene	3.998	153	290	1.057	ng/ml	92
19) 2,4-Dinitrotoluene	4.086	165	81	0.928	ng/ml#	87
20) Fluorene	4.290	166	327	1.037	ng/ml	91
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
24) Hexachlorobenzene	4.609	284	111	1.097	ng/ml	100
25) Pentachlorophenol	4.720	266	588	4.240	ng/ml	97
26) Phenanthrene	4.838	178	555M7	1.106	ng/ml	
27) Anthracene	4.866	178	547	1.087	ng/ml	100
28) Fluoranthene	5.528	202	682	1.087	ng/ml	97
29) Pyrene	5.665	202	695	1.073	ng/ml	94
32) Benzo[a]anthracene	6.435	228	5699	0.997	ng/ml#	78
33) 3,3'-Dichlorobenzidine	6.409	252	238M7	28.031	ng/ml	
34) Chrysene	6.450	228	675	1.064	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.451	149	761	2.312	ng/ml	99
37) Benzo[b]fluoranthene	7.331	252	615	1.040	ng/ml	99
38) Benzo[k]fluoranthene	7.357	252	628	1.077	ng/ml	96
39) Benzo[a]pyrene	7.666	252	512	1.020	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	9.037	276	488	1.004	ng/ml	93
41) Dibenzo[a,h]anthracene	9.077	278	430	0.954	ng/ml	99
42) Benzo[g,h,i]perylene	9.400	276	480	1.038	ng/ml	92

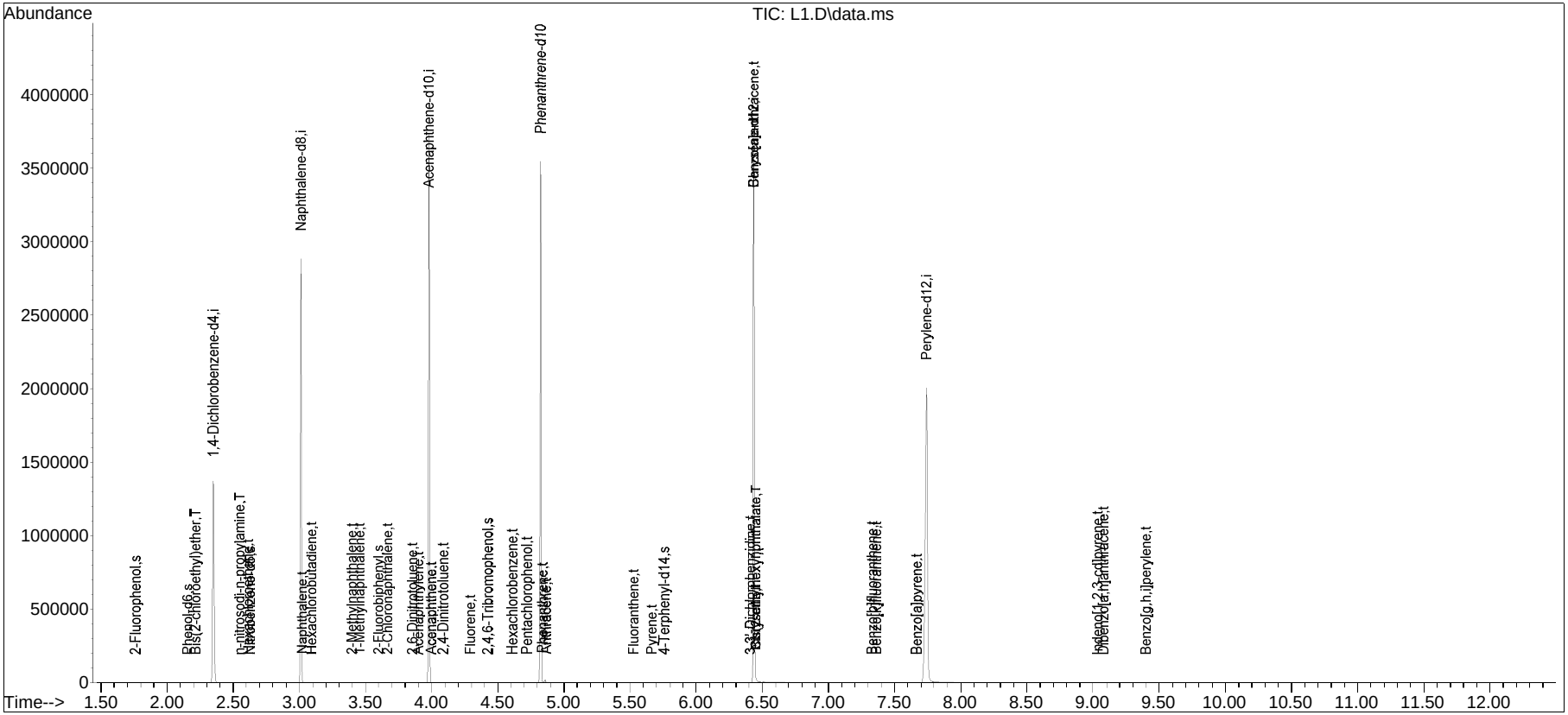
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : L1.D
Acq On : 29 Dec 2024 04:09 pm
Operator : sv119:jjw
Sample : IL1,32,, #10895 1 ng/ml
Misc : WG2015284,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 31 16:09:17 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:06:45 2024
Response via : Initial Calibration

Sub List : Default - All compounds listedical\L8.D•

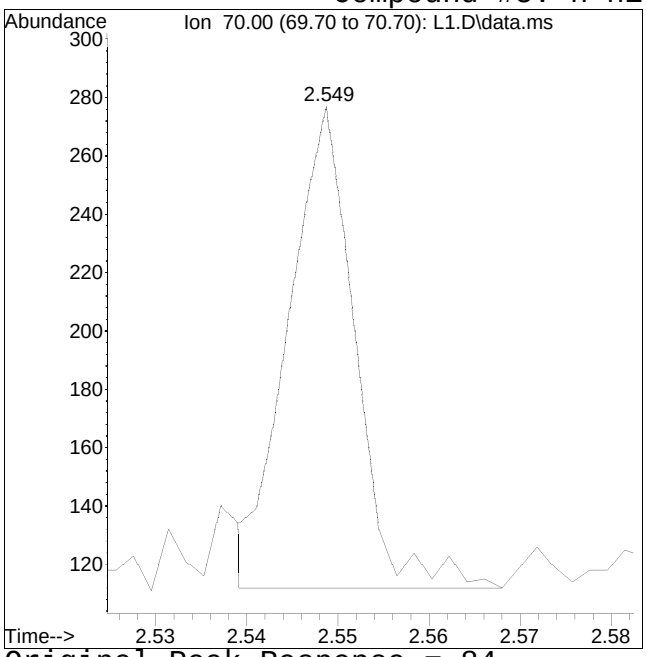


Manual Integration Report

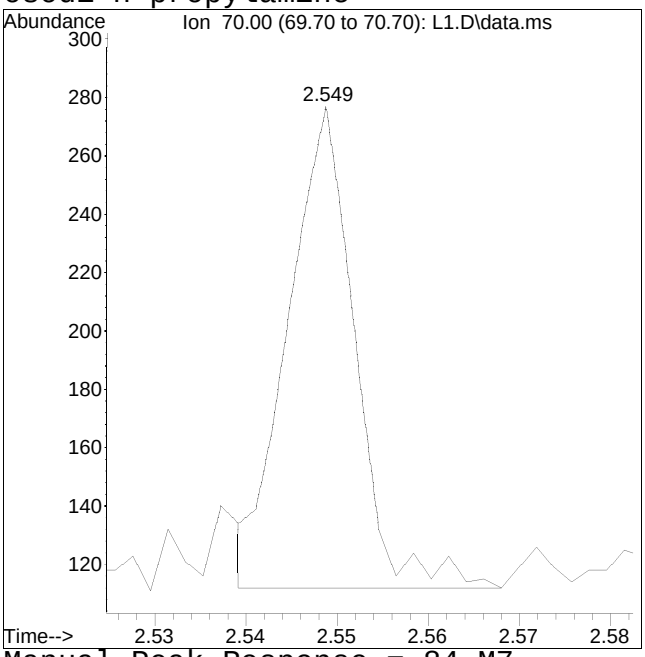
Data Path : I:\8270SIM\sv119\241229RVTQ
Data File : L1.D
Date Inj'd : 12/29/2024 4:09 pm
Sample : IL1,32,, #10895 1 ng/ml

Method : SIM-RVT_241229_sv119.M
Operator : sv119:jjw
Instrument : SV119
Quant Date : 12/31/2024 4:06 pm

Compound #5: n-nitrosodi-n-propylamine



Original Peak Response = 84



Manual Peak Response = 84 M7

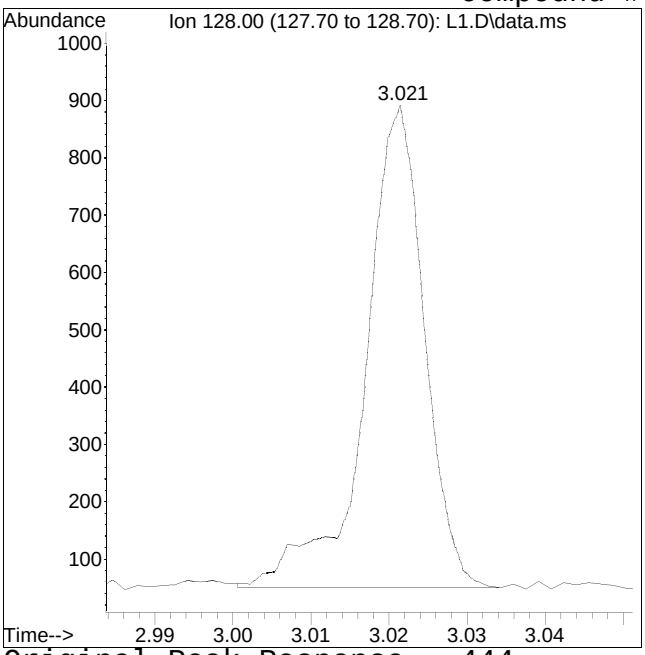
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

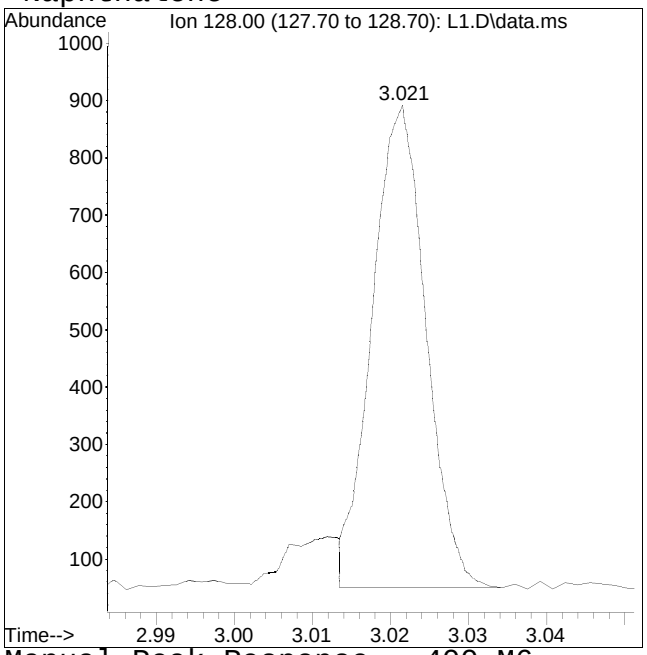
Data Path : I:\8270SIM\sv119\241229RVTQ
Data File : L1.D
Date Inj'd : 12/29/2024 4:09 pm
Sample : IL1,32,, #10895 1 ng/ml

Method : SIM-RVT_241229_sv119.M
Operator : sv119:jjw
Instrument : SV119
Quant Date : 12/31/2024 4:06 pm

Compound #9: Naphthalene



Original Peak Response = 444



Manual Peak Response = 400 M6

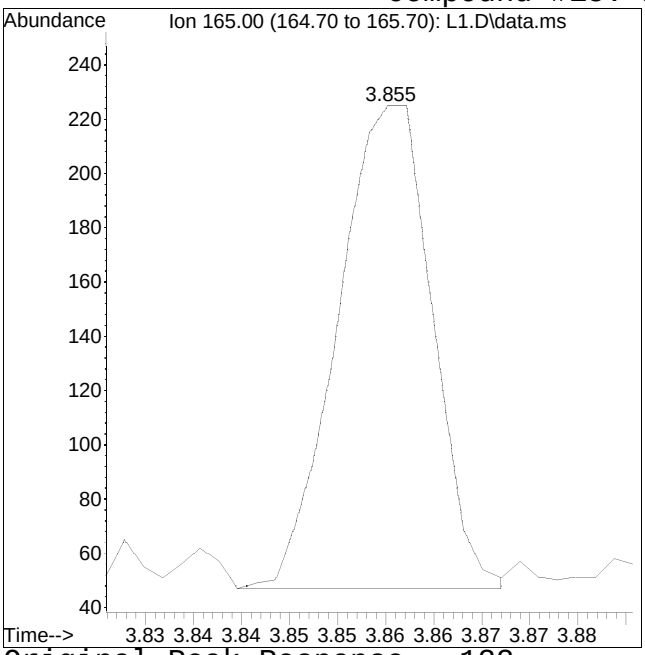
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

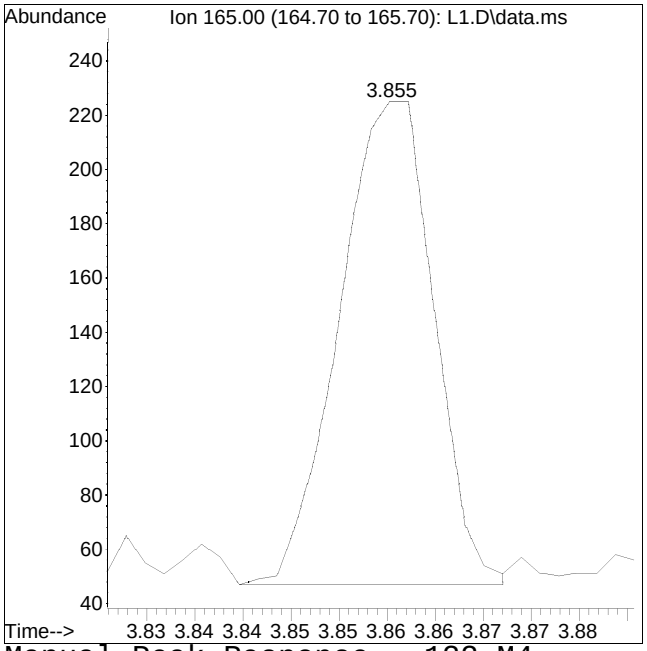
Data Path : I:\8270SIM\sv119\241229RVTQ
Data File : L1.D
Date Inj'd : 12/29/2024 4:09 pm
Sample : IL1,32,, #10895 1 ng/ml

Method : SIM-RVT_241229_sv119.M
Operator : sv119:jjw
Instrument : SV119
Quant Date : 12/31/2024 4:06 pm

Compound #15: 2,6-Dinitrotoluene



Original Peak Response = 122



Manual Peak Response = 122 M4

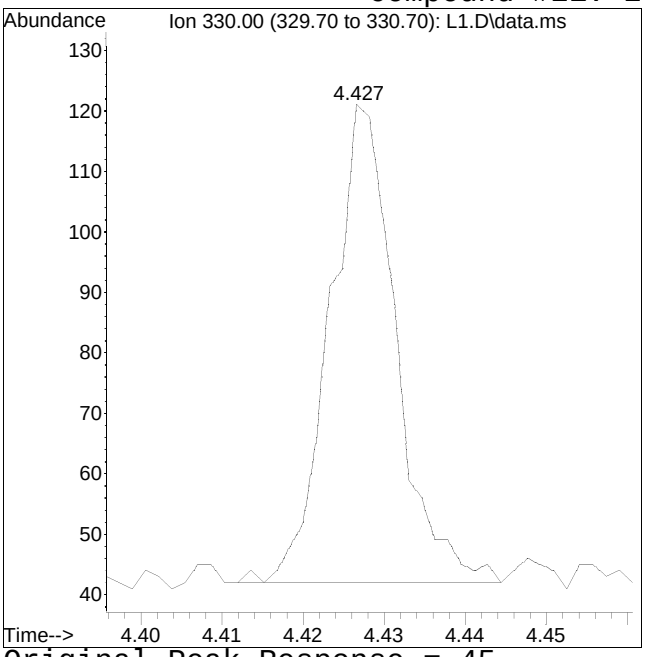
M4 = Poor automated baseline construction.

Manual Integration Report

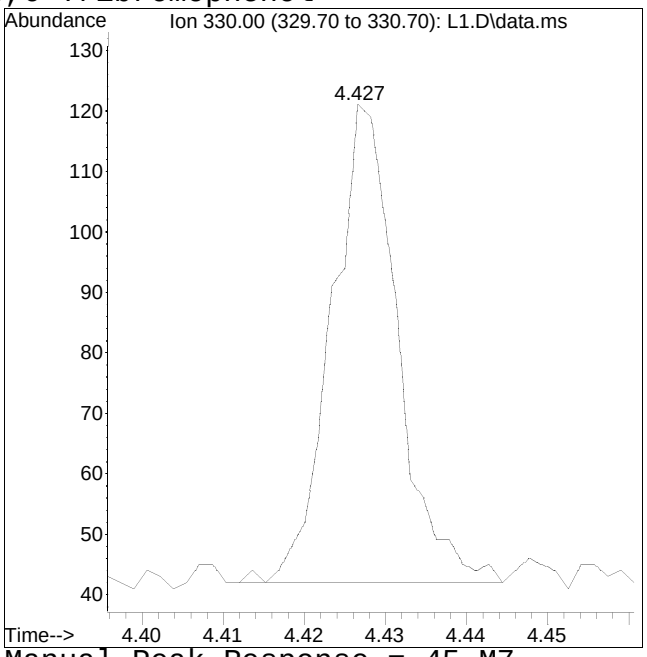
Data Path : I:\8270SIM\sv119\241229RVTQ
Data File : L1.D
Date Inj'd : 12/29/2024 4:09 pm
Sample : IL1,32,, #10895 1 ng/ml

Method : SIM-RVT_241229_sv119.M
Operator : sv119:jjw
Instrument : SV119
Quant Date : 12/31/2024 4:06 pm

Compound #21: 2,4,6-Tribromophenol



Original Peak Response = 45



Manual Peak Response = 45 M7

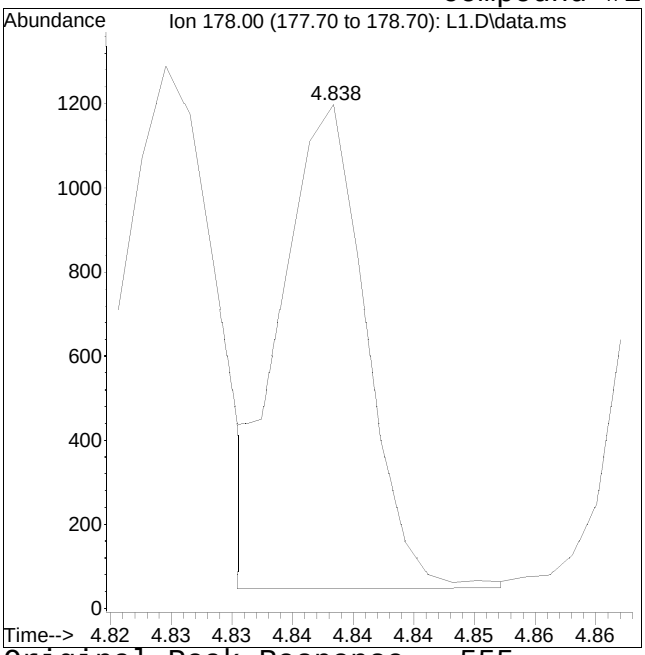
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

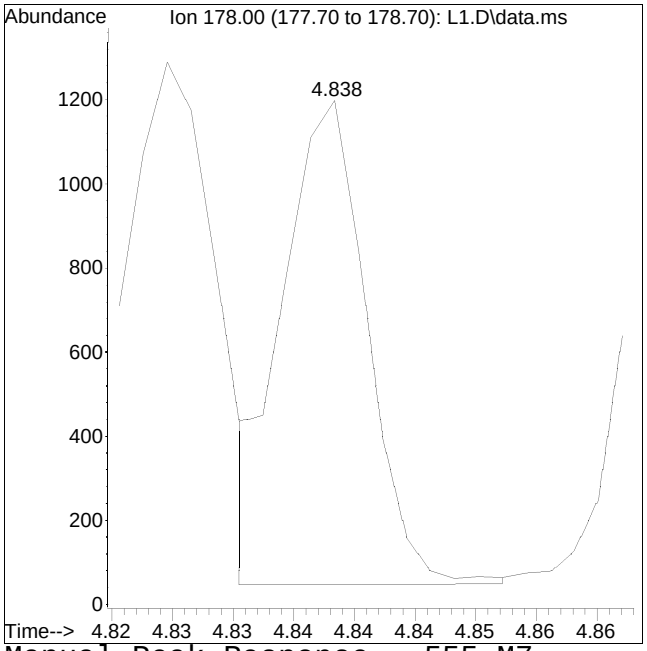
Data Path : I:\8270SIM\sv119\241229RVTQ
Data File : L1.D
Date Inj'd : 12/29/2024 4:09 pm
Sample : IL1,32,, #10895 1 ng/ml

Method : SIM-RVT_241229_sv119.M
Operator : sv119:jjw
Instrument : SV119
Quant Date : 12/31/2024 4:06 pm

Compound #26: Phenanthrene



Original Peak Response = 555



Manual Peak Response = 555 M7

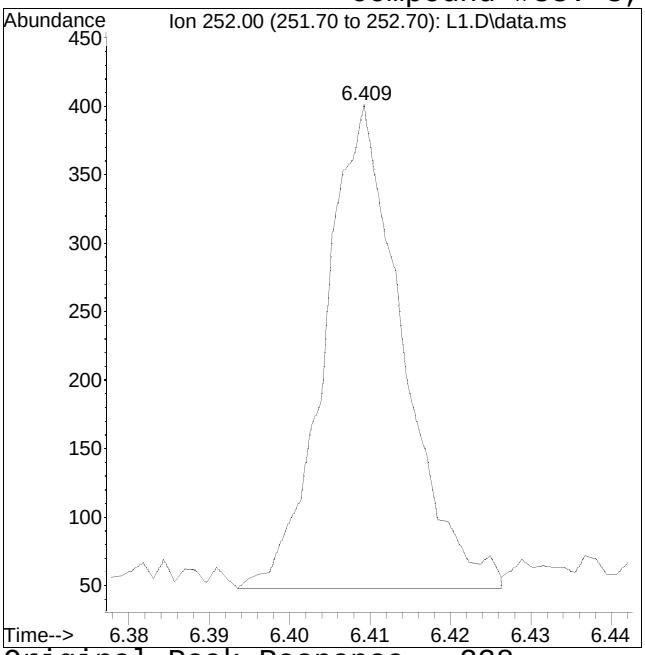
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

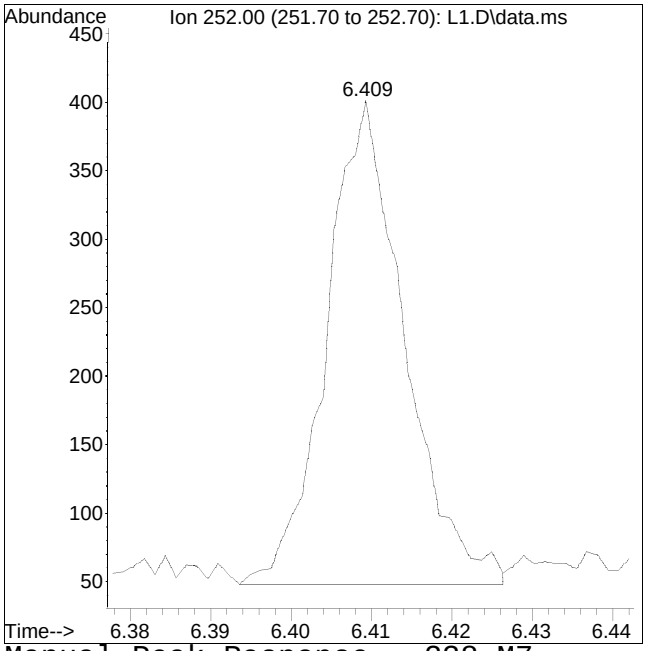
Data Path : I:\8270SIM\sv119\241229RVTQ
Data File : L1.D
Date Inj'd : 12/29/2024 4:09 pm
Sample : IL1,32,, #10895 1 ng/ml

Method : SIM-RVT_241229_sv119.M
Operator : sv119:jjw
Instrument : SV119
Quant Date : 12/31/2024 4:06 pm

Compound #33: 3,3'-Dichlorobenzidine



Original Peak Response = 238



Manual Peak Response = 238 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : ICV.D
Acq On : 29 Dec 2024 04:26 pm
Operator : sv119:jjw
Sample : CQICV,32,, #10884 1000 ng/ml
Misc : WG2015284,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 31 16:05:29 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:06:39 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	128	0.00
2	s	2-Fluorophenol	1.072	1.202	-12.1	142	0.00
3	s	Phenol-d6	1.338	1.524	-13.9	143	0.00
4	T	Bis(2-chloroethyl)ether	1.235	1.293	-4.7	142	0.00
5	T	n-nitrosodi-n-propylamine	0.827	0.897	-8.5	137	0.00
6	t	Hexachloroethane	0.518	0.538	-3.9	138	0.00
7	s	Nitrobenzene-d5	1.297	1.422	-9.6	141	0.00
8	i	Naphthalene-d8	1.000	1.000	0.0	128	0.00
9	t	Naphthalene	1.116	1.136	-1.8	139	0.00
10	t	Hexachlorobutadiene	0.196	0.207	-5.6	141	0.00
11	t	2-Methylnaphthalene	0.780	0.836	-7.2	143	0.00
12	t	1-Methylnaphthalene	0.718	0.767	-6.8	142	0.00
13	s	2-Fluorobiphenyl	0.975	1.021	-4.7	142	0.00
14	t	2-Chloronaphthalene	0.805	0.844	-4.8	140	0.00
15	t	2,6-Dinitrotoluene	0.198	0.224	-13.1	141	0.00
16	t	Acenaphthylene	1.247	1.319	-5.8	140	0.00
17	i	Acenaphthene-d10	1.000	1.000	0.0	129	0.00
18	t	Acenaphthene	1.334	1.390	-4.2	139	0.00
19	t	2,4-Dinitrotoluene	0.424	0.496	-17.0	143	0.00
20	t	Fluorene	1.533	1.644	-7.2	139	0.00
21	s	2,4,6-Tribromophenol	0.175	0.217	-24.0#	150	0.00
22	i	Phenanthrene-d10	1.000	1.000	0.0	128	0.00
23	T	4,6-Dinitro-o-cresol	*1000.000	995.824	0.4	137	0.00
24	t	Hexachlorobenzene	0.236	0.240	-1.7	140	0.00
25	t	Pentachlorophenol	*1000.000	1104.280	-10.4	145	0.00
26	t	Phenanthrene	1.170	1.216	-3.9	140	0.00
27	t	Anthracene	1.173	1.242	-5.9	140	0.00
28	t	Fluoranthene	1.463	1.497	-2.3	137	0.00
29	t	Pyrene	1.510	1.575	-4.3	140	0.00
30	s	4-Terphenyl-d14	0.992	1.028	-3.6	137	0.00
31	i	Chrysene-d12	1.000	1.000	0.0	123	0.00
32	t	Benzo[a]anthracene	*1000.000	1090.321	-9.0	134	0.00
33	t	3,3'-Dichlorobenzidine	*1000.000	1066.308	-6.6	146	0.00
34	t	Chrysene	1.377	1.445	-4.9	134	0.00
35	T	Bis(2-ethylhexyl)phthalate	0.714	0.787	-10.2	131	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : ICV.D
Acq On : 29 Dec 2024 04:26 pm
Operator : sv119:jjw
Sample : CQICV,32,, #10884 1000 ng/ml
Misc : WG2015284,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 31 16:05:29 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:06:39 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	i	Perylene-d12	1.000	1.000	0.0	121	0.00
37	t	Benzo[b]fluoranthene	1.326	1.405	-6.0	128	0.00
38	t	Benzo[k]fluoranthene	1.307	1.465	-12.1	137	0.00
39	t	Benzo[a]pyrene	1.125	1.271	-13.0	133	0.00
40	t	Indeno[1,2,3-cd]pyrene	1.089	1.207	-10.8	128	0.00
41	t	Dibenzo[a,h]anthracene	1.010	1.156	-14.5	129	0.00
42	t	Benzo[g,h,i]perylene	1.036	1.146	-10.6	130	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : ICV.D
Acq On : 29 Dec 2024 04:26 pm
Operator : sv119:jjw
Sample : CQICV,32,, #10884 1000 ng/ml
Misc : WG2015284,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 31 16:05:29 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:06:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\241229RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.349	152	390319	4000.000	ng/ml	0.00
Standard Area 1 = 305578			Recovery = 127.73%			
8) Naphthalene-d8	3.010	136	1467149	4000.000	ng/ml	0.00
Standard Area 1 = 1146492			Recovery = 127.97%			
17) Acenaphthene-d10	3.984	164	919354	4000.000	ng/ml	0.00
Standard Area 1 = 714823			Recovery = 128.61%			
22) Phenanthrene-d10	4.826	188	1939636	4000.000	ng/ml	0.00
Standard Area 1 = 1521053			Recovery = 127.52%			
31) Chrysene-d12	6.440	240	1902556	4000.000	ng/ml	0.00
Standard Area 1 = 1553026			Recovery = 122.51%			
36) Perylene-d12	7.743	264	1890967	4000.000	ng/ml	0.00
Standard Area 1 = 1562574			Recovery = 121.02%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.761	112	117258	1121.213	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 56.06%			
3) Phenol-d6	2.153	99	148674	1139.002	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 56.95%			
7) Nitrobenzene-d5	2.627	82	138765	1096.287	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 109.63%			
13) 2-Fluorobiphenyl	3.603	172	374656	1047.236	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 104.72%			
21) 2,4,6-Tribromophenol	4.428	330	49773	1240.445	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 62.02%			
30) 4-Terphenyl-d14	5.760	244	498657	1036.324	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 103.63%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.212	93	126146	1047.040	ng/ml#	79
5) n-nitrosodi-n-propylamine	2.546	70	87535	1084.108	ng/ml	100
6) Hexachloroethane	2.608	117	52517	1038.064	ng/ml	93
9) Naphthalene	3.021	128	416784	1018.565	ng/ml	99
10) Hexachlorobutadiene	3.092	225	75773	1052.259	ng/ml	100
11) 2-Methylnaphthalene	3.398	142	306508	1071.912	ng/ml	98
12) 1-Methylnaphthalene	3.454	142	281151	1067.840	ng/ml	98
14) 2-Chloronaphthalene	3.670	162	309748	1048.846	ng/ml	98
15) 2,6-Dinitrotoluene	3.859	165	82208	1129.566	ng/ml#	92
16) Acenaphthylene	3.902	152	483748	1057.725	ng/ml	100
18) Acenaphthene	4.002	153	319572	1042.243	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : ICV.D
Acq On : 29 Dec 2024 04:26 pm
Operator : sv119:jjw
Sample : CQICV,32,, #10884 1000 ng/ml
Misc : WG2015284,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 31 16:05:29 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:06:39 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\241229RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.086	165	114104	1169.850	ng/ml#	92
20) Fluorene	4.292	166	377766	1072.352	ng/ml	97
23) 4,6-Dinitro-o-cresol	4.318	198	63393	995.824	ng/ml	97
24) Hexachlorobenzene	4.609	284	116516	1019.105	ng/ml	90
25) Pentachlorophenol	4.718	266	64222	1104.280	ng/ml	100
26) Phenanthrene	4.838	178	589743	1039.891	ng/ml	99
27) Anthracene	4.868	178	602433	1059.503	ng/ml	99
28) Fluoranthene	5.529	202	725789	1022.923	ng/ml	97
29) Pyrene	5.667	202	763953	1043.134	ng/ml	100
32) Benzo[a]anthracene	6.430	228	734331	1090.321	ng/ml	99
33) 3,3'-Dichlorobenzidine	6.413	252	255382	1066.308	ng/ml	99
34) Chrysene	6.456	228	687425	1049.395	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.454	149	374501	1102.022	ng/ml	99
37) Benzo[b]fluoranthene	7.337	252	664339	1060.059	ng/ml	100
38) Benzo[k]fluoranthene	7.365	252	692334	1120.260	ng/ml	97
39) Benzo[a]pyrene	7.670	252	600762	1129.737	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	9.044	276	570718	1108.579	ng/ml	93
41) Dibenzo[a,h]anthracene	9.086	278	546347	1143.971	ng/ml	92
42) Benzo[g,h,i]perylene	9.416	276	541938	1106.007	ng/ml	93

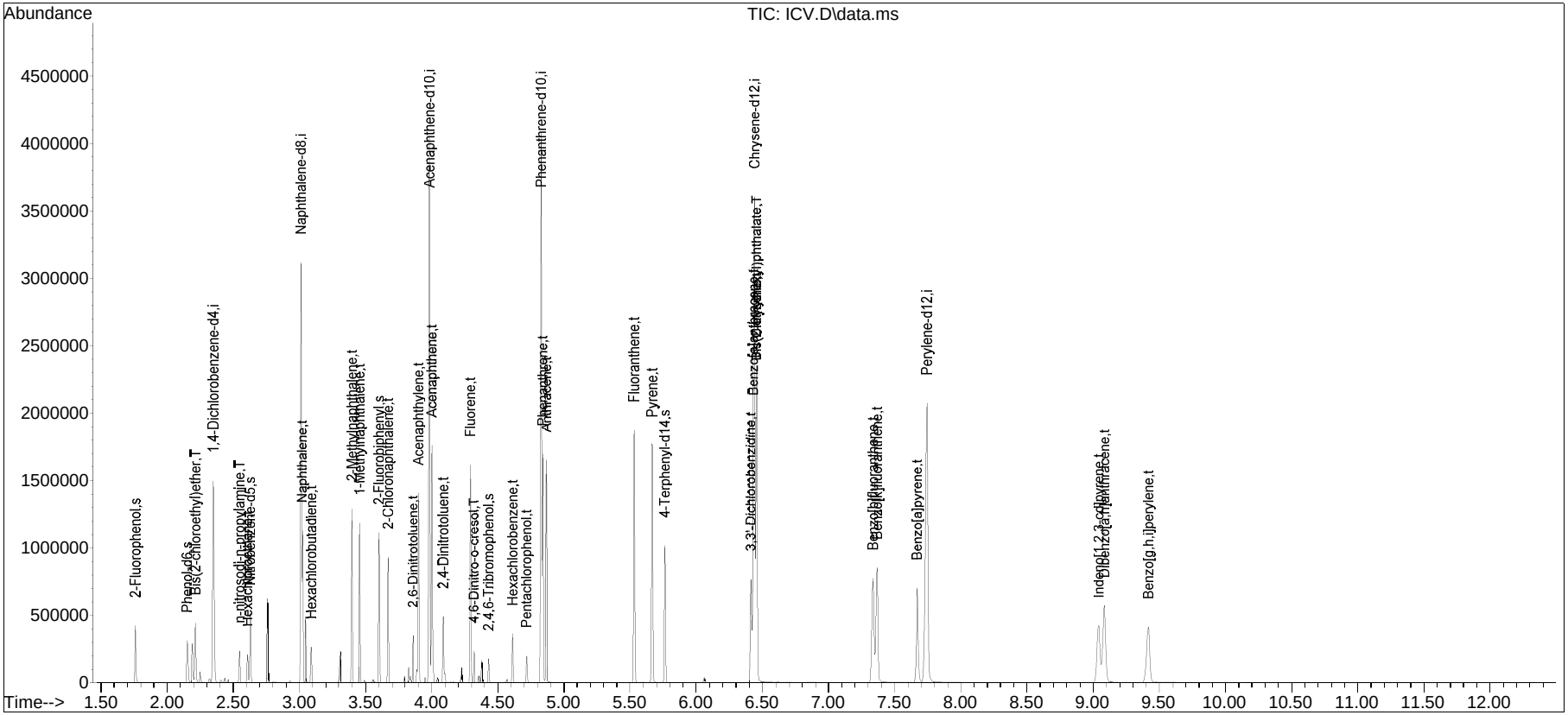
(#) = qualifier out of range (m) = manual integration (+) = signals summed

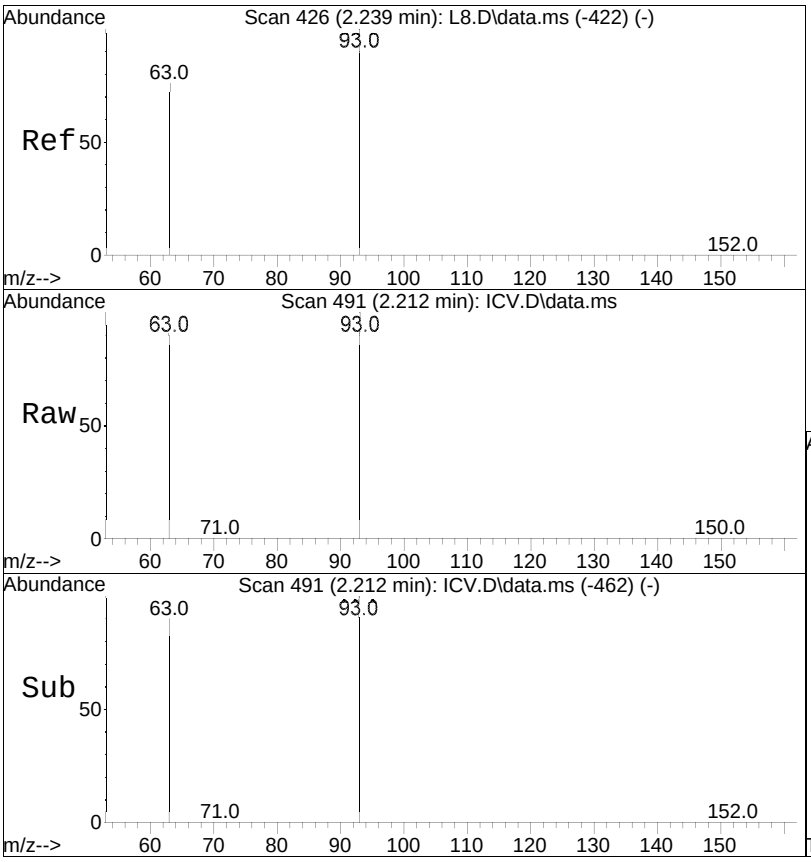
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\241229RVTical\
Data File : ICV.D
Acq On : 29 Dec 2024 04:26 pm
Operator : sv119:jjw
Sample : CQICV,32,, #10884 1000 ng/ml
Misc : WG2015284,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 31 16:05:29 2024
Quant Method : I:\8270SIM\sv119\241229RVTical\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 31 16:06:39 2024
Response via : Initial Calibration

Sub List : Default - All compounds listedical\L8.D•

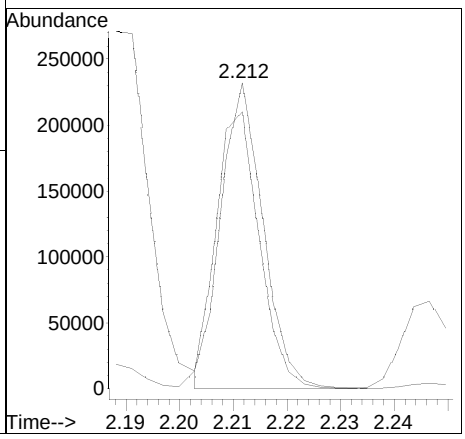


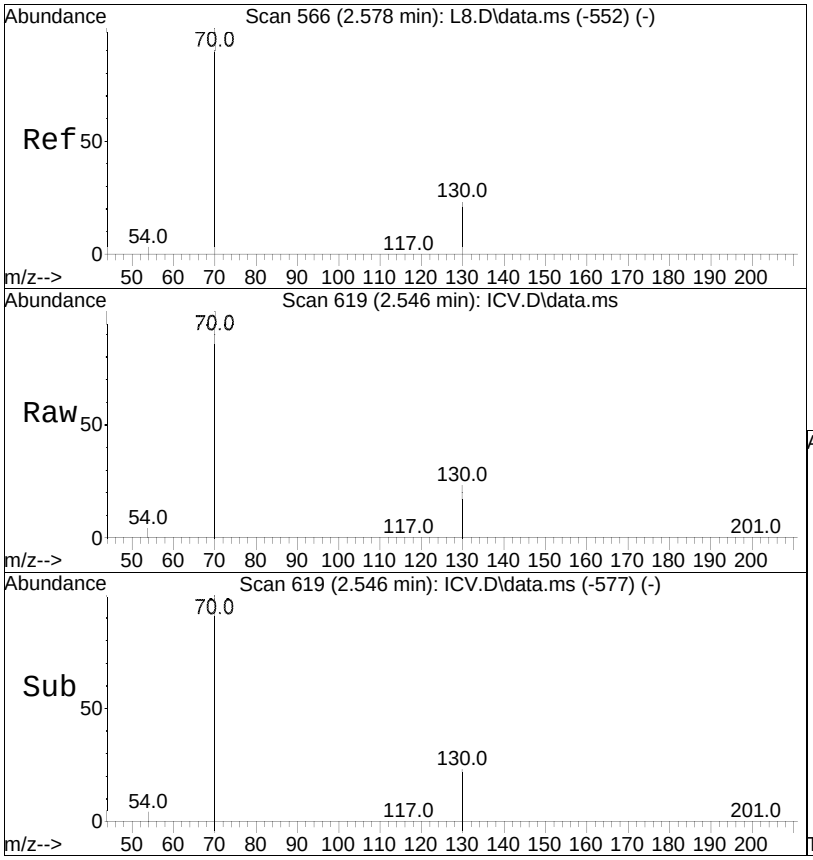


#4
Bis(2-chloroethyl)ether
Concen: 1047.04 ng/ml
RT: 2.212 min Scan# 491
Delta R.T. 0.004 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion: 93 Resp: 126146

Ion	Ratio	Lower	Upper
93	100		
63	95.2	61.7	92.5#

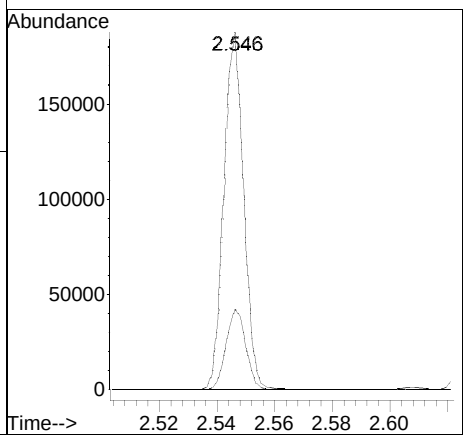


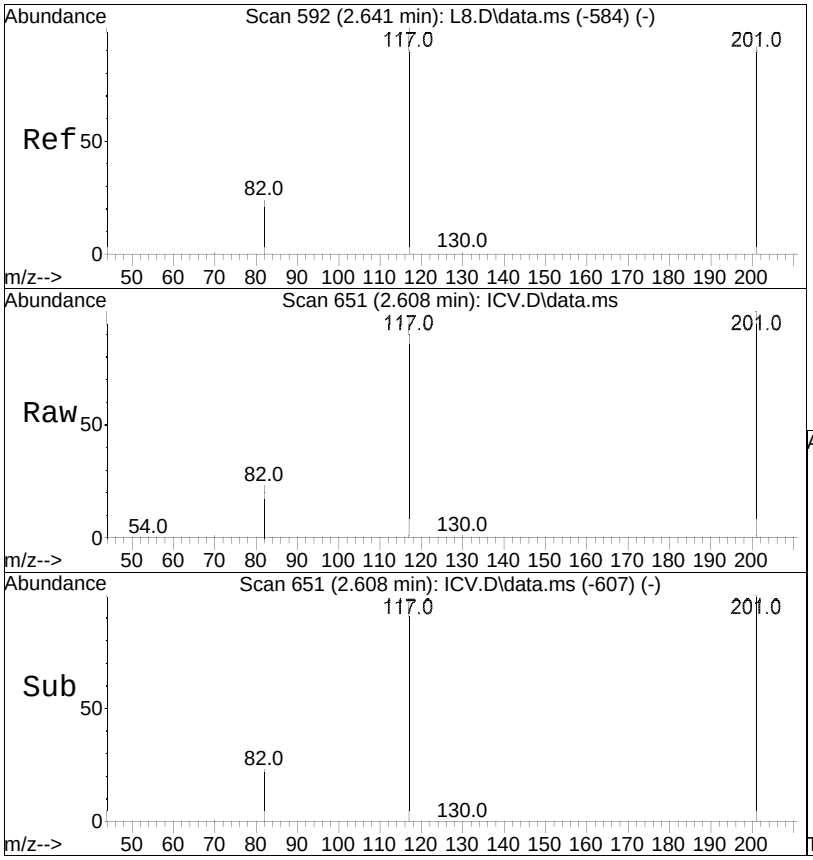


#5
n-nitrosodi-n-propylamine
Concen: 1084.11 ng/ml
RT: 2.546 min Scan# 619
Delta R.T. 0.005 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion: 70 Resp: 87535

Ion	Ratio	Lower	Upper
70	100		
130	22.7	18.1	27.1

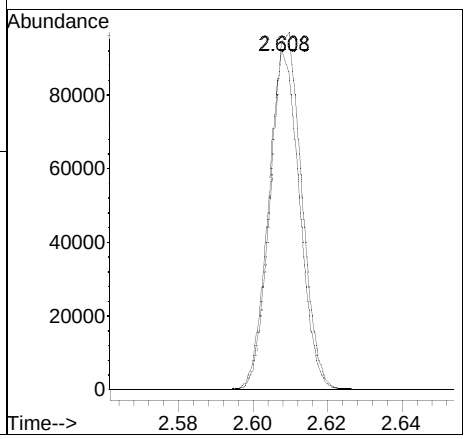


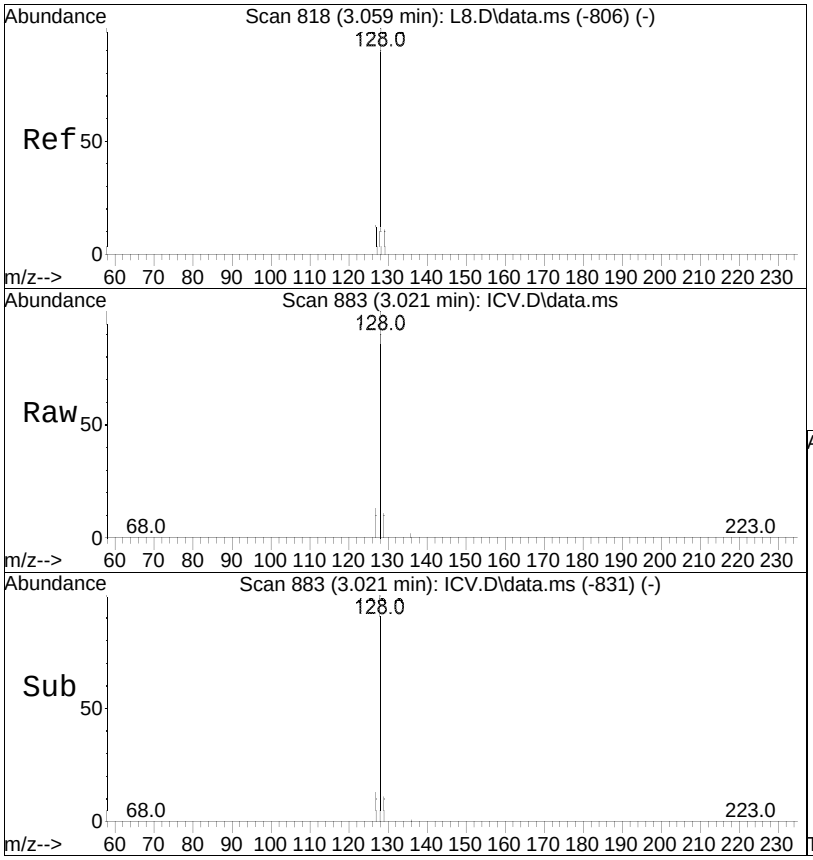


#6
Hexachloroethane
Concen: 1038.06 ng/ml
RT: 2.608 min Scan# 651
Delta R.T. 0.003 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:117 Resp: 52517

Ion	Ratio	Lower	Upper
117	100		
201	106.3	79.3	118.9

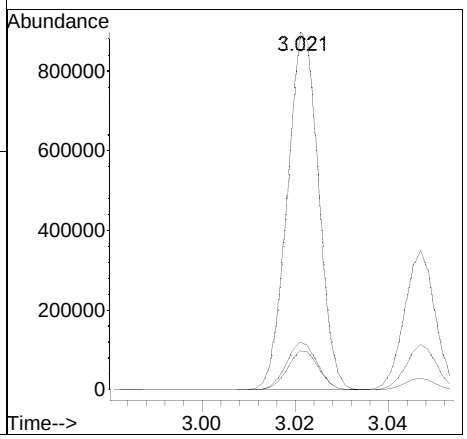


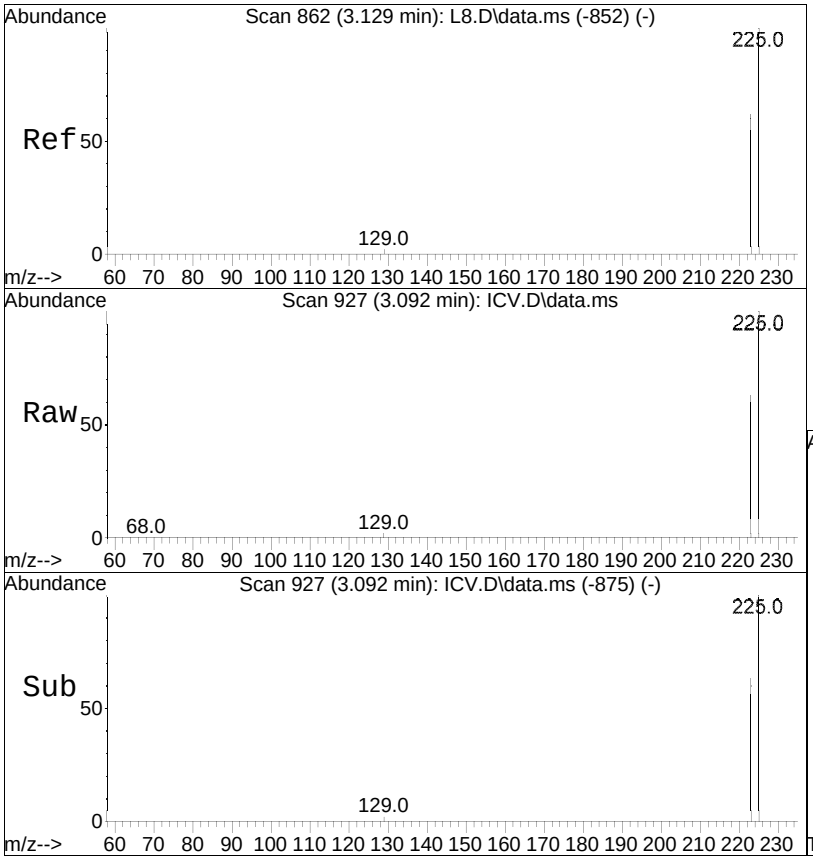


#9
Naphthalene
Concen: 1018.57 ng/ml
RT: 3.021 min Scan# 883
Delta R.T. 0.003 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:128 Resp: 416784

Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.0	13.6
127	13.3	10.5	15.7

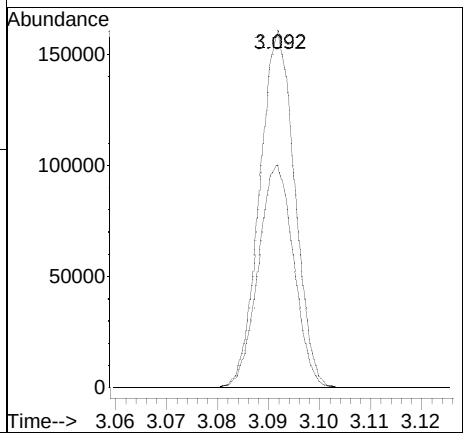


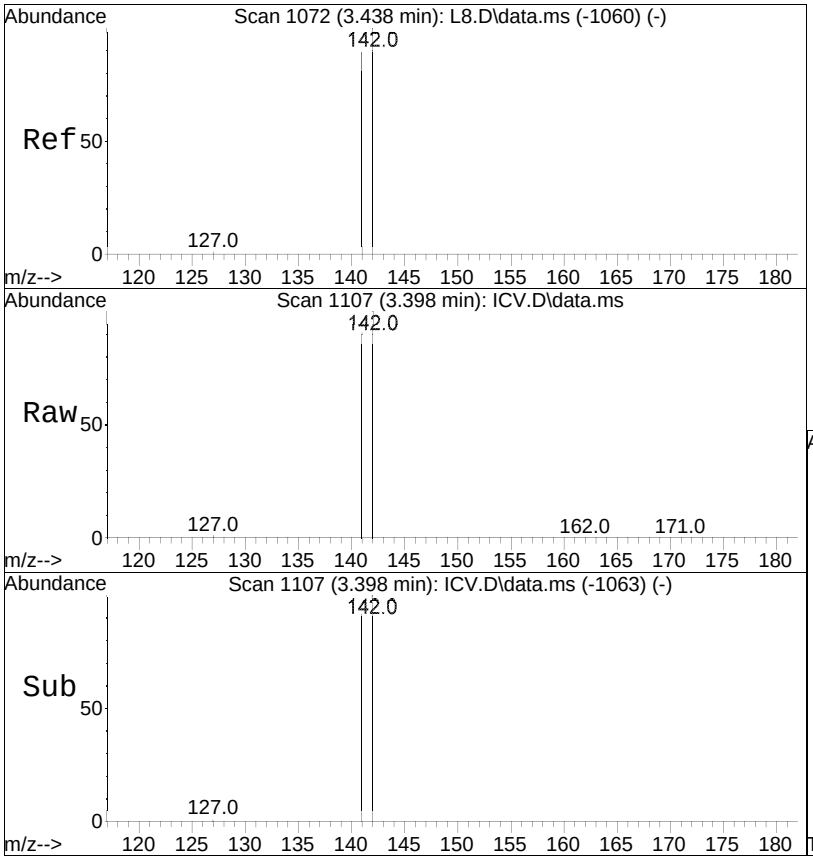


#10
Hexachlorobutadiene
Concen: 1052.26 ng/ml
RT: 3.092 min Scan# 927
Delta R.T. 0.003 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:225 Resp: 75773

Ion	Ratio	Lower	Upper
225	100		
223	63.1	50.4	75.6

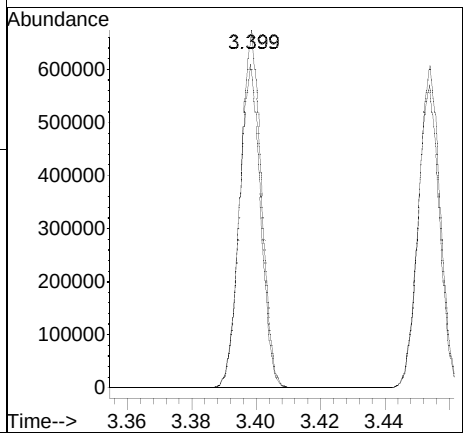


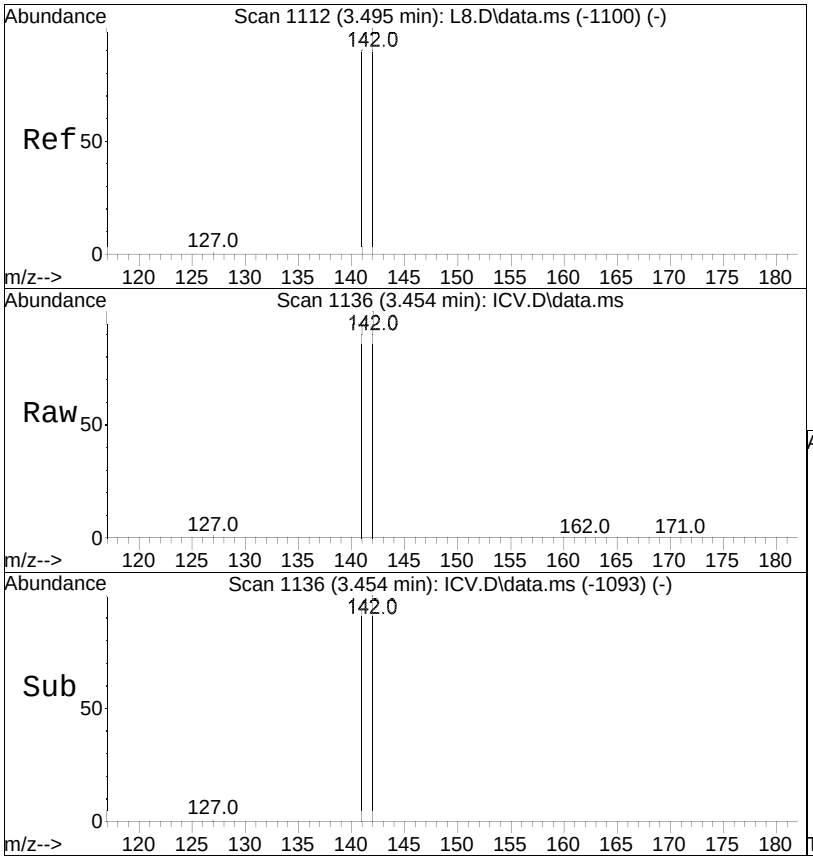


#11
2-Methylnaphthalene
Concen: 1071.91 ng/ml
RT: 3.398 min Scan# 1107
Delta R.T. 0.003 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:142 Resp: 306508

Ion	Ratio	Lower	Upper
142	100		
141	91.0	71.3	106.9

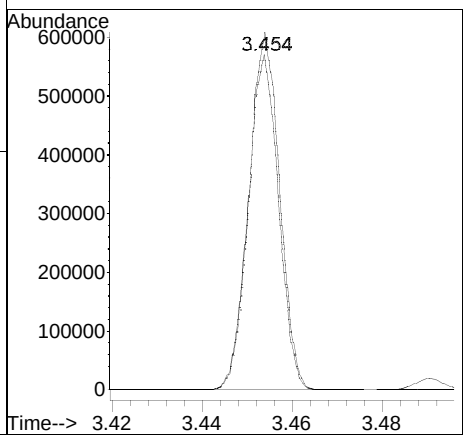


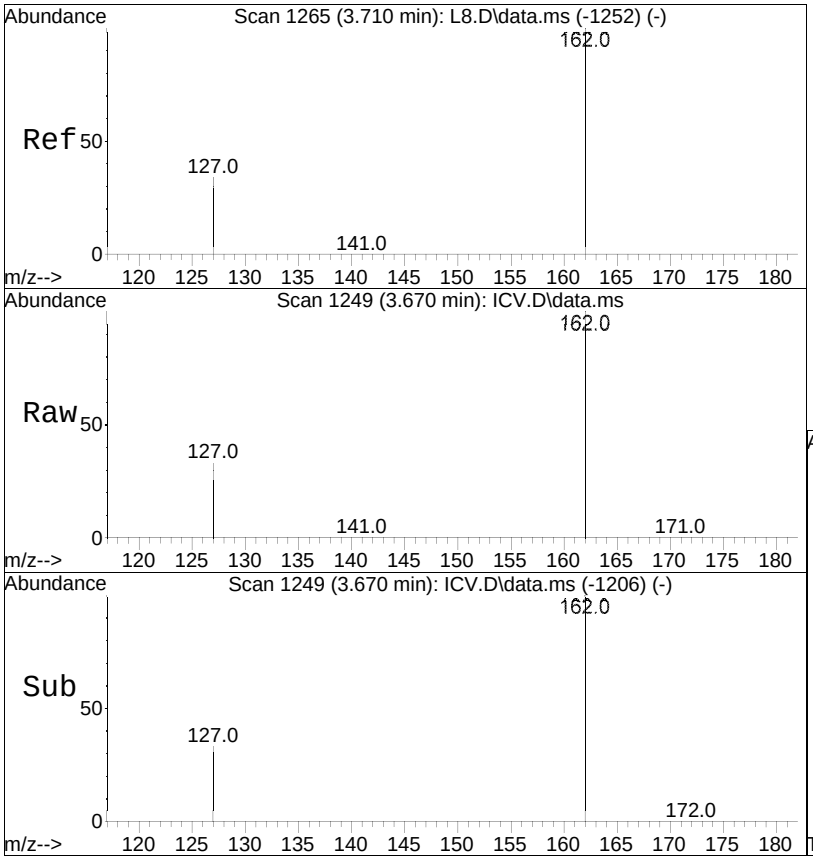


#12
1-Methylnaphthalene
Concen: 1067.84 ng/ml
RT: 3.454 min Scan# 1136
Delta R.T. 0.003 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:142 Resp: 281151

Ion	Ratio	Lower	Upper
142	100		
141	94.0	73.8	110.6

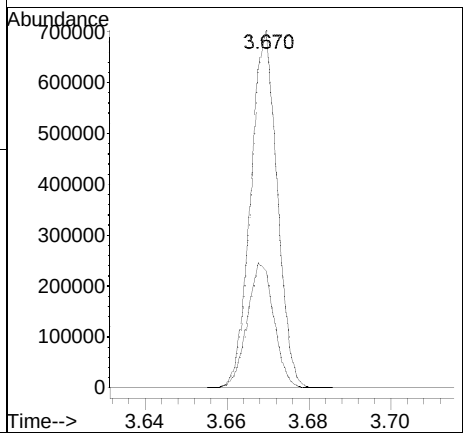


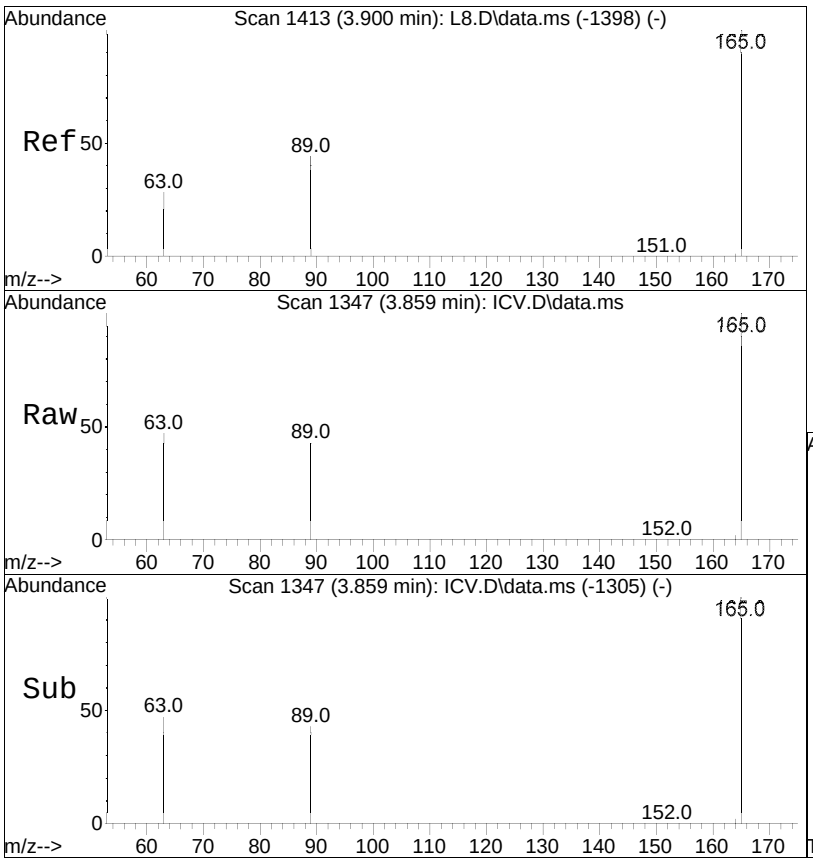


#14
2-Chloronaphthalene
Concen: 1048.85 ng/ml
RT: 3.670 min Scan# 1249
Delta R.T. 0.003 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:162 Resp: 309748

Ion	Ratio	Lower	Upper
162	100		
127	35.4	27.4	41.0

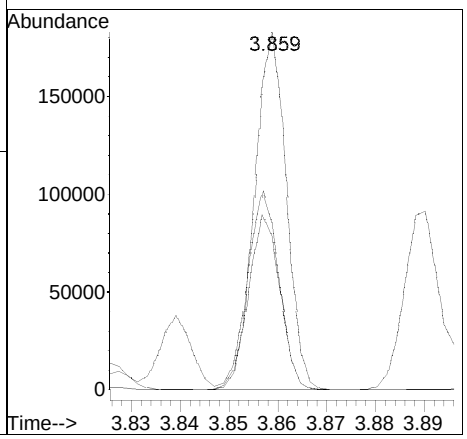


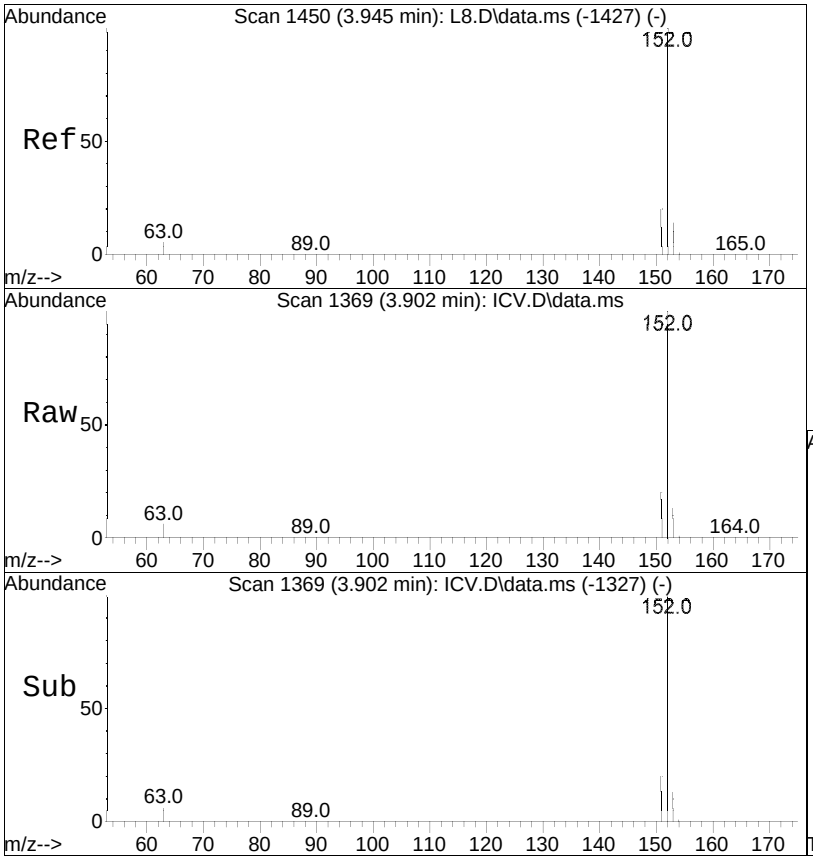


#15
2,6-Dinitrotoluene
Concen: 1129.57 ng/ml
RT: 3.859 min Scan# 1347
Delta R.T. 0.003 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:165 Resp: 82208

Ion	Ratio	Lower	Upper
165	100		
89	49.1	37.8	56.8
63	55.4	36.9	55.3#

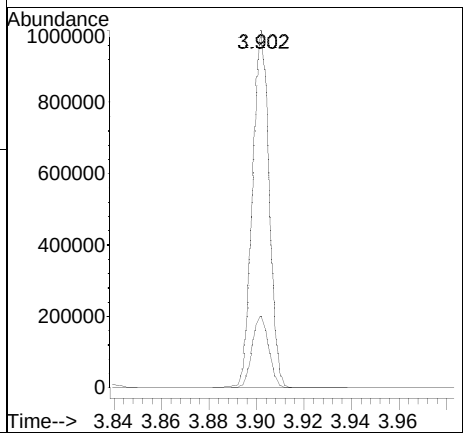


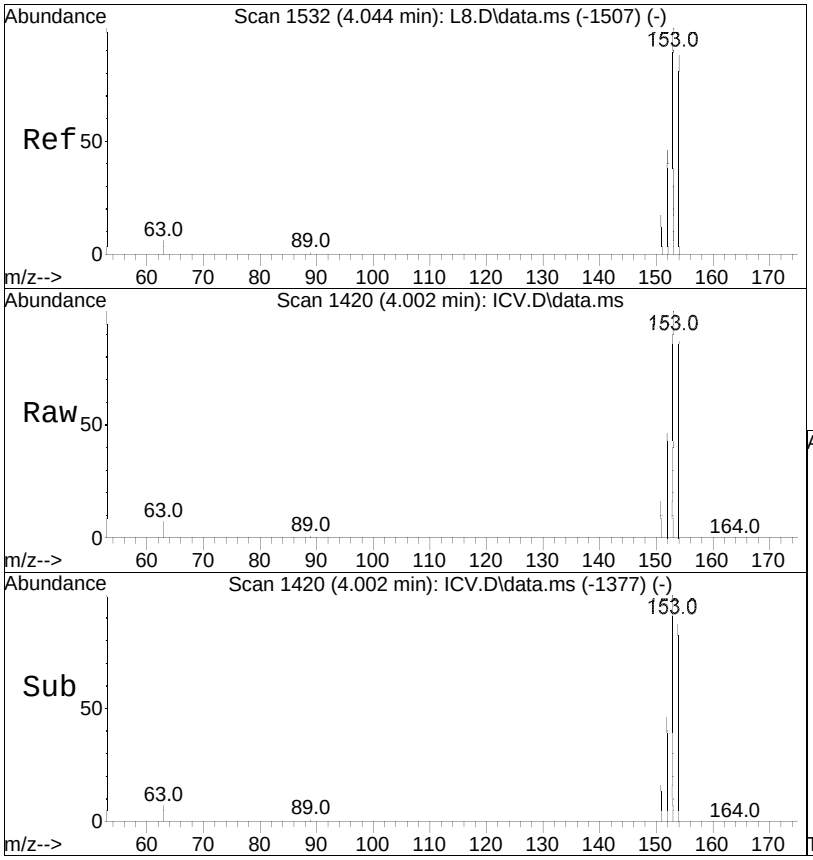


#16
Acenaphthylene
Concen: 1057.72 ng/ml
RT: 3.902 min Scan# 1369
Delta R.T. 0.003 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:152 Resp: 483748

Ion	Ratio	Lower	Upper
152	100		
151	20.1	15.9	23.9

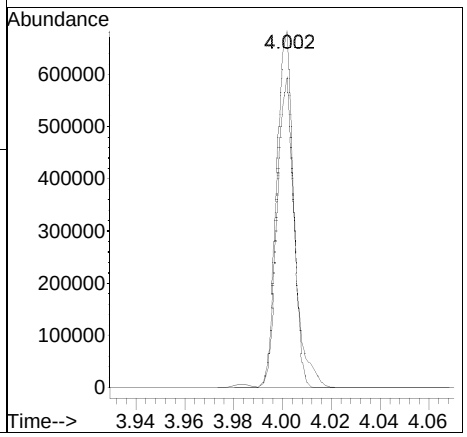


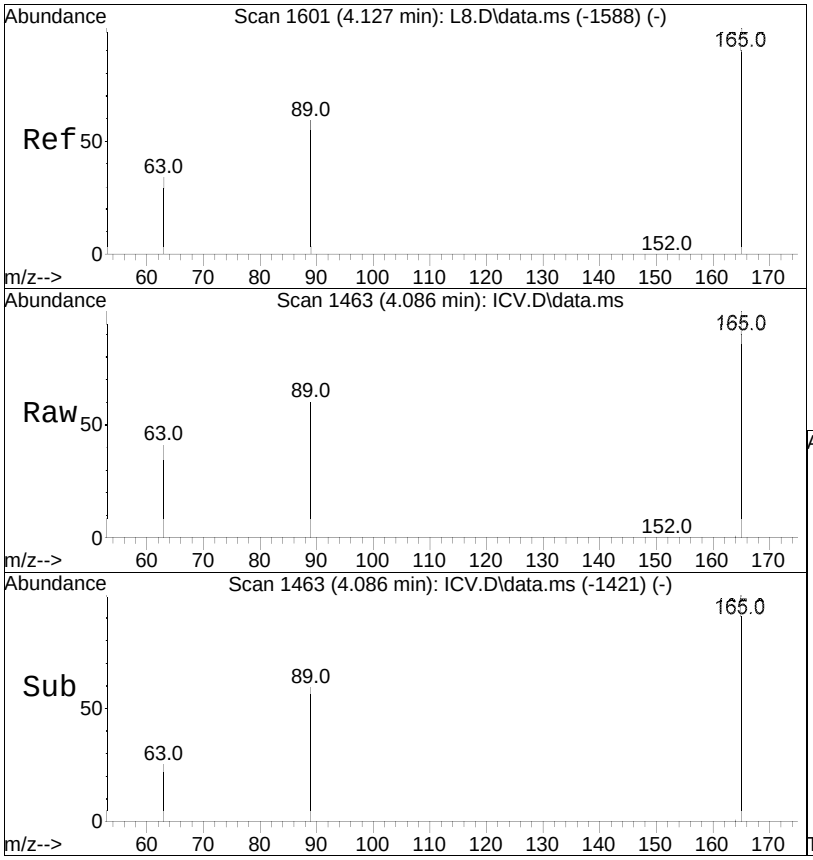


#18
Acenaphthene
Concen: 1042.24 ng/ml
RT: 4.002 min Scan# 1420
Delta R.T. 0.005 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:153 Resp: 319572

Ion	Ratio	Lower	Upper
153	100		
154	92.4	73.1	109.7

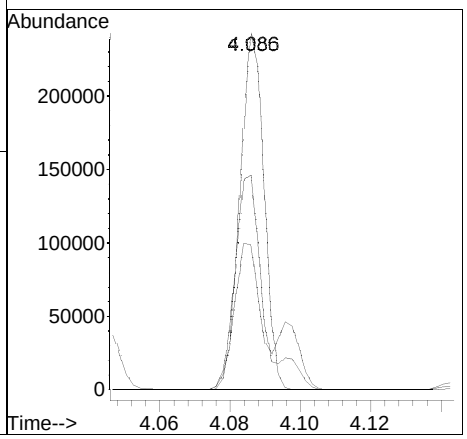


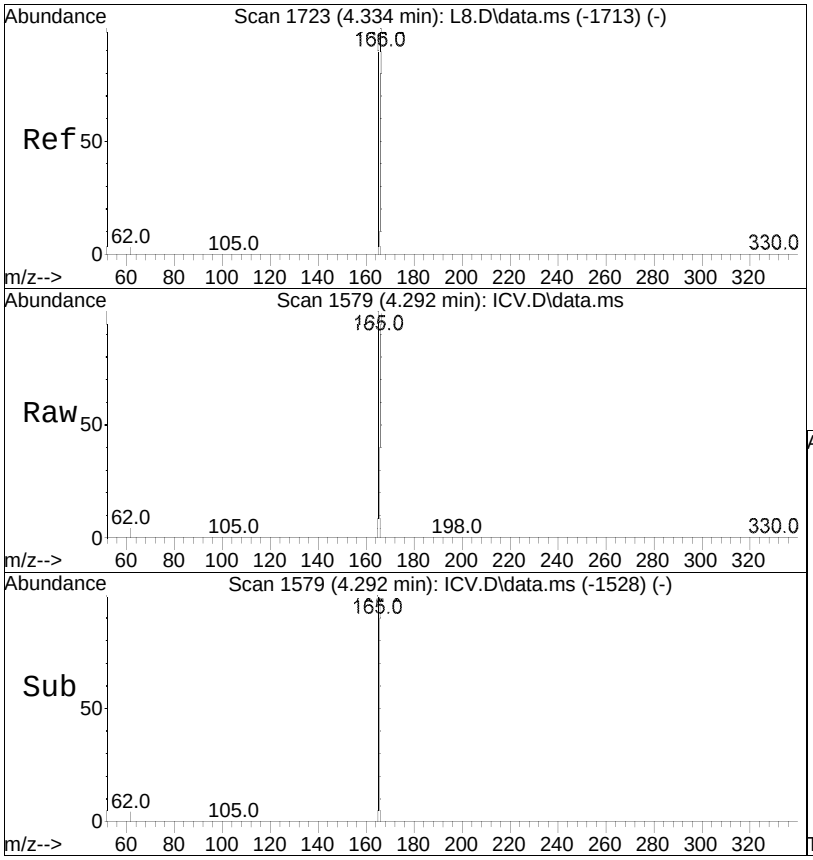


#19
2,4-Dinitrotoluene
Concen: 1169.85 ng/ml
RT: 4.086 min Scan# 1463
Delta R.T. 0.003 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:165 Resp: 114104

Ion	Ratio	Lower	Upper
165	100		
89	64.3	48.7	73.1
63	44.5	28.6	42.8#

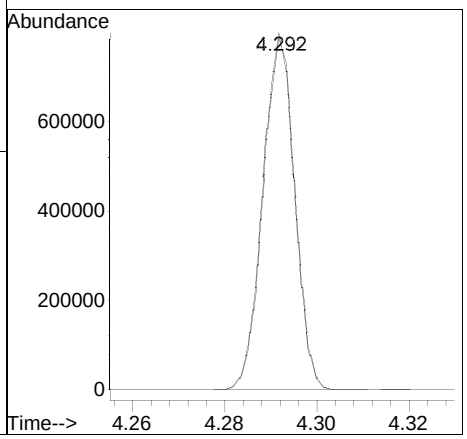


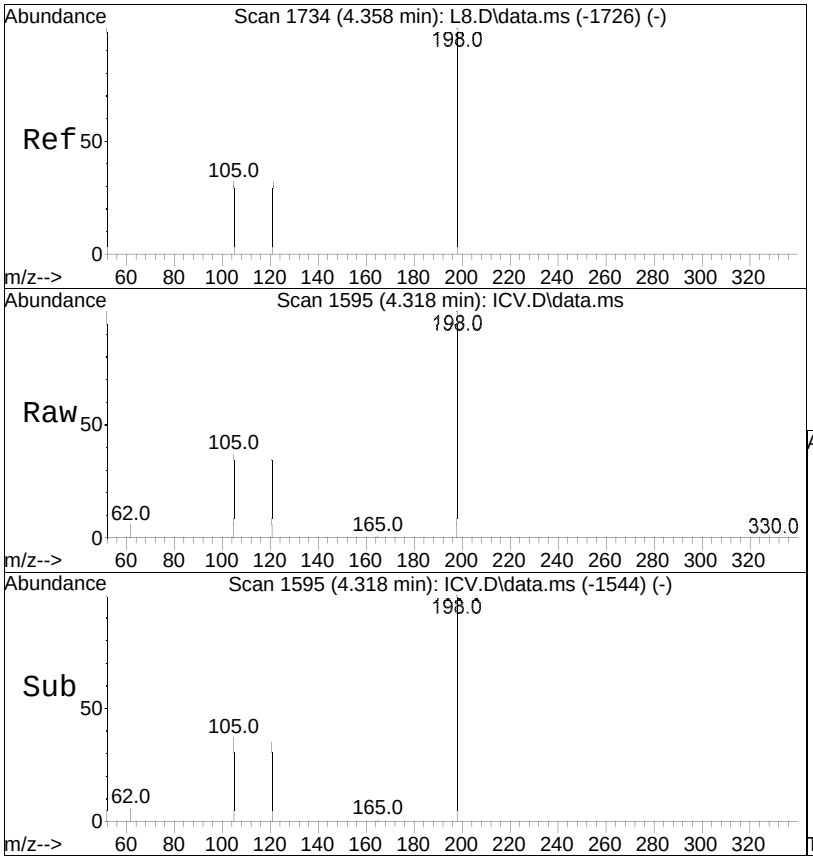


#20
Fluorene
Concen: 1072.35 ng/ml
RT: 4.292 min Scan# 1579
Delta R.T. 0.003 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:166 Resp: 377766

Ion	Ratio	Lower	Upper
166	100		
165	100.5	77.8	116.8

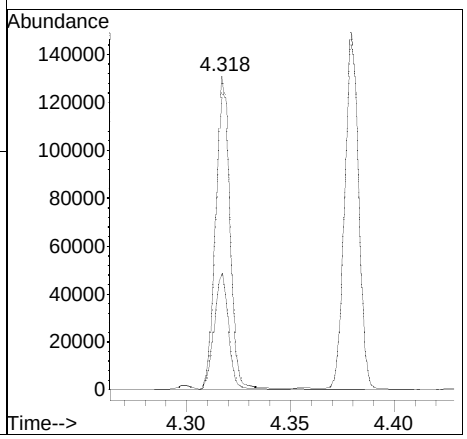


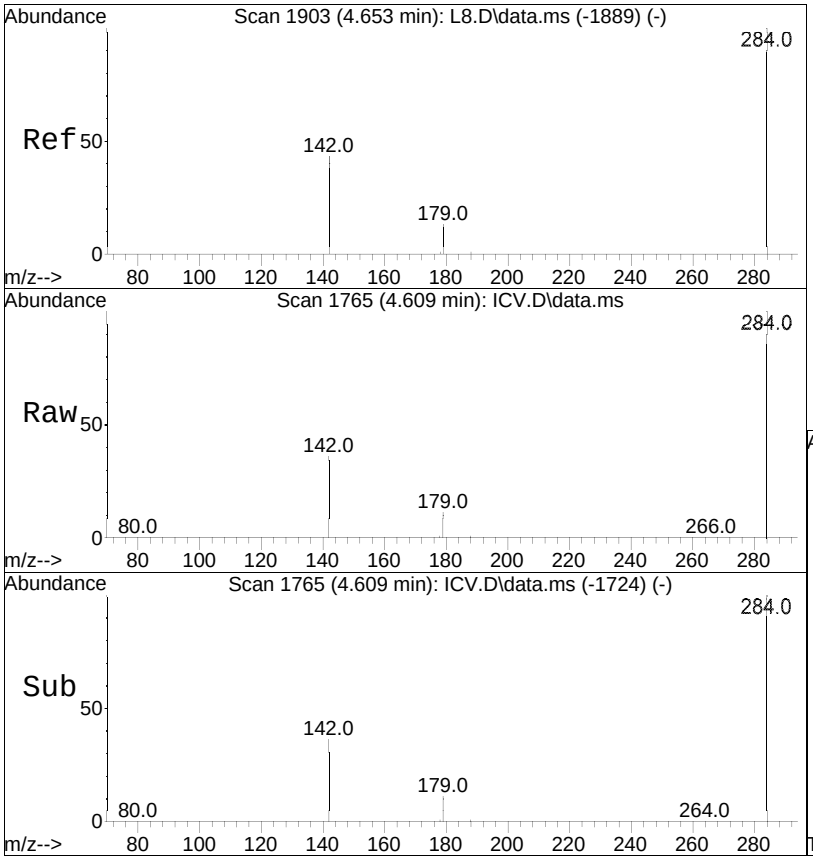


#23
4,6-Dinitro-o-cresol
Concen: 995.82 ng/ml
RT: 4.318 min Scan# 1595
Delta R.T. 0.003 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:198 Resp: 63393

Ion	Ratio	Lower	Upper
198	100		
105	36.5	30.6	45.8

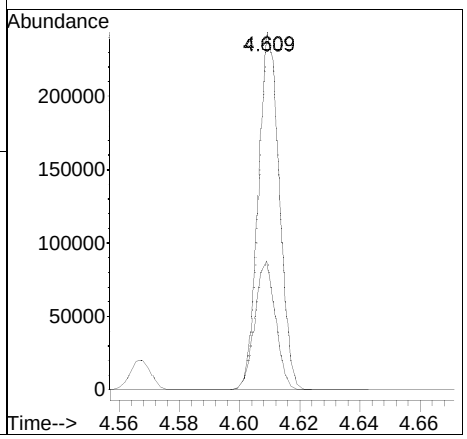


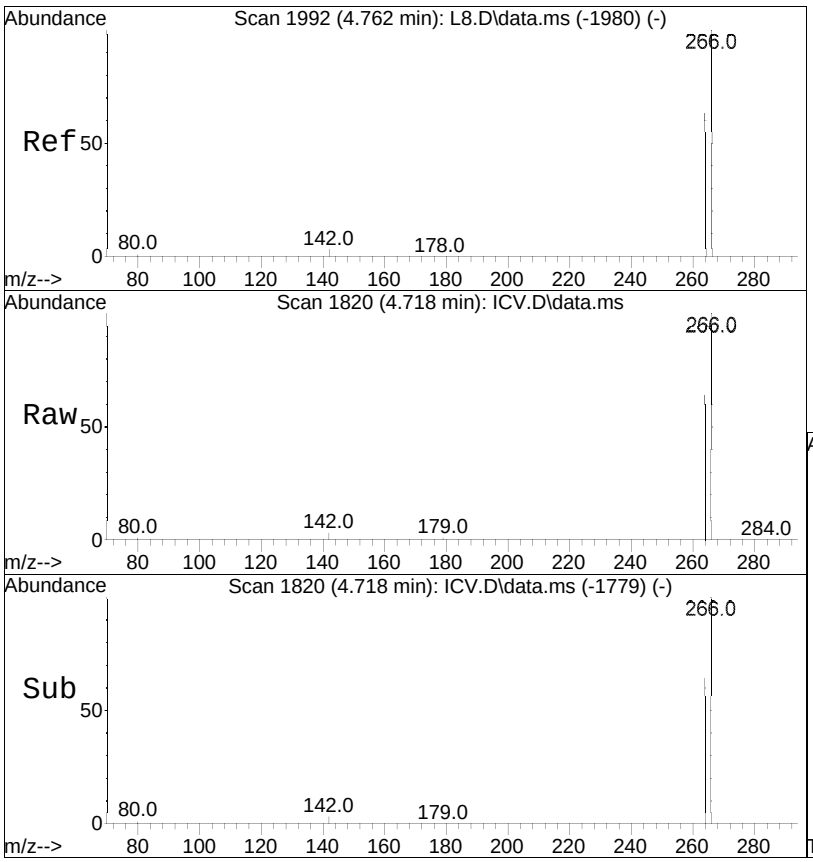


#24
Hexachlorobenzene
Concen: 1019.10 ng/ml
RT: 4.609 min Scan# 1765
Delta R.T. 0.001 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:284 Resp: 116516

Ion	Ratio	Lower	Upper
284	100		
142	35.7	33.8	50.6

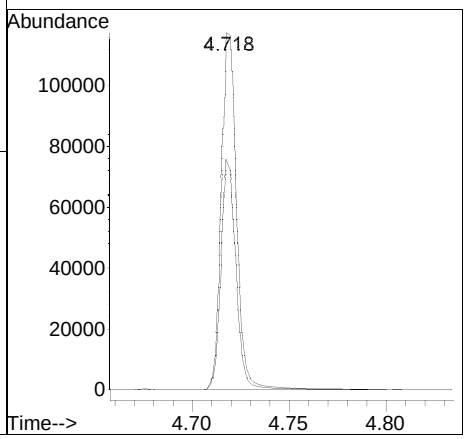


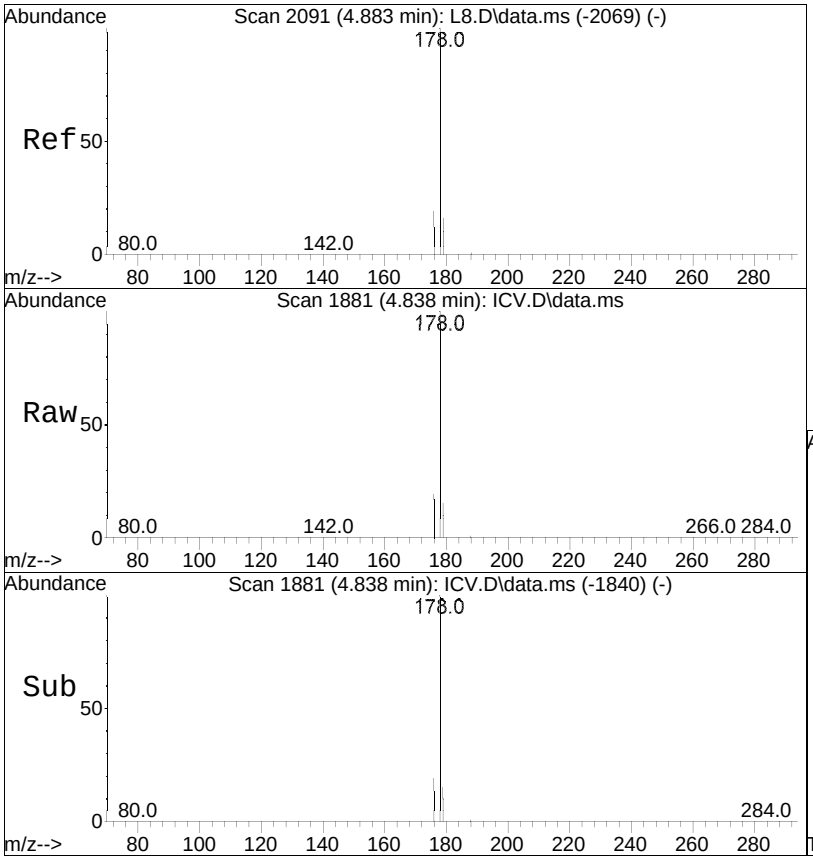


#25
Pentachlorophenol
Concen: 1104.28 ng/ml
RT: 4.718 min Scan# 1820
Delta R.T. 0.002 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:266 Resp: 64222

Ion	Ratio	Lower	Upper
266	100		
264	63.2	50.8	76.2

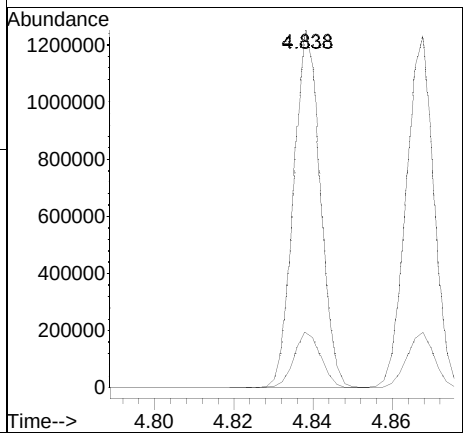


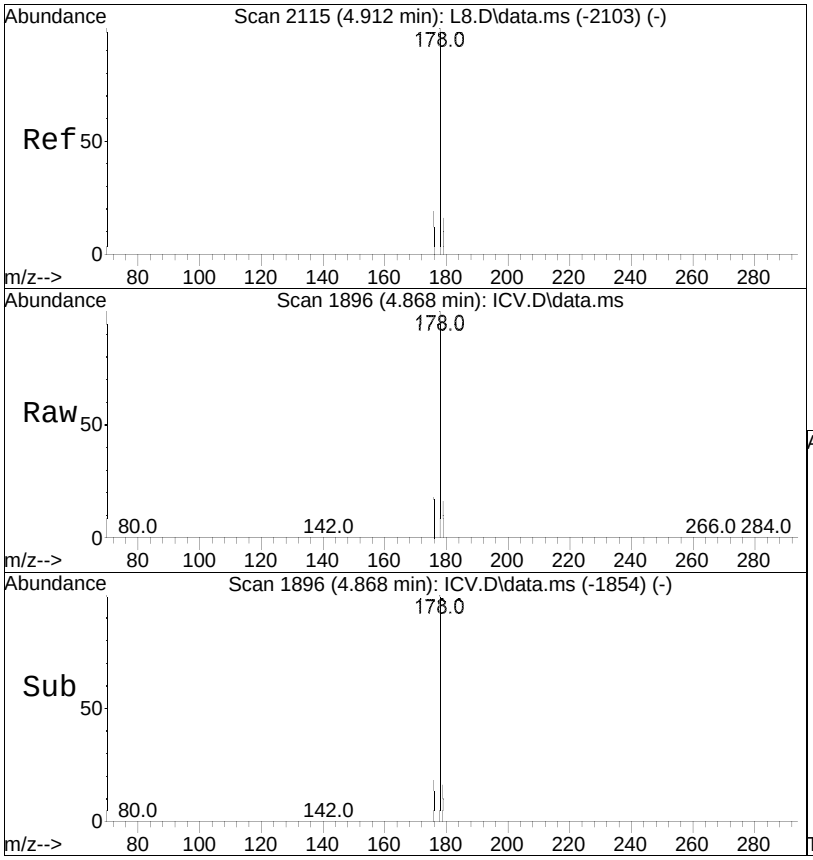


#26
Phenanthrene
Concen: 1039.89 ng/ml
RT: 4.838 min Scan# 1881
Delta R.T. 0.001 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:178 Resp: 589743

Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.8	19.2

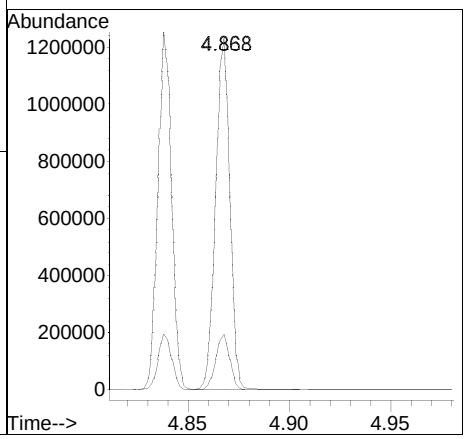


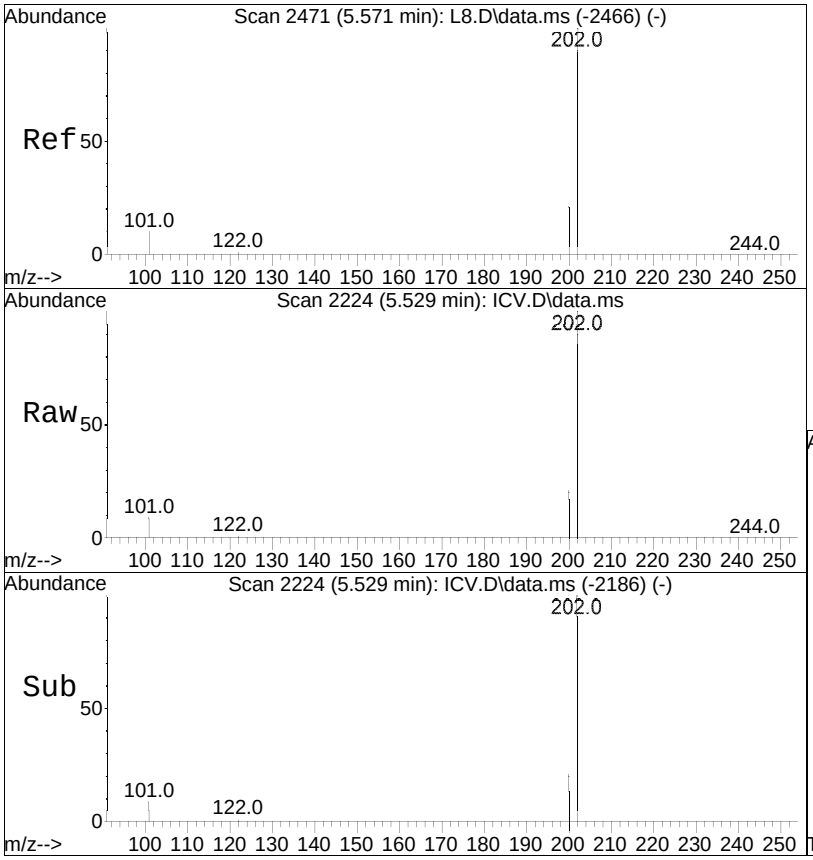


#27
Anthracene
Concen: 1059.50 ng/ml
RT: 4.868 min Scan# 1896
Delta R.T. 0.004 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:178 Resp: 602433

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.6	18.8

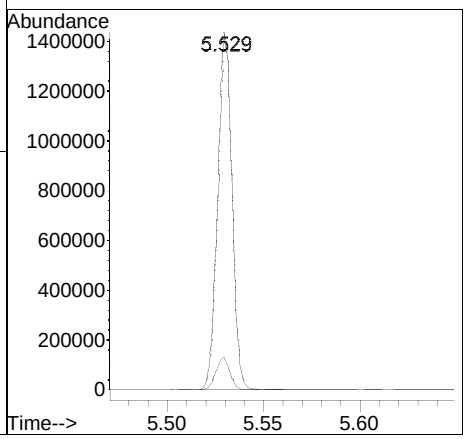


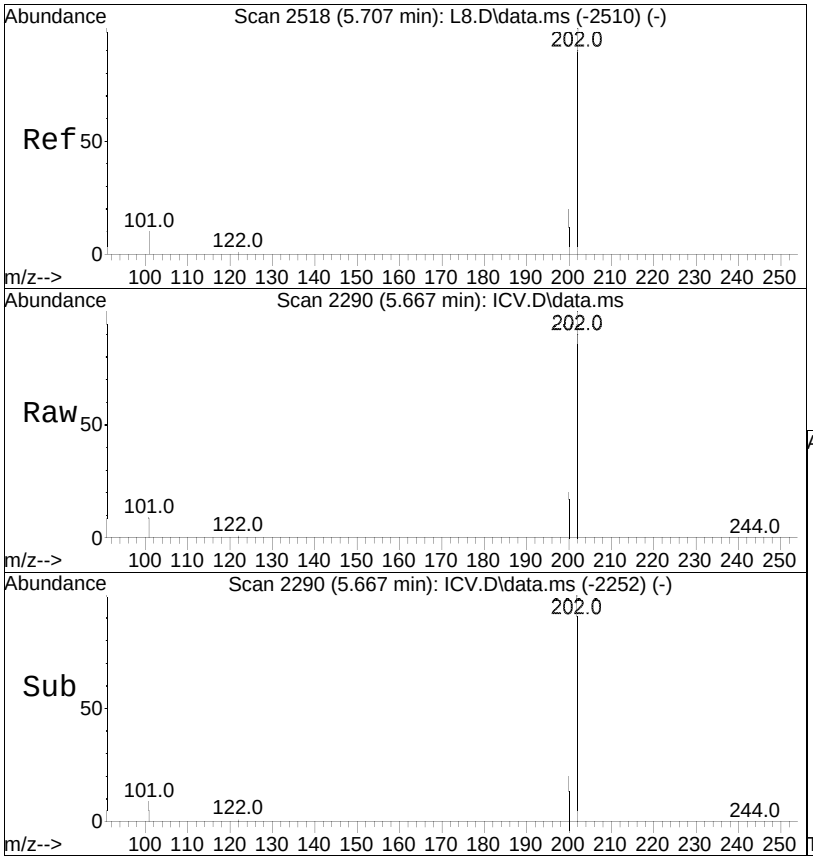


#28
Fluoranthene
Concen: 1022.92 ng/ml
RT: 5.529 min Scan# 2224
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:202 Resp: 725789

Ion	Ratio	Lower	Upper
202	100		
101	9.0	8.2	12.2

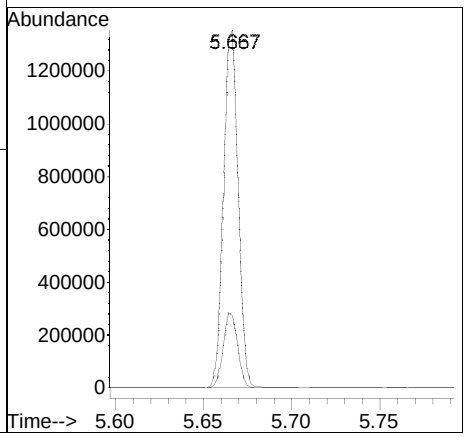


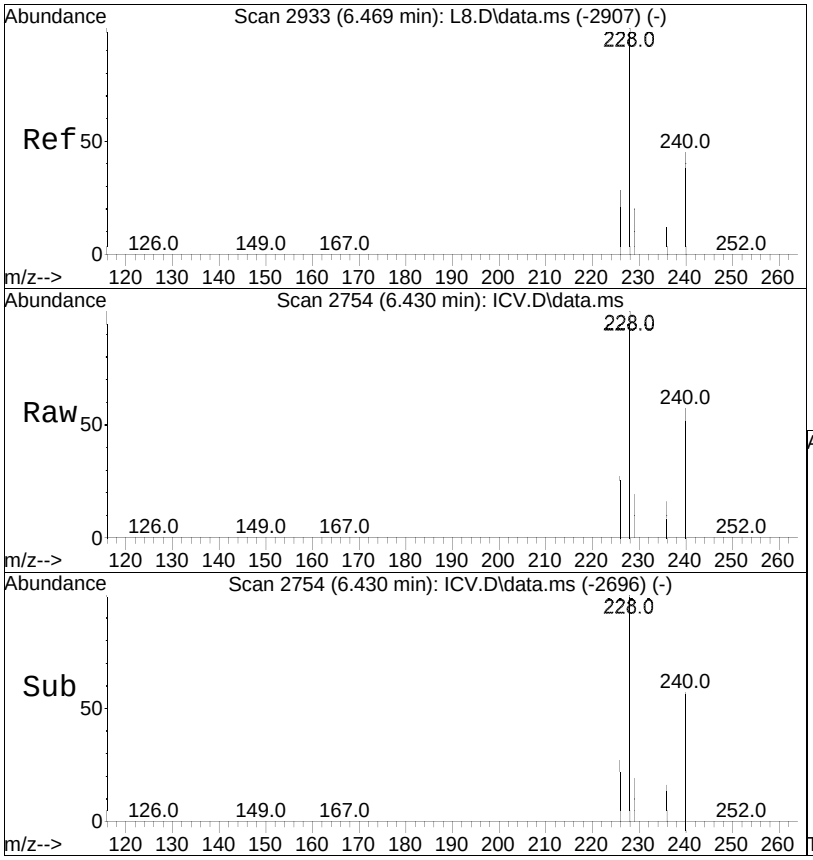


#29
Pyrene
Concen: 1043.13 ng/ml
RT: 5.667 min Scan# 2290
Delta R.T. -0.000 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:202 Resp: 763953

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.9	25.3

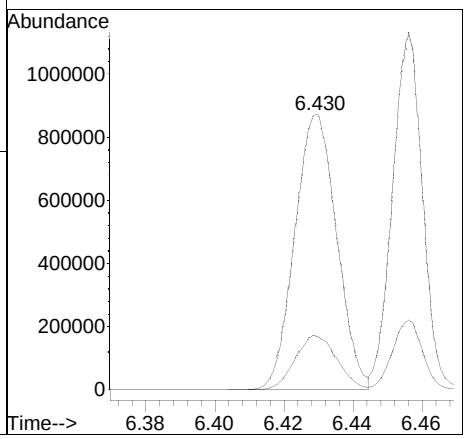


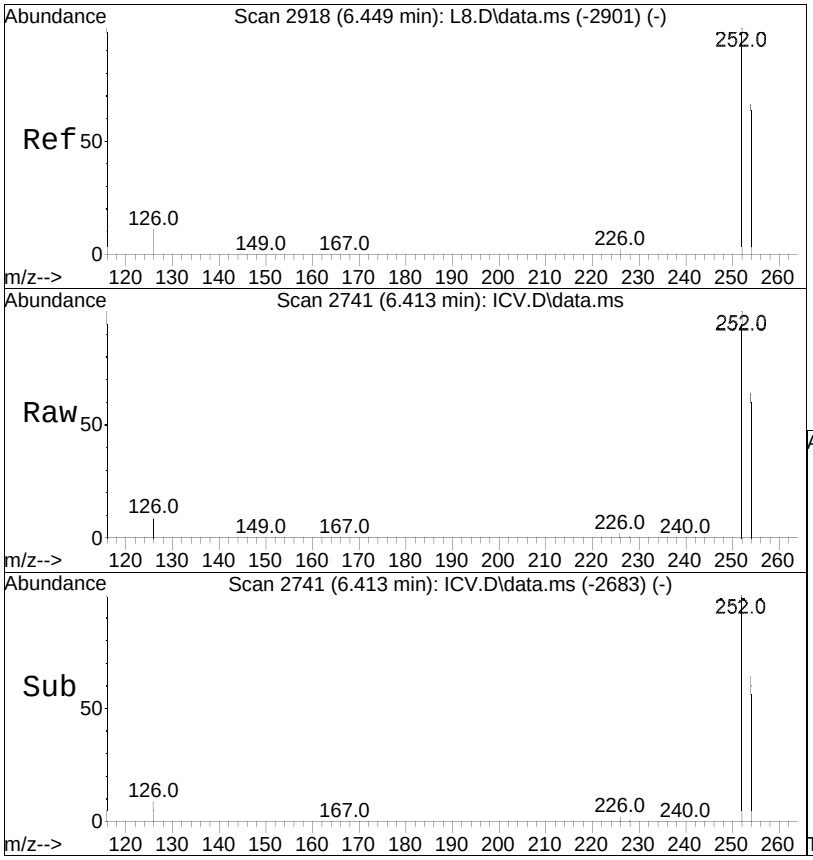


#32
Benzo[a]anthracene
Concen: 1090.32 ng/ml
RT: 6.430 min Scan# 2754
Delta R.T. -0.004 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:228 Resp: 734331

Ion	Ratio	Lower	Upper
228	100		
229	19.6	15.9	23.9

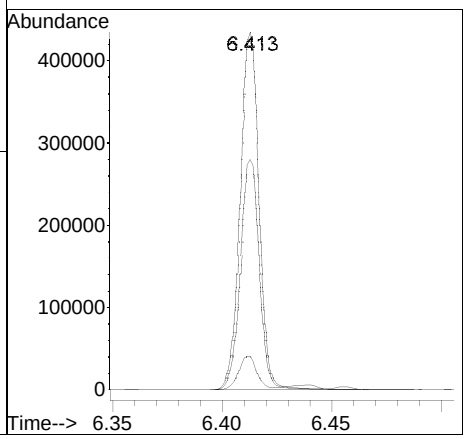


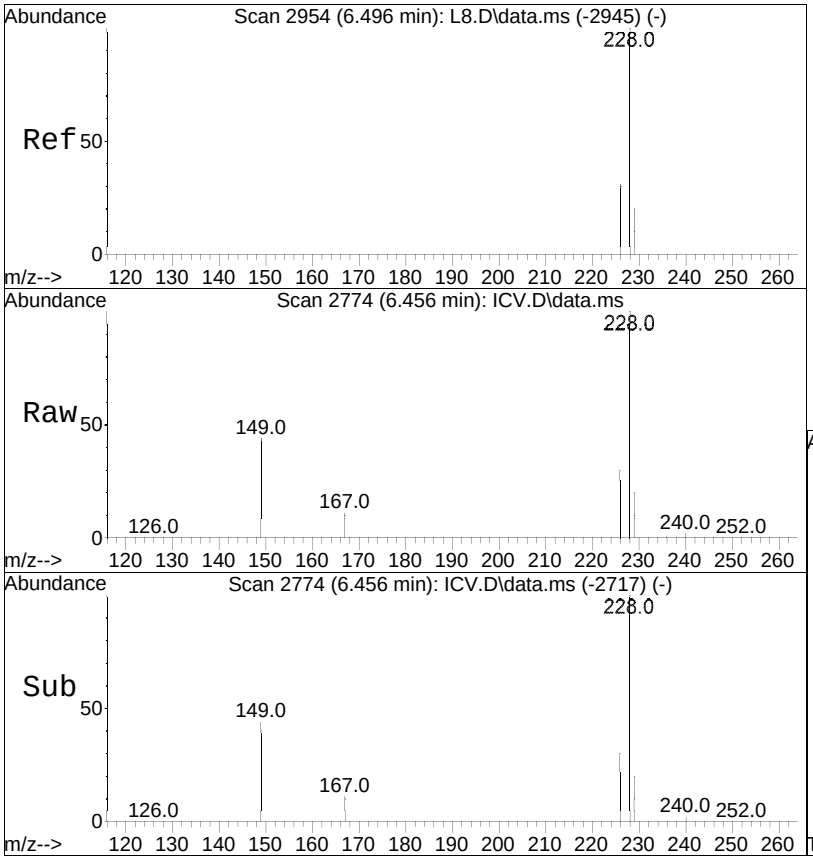


#33
3,3'-Dichlorobenzidine
Concen: 1066.31 ng/ml
RT: 6.413 min Scan# 2741
Delta R.T. -0.004 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:252 Resp: 255382

Ion	Ratio	Lower	Upper
252	100		
126	9.4	8.6	13.0
254	64.6	51.8	77.8

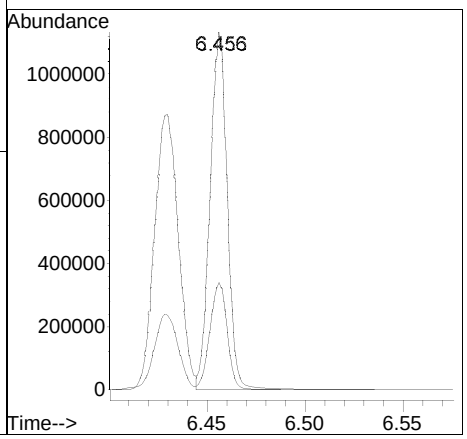


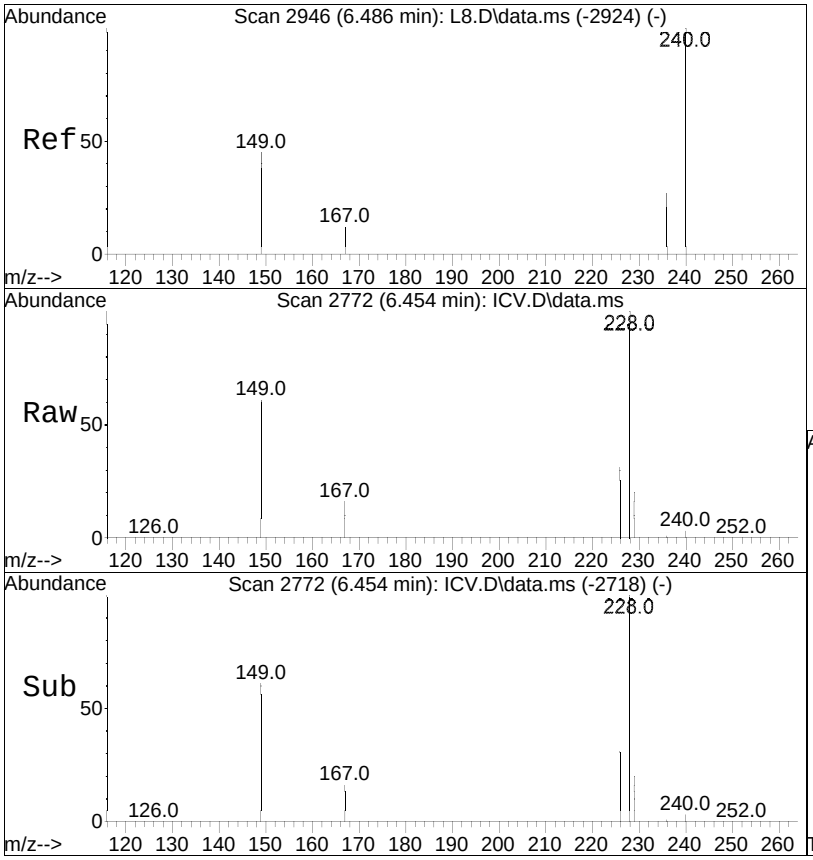


#34
Chrysene
Concen: 1049.40 ng/ml
RT: 6.456 min Scan# 2774
Delta R.T. -0.006 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:228 Resp: 687425

Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.4	36.6

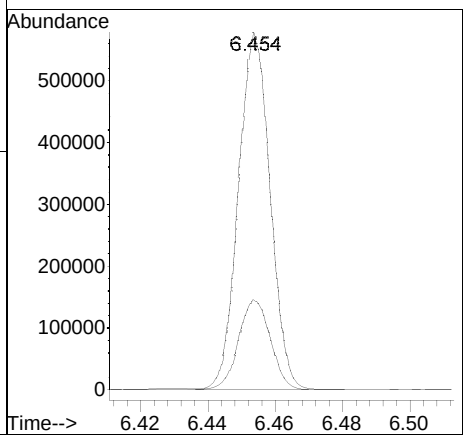


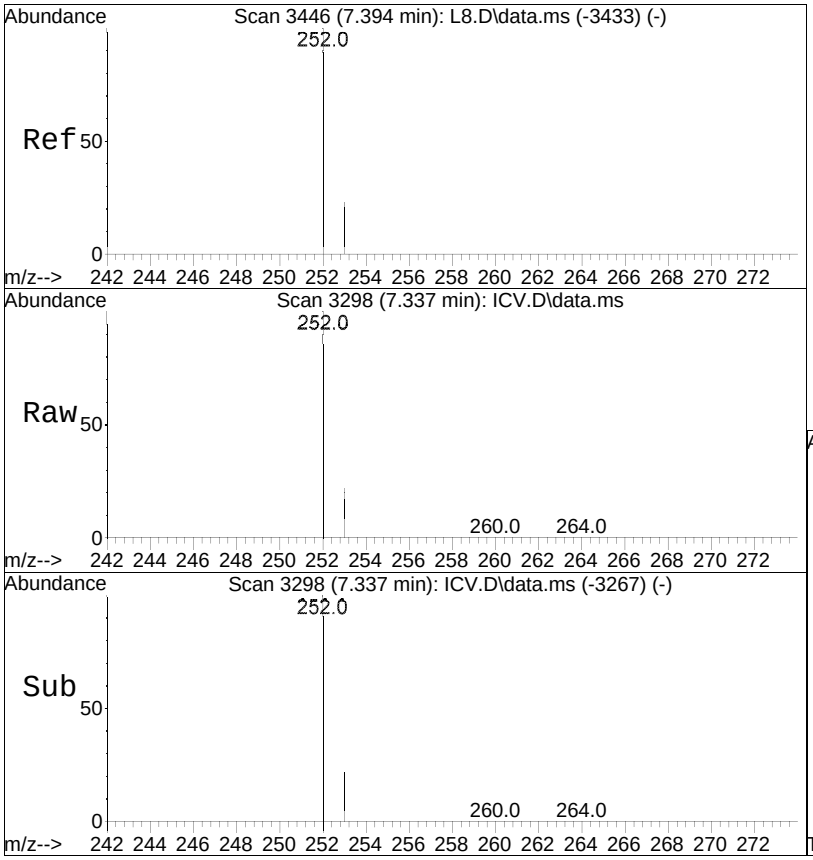


#35
Bis(2-ethylhexyl)phthalate
Concen: 1102.02 ng/ml
RT: 6.454 min Scan# 2772
Delta R.T. -0.009 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:149 Resp: 374501

Ion	Ratio	Lower	Upper
149	100		
167	25.6	20.7	31.1

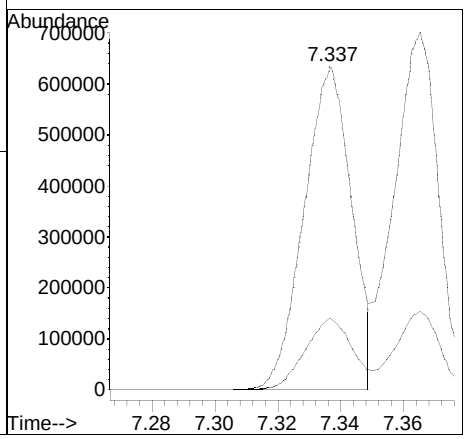


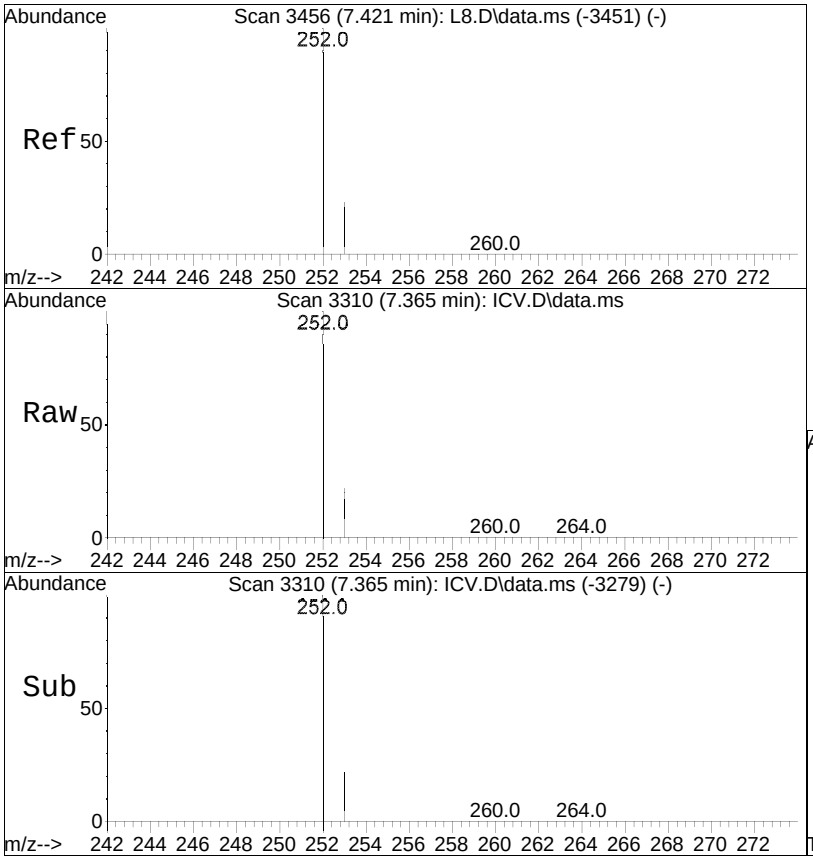


#37
Benzo[b]fluoranthene
Concen: 1060.06 ng/ml
RT: 7.337 min Scan# 3298
Delta R.T. -0.006 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:252 Resp: 664339

Ion	Ratio	Lower	Upper
252	100		
253	22.5	18.1	27.1

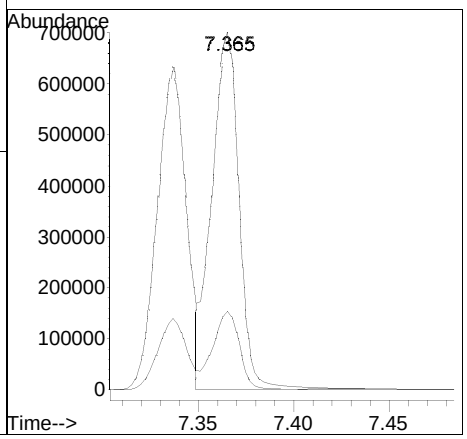


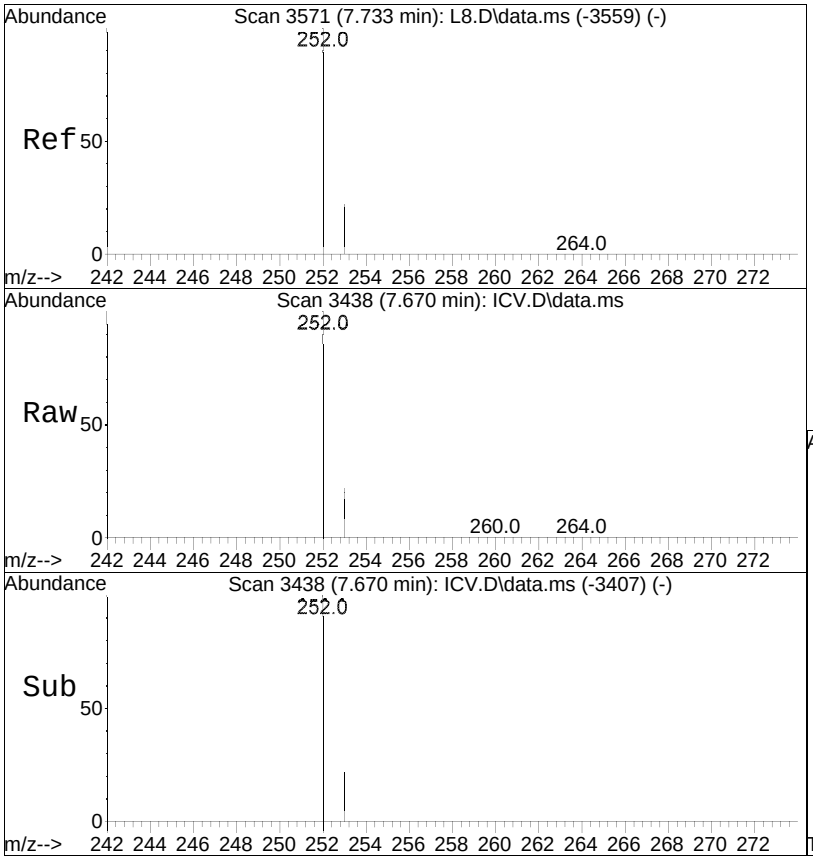


#38
Benzo[k]fluoranthene
Concen: 1120.26 ng/ml
RT: 7.365 min Scan# 3310
Delta R.T. -0.007 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:252 Resp: 692334

Ion	Ratio	Lower	Upper
252	100		
253	21.2	18.2	27.2

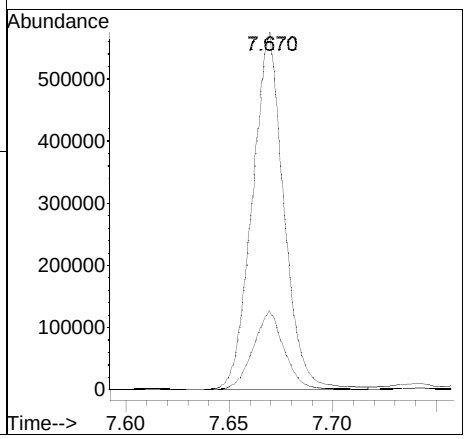


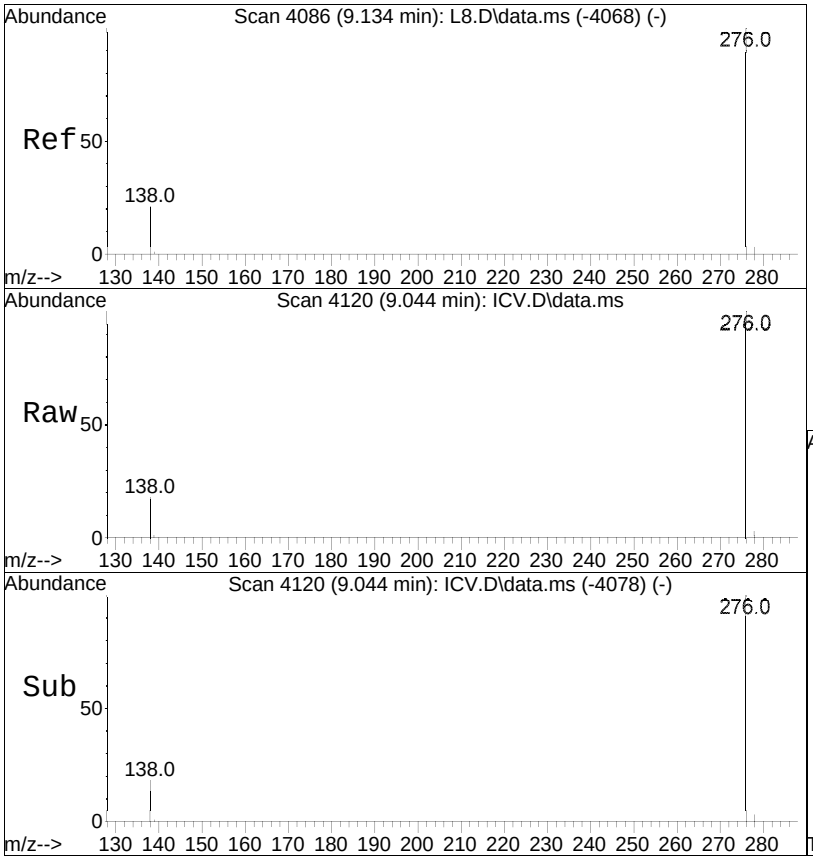


#39
Benzo[a]pyrene
Concen: 1129.74 ng/ml
RT: 7.670 min Scan# 3438
Delta R.T. -0.006 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:252 Resp: 600762

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.9	26.9

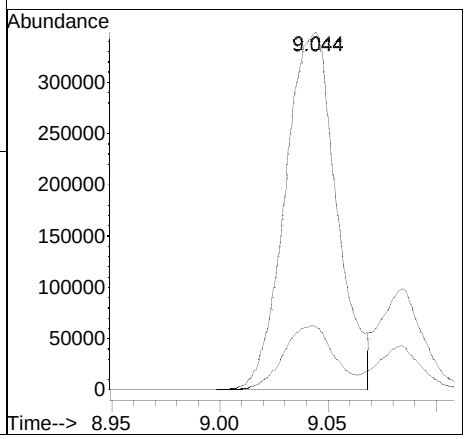


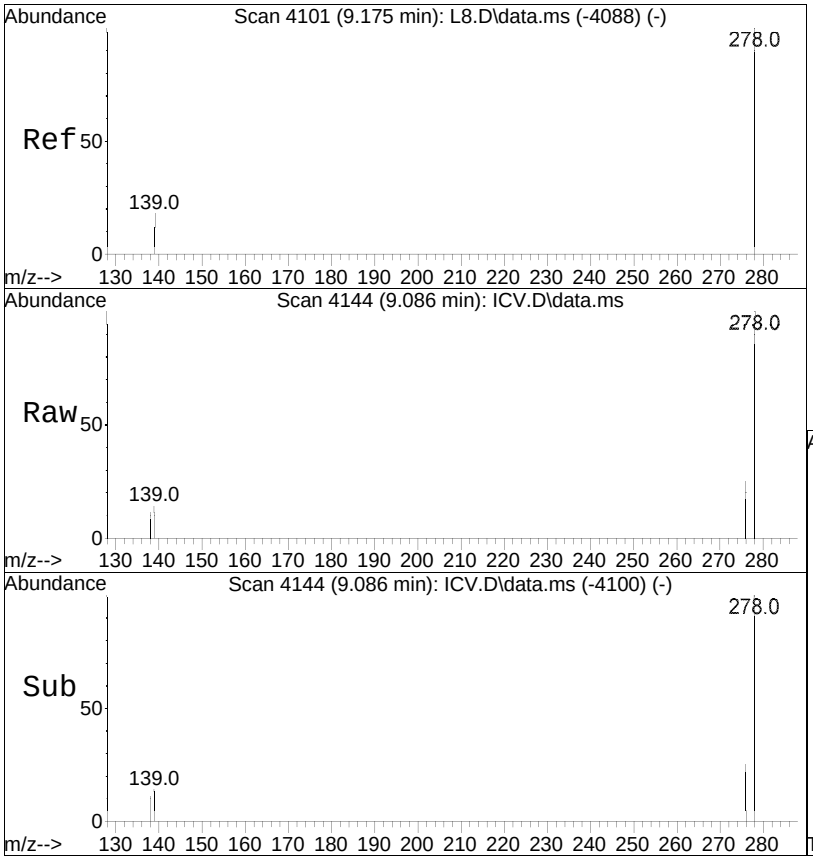


#40
Indeno[1,2,3-cd]pyrene
Concen: 1108.58 ng/ml
RT: 9.044 min Scan# 4120
Delta R.T. -0.008 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:276 Resp: 570718

Ion	Ratio	Lower	Upper
276	100		
138	17.8	16.9	25.3

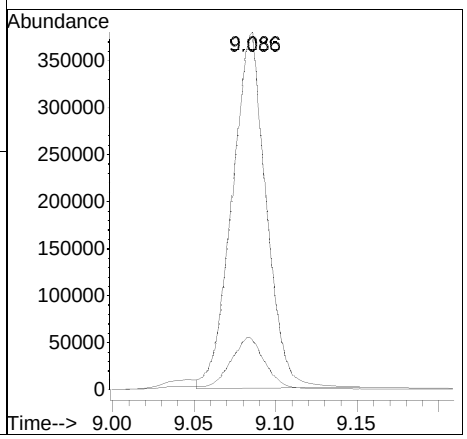


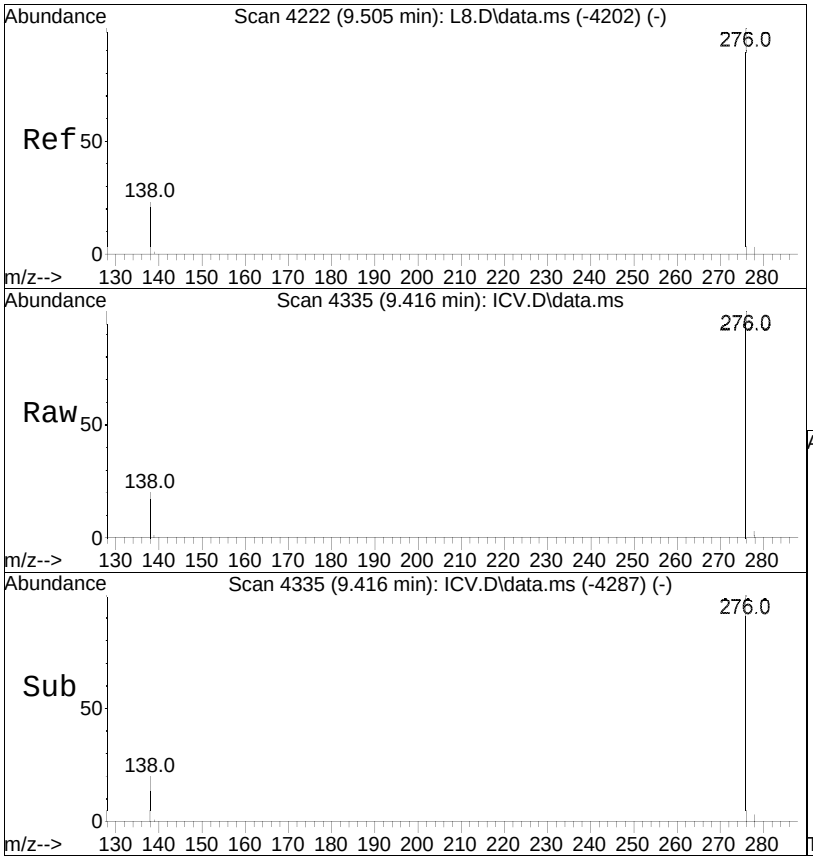


#41
Dibenzo[a,h]anthracene
Concen: 1143.97 ng/ml
RT: 9.086 min Scan# 4144
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:278 Resp: 546347

Ion	Ratio	Lower	Upper
278	100		
139	14.8	14.6	22.0

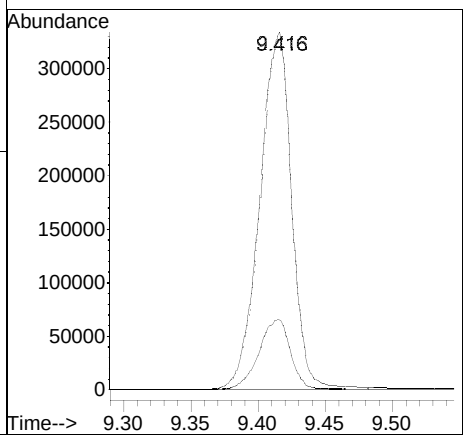




#42
Benzo[g,h,i]perylene
Concen: 1106.01 ng/ml
RT: 9.416 min Scan# 4335
Delta R.T. 0.002 min
Lab File: ICV.D
Acq: 29 Dec 2024 04:26 pm

Tgt Ion:276 Resp: 541938

Ion	Ratio	Lower	Upper
276	100		
138	19.9	18.6	28.0



Manual Integration Report

Data Path	: I:\8270SIM\sv119\241229RVTQ	Method	: SIM-RVT_241229_sv119.M
Data File	: ICV.D	Operator	: sv119:jjw
Date Inj'd	: 12/29/2024 4:26 pm	Instrument	: SV119
Sample	: CQICV,32,, #10884 1000 ng/	Quant Date	: 12/31/2024 4:06 pm

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

Evaluate Relative Error Report SV119

Method Path : I:\8270SIM\sv119\241229RVTical\
Method File : SIM-RVT_241229_sv119.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Dec 30 14:10:06 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
23 T	4,6-Dinitro-o-cresol	L	ng/ml	1000.0	928.938	-7.1	40.00	51.908	29.8
25 T	Pentachlorophenol	Q	ng/ml	1000.0	975.015	-2.5	10.00	12.918	29.2
32 T	Benzo[a]anthracene	L	ng/ml	1000.0	993.722	-0.6	1.00	0.997	-0.3
33 T	3,3'-Dichlorobenzidine	L	ng/ml	1000.0	900.458	-10.0	40.00	53.130	32.8

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
23 T	4,6-Dinitro-o-cresol	Linear	0.997522	0.000000	0.134994	-0.000924672
25 T	Pentachlorophenol	Quadratic	0.996099	0.027892	0.111421	0.00022454
32 T	Benzo[a]anthracene	Linear	0.999536	0.000000	1.40593	0.00274239
33 T	3,3'-Dichlorobenzidine	Linear	0.996198	0.000000	0.516632	-0.00349123

Response Factor Report SV118

Method Path : I:\8270SIM\SV118\250203RVTical\
Method File : SIM-RVT_250203sv118.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Feb 10 09:31:08 2025
Response Via : Initial Calibration

Calibration Files
L1 =L1.D L2 =L2.D L3 =L3.D L4 =L4.D L5 =L5.D L6 =L6.D L7 =L7.D L8 =L8.D L9 =L9.D
L10 =L10.D

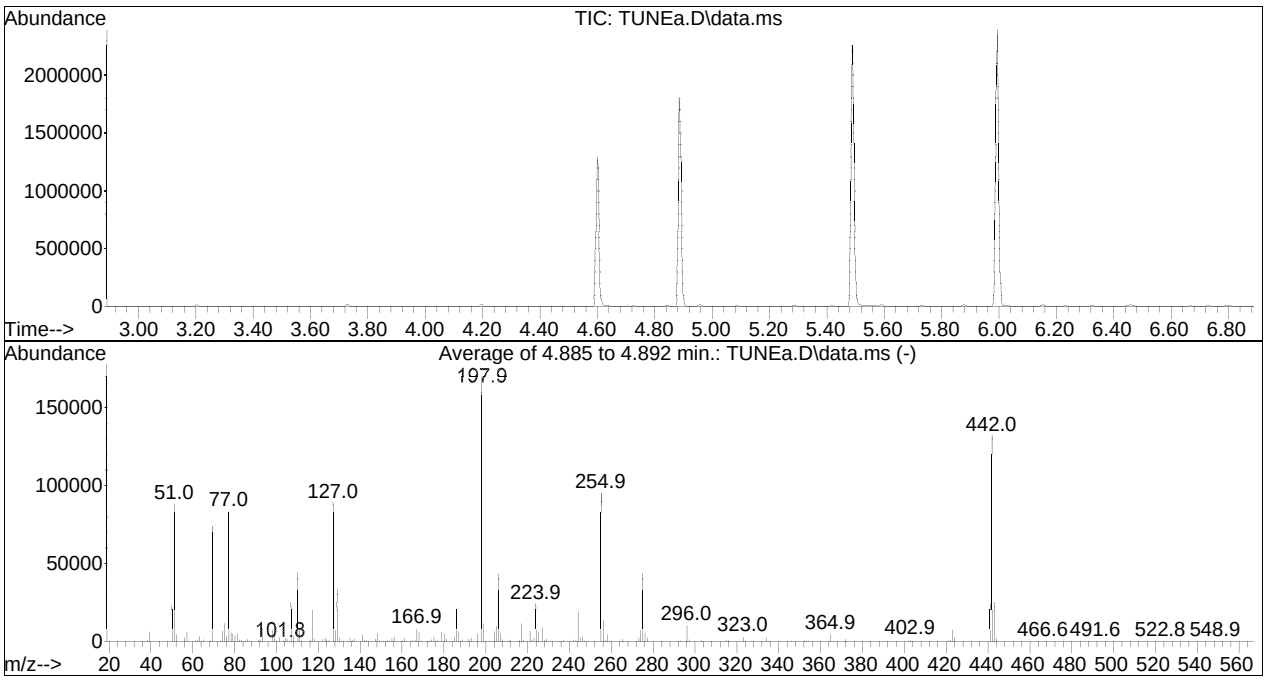
		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
1)	i	1,4-Dichlorobenzene-d4	ISTD											
2)	s	2-Fluorophenol	1.239	1.204	1.243	1.241	1.289	1.259	1.229	1.173	1.131	1.223		3.88
3)	s	Phenol-d6	1.538	1.428	1.427	1.436	1.495	1.503	1.482	1.446	1.435	1.466		2.72
4)	T	bis(2-Chloroethyl)ether		1.452	1.310	1.318	1.349	1.310	1.269	1.206	1.195	1.301		6.29
5)	T	n-Nitrosodi-n-propylamine	0.803	0.785	0.765	0.784	0.828	0.882	0.885	0.888	0.892	0.835		6.26
6)	t	Hexachloroethane		0.559	0.549	0.537	0.556	0.556	0.546	0.528	0.523	0.544		2.49
7)	s	Nitrobenzene-d5	1.228	1.170	1.104	1.095	1.173	1.220	1.272	1.256	1.232	1.217	1.197	5.04
8)	i	Naphthalene-d8	ISTD											
9)	t	Naphthalene	1.330	1.169	1.168	1.134	1.162	1.130	1.100	1.042	0.996	1.137		8.24
10)	t	Hexachlorobutadiene			0.210	0.207	0.213	0.208	0.204	0.193	0.190	0.204		4.20
11)	t	2-Methylnaphthalene	0.787	0.701	0.704	0.710	0.730	0.723	0.703	0.665	0.643	0.707		5.74
12)	t	1-Methylnaphthalene	0.789	0.712	0.718	0.728	0.748	0.737	0.711	0.675	0.652	0.719		5.54
13)	s	2-Fluorobiphenyl	0.940	0.997	0.878	0.887	0.891	0.906	0.879	0.841	0.788	0.751	0.876	8.03
14)	t	2-Chloronaphthalene	0.807	0.766	0.757	0.780	0.799	0.787	0.762	0.726	0.703	0.765		4.39
15)	t	2,6-Dinitrotoluene					0.137	0.148	0.178	0.184	0.189	0.186	0.170	12.95
16)	t	Acenaphthylene	1.189	1.093	1.083	1.145	1.212	1.269	1.236	1.188	1.115	1.170		5.54
17)	i	Acenaphthene-d10	ISTD											
18)	t	Acenaphthene	1.578	1.459	1.432	1.440	1.464	1.429	1.400	1.324	1.289	1.424		5.86
19)	t	2,4-Dinitrotoluene					0.305	0.349	0.437	0.456	0.465	0.456	0.411	16.37
20)	t	Fluorene	1.628	1.690	1.541	1.511	1.554	1.609	1.622	1.576	1.494	1.431	1.566	4.82
21)	s	2,4,6-Tribromophenol			0.145	0.144	0.156	0.181	0.212	0.214	0.214	0.214	0.185	17.53
22)	i	Phenanthrene-d10	ISTD											
23)	T	4,6-Dinitro-o-cresol					0.052	0.072	0.107	0.117	0.128	0.135	*L	0.9973
24)	t	Hexachlorobenzene		0.290	0.264	0.262	0.268	0.279	0.270	0.262	0.246	0.243	0.265	5.57
25)	t	Pentachlorophenol				0.059	0.063	0.088	0.130	0.141	0.152		*Q	0.9979
26)	t	Phenanthrene	1.301	1.264	1.238	1.198	1.247	1.255	1.227	1.190	1.126	1.066	1.211	5.77
27)	t	Anthracene	1.273	1.263	1.156	1.156	1.189	1.236	1.258	1.223	1.160	1.107	1.202	4.68
28)	t	Fluoranthene	1.511	1.425	1.362	1.286	1.392	1.419	1.448	1.388	1.331	1.231	1.379	5.88
29)	t	Pyrene	1.550	1.470	1.410	1.321	1.447	1.470	1.517	1.456	1.370	1.262	1.427	6.19
30)	s	4-Terphenyl-d14	1.052	0.994	0.932	0.865	0.947	0.960	0.967	0.913	0.868	0.794	0.929	7.91
31)	i	Chrysene-d12	ISTD											
32)	t	Benzo[a]anthracene			0.534	0.436	0.390	0.392	0.411	0.408	0.403	0.407	0.423	11.16
33)	t	3,3'-Dichlorobenzidine					0.419	0.456	0.550	0.578	0.600	0.604	0.534	14.68
34)	t	Chrysene	1.390	1.357	1.364	1.358	1.421	1.446	1.429	1.385	1.338	1.314	1.380	3.05
35)	T	bis(2-Ethylhexyl)phthalate					0.556	0.603	0.795	0.883	0.958	0.999	*L	0.9974
36)	i	Perylene-d12	ISTD											
37)	t	Benzo[b]fluora...	1.338	1.316	1.277	1.249	1.270	1.349	1.381	1.342	1.317	1.321	1.316	3.06
38)	t	Benzo[k]fluora...	1.173	1.259	1.124	1.188	1.219	1.299	1.367	1.346	1.282	1.266	1.252	6.13
39)	t	Benzo[a]pyrene	1.037	1.021	0.982	1.006	1.029	1.103	1.191	1.200	1.187	1.195	1.095	8.21
40)	t	Indeno[1,2,3-c...		0.884	0.863	0.888	0.902	0.951	1.005	1.060	1.074	1.111	0.971	9.69
41)	t	Dibenzo[a,h]anthracene	0.886	0.835	0.786	0.834	0.875	0.960	1.026	1.058	1.046	1.066	0.937	11.36
42)	t	Benzo[g,h,i]pe...		0.942	0.922	0.936	0.985	1.052	1.079	1.110	1.092	1.115	1.026	7.75

(#) = Out of Range

Data Path : I:\8270SIM\SV118\250203RVTical\
Data File : TUNEa.D
Acq On : 03 Feb 2025 03:28 pm
Operator : SV118:rp
Sample : TUNE
Misc : WG2028184,,ical
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Feb 07 14:32:24 2025



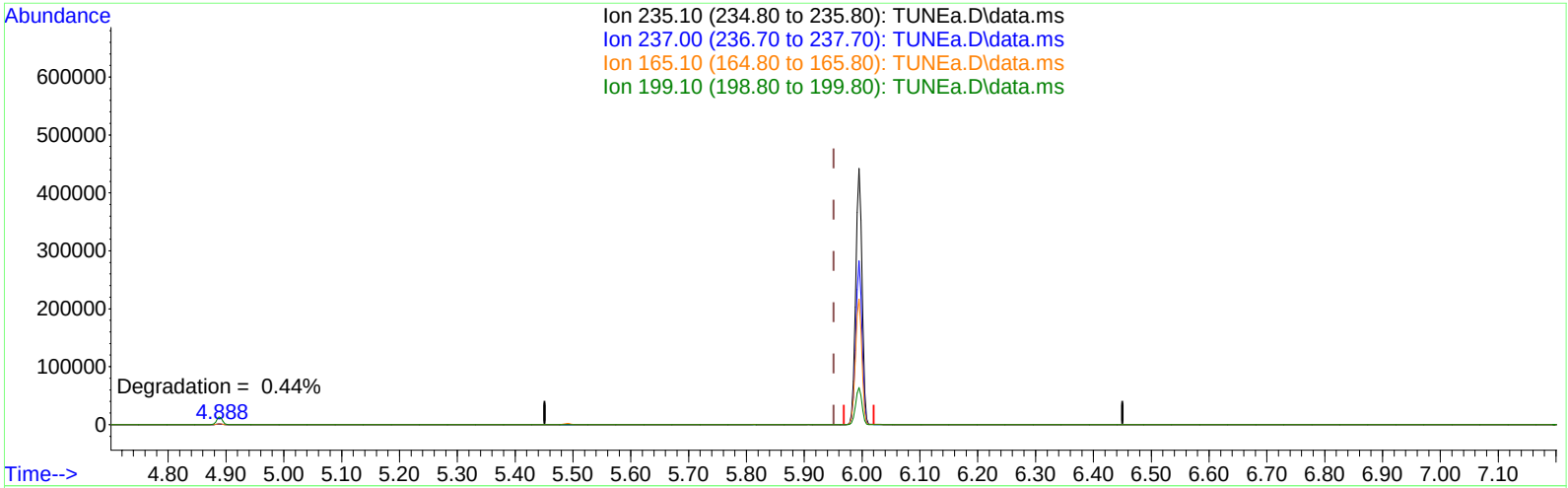
Spectrum Information: Average of 4.885 to 4.892 min.

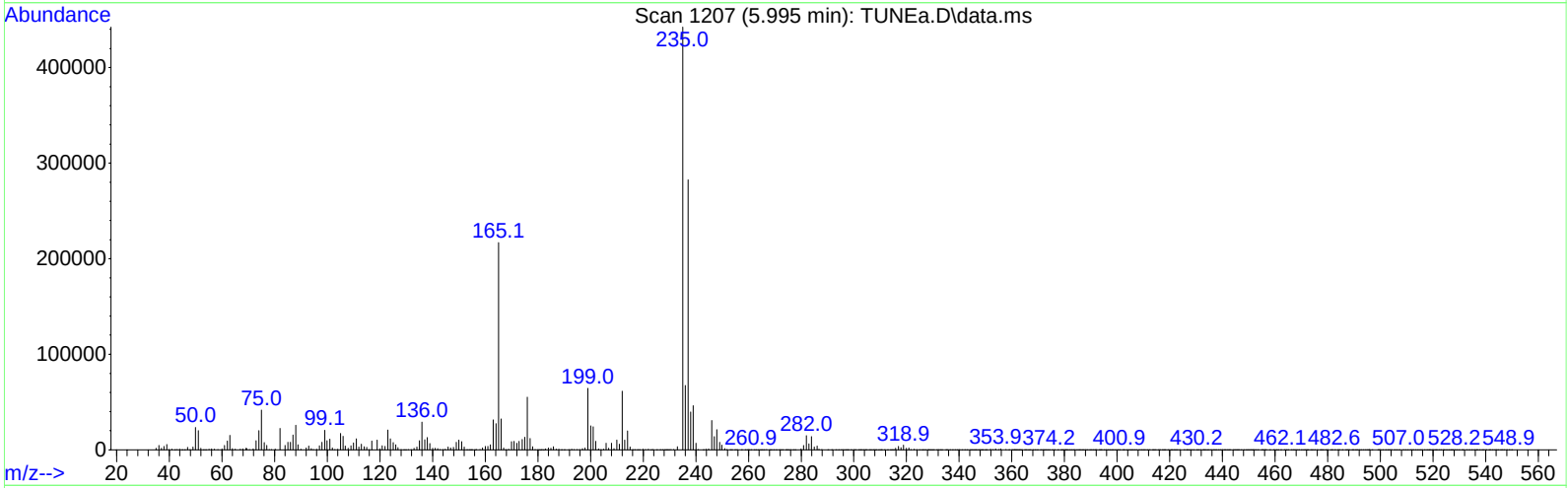
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	52.0	88032	PASS
68	69	0.00	2	1.4	1027	PASS
69	69	100	100	100.0	73990	PASS
70	69	0.00	2	0.6	413	PASS
127	198	10	80	52.5	88923	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	169344	PASS
199	198	5	9	6.8	11569	PASS
275	198	10	60	25.7	43466	PASS
365	198	1	100	2.9	4903	PASS
441	442	0.01	24	18.2	24057	PASS
442	198	50	100	78.0	132025	PASS
443	442	15	24	18.8	24854	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV118\250203RVTical\
Data File : TUNEa.D
Acq On : 03 Feb 2025 03:28 pm
Operator : SV118:rp
Sample : TUNE
Misc : WG2028184,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Feb 03 15:42:23 2025
Quant Method : I:\8270SIM\SV118\250203RVTical\dftppsv118.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jan 31 09:46:03 2025
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





CHROMtools™ [TUNE]

(6) ddt (T)

5.995min (+ 0.044) 54.43

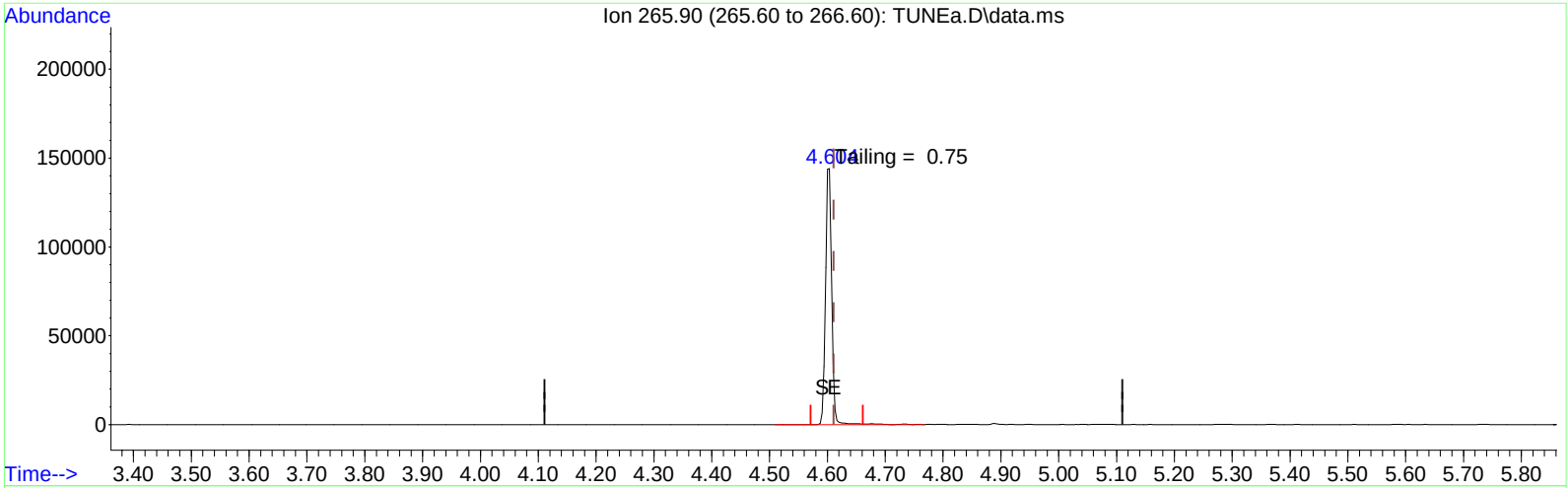
response 331812

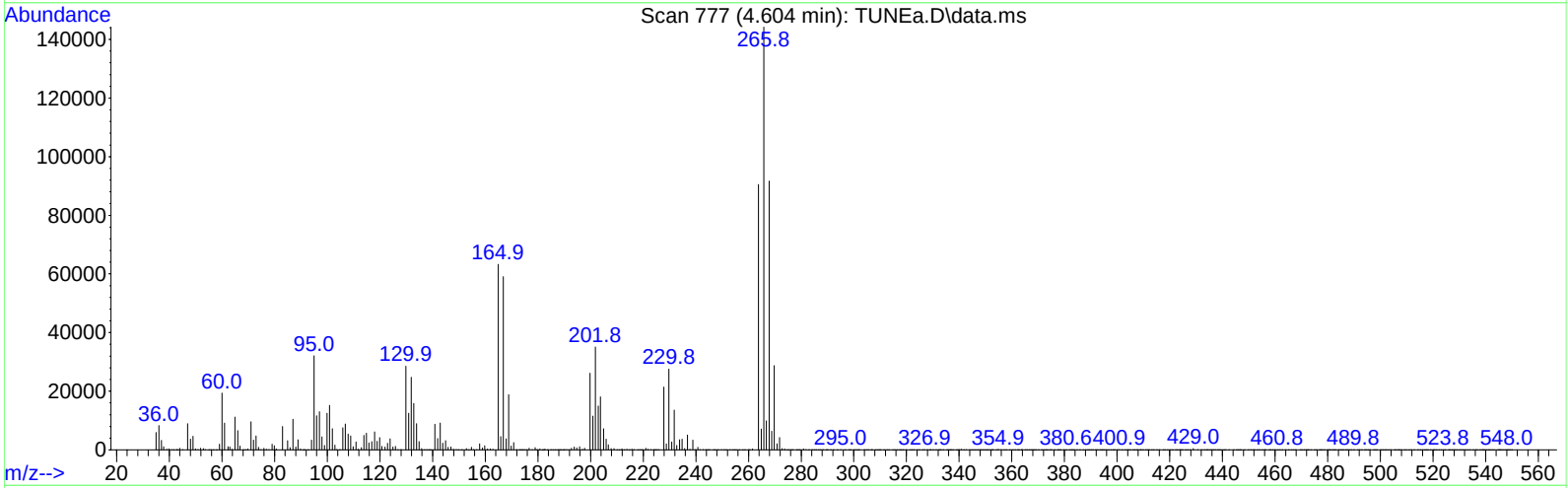
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	63.48
165.10	53.30	49.34
199.10	17.10	14.51

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV118\250203RVTical\
Data File : TUNEa.D
Acq On : 03 Feb 2025 03:28 pm
Operator : SV118:rp
Sample : TUNE
Misc : WG2028184,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Feb 03 15:42:23 2025
Quant Method : I:\8270SIM\SV118\250203RVTical\dftppsv118.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jan 31 09:46:03 2025
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





CHROMtools™ [TUNE]

(1) pentachlorophenol (T)

4.604min (-0.007) 51.67

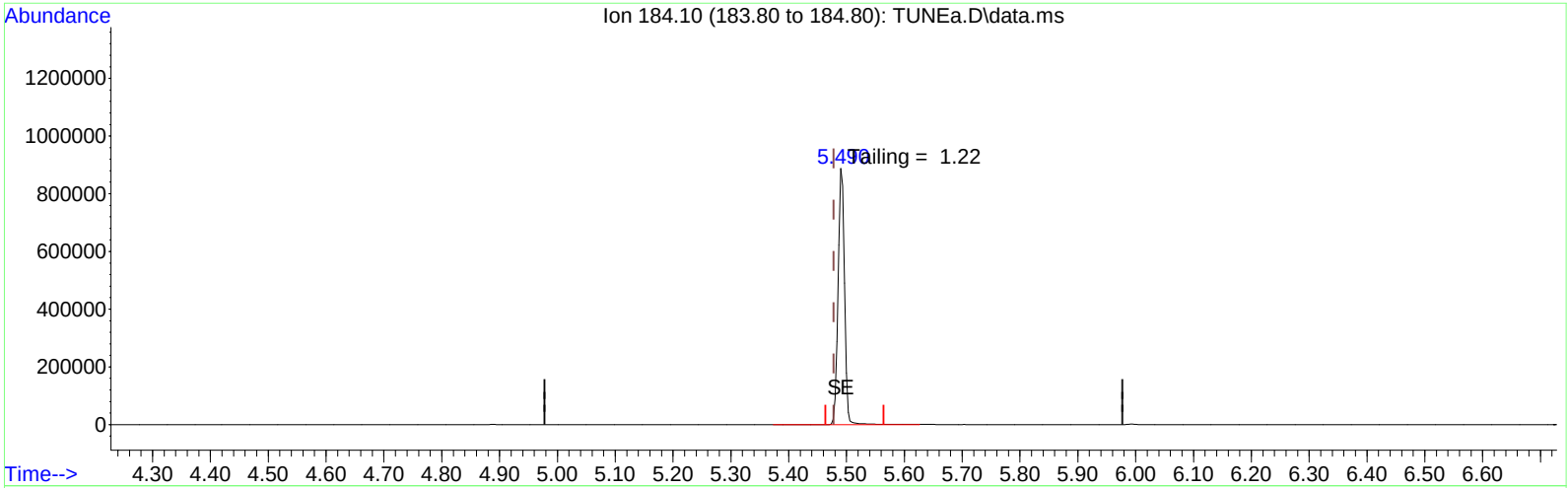
response 108526

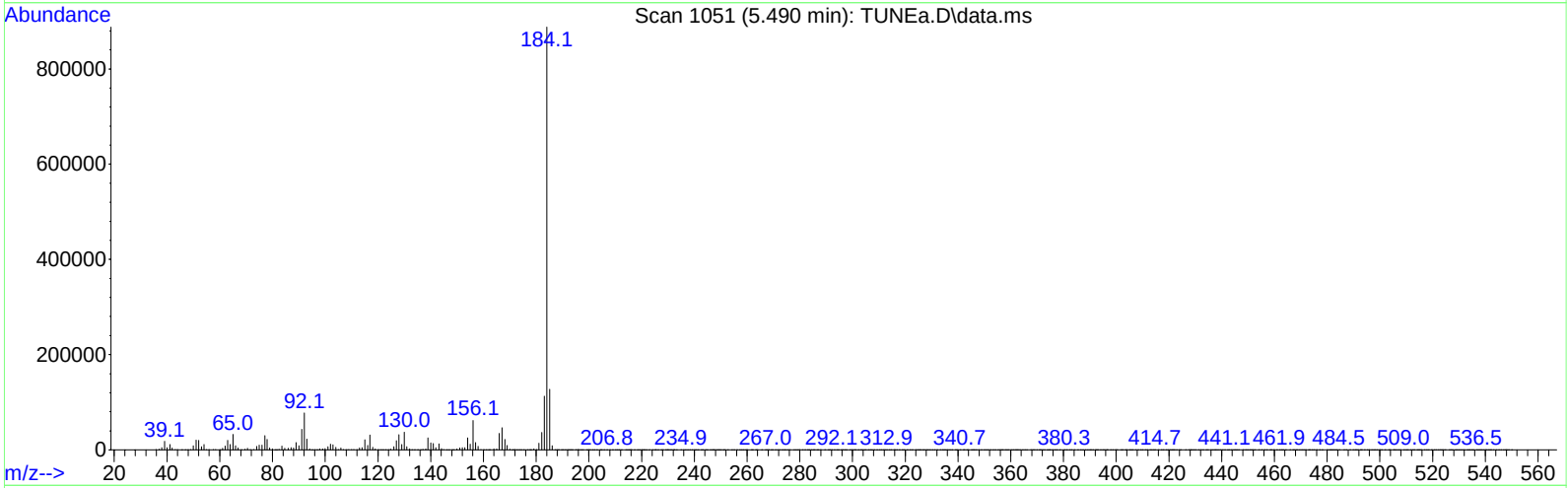
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV118\250203RVTical\
Data File : TUNEa.D
Acq On : 03 Feb 2025 03:28 pm
Operator : SV118:rp
Sample : TUNE
Misc : WG2028184,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Feb 03 15:42:23 2025
Quant Method : I:\8270SIM\SV118\250203RVTical\dftppsv118.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jan 31 09:46:03 2025
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





CHROMtools™ [TUNE]

(3) benzidine (T)

5.490min (+ 0.012) 67.04

response 682518

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
Data File : L10.D
Acq On : 03 Feb 2025 03:47 pm
Operator : SV118:rp
Sample : IL10,32,, #11278 5000 ng/ml
Misc : WG2028184,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 07 14:31:04 2025
Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 04 10:15:43 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\250203RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.194	152	452197	4000.000	ng/ml	-0.01
Standard Area 1 = 474552			Recovery = 95.29%			
8) Naphthalene-d8	2.860	136	1708889	4000.000	ng/ml	-0.03
Standard Area 1 = 1755733			Recovery = 97.33%			
17) Acenaphthene-d10	3.841	164	959890	4000.000	ng/ml	-0.04
Standard Area 1 = 985911			Recovery = 97.36%			
22) Phenanthrene-d10	4.685	188	1893106	4000.000	ng/ml	-0.04
Standard Area 1 = 1968639			Recovery = 96.16%			
31) Chrysene-d12	6.255	240	1694132	4000.000	ng/ml	-0.02
Standard Area 1 = 1866106			Recovery = 90.78%			
36) Perylene-d12	7.468	264	1693455M4	4000.000	ng/ml	-0.04
Standard Area 1 = 1827508			Recovery = 92.66%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.614	112	639284	4623.256	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 231.16%#			
3) Phenol-d6	2.009	99	811214	4896.212	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 244.81%#			
7) Nitrobenzene-d5	2.478	82	687968	5085.038	ng/ml	-0.02
Spiked Amount 1000.000	Range 30 - 130		Recovery = 508.50%#			
13) 2-Fluorobiphenyl	3.461	172	1604831	4288.736	ng/ml	-0.03
Spiked Amount 1000.000	Range 30 - 130		Recovery = 428.87%#			
21) 2,4,6-Tribromophenol	4.290	330	256213	5770.160	ng/ml	-0.04
Spiked Amount 2000.000	Range 15 - 110		Recovery = 288.51%#			
30) 4-Terphenyl-d14	5.614	244	1877732	4269.731	ng/ml	-0.03
Spiked Amount 1000.000	Range 30 - 130		Recovery = 426.97%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.063	93	675718	4593.251	ng/ml	100
5) n-nitrosodi-n-propylamine	2.404	70	504114	5343.512	ng/ml	99
6) Hexachloroethane	2.453	117	295748	4806.130	ng/ml	100
9) Naphthalene	2.871	128	2127755	4381.902	ng/ml	99
10) Hexachlorobutadiene	2.943	225	406590	4676.161	ng/ml	100
11) 2-Methylnaphthalene	3.252	142	1372563	4542.803	ng/ml	99
12) 1-Methylnaphthalene	3.307	142	1392381	4534.462	ng/ml	99
14) 2-Chloronaphthalene	3.524	162	1502213	4595.234	ng/ml	99
15) 2,6-Dinitrotoluene	3.725	165	397823	5461.950	ng/ml	98
16) Acenaphthylene	3.758	152	2382002	4765.250	ng/ml	98
18) Acenaphthene	3.860	153	1546680	4526.279	ng/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
Data File : L10.D
Acq On : 03 Feb 2025 03:47 pm
Operator : SV118:rp
Sample : IL10,32,, #11278 5000 ng/ml
Misc : WG2028184,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 07 14:31:04 2025
Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 04 10:15:43 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\250203RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.954	165	547074	5545.033	ng/ml	98
20) Fluorene	4.151	166	1717061	4570.298	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.189	198	318883	5162.455	ng/ml	99
24) Hexachlorobenzene	4.472	284	574779	4584.263	ng/ml	98
25) Pentachlorophenol	4.583	266	379430	4565.100	ng/ml	100
26) Phenanthrene	4.699	178	2522705	4395.127	ng/ml	98
27) Anthracene	4.729	178	2620420	4606.134	ng/ml	98
28) Fluoranthene	5.385	202	2913960	4464.170	ng/ml	98
29) Pyrene	5.516	202	2986325	4420.526	ng/ml	98
32) Benzo[a]anthracene	6.247	226	862415	4817.827	ng/ml#	95
33) 3,3'-Dichlorobenzidine	6.237	252	1279887	5655.686	ng/ml	99
34) Chrysene	6.275	228	2782067	4759.864	ng/ml#	98
35) Bis(2-ethylhexyl)phtha...	6.284	149	2116516	5149.319	ng/ml	98
37) Benzo[b]fluoranthene	7.096	252	2796699	5015.226	ng/ml	99
38) Benzo[k]fluoranthene	7.125	252	2679131M6	5057.114	ng/ml	
39) Benzo[a]pyrene	7.406	252	2529301	5450.456	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	8.699	276	2352804	5718.907	ng/ml	99
41) Dibenzo[a,h]anthracene	8.738	278	2256830M6	5677.930	ng/ml	
42) Benzo[g,h,i]perylene	9.043	276	2360973M6	5430.963	ng/ml	

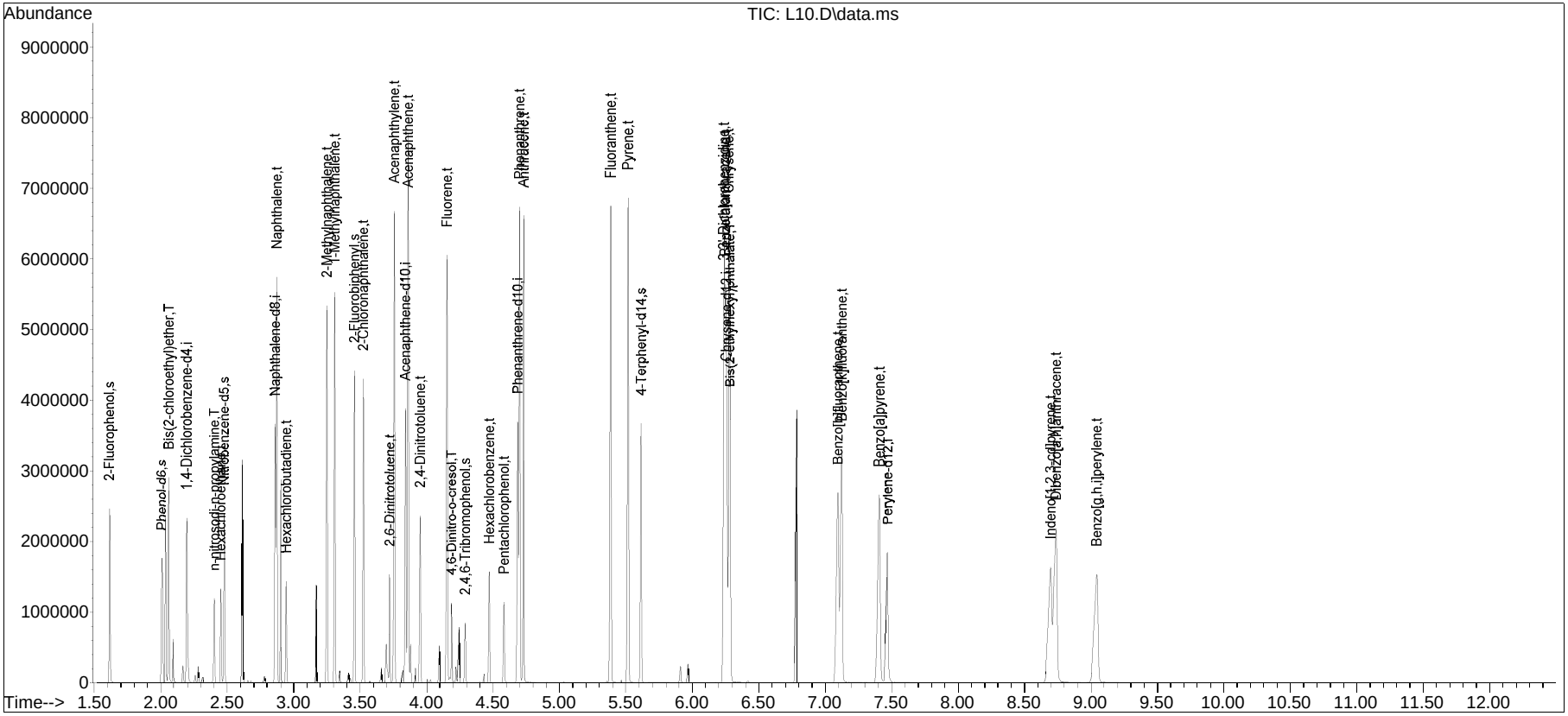
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
Data File : L10.D
Acq On : 03 Feb 2025 03:47 pm
Operator : SV118:rp
Sample : IL10,32,, #11278 5000 ng/ml
Misc : WG2028184,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 07 14:31:04 2025
Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 04 10:15:43 2025
Response via : Initial Calibration

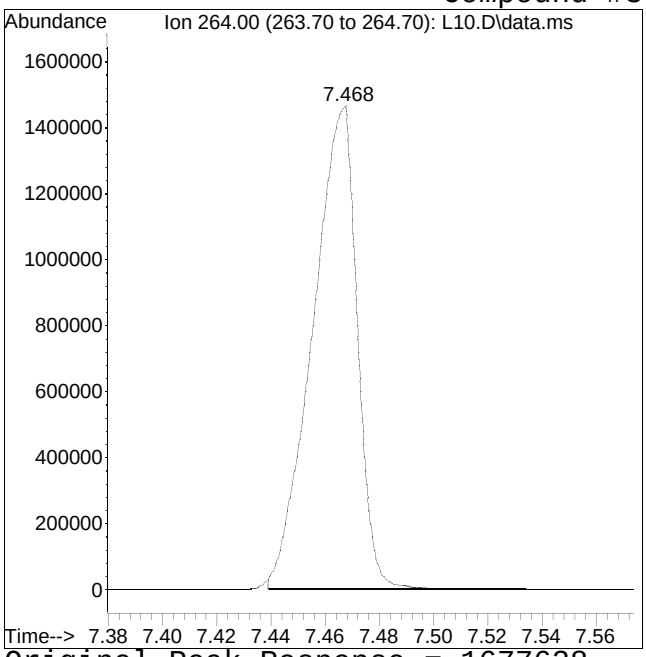
Sub List : Default - All compounds listedical\L8.D•



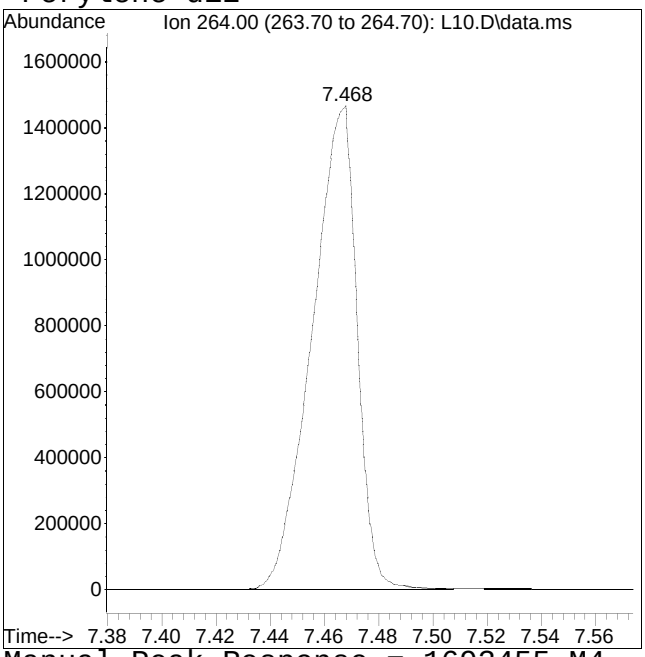
Manual Integration Report

Data Path : I:\8270SIM\SV118\250203RVTQMethod : SIM-RVT_250203sv118.M
Data File : L10.D Operator : SV118:rp
Date Inj'd : 2/3/2025 3:47 pm Instrument : SV118
Sample : IL10,32,, #11278 5000 ng/mQuant Date : 2/4/2025 10:15 am

Compound #36: Perylene-d12



Original Peak Response = 1677628



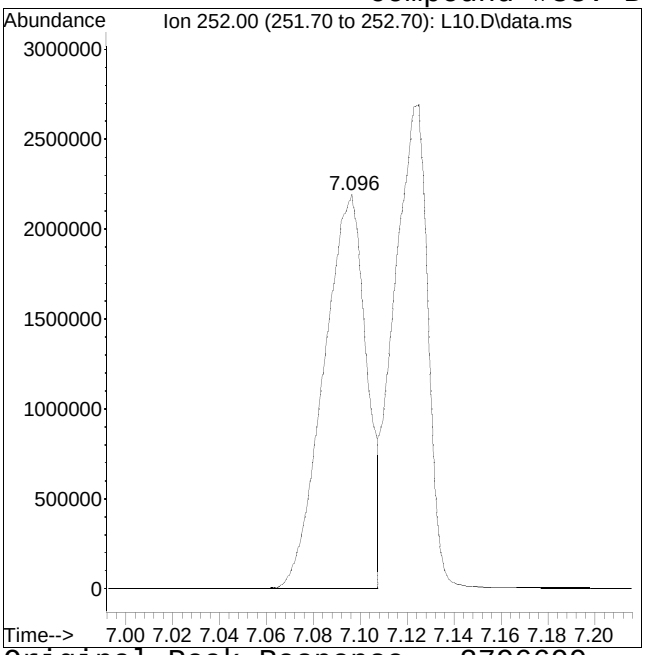
Manual Peak Response = 1693455 M4

M4 = Poor automated baseline construction.

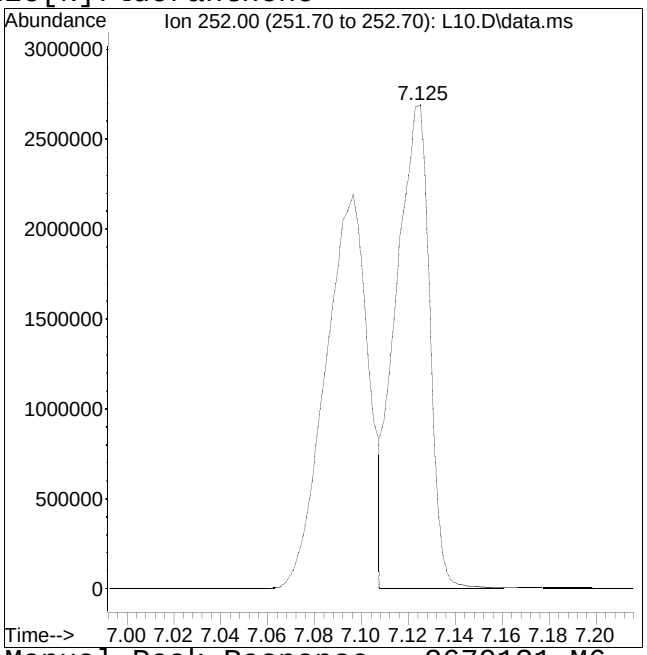
Manual Integration Report

Data Path : I:\8270SIM\SV118\250203RVTQMethod : SIM-RVT_250203sv118.M
Data File : L10.D Operator : SV118:rp
Date Inj'd : 2/3/2025 3:47 pm Instrument : SV118
Sample : IL10,32,, #11278 5000 ng/mQuant Date : 2/4/2025 10:15 am

Compound #38: Benzo[k]fluoranthene



Original Peak Response = 2796699



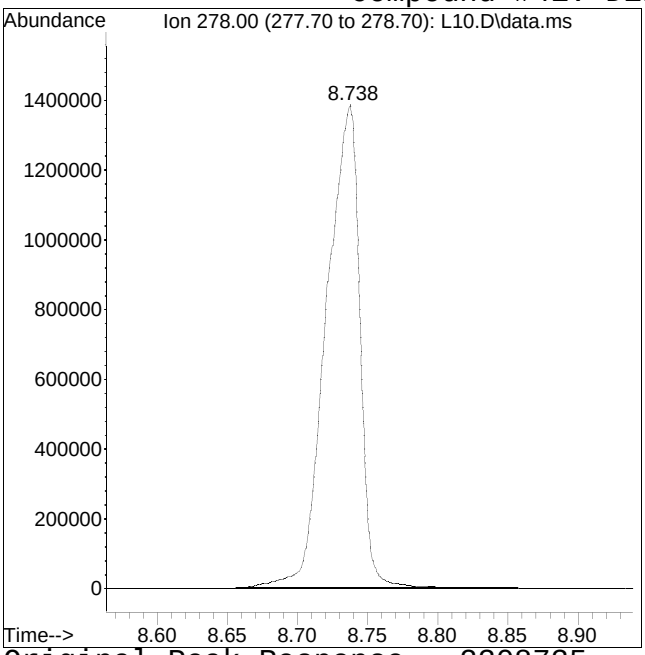
Manual Peak Response = 2679131 M6

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

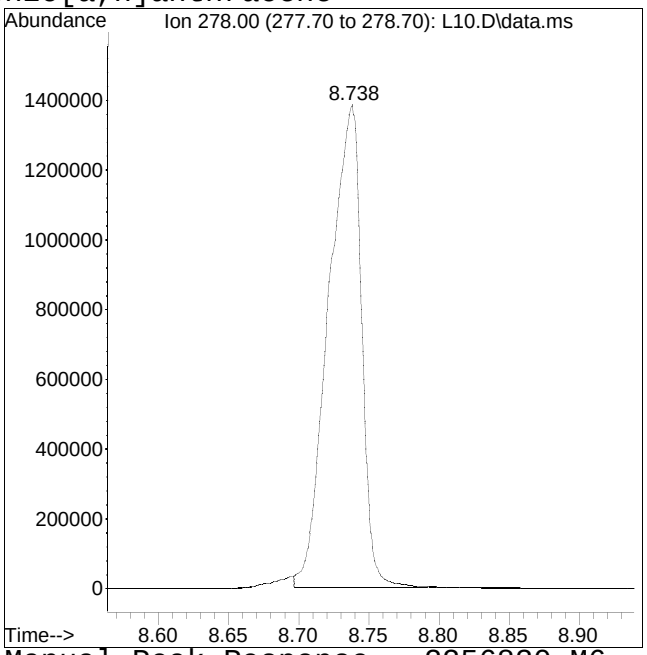
Manual Integration Report

Data Path : I:\8270SIM\SV118\250203RVTQ
Data File : L10.D
Date Inj'd : 2/3/2025 3:47 pm
Sample : IL10,32,, #11278 5000 ng/m
Method : SIM-RVT_250203sv118.M
Operator : SV118:rp
Instrument : SV118
Quant Date : 2/4/2025 10:15 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 2308735



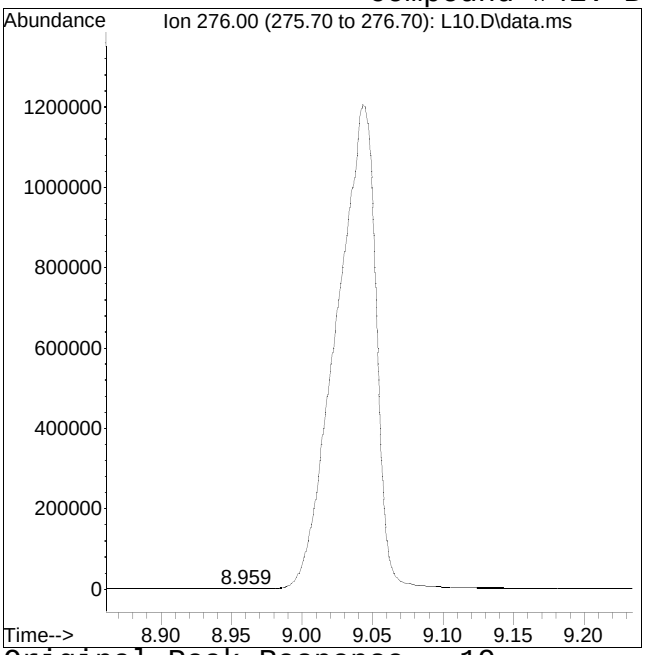
Manual Peak Response = 2256830 M6

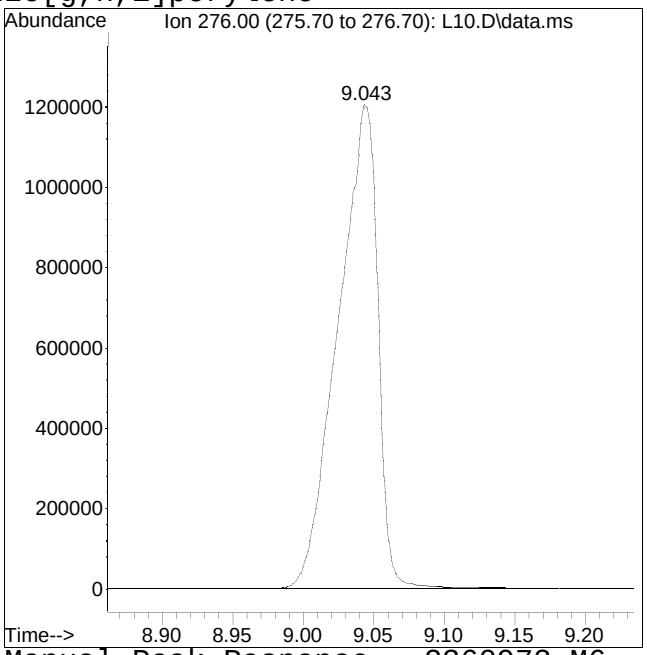
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\SV118\250203RVTQMethod : SIM-RVT_250203sv118.M
Data File : L10.D Operator : SV118:rp
Date Inj'd : 2/3/2025 3:47 pm Instrument : SV118
Sample : IL10,32,, #11278 5000 ng/mQuant Date : 2/4/2025 10:15 am

Compound #42: Benzo[g,h,i]perylene





Original Peak Response = 19 Manual Peak Response = 2360973 M6
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
Data File : L9.D
Acq On : 03 Feb 2025 04:04 pm
Operator : SV118:rp
Sample : IL9,32,, #11280 2500 ng/ml
Misc : WG2028184,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 04 10:25:38 2025
Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 04 10:16:22 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\250203RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.197	152	437004	4000.000	ng/ml	0.00
Standard Area 1 = 474552			Recovery = 92.09%			
8) Naphthalene-d8	2.862	136	1641172	4000.000	ng/ml	0.00
Standard Area 1 = 1755733			Recovery = 93.48%			
17) Acenaphthene-d10	3.841	164	934478	4000.000	ng/ml	0.00
Standard Area 1 = 985911			Recovery = 94.78%			
22) Phenanthrene-d10	4.684	188	1879809	4000.000	ng/ml	0.00
Standard Area 1 = 1968639			Recovery = 95.49%			
31) Chrysene-d12	6.243	240	1801406	4000.000	ng/ml	0.00
Standard Area 1 = 1866106			Recovery = 96.53%			
36) Perylene-d12	7.450	264	1823251	4000.000	ng/ml	0.00
Standard Area 1 = 1827508			Recovery = 99.77%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.617	112	320327	2397.121	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 119.86%#			
3) Phenol-d6	2.011	99	395014	2467.059	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 123.35%#			
7) Nitrobenzene-d5	2.479	82	336601	2574.445	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 257.44%#			
13) 2-Fluorobiphenyl	3.461	172	807891	2248.084	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 224.81%#			
21) 2,4,6-Tribromophenol	4.289	330	124940	2890.284	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 144.51%#			
30) 4-Terphenyl-d14	5.606	244	1019461	2334.526	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 233.45%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.066	93	329472	2317.477	ng/ml	100
5) n-nitrosodi-n-propylamine	2.403	70	242500	2659.819	ng/ml	100
6) Hexachloroethane	2.455	117	144267	2425.956	ng/ml	100
9) Naphthalene	2.871	128	1068336	2290.913	ng/ml	100
10) Hexachlorobutadiene	2.945	225	198057	2371.825	ng/ml	100
11) 2-Methylnaphthalene	3.254	142	682409	2351.777	ng/ml	100
12) 1-Methylnaphthalene	3.309	142	692763	2349.157	ng/ml	100
14) 2-Chloronaphthalene	3.526	162	744311	2370.775	ng/ml	100
15) 2,6-Dinitrotoluene	3.722	165	193375	2764.508	ng/ml	99
16) Acenaphthylene	3.759	152	1218847	2538.940	ng/ml	100
18) Acenaphthene	3.859	153	773213	2324.301	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
Data File : L9.D
Acq On : 03 Feb 2025 04:04 pm
Operator : SV118:rp
Sample : IL9,32,, #11280 2500 ng/ml
Misc : WG2028184,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 04 10:25:38 2025
Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 04 10:16:22 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\250203RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.951	165	271346	2825.100	ng/ml	98
20) Fluorene	4.150	166	872604	2385.769	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.183	198	150296	2468.753	ng/ml	99
24) Hexachlorobenzene	4.469	284	288514	2317.377	ng/ml	99
25) Pentachlorophenol	4.582	266	178859	2488.628	ng/ml	100
26) Phenanthrene	4.696	178	1322388	2320.198	ng/ml	99
27) Anthracene	4.726	178	1363415	2413.543	ng/ml	99
28) Fluoranthene	5.380	202	1564141	2413.205	ng/ml	100
29) Pyrene	5.509	202	1610033	2400.119	ng/ml	99
32) Benzo[a]anthracene	6.231	226	453580	2383.002	ng/ml#	98
33) 3,3'-Dichlorobenzidine	6.222	252	675166	2805.821	ng/ml	99
34) Chrysene	6.257	228	1506431	2423.884	ng/ml#	99
35) Bis(2-ethylhexyl)phtha...	6.272	149	1078190	2481.619	ng/ml	99
37) Benzo[b]fluoranthene	7.074	252	1501052	2500.159	ng/ml	99
38) Benzo[k]fluoranthene	7.101	252	1460458	2560.502	ng/ml	99
39) Benzo[a]pyrene	7.383	252	1353116	2708.286	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	8.674	276	1223899	2763.122	ng/ml	99
41) Dibenzo[a,h]anthracene	8.707	278	1192078M6	2785.627	ng/ml	
42) Benzo[g,h,i]perylene	9.014	276	1244200	2658.295	ng/ml	100

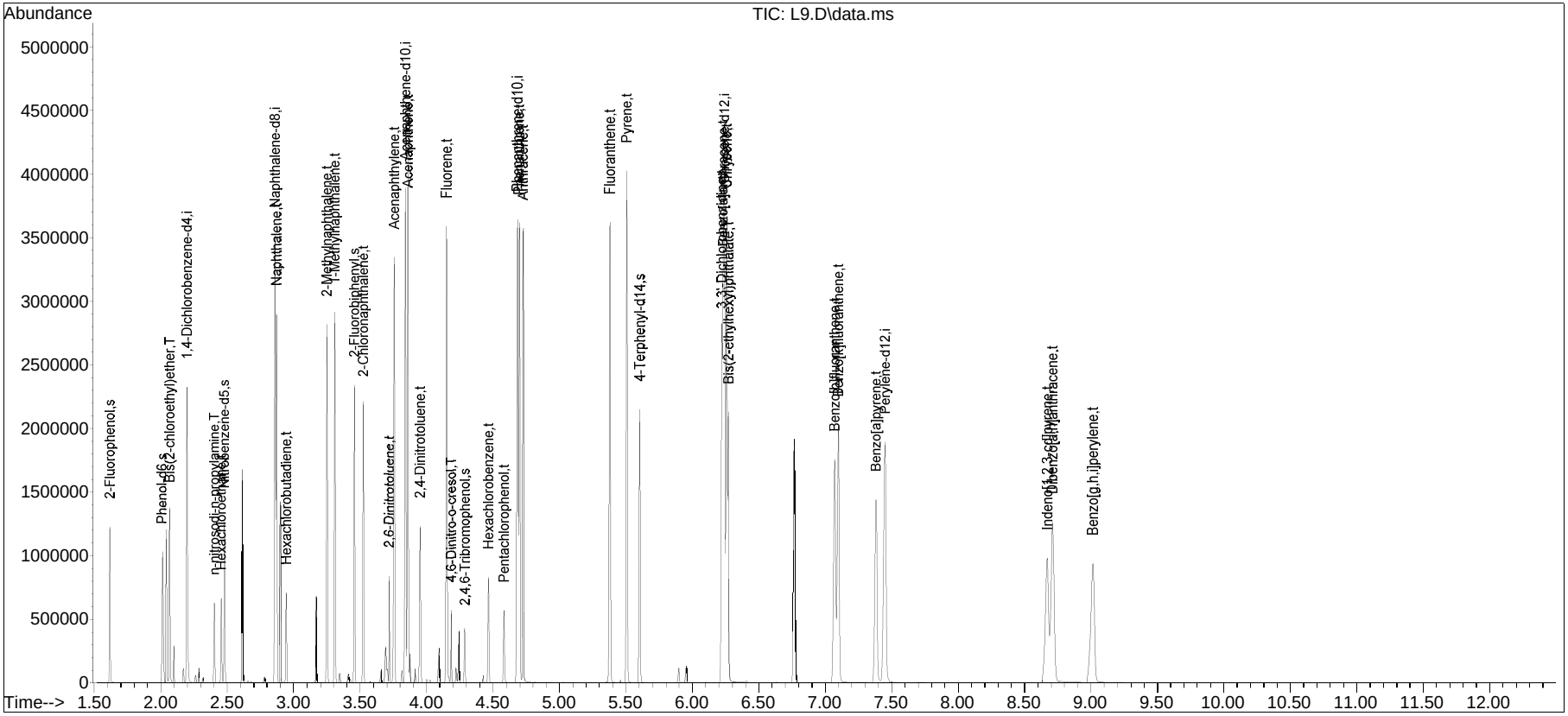
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
Data File : L9.D
Acq On : 03 Feb 2025 04:04 pm
Operator : SV118:rp
Sample : IL9,32,, #11280 2500 ng/ml
Misc : WG2028184,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 04 10:25:38 2025
Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 04 10:16:22 2025
Response via : Initial Calibration

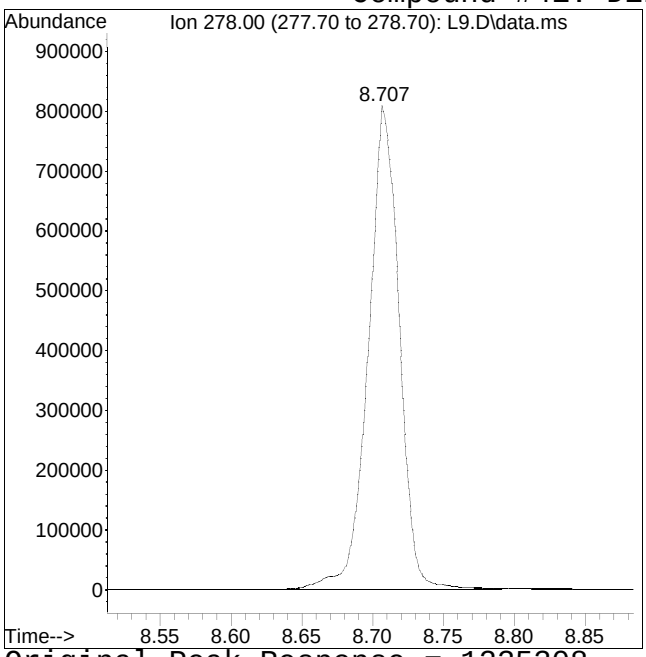
Sub List : Default - All compounds listedical\L8.D•



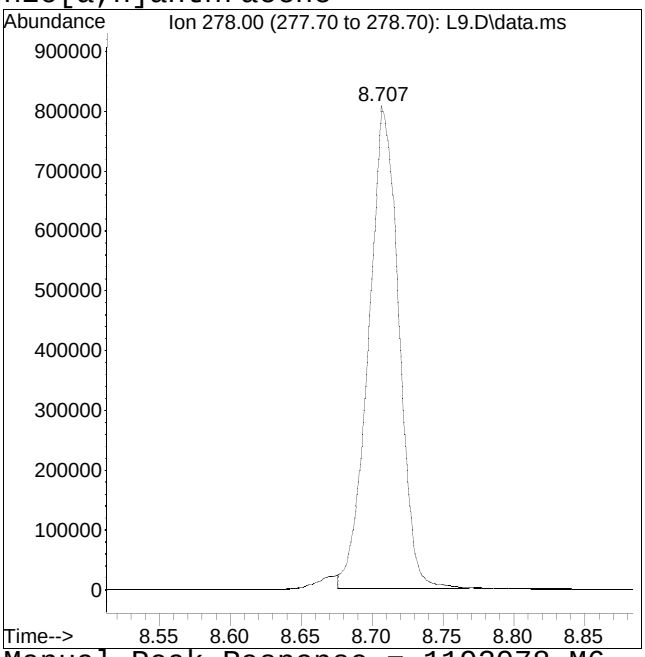
Manual Integration Report

Data Path : I:\8270SIM\SV118\250203RVTQMethod : SIM-RVT_250203sv118.M
Data File : L9.D Operator : SV118:rp
Date Inj'd : 2/3/2025 4:04 pm Instrument : SV118
Sample : IL9,32,, #11280 2500 ng/mlQuant Date : 2/4/2025 10:16 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 1235308



Manual Peak Response = 1192078 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
Data File : L8.D
Acq On : 03 Feb 2025 04:20 pm
Operator : SV118:rp
Sample : IL8,32,, #11281 1000 ng/ml
Misc : WG2028184,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 04 10:15:08 2025
Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 04 10:16:18 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\250203RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.200	152	474400	4000.000	ng/ml	0.00
Standard Area 1 = 474552			Recovery = 99.97%			
8) Naphthalene-d8	2.861	136	1755733	4000.000	ng/ml	0.00
Standard Area 1 = 1755733			Recovery = 100.00%			
17) Acenaphthene-d10	3.841	164	985911	4000.000	ng/ml	0.00
Standard Area 1 = 985911			Recovery = 100.00%			
22) Phenanthrene-d10	4.684	188	1968639	4000.000	ng/ml	0.00
Standard Area 1 = 1968639			Recovery = 100.00%			
31) Chrysene-d12	6.237	240	1866853	4000.000	ng/ml	0.00
Standard Area 1 = 1866106			Recovery = 100.04%			
36) Perylene-d12	7.444	264	1847760	4000.000	ng/ml	0.00
Standard Area 1 = 1827508			Recovery = 101.11%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.621	112	145743	1004.673	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 50.23%			
3) Phenol-d6	2.012	99	175761	1011.184	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 50.56%			
7) Nitrobenzene-d5	2.480	82	149010	1049.843	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 104.98%			
13) 2-Fluorobiphenyl	3.461	172	369235	960.414	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 96.04%			
21) 2,4,6-Tribromophenol	4.286	330	52869	1159.235	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 57.96%			
30) 4-Terphenyl-d14	5.604	244	449158	982.143	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 98.21%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.067	93	150466	974.936	ng/ml	100
5) n-nitrosodi-n-propylamine	2.403	70	104905	1059.930	ng/ml	100
6) Hexachloroethane	2.457	117	64799	1003.749	ng/ml	100
9) Naphthalene	2.873	128	482745	967.641	ng/ml	100
10) Hexachlorobutadiene	2.946	225	89422	1000.996	ng/ml	100
11) 2-Methylnaphthalene	3.254	142	308281	993.102	ng/ml	100
12) 1-Methylnaphthalene	3.309	142	312243	989.728	ng/ml	100
14) 2-Chloronaphthalene	3.525	162	334556	996.094	ng/ml	100
15) 2,6-Dinitrotoluene	3.722	165	80951	1081.771	ng/ml	100
16) Acenaphthylene	3.759	152	542495	1056.318	ng/ml	100
18) Acenaphthene	3.859	153	345172	983.468	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
Data File : L8.D
Acq On : 03 Feb 2025 04:20 pm
Operator : SV118:rp
Sample : IL8,32,, #11281 1000 ng/ml
Misc : WG2028184,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 04 10:15:08 2025
Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 04 10:16:18 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\250203RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.951	165	112289	1108.100	ng/ml	100
20) Fluorene	4.149	166	388437	1006.614	ng/ml	100
23) 4,6-Dinitro-o-cresol	4.180	198	57711	927.332	ng/ml	100
24) Hexachlorobenzene	4.469	284	129022	989.558	ng/ml	100
25) Pentachlorophenol	4.579	266	69610	1035.983	ng/ml	100
26) Phenanthrene	4.696	178	585672	981.224	ng/ml	100
27) Anthracene	4.725	178	601694	1017.069	ng/ml	100
28) Fluoranthene	5.379	202	683086	1006.332	ng/ml	100
29) Pyrene	5.508	202	716810	1020.351	ng/ml	100
32) Benzo[a]anthracene	6.225	226	190425	965.375	ng/ml#	100
33) 3,3'-Dichlorobenzidine	6.215	252	269575	1081.012	ng/ml	100
34) Chrysene	6.252	228	646269	1003.408	ng/ml#	100
35) Bis(2-ethylhexyl)phtha...	6.263	149	411989	932.797	ng/ml	100
37) Benzo[b]fluoranthene	7.064	252	619863	1018.752	ng/ml	100
38) Benzo[k]fluoranthene	7.090	252	621770	1075.639	ng/ml	100
39) Benzo[a]pyrene	7.371	252	554169	1094.467	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.658	276	489591	1090.659	ng/ml	100
41) Dibenzo[a,h]anthracene	8.693	278	488744M6	1126.940	ng/ml	
42) Benzo[g,h,i]perylene	8.998	276	512735	1080.953	ng/ml	100

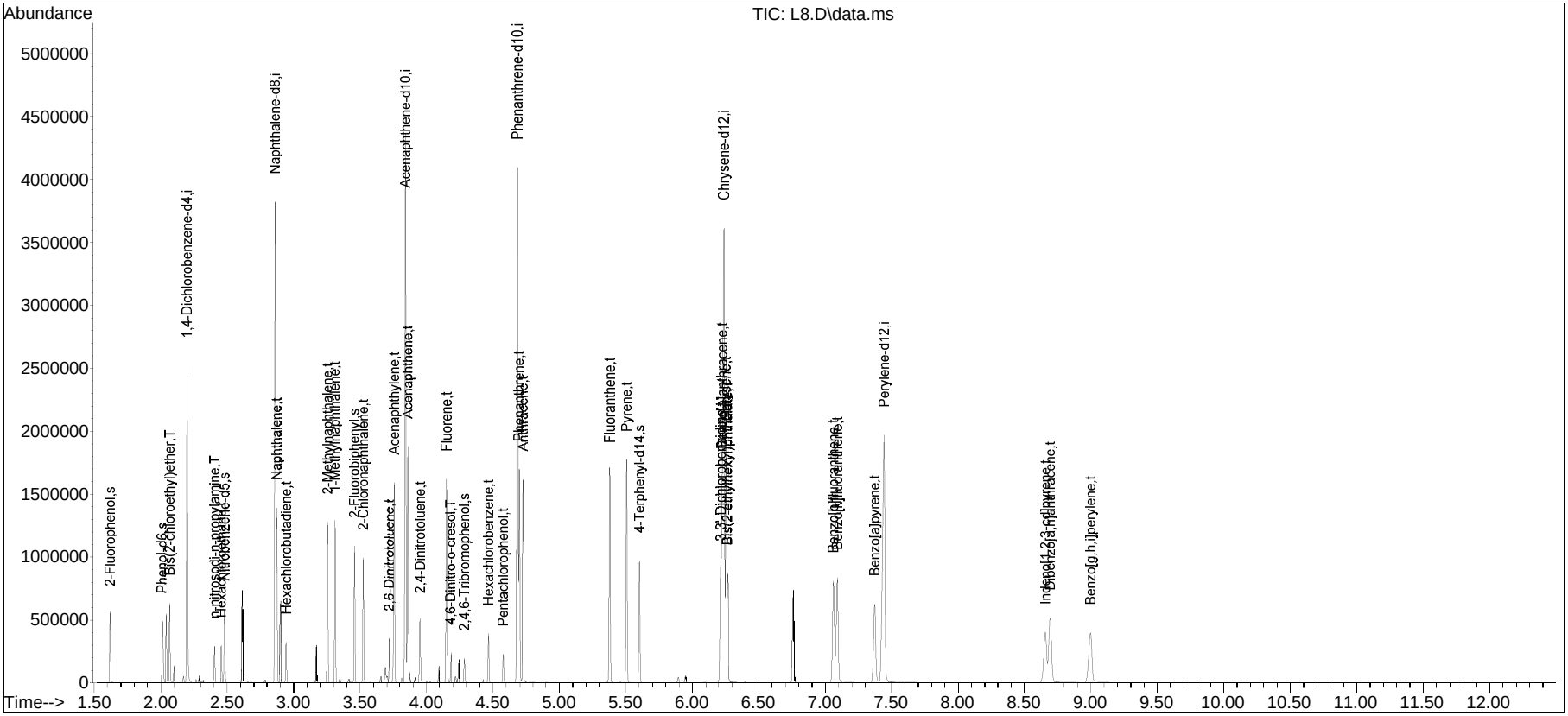
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
Data File : L8.D
Acq On : 03 Feb 2025 04:20 pm
Operator : SV118:rp
Sample : IL8,32,, #11281 1000 ng/ml
Misc : WG2028184,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 04 10:15:08 2025
Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 04 10:16:18 2025
Response via : Initial Calibration

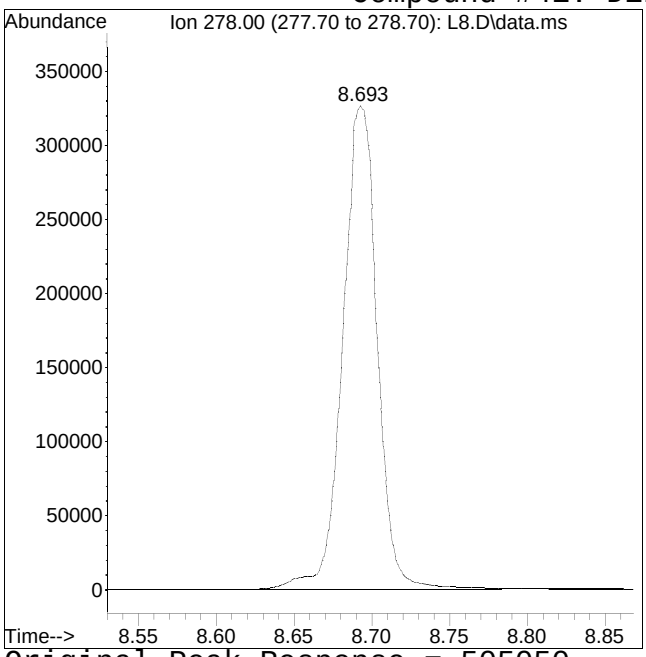
Sub List : Default - All compounds listedical\L8.D•



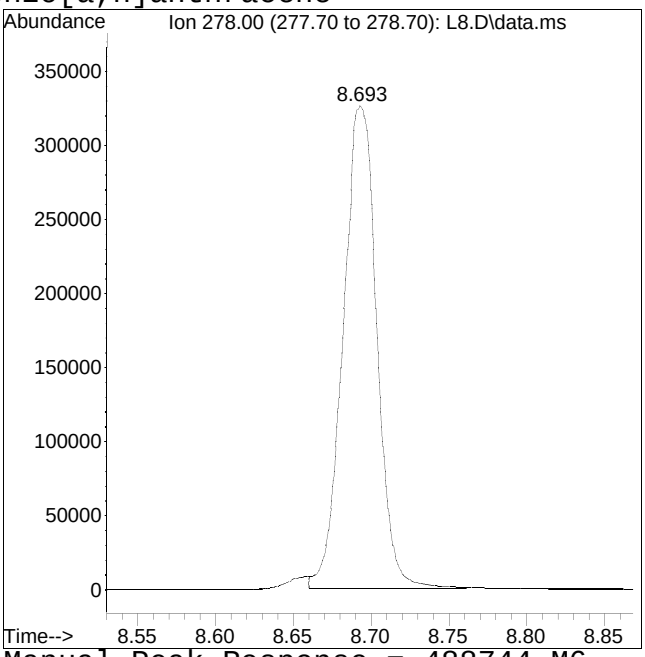
Manual Integration Report

Data Path : I:\8270SIM\SV118\250203RVTQMethod : SIM-RVT_250203sv118.M
Data File : L8.D Operator : SV118:rp
Date Inj'd : 2/3/2025 4:20 pm Instrument : SV118
Sample : IL8,32,, #11281 1000 ng/mlQuant Date : 2/4/2025 10:16 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 505050



Manual Peak Response = 488744 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
Data File : L7.D
Acq On : 03 Feb 2025 04:38 pm
Operator : SV118:rp
Sample : IL7,32,, #11282 500 ng/ml
Misc : WG2028184,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 04 10:15:02 2025
Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 04 10:16:12 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\250203RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.199	152	478468	4000.000	ng/ml	0.00
Standard Area 1 = 474400			Recovery = 100.86%			
8) Naphthalene-d8	2.861	136	1773140	4000.000	ng/ml	0.00
Standard Area 1 = 1755733			Recovery = 100.99%			
17) Acenaphthene-d10	3.841	164	1006527	4000.000	ng/ml	0.00
Standard Area 1 = 985911			Recovery = 102.09%			
22) Phenanthrene-d10	4.686	188	2009391	4000.000	ng/ml	0.00
Standard Area 1 = 1968639			Recovery = 102.07%			
31) Chrysene-d12	6.239	240	1955025	4000.000	ng/ml	0.00
Standard Area 1 = 1866853			Recovery = 104.72%			
36) Perylene-d12	7.448	264	1892664	4000.000	ng/ml	0.00
Standard Area 1 = 1847760			Recovery = 102.43%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.618	112	75282	514.541	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 25.73%			
3) Phenol-d6	2.010	99	89872	512.654	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 25.63%			
7) Nitrobenzene-d5	2.480	82	76068	531.377	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 53.14%			
13) 2-Fluorobiphenyl	3.462	172	194913	502.009	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 50.20%			
21) 2,4,6-Tribromophenol	4.288	330	26694	573.319	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 28.67%			
30) 4-Terphenyl-d14	5.604	244	242980	520.533	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 52.05%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.066	93	78373	503.496	ng/ml	100
5) n-nitrosodi-n-propylamine	2.403	70	52752	528.460	ng/ml	99
6) Hexachloroethane	2.456	117	33245	510.593	ng/ml	100
9) Naphthalene	2.873	128	250409	497.006	ng/ml	100
10) Hexachlorobutadiene	2.946	225	46112	511.114	ng/ml	100
11) 2-Methylnaphthalene	3.255	142	160230	511.100	ng/ml	100
12) 1-Methylnaphthalene	3.310	142	163256	512.398	ng/ml	100
14) 2-Chloronaphthalene	3.526	162	174533	514.546	ng/ml	100
15) 2,6-Dinitrotoluene	3.722	165	39529	523.052	ng/ml	98
16) Acenaphthylene	3.759	152	281212	542.186	ng/ml	100
18) Acenaphthene	3.859	153	179745	501.642	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
Data File : L7.D
Acq On : 03 Feb 2025 04:38 pm
Operator : SV118:rp
Sample : IL7,32,, #11282 500 ng/ml
Misc : WG2028184,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 04 10:15:02 2025
Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 04 10:16:12 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\250203RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.951	165	54956	531.214	ng/ml	97
20) Fluorene	4.152	166	204042	517.934	ng/ml	100
23) 4,6-Dinitro-o-cresol	4.180	198	26779	440.646	ng/ml	98
24) Hexachlorobenzene	4.469	284	67893	510.157	ng/ml	100
25) Pentachlorophenol	4.581	266	32624	501.574	ng/ml	100
26) Phenanthrene	4.698	178	308118	505.746	ng/ml	100
27) Anthracene	4.725	178	315856	523.077	ng/ml	100
28) Fluoranthene	5.377	202	363708	524.953	ng/ml	99
29) Pyrene	5.508	202	380989	531.324	ng/ml	99
32) Benzo[a]anthracene	6.229	226	100349	485.784	ng/ml#	100
33) 3,3'-Dichlorobenzidine	6.216	252	134288	514.216	ng/ml	100
34) Chrysene	6.253	228	349178	517.689	ng/ml#	99
35) Bis(2-ethylhexyl)phtha...	6.266	149	194394	435.762	ng/ml	100
37) Benzo[b]fluoranthene	7.068	252	326733	524.249	ng/ml	100
38) Benzo[k]fluoranthene	7.095	252	323330	546.078	ng/ml	99
39) Benzo[a]pyrene	7.375	252	281877	543.491	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.658	276	237753	517.075	ng/ml	99
41) Dibenzo[a,h]anthracene	8.697	278	242764M6	546.482	ng/ml	
42) Benzo[g,h,i]perylene	9.000	276	255221	525.294	ng/ml	100

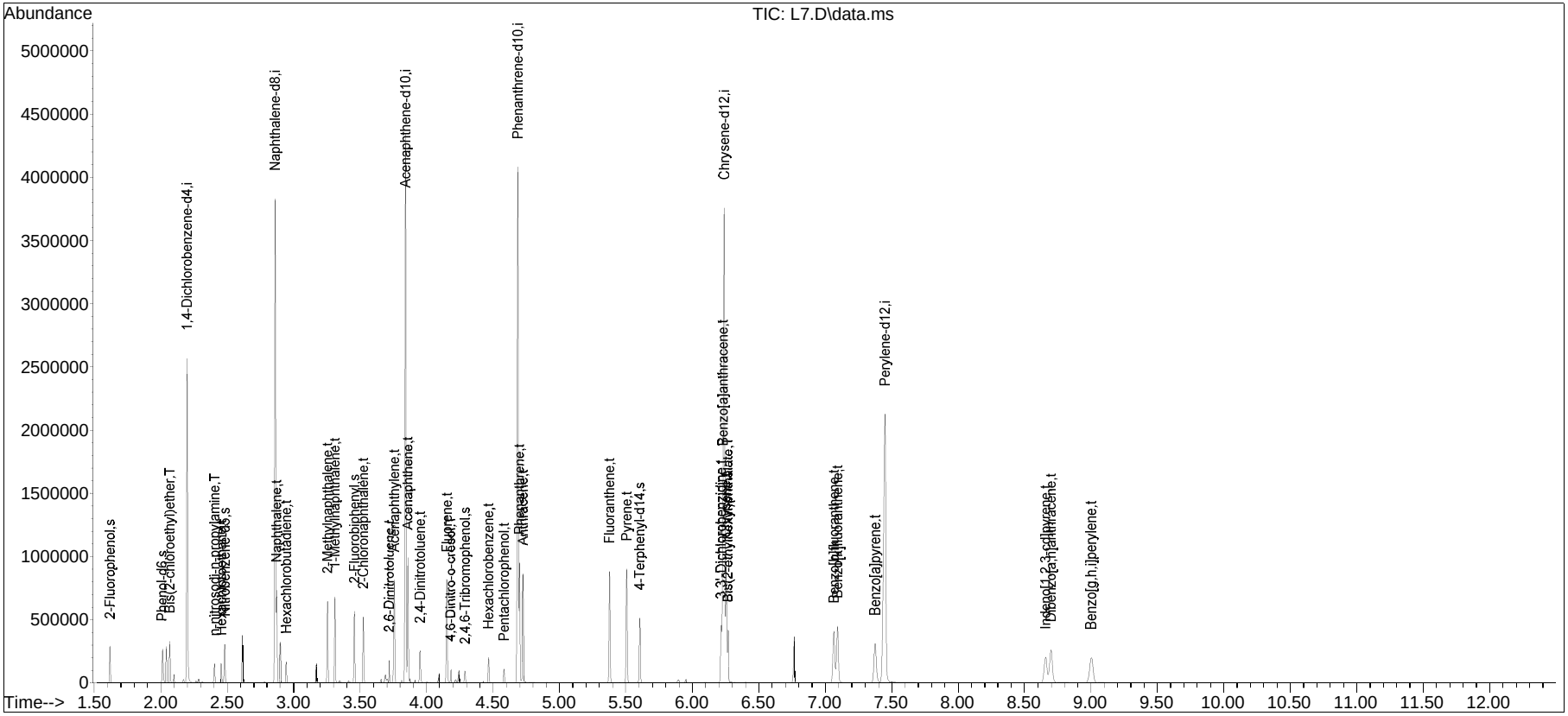
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
Data File : L7.D
Acq On : 03 Feb 2025 04:38 pm
Operator : SV118:rp
Sample : IL7,32,, #11282 500 ng/ml
Misc : WG2028184,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 04 10:15:02 2025
Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 04 10:16:12 2025
Response via : Initial Calibration

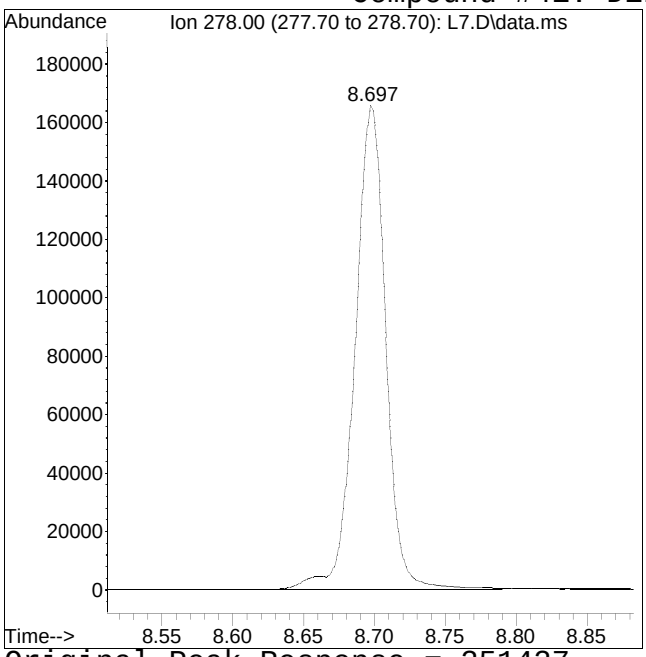
Sub List : Default - All compounds listedical\L8.D•



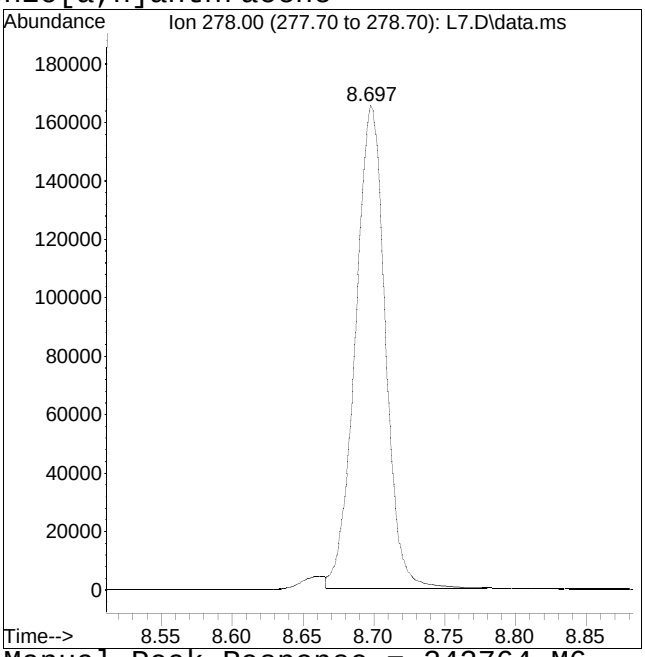
Manual Integration Report

Data Path : I:\8270SIM\SV118\250203RVTQMethod : SIM-RVT_250203sv118.M
Data File : L7.D Operator : SV118:rp
Date Inj'd : 2/3/2025 4:38 pm Instrument : SV118
Sample : IL7,32,, #11282 500 ng/ml Quant Date : 2/4/2025 10:16 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 251427



Manual Peak Response = 242764 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
Data File : L6.D
Acq On : 03 Feb 2025 04:55 pm
Operator : SV118:rp
Sample : IL6,32,, #11283 100 ng/ml
Misc : WG2028184,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 04 10:23:51 2025
Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 04 10:16:08 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\250203RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.201	152	470615	4000.000	ng/ml	0.00
Standard Area 1 = 474400			Recovery = 99.20%			
8) Naphthalene-d8	2.863	136	1698938	4000.000	ng/ml	0.00
Standard Area 1 = 1755733			Recovery = 96.77%			
17) Acenaphthene-d10	3.841	164	943071	4000.000	ng/ml	0.00
Standard Area 1 = 985911			Recovery = 95.65%			
22) Phenanthrene-d10	4.684	188	1870963	4000.000	ng/ml	0.00
Standard Area 1 = 1968639			Recovery = 95.04%			
31) Chrysene-d12	6.239	240	1797903	4000.000	ng/ml	0.00
Standard Area 1 = 1866853			Recovery = 96.31%			
36) Perylene-d12	7.448	264	1701994	4000.000	ng/ml	0.00
Standard Area 1 = 1847760			Recovery = 92.11%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.622	112	15165	105.380	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 5.27%#			
3) Phenol-d6	2.013	99	17591	102.018	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 5.10%#			
7) Nitrobenzene-d5	2.481	82	14359	101.979	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 10.20%#			
13) 2-Fluorobiphenyl	3.461	172	38497	103.482	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 10.35%#			
21) 2,4,6-Tribromophenol	4.286	330	4261	97.673	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 4.88%#			
30) 4-Terphenyl-d14	5.605	244	44919	103.349	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 10.33%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.068	93	15870	103.656	ng/ml	100
5) n-nitrosodi-n-propylamine	2.404	70	9739	99.191	ng/ml	98
6) Hexachloroethane	2.458	117	6546	102.214	ng/ml	100
9) Naphthalene	2.874	128	49347	102.221	ng/ml	100
10) Hexachlorobutadiene	2.948	225	9037	104.543	ng/ml	100
11) 2-Methylnaphthalene	3.255	142	30986	103.156	ng/ml	100
12) 1-Methylnaphthalene	3.310	142	31750	104.003	ng/ml	100
14) 2-Chloronaphthalene	3.525	162	33917	104.359	ng/ml	100
15) 2,6-Dinitrotoluene	3.719	165	6299	86.989	ng/ml	93
16) Acenaphthylene	3.758	152	51475	103.580	ng/ml	100
18) Acenaphthene	3.856	153	34526	102.841	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
Data File : L6.D
Acq On : 03 Feb 2025 04:55 pm
Operator : SV118:rp
Sample : IL6,32,, #11283 100 ng/ml
Misc : WG2028184,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 04 10:23:51 2025
Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 04 10:16:08 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\250203RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.948	165	8230	84.905	ng/ml	87
20) Fluorene	4.149	166	37941	102.789	ng/ml	98
23) 4,6-Dinitro-o-cresol	4.180	198	3378	89.931	ng/ml	96
24) Hexachlorobenzene	4.468	284	13062	105.412	ng/ml	100
25) Pentachlorophenol	4.581	266	4106	78.594	ng/ml	100
26) Phenanthrene	4.695	178	58692M6	103.465	ng/ml	
27) Anthracene	4.725	178	57813	102.826	ng/ml	99
28) Fluoranthene	5.377	202	66381	102.899	ng/ml	99
29) Pyrene	5.508	202	68763	102.992	ng/ml	100
32) Benzo[a]anthracene	6.232	226	17631	92.810	ng/ml#	90
33) 3,3'-Dichlorobenzidine	6.217	252	20496	85.342	ng/ml	99
34) Chrysene	6.254	228	64975	104.750	ng/ml#	100
35) Bis(2-ethylhexyl)phtha...	6.270	149	27102	89.963	ng/ml	100
37) Benzo[b]fluoranthene	7.068	252	57404	102.424	ng/ml	99
38) Benzo[k]fluoranthene	7.092	252	55287	103.836	ng/ml	100
39) Benzo[a]pyrene	7.375	252	46950	100.666	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.658	276	40457	97.845	ng/ml	99
41) Dibenzo[a,h]anthracene	8.695	278	40867M6	102.301	ng/ml	
42) Benzo[g,h,i]perylene	8.996	276	44761	102.447	ng/ml	100

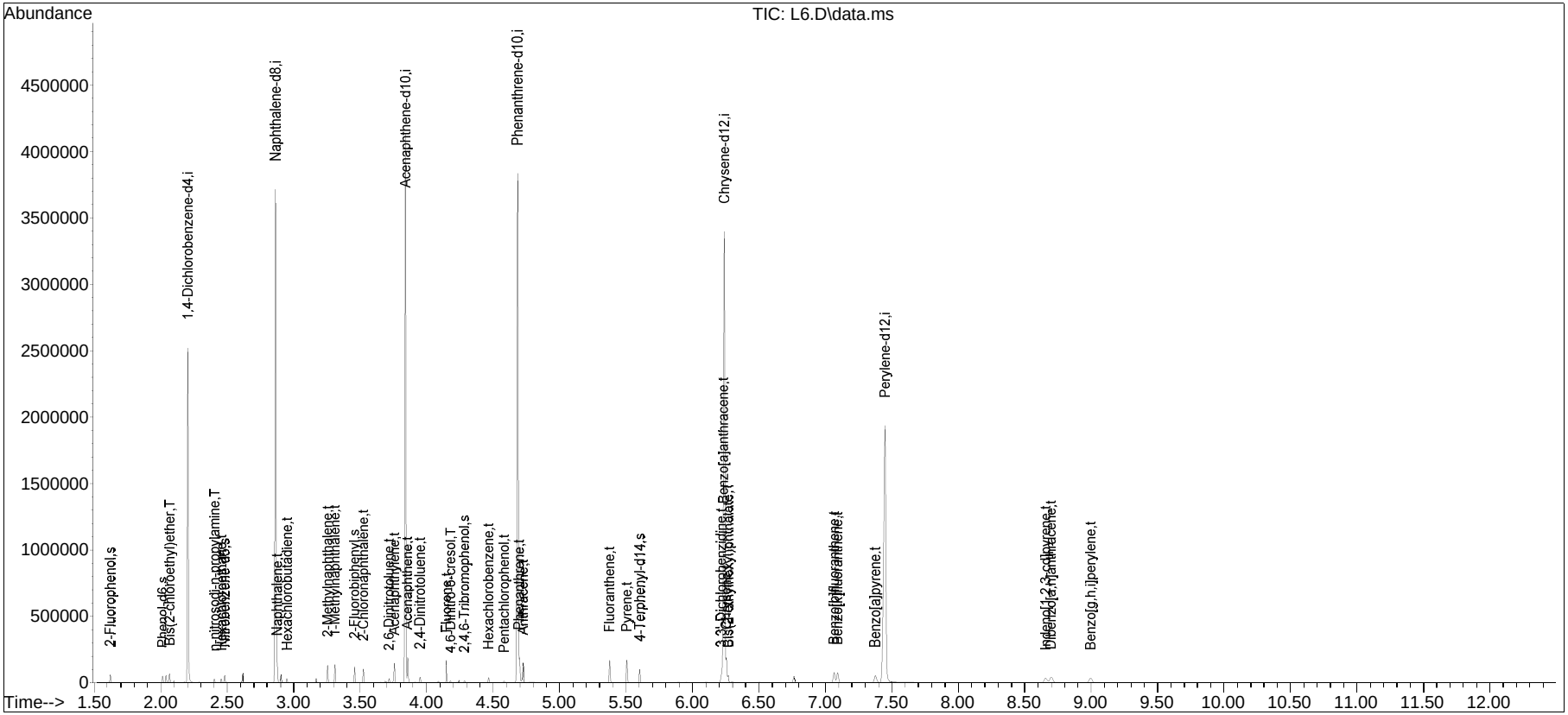
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
Data File : L6.D
Acq On : 03 Feb 2025 04:55 pm
Operator : SV118:rp
Sample : IL6,32,, #11283 100 ng/ml
Misc : WG2028184,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 04 10:23:51 2025
Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 04 10:16:08 2025
Response via : Initial Calibration

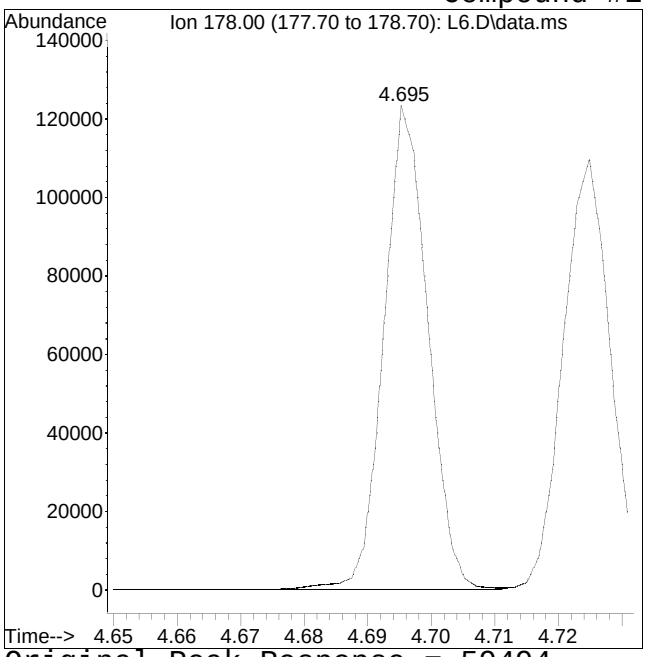
Sub List : Default - All compounds listedical\L8.D•



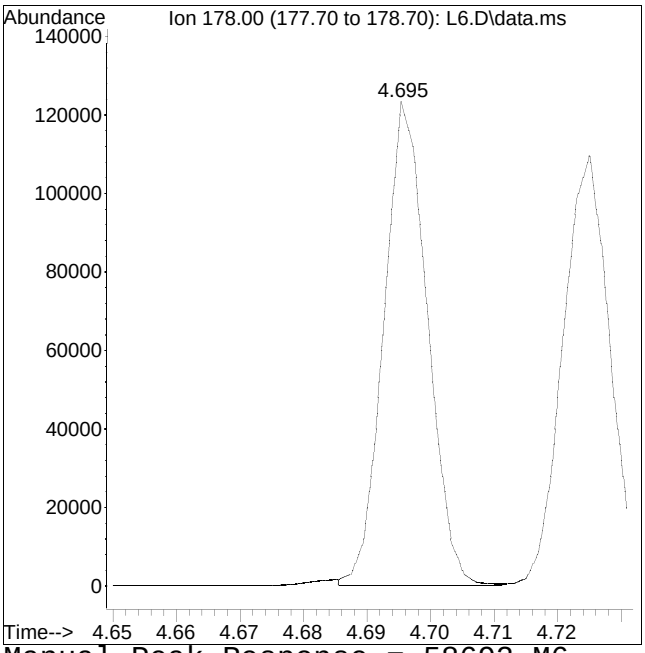
Manual Integration Report

Data Path : I:\8270SIM\SV118\250203RVTQMethod : SIM-RVT_250203sv118.M
Data File : L6.D Operator : SV118:rp
Date Inj'd : 2/3/2025 4:55 pm Instrument : SV118
Sample : IL6,32,, #11283 100 ng/ml Quant Date : 2/4/2025 10:16 am

Compound #26: Phenanthrene



Original Peak Response = 59494



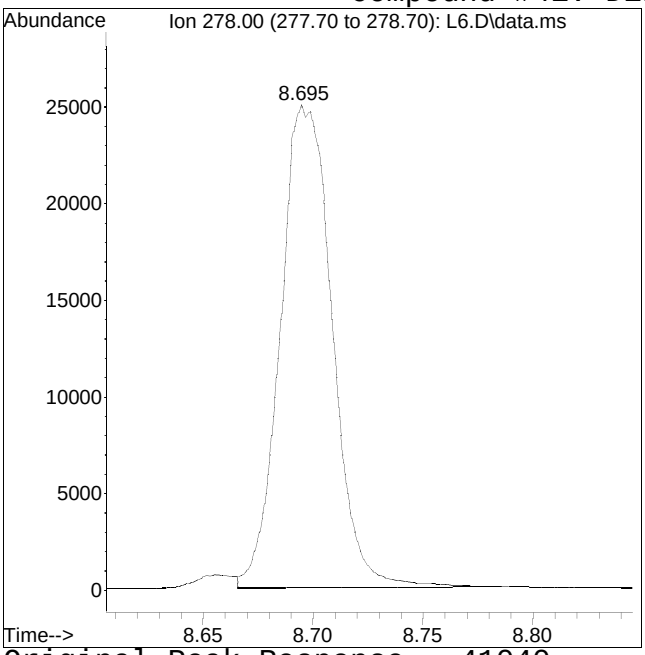
Manual Peak Response = 58692 M6

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

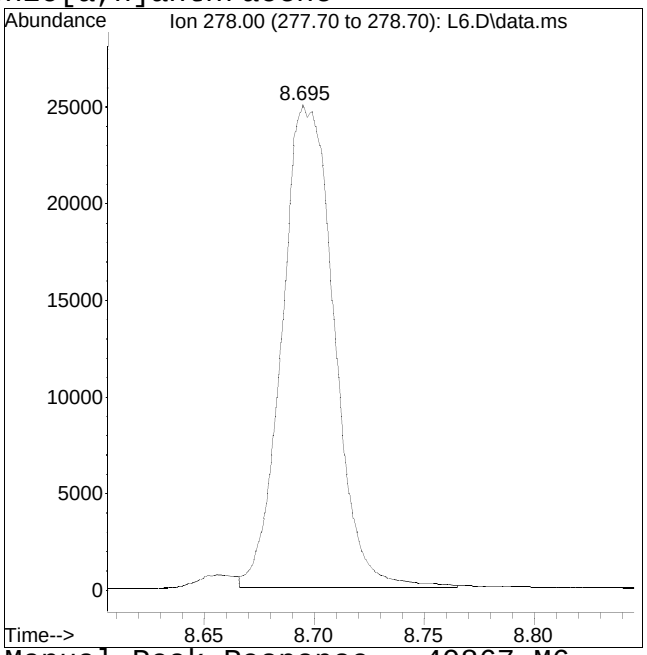
Manual Integration Report

Data Path : I:\8270SIM\SV118\250203RVTQMethod : SIM-RVT_250203sv118.M
Data File : L6.D Operator : SV118:rp
Date Inj'd : 2/3/2025 4:55 pm Instrument : SV118
Sample : IL6,32,, #11283 100 ng/ml Quant Date : 2/4/2025 10:16 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 41040



Manual Peak Response = 40867 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
Data File : L5.D
Acq On : 03 Feb 2025 05:12 pm
Operator : SV118:rp
Sample : IL5,32,, #11284 40 ng/ml
Misc : WG2028184,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 04 10:14:53 2025
Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 04 10:16:02 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\250203RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.200	152	474475	4000.000	ng/ml	0.00
Standard Area 1 = 474400			Recovery = 100.02%			
8) Naphthalene-d8	2.861	136	1710425	4000.000	ng/ml	0.00
Standard Area 1 = 1755733			Recovery = 97.42%			
17) Acenaphthene-d10	3.841	164	953080	4000.000	ng/ml	0.00
Standard Area 1 = 985911			Recovery = 96.67%			
22) Phenanthrene-d10	4.684	188	1888214	4000.000	ng/ml	0.00
Standard Area 1 = 1968639			Recovery = 95.91%			
31) Chrysene-d12	6.239	240	1864485	4000.000	ng/ml	0.00
Standard Area 1 = 1866853			Recovery = 99.87%			
36) Perylene-d12	7.448	264	1797382	4000.000	ng/ml	0.00
Standard Area 1 = 1847760			Recovery = 97.27%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.620	112	5890	40.596	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 2.03%#			
3) Phenol-d6	2.012	99	6813	39.190	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 1.96%#			
7) Nitrobenzene-d5	2.480	82	5565	39.202	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 3.92%#			
13) 2-Fluorobiphenyl	3.461	172	15247	40.709	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 4.07%#			
21) 2,4,6-Tribromophenol	4.286	330	1488	33.751	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 1.69%#			
30) 4-Terphenyl-d14	5.604	244	17879	40.760	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 4.08%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.067	93	6253	40.510	ng/ml	100
5) n-nitrosodi-n-propylamine	2.403	70	3719	37.570	ng/ml	98
6) Hexachloroethane	2.457	117	2547	39.447	ng/ml	100
9) Naphthalene	2.873	128	19390	39.896	ng/ml	99
10) Hexachlorobutadiene	2.947	225	3540	40.677	ng/ml	100
11) 2-Methylnaphthalene	3.254	142	12144	40.157	ng/ml	100
12) 1-Methylnaphthalene	3.309	142	12446	40.496	ng/ml	99
14) 2-Chloronaphthalene	3.526	162	13348	40.795	ng/ml	100
15) 2,6-Dinitrotoluene	3.720	165	2345	32.167	ng/ml	93
16) Acenaphthylene	3.757	152	19590	39.155	ng/ml	99
18) Acenaphthene	3.857	153	13726	40.455	ng/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
Data File : L5.D
Acq On : 03 Feb 2025 05:12 pm
Operator : SV118:rp
Sample : IL5,32,, #11284 40 ng/ml
Misc : WG2028184,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 04 10:14:53 2025
Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 04 10:16:02 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\250203RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.949	165	2905	29.655	ng/ml#	82
20) Fluorene	4.149	166	14808	39.696	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.180	198	987	50.883	ng/ml	95
24) Hexachlorobenzene	4.469	284	5068	40.526	ng/ml	100
25) Pentachlorophenol	4.579	266	1196	29.685	ng/ml	92
26) Phenanthrene	4.696	178	23545M6	41.127	ng/ml	
27) Anthracene	4.725	178	22445	39.556	ng/ml	99
28) Fluoranthene	5.377	202	26276	40.359	ng/ml	99
29) Pyrene	5.506	202	27321	40.547	ng/ml	99
32) Benzo[a]anthracene	6.229	226	7270	36.903	ng/ml#	78
33) 3,3'-Dichlorobenzidine	6.216	252	7808	31.350	ng/ml	99
34) Chrysene	6.252	228	26500	41.197	ng/ml#	99
35) Bis(2-ethylhexyl)phtha...	6.267	149	10358	50.945	ng/ml	99
37) Benzo[b]fluoranthene	7.066	252	22832	38.576	ng/ml	100
38) Benzo[k]fluoranthene	7.093	252	21914	38.973	ng/ml	100
39) Benzo[a]pyrene	7.375	252	18500	37.561	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.652	276	16204	37.109	ng/ml	100
41) Dibenzo[a,h]anthracene	8.691	278	15728M4	37.282	ng/ml	
42) Benzo[g,h,i]perylene	8.992	276	17705	38.372	ng/ml	100

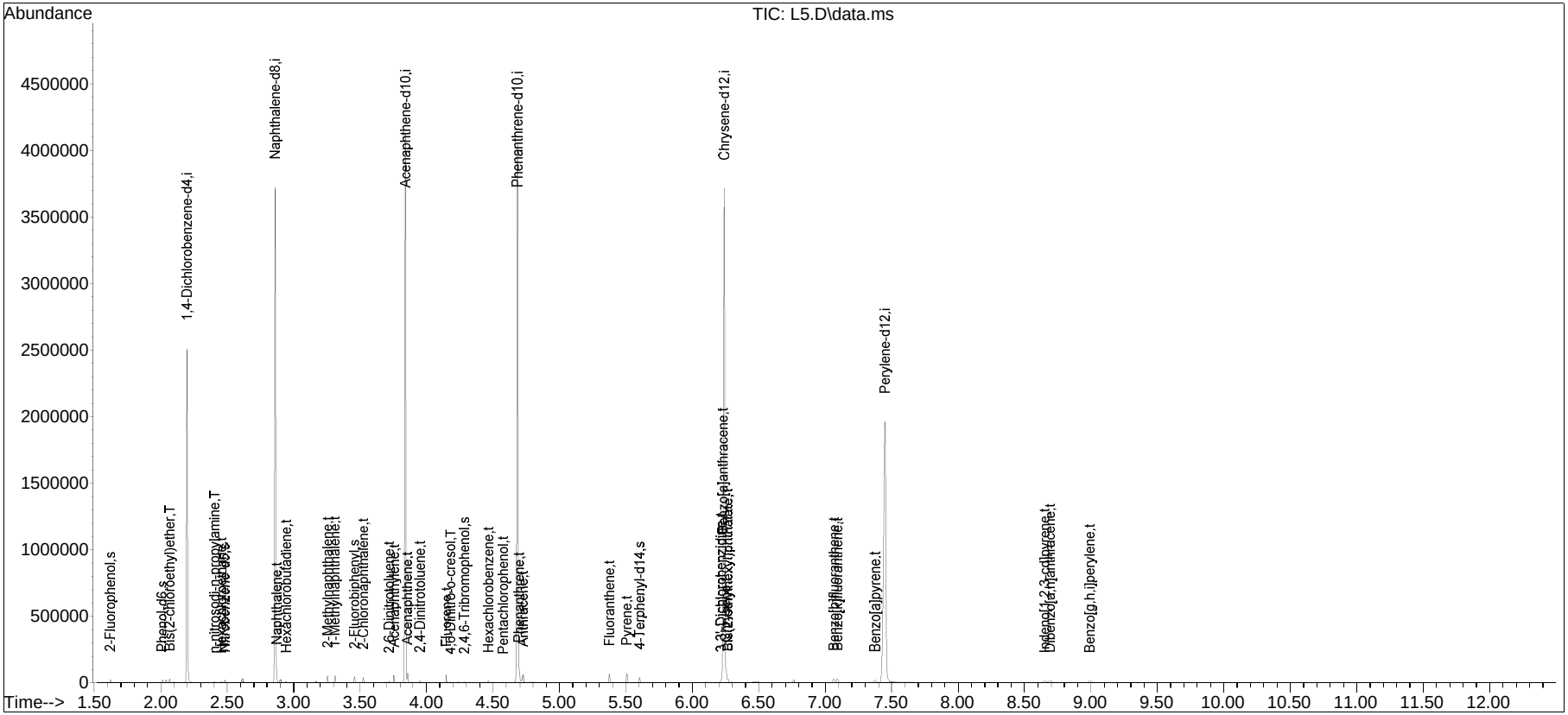
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
Data File : L5.D
Acq On : 03 Feb 2025 05:12 pm
Operator : SV118:rp
Sample : IL5,32,, #11284 40 ng/ml
Misc : WG2028184,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 04 10:14:53 2025
Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 04 10:16:02 2025
Response via : Initial Calibration

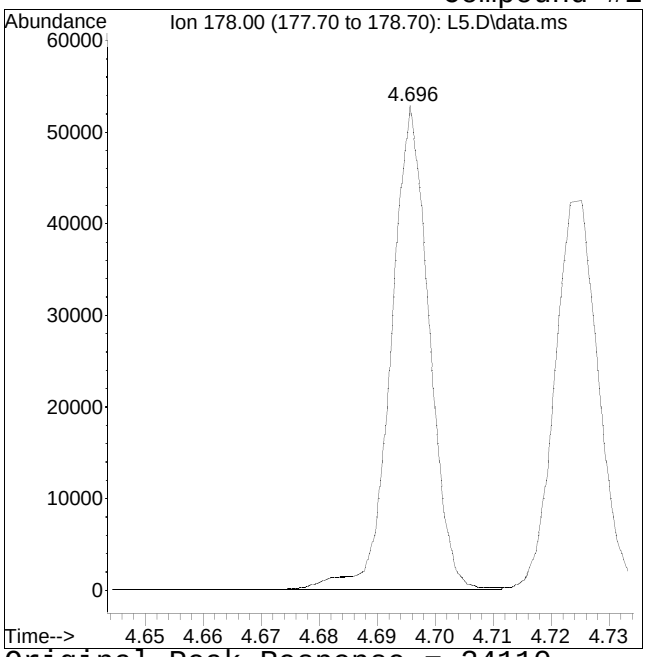
Sub List : Default - All compounds listedical\L8.D•



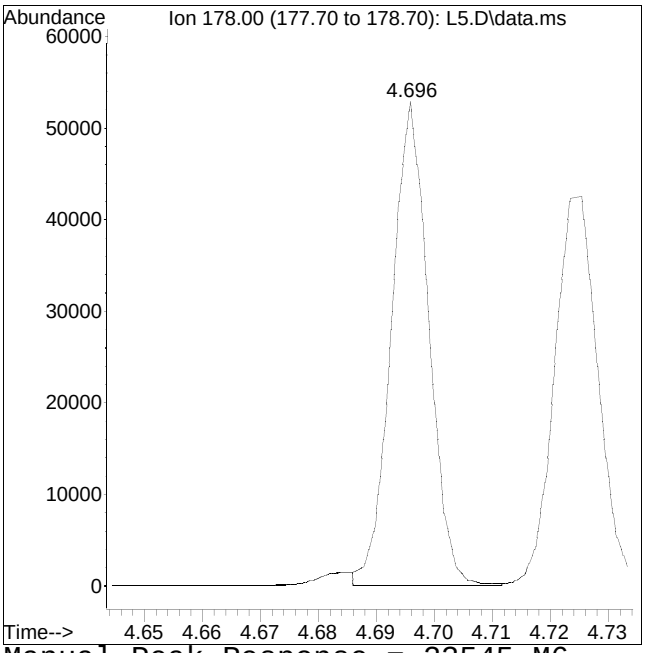
Manual Integration Report

Data Path : I:\8270SIM\SV118\250203RVTQ
Data File : L5.D
Date Inj'd : 2/3/2025 5:12 pm
Sample : IL5,32,, #11284 40 ng/ml
Method : SIM-RVT_250203sv118.M
Operator : SV118:rp
Instrument : SV118
Quant Date : 2/4/2025 10:16 am

Compound #26: Phenanthrene



Original Peak Response = 24110



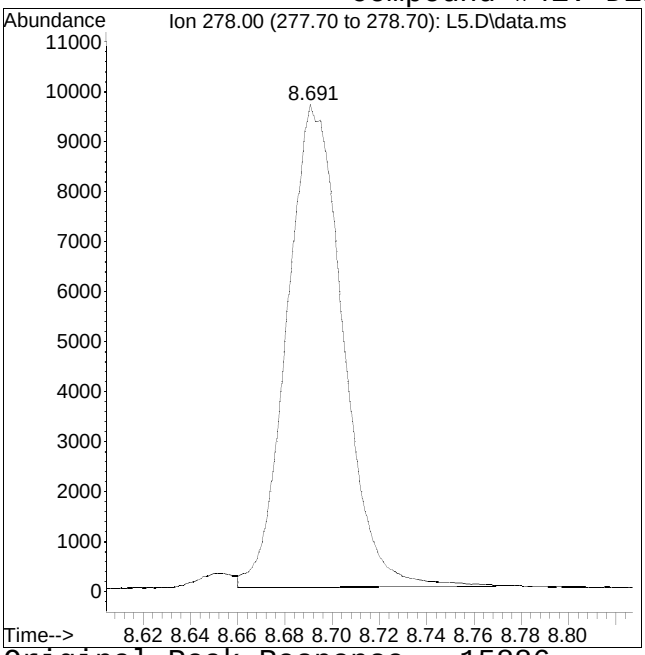
Manual Peak Response = 23545 M6

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

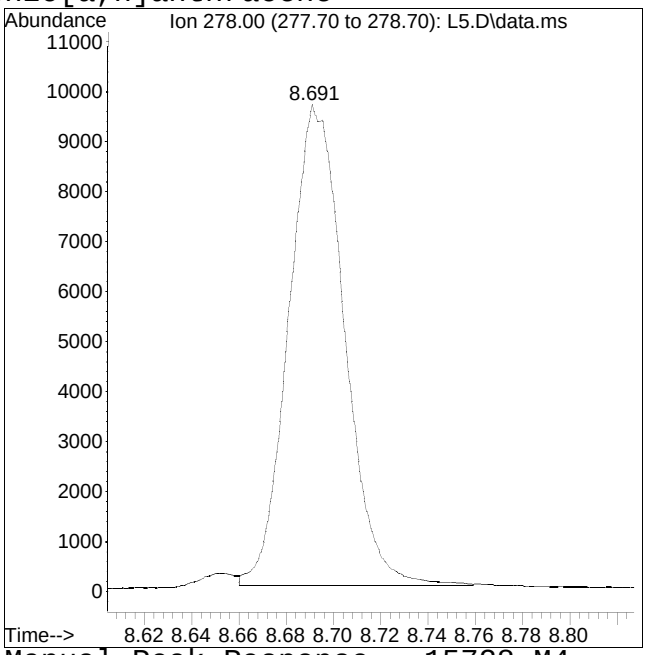
Manual Integration Report

Data Path : I:\8270SIM\SV118\250203RVTQ
Data File : L5.D
Date Inj'd : 2/3/2025 5:12 pm
Sample : IL5,32,, #11284 40 ng/ml
Method : SIM-RVT_250203sv118.M
Operator : SV118:rp
Instrument : SV118
Quant Date : 2/4/2025 10:16 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 15886



Manual Peak Response = 15728 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
Data File : L4.D
Acq On : 03 Feb 2025 05:29 pm
Operator : SV118:rp
Sample : IL4,32,, #11285 10 ng/ml
Misc : WG2028184,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 10 09:29:11 2025
Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 04 10:15:57 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\250203RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.203	152	502433	4000.000	ng/ml	0.00
Standard Area 1 = 474400			Recovery = 105.91%			
8) Naphthalene-d8	2.863	136	1779282	4000.000	ng/ml	0.00
Standard Area 1 = 1755733			Recovery = 101.34%			
17) Acenaphthene-d10	3.840	164	966545	4000.000	ng/ml	0.00
Standard Area 1 = 985911			Recovery = 98.04%			
22) Phenanthrene-d10	4.683	188	1848885	4000.000	ng/ml	0.00
Standard Area 1 = 1968639			Recovery = 93.92%			
31) Chrysene-d12	6.238	240	1672331	4000.000	ng/ml	0.00
Standard Area 1 = 1866853			Recovery = 89.58%			
36) Perylene-d12	7.443	264	1552719	4000.000	ng/ml	0.00
Standard Area 1 = 1847760			Recovery = 84.03%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.629	112	1561	10.160	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.51%#			
3) Phenol-d6	2.015	99	1793	9.740	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.49%#			
7) Nitrobenzene-d5	2.481	82	1375M6	9.147	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.91%#			
13) 2-Fluorobiphenyl	3.460	172	3944	10.123	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 1.01%#			
21) 2,4,6-Tribromophenol	4.285	330	348	7.783	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.39%#			
30) 4-Terphenyl-d14	5.603	244	4000	9.313	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.93%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.071	93	1646	10.070	ng/ml	98
5) n-nitrosodi-n-propylamine	2.406	70	961	9.168	ng/ml	100
6) Hexachloroethane	2.459	117	689	10.077	ng/ml	98
9) Naphthalene	2.872	128	5197	10.279	ng/ml#	97
10) Hexachlorobutadiene	2.946	225	933	10.306	ng/ml	100
11) 2-Methylnaphthalene	3.255	142	3133	9.959	ng/ml	100
12) 1-Methylnaphthalene	3.308	142	3192	9.984	ng/ml	99
14) 2-Chloronaphthalene	3.525	162	3366	9.889	ng/ml	100
15) 2,6-Dinitrotoluene	3.719	165	600M6	7.912	ng/ml	
16) Acenaphthylene	3.756	152	4816	9.253	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
Data File : L4.D
Acq On : 03 Feb 2025 05:29 pm
Operator : SV118:rp
Sample : IL4,32,, #11285 10 ng/ml
Misc : WG2028184,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 10 09:29:11 2025
Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 04 10:15:57 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\250203RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
18) Acenaphthene	3.856	153	3460	10.056	ng/ml	98
19) 2,4-Dinitrotoluene	3.948	165	638	6.422	ng/ml#	74
20) Fluorene	4.149	166	3652	9.654	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.179	198	176	37.869	ng/ml	87
24) Hexachlorobenzene	4.468	284	1209	9.873	ng/ml	98
25) Pentachlorophenol	4.579	266	272M4	14.367	ng/ml	
26) Phenanthrene	4.695	178	5536M3	9.876	ng/ml	
27) Anthracene	4.723	178	5345	9.620	ng/ml	98
28) Fluoranthene	5.377	202	5943M1	9.322	ng/ml	
29) Pyrene	5.506	202	6107	9.256	ng/ml	99
32) Benzo[a]anthracene	6.229	226	1824	10.322	ng/ml#	17
33) 3,3'-Dichlorobenzidine	0.000		0	N.D.	d	
34) Chrysene	6.251	228	5677	9.839	ng/ml#	100
35) Bis(2-ethylhexyl)phtha...	6.267	149	2479	34.249	ng/ml	98
37) Benzo[b]fluoranthene	7.068	252	4849	9.484	ng/ml	100
38) Benzo[k]fluoranthene	7.092	252	4613M6	9.497	ng/ml	
39) Benzo[a]pyrene	7.375	252	3905	9.178	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	8.655	276	3446	9.135	ng/ml	99
41) Dibenzo[a,h]anthracene	8.691	278	3236M1	8.879	ng/ml	
42) Benzo[g,h,i]perylene	8.996	276	3632	9.112	ng/ml	100

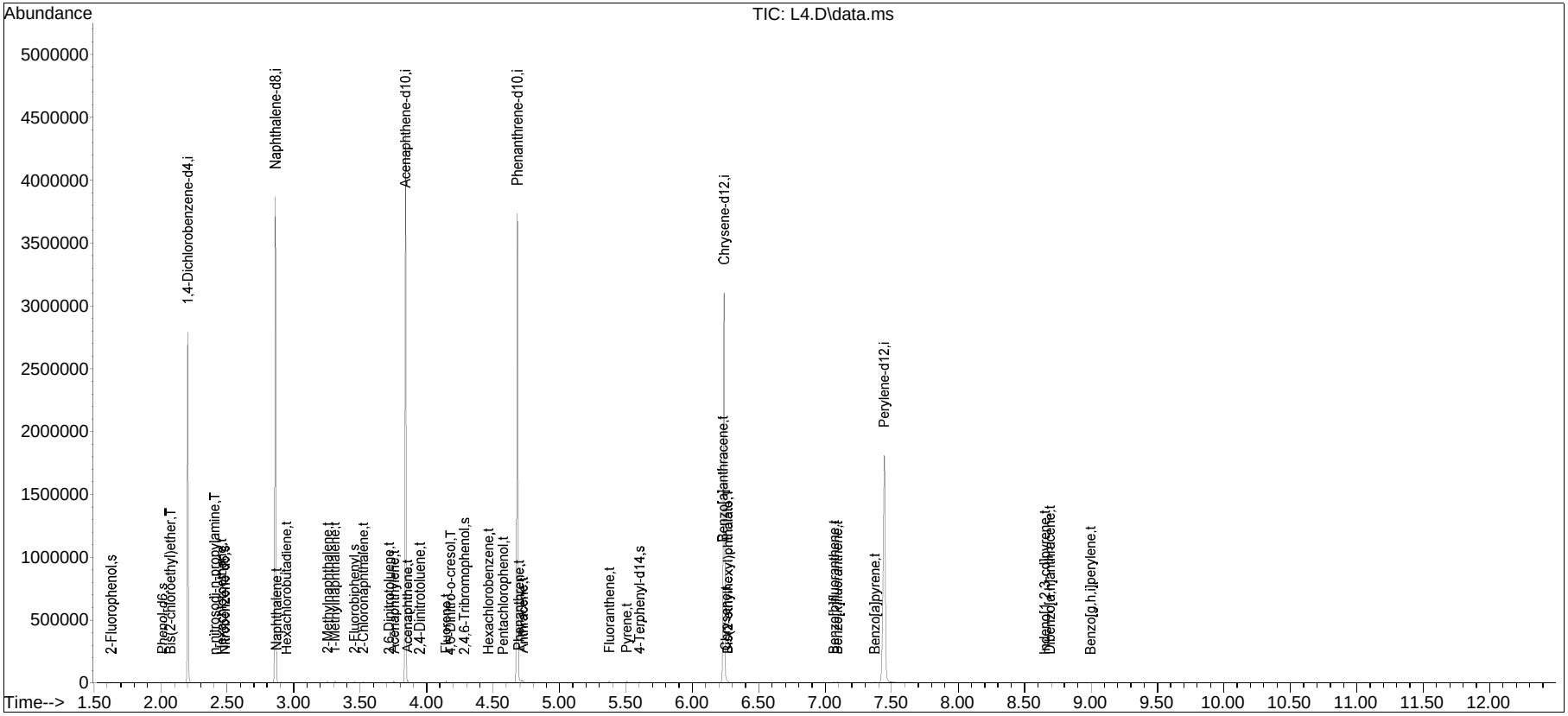
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
Data File : L4.D
Acq On : 03 Feb 2025 05:29 pm
Operator : SV118:rp
Sample : IL4,32,, #11285 10 ng/ml
Misc : WG2028184,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 10 09:29:11 2025
Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 04 10:15:57 2025
Response via : Initial Calibration

Sub List : Default - All compounds listedical\L8.D•

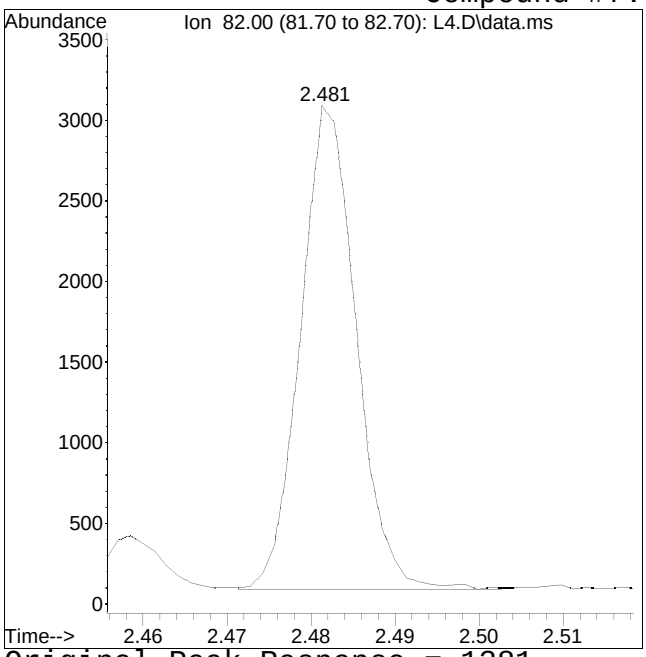


Manual Integration Report

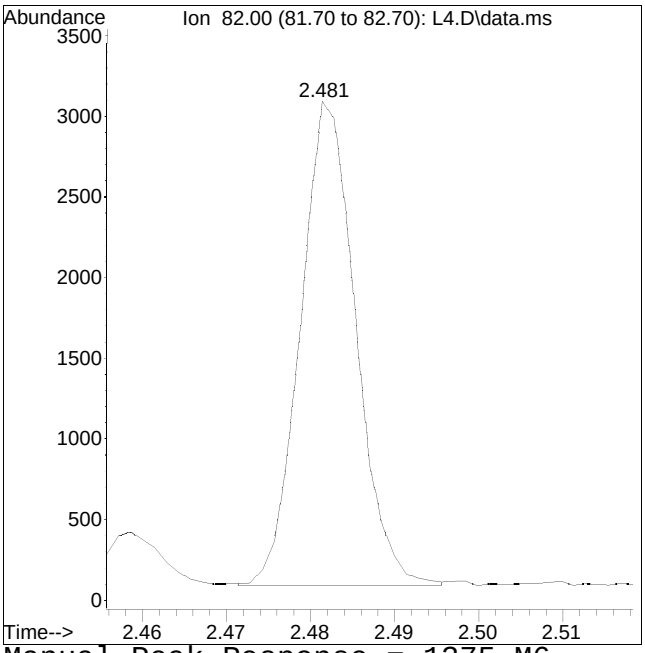
Data Path : I:\8270SIM\SV118\250203RVTQ
Data File : L4.D
Date Inj'd : 2/3/2025 5:29 pm
Sample : IL4,32,, #11285 10 ng/ml

Method : SIM-RVT_250203sv118.M
Operator : SV118:rp
Instrument : SV118
Quant Date : 2/4/2025 10:15 am

Compound #7: Nitrobenzene-d5



Original Peak Response = 1381



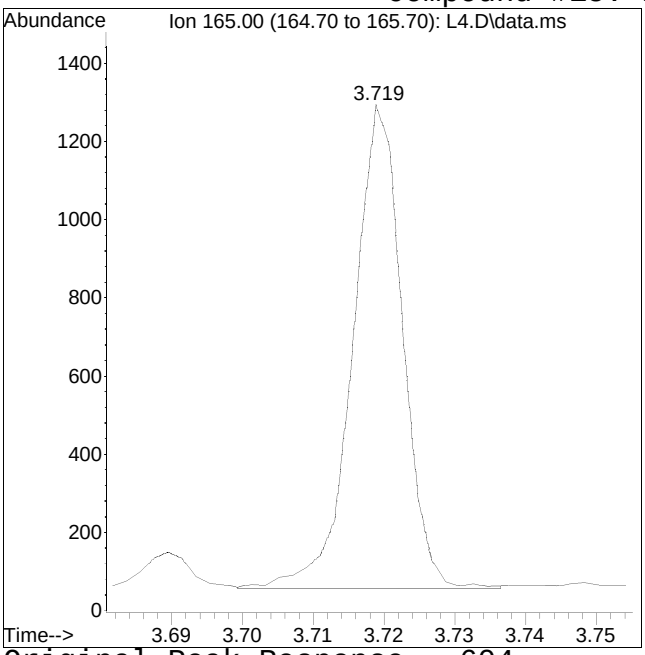
Manual Peak Response = 1375 M6

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

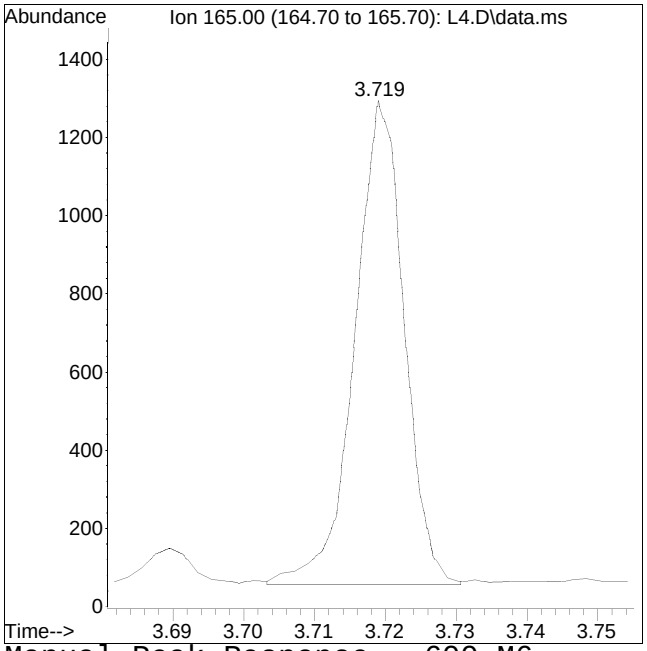
Manual Integration Report

Data Path : I:\8270SIM\SV118\250203RVTQ
Data File : L4.D
Date Inj'd : 2/3/2025 5:29 pm
Sample : IL4,32,, #11285 10 ng/ml
Method : SIM-RVT_250203sv118.M
Operator : SV118:rp
Instrument : SV118
Quant Date : 2/4/2025 10:15 am

Compound #15: 2,6-Dinitrotoluene



Original Peak Response = 604



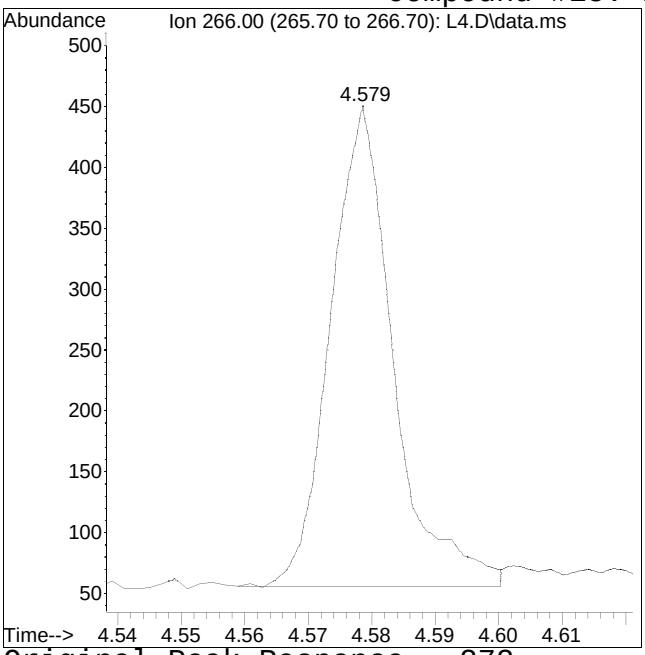
Manual Peak Response = 600 M6

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

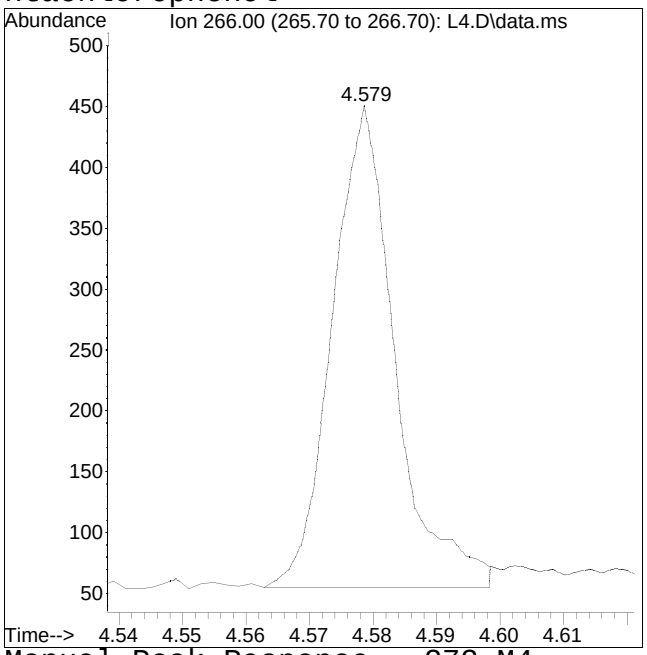
Manual Integration Report

Data Path : I:\8270SIM\SV118\250203RVTQ
Data File : L4.D
Date Inj'd : 2/3/2025 5:29 pm
Sample : IL4,32,, #11285 10 ng/ml
Method : SIM-RVT_250203sv118.M
Operator : SV118:rp
Instrument : SV118
Quant Date : 2/4/2025 10:15 am

Compound #25: Pentachlorophenol



Original Peak Response = 272



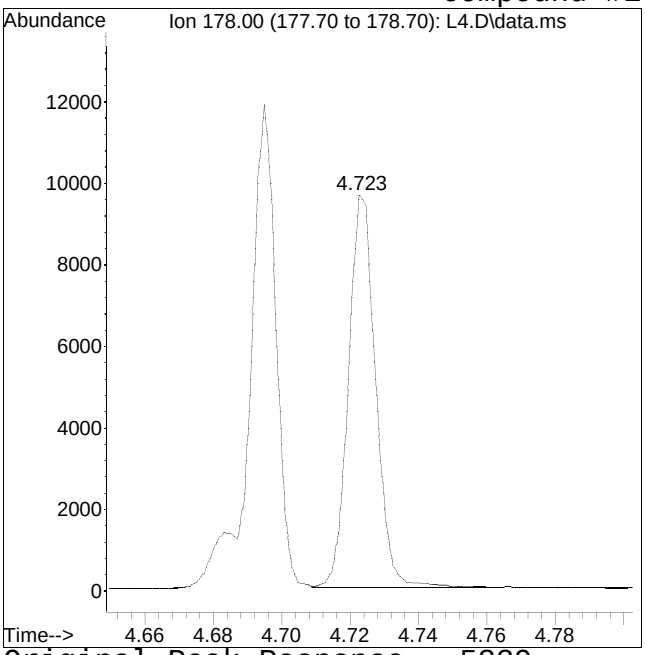
Manual Peak Response = 272 M4

M4 = Poor automated baseline construction.

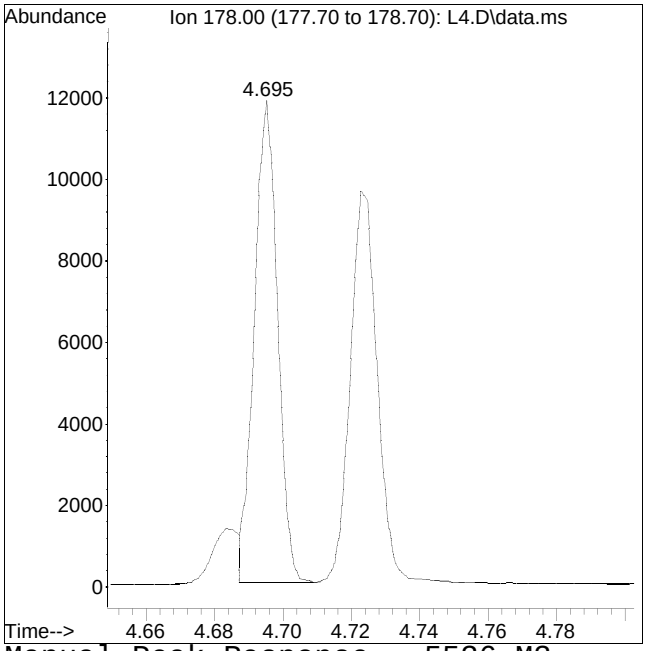
Manual Integration Report

Data Path : I:\8270SIM\SV118\250203RVTQ
Data File : L4.D
Date Inj'd : 2/3/2025 5:29 pm
Sample : IL4,32,, #11285 10 ng/ml
Method : SIM-RVT_250203sv118.M
Operator : SV118:rp
Instrument : SV118
Quant Date : 2/4/2025 10:15 am

Compound #26: Phenanthrene



Original Peak Response = 5339



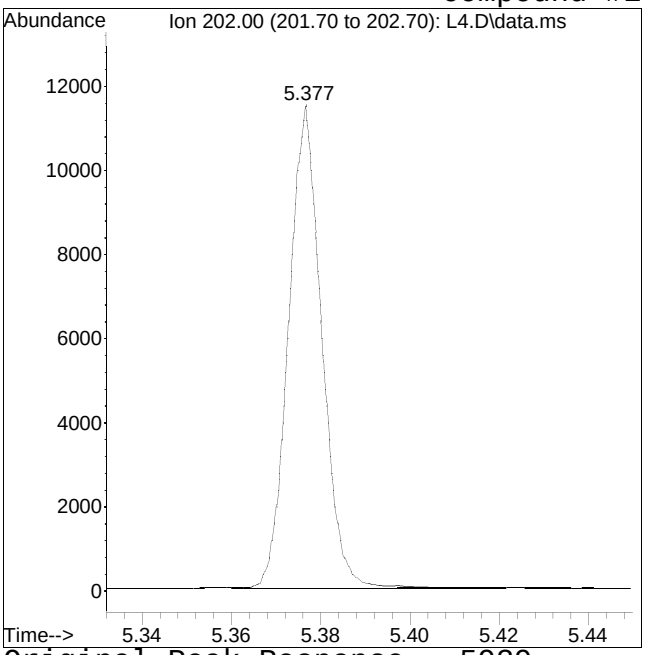
Manual Peak Response = 5536 M3

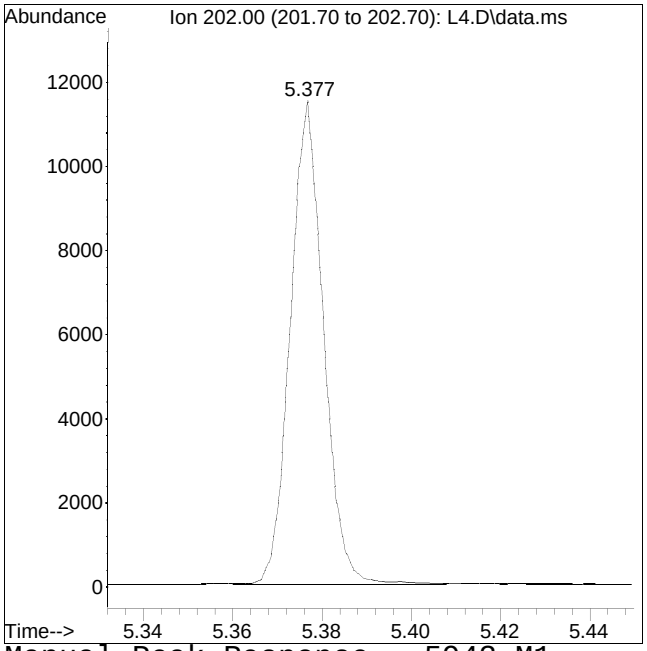
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\SV118\250203RVTQMethod : SIM-RVT_250203sv118.M
Data File : L4.D Operator : SV118:rp
Date Inj'd : 2/3/2025 5:29 pm Instrument : SV118
Sample : IL4,32,, #11285 10 ng/ml Quant Date : 2/4/2025 10:15 am

Compound #28: Fluoranthene



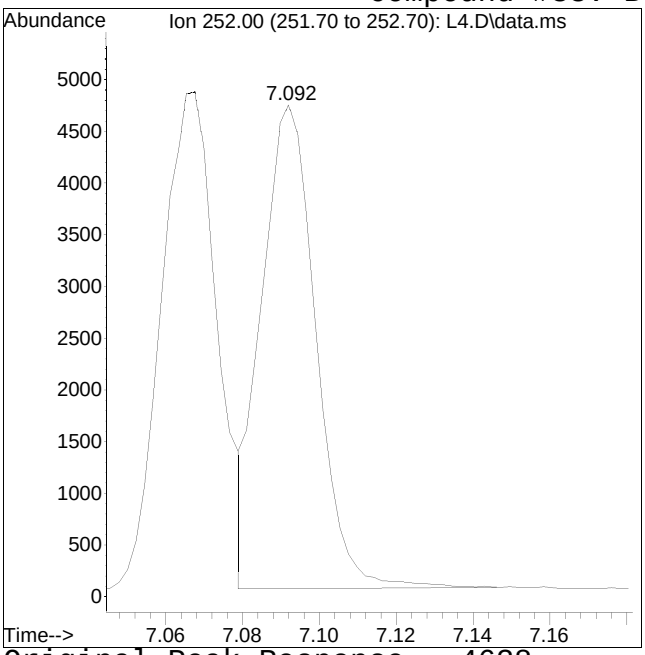


Original Peak Response = 5939 Manual Peak Response = 5943 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

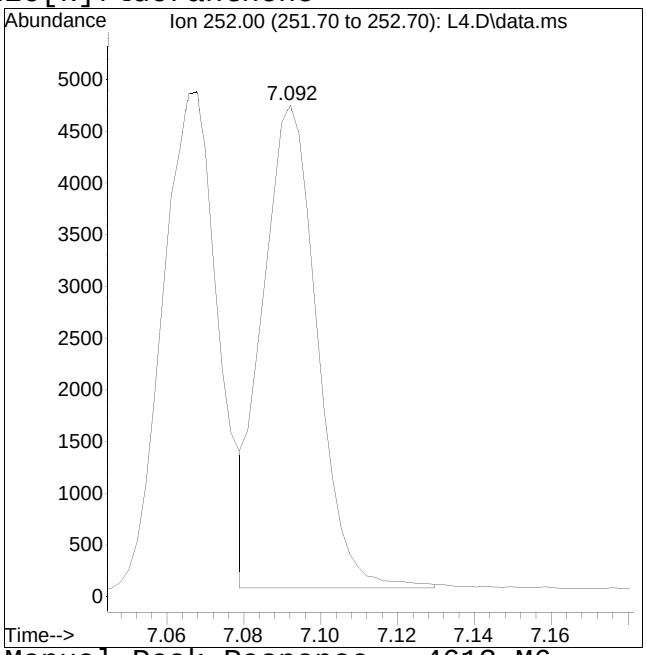
Manual Integration Report

Data Path : I:\8270SIM\SV118\250203RVTQ
Data File : L4.D
Date Inj'd : 2/3/2025 5:29 pm
Sample : IL4,32,, #11285 10 ng/ml
Method : SIM-RVT_250203sv118.M
Operator : SV118:rp
Instrument : SV118
Quant Date : 2/4/2025 10:15 am

Compound #38: Benzo[k]fluoranthene



Original Peak Response = 4638



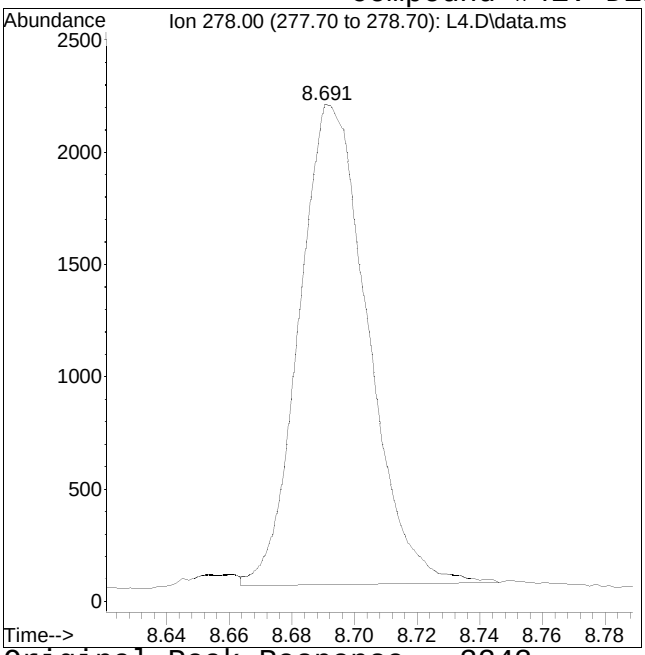
Manual Peak Response = 4613 M6

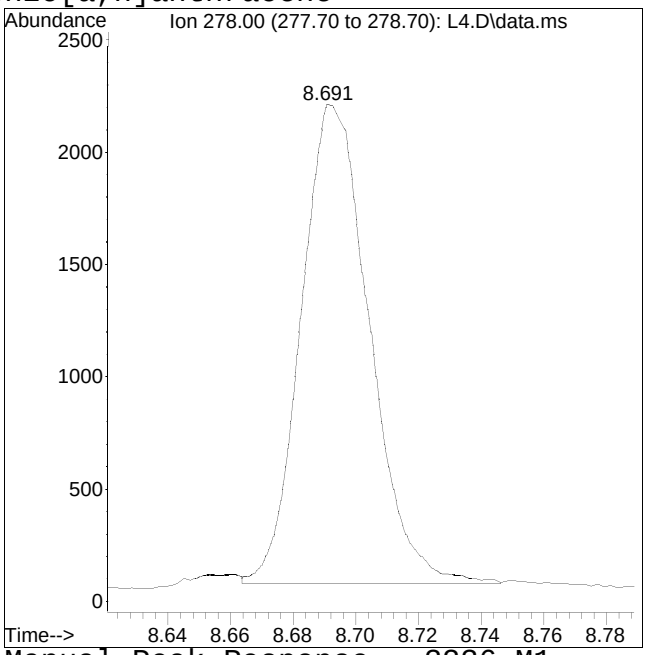
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\SV118\250203RVTQ
Data File : L4.D
Date Inj'd : 2/3/2025 5:29 pm
Sample : IL4,32,, #11285 10 ng/ml
Method : SIM-RVT_250203sv118.M
Operator : SV118:rp
Instrument : SV118
Quant Date : 2/4/2025 10:15 am

Compound #41: Dibenzo[a,h]anthracene





Original Peak Response = 3243 Manual Peak Response = 3236 M1

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
Data File : L3.D
Acq On : 03 Feb 2025 05:46 pm
Operator : SV118:rp
Sample : IL3,32,, #11286 5 ng/ml
Misc : WG2028184,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 04 10:21:16 2025
Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 04 10:15:53 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\250203RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.200	152	493524	4000.000	ng/ml	0.00
Standard Area 1 = 474400			Recovery	= 104.03%		
8) Naphthalene-d8	2.861	136	1774159	4000.000	ng/ml	0.00
Standard Area 1 = 1755733			Recovery	= 101.05%		
17) Acenaphthene-d10	3.840	164	985685	4000.000	ng/ml	0.00
Standard Area 1 = 985911			Recovery	= 99.98%		
22) Phenanthrene-d10	4.683	188	1948289	4000.000	ng/ml	0.00
Standard Area 1 = 1968639			Recovery	= 98.97%		
31) Chrysene-d12	6.235	240	1853197	4000.000	ng/ml	0.00
Standard Area 1 = 1866853			Recovery	= 99.27%		
36) Perylene-d12	7.446	264	1705671	4000.000	ng/ml	0.00
Standard Area 1 = 1847760			Recovery	= 92.31%		
System Monitoring Compounds						
2) 2-Fluorophenol	1.622	112	743	4.923	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 0.25%#		
3) Phenol-d6	2.012	99	881	4.872	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 0.24%#		
7) Nitrobenzene-d5	2.481	82	681	4.612	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 0.46%#		
13) 2-Fluorobiphenyl	3.461	172	1948	5.014	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 0.50%#		
21) 2,4,6-Tribromophenol	4.286	330	179	3.926	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 0.20%#		
30) 4-Terphenyl-d14	5.603	244	2270	5.016	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 0.50%#		
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.068	93	896	5.581	ng/ml	91
5) n-nitrosodi-n-propylamine	2.406	70	484	4.701	ng/ml	99
6) Hexachloroethane	2.457	117	345	5.137	ng/ml	94
9) Naphthalene	2.872	128	2592	5.142	ng/ml	98
10) Hexachlorobutadiene	2.946	225	469	5.195	ng/ml	99
11) 2-Methylnaphthalene	3.255	142	1554	4.954	ng/ml	99
12) 1-Methylnaphthalene	3.310	142	1579	4.953	ng/ml	98
14) 2-Chloronaphthalene	3.525	162	1699	5.006	ng/ml	99
15) 2,6-Dinitrotoluene	0.000		0	N.D. d		
16) Acenaphthylene	3.756	152	2425	4.673	ng/ml	98
18) Acenaphthene	3.856	153	1798M6	5.124	ng/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
Data File : L3.D
Acq On : 03 Feb 2025 05:46 pm
Operator : SV118:rp
Sample : IL3,32,, #11286 5 ng/ml
Misc : WG2028184,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 04 10:21:16 2025
Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 04 10:15:53 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\250203RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
20) Fluorene	4.149	166	1899	4.922	ng/ml	98
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.	d	
24) Hexachlorobenzene	4.466	284	644	4.991	ng/ml	99
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	4.695	178	3015M3	5.104	ng/ml	
27) Anthracene	4.723	178	2815	4.808	ng/ml	100
28) Fluoranthene	5.377	202	3317	4.938	ng/ml	100
29) Pyrene	5.506	202	3433	4.938	ng/ml	99
32) Benzo[a]anthracene	6.230	226	1237	6.317	ng/ml#	1
33) 3,3'-Dichlorobenzidine	6.215	252	858	3.466	ng/ml	97
34) Chrysene	6.250	228	3159	4.941	ng/ml#	99
35) Bis(2-ethylhexyl)phtha...	6.266	149	1334	31.123	ng/ml	100
37) Benzo[b]fluoranthene	7.063	252	2723	4.848	ng/ml	98
38) Benzo[k]fluoranthene	7.090	252	2396M6	4.490	ng/ml	
39) Benzo[a]pyrene	7.373	252	2094	4.480	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	8.658	276	1841	4.443	ng/ml	99
41) Dibenzo[a,h]anthracene	8.691	278	1675M1	4.184	ng/ml	
42) Benzo[g,h,i]perylene	8.994	276	1966	4.490	ng/ml	99

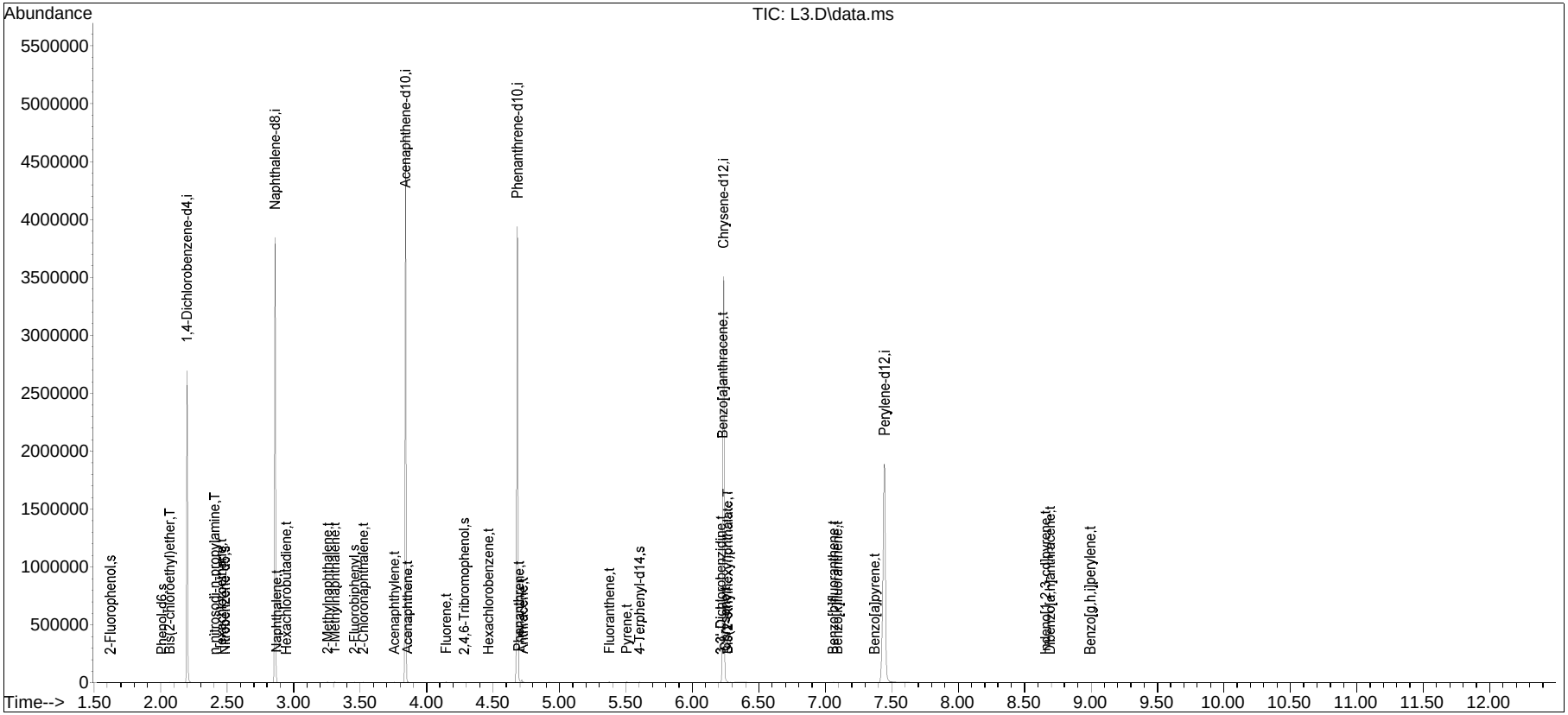
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
Data File : L3.D
Acq On : 03 Feb 2025 05:46 pm
Operator : SV118:rp
Sample : IL3,32,, #11286 5 ng/ml
Misc : WG2028184,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 04 10:21:16 2025
Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 04 10:15:53 2025
Response via : Initial Calibration

Sub List : Default - All compounds listedical\L8.D•

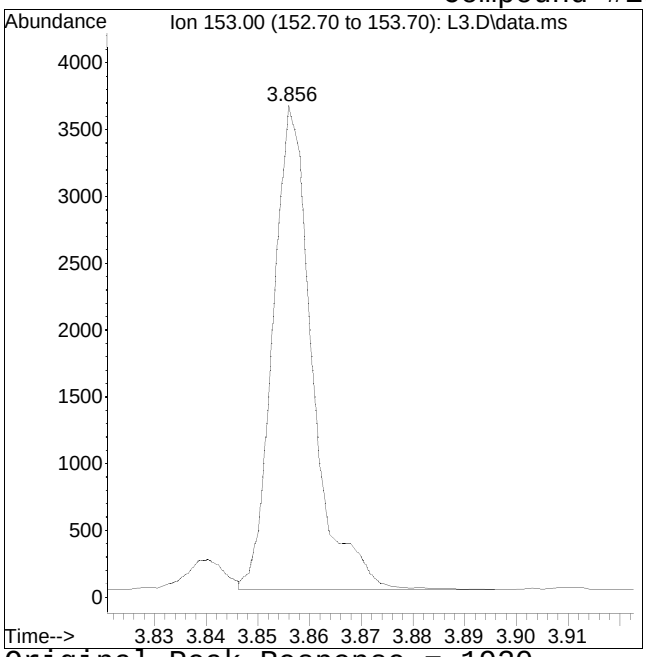


Manual Integration Report

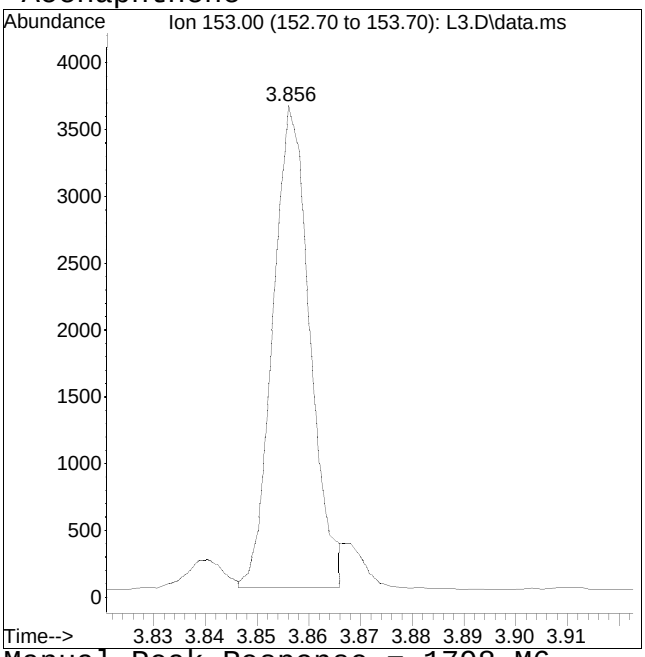
Data Path : I:\8270SIM\SV118\250203RVTQ
Data File : L3.D
Date Inj'd : 2/3/2025 5:46 pm
Sample : IL3,32,, #11286 5 ng/ml

Method : SIM-RVT_250203sv118.M
Operator : SV118:rp
Instrument : SV118
Quant Date : 2/4/2025 10:15 am

Compound #18: Acenaphthene



Original Peak Response = 1920



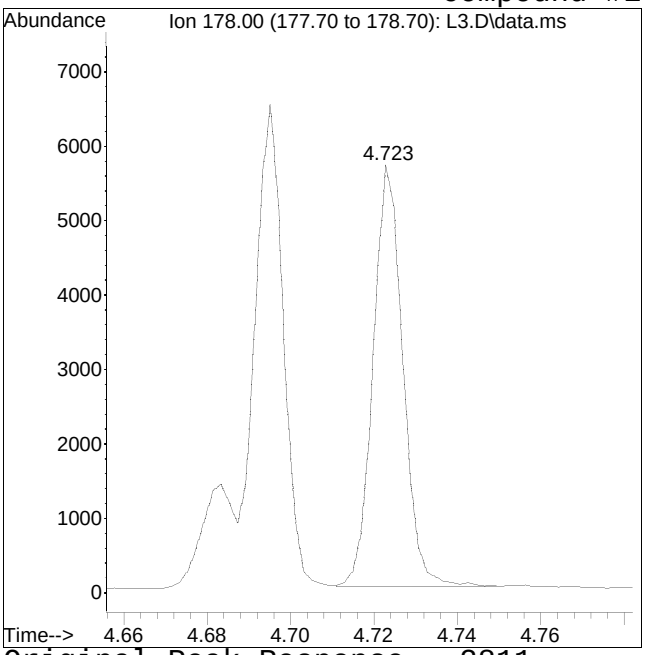
Manual Peak Response = 1798 M6

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

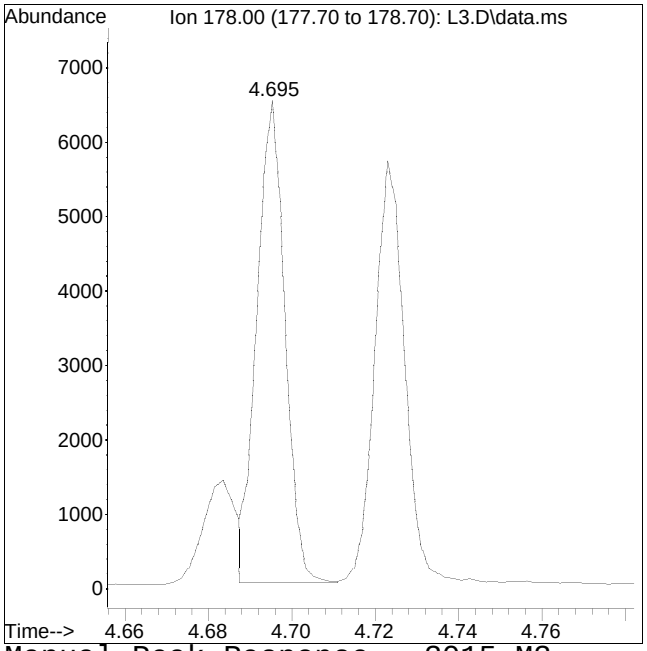
Manual Integration Report

Data Path : I:\8270SIM\SV118\250203RVTQMethod : SIM-RVT_250203sv118.M
Data File : L3.D Operator : SV118:rp
Date Inj'd : 2/3/2025 5:46 pm Instrument : SV118
Sample : IL3,32,, #11286 5 ng/ml Quant Date : 2/4/2025 10:15 am

Compound #26: Phenanthrene



Original Peak Response = 2811



Manual Peak Response = 3015 M3

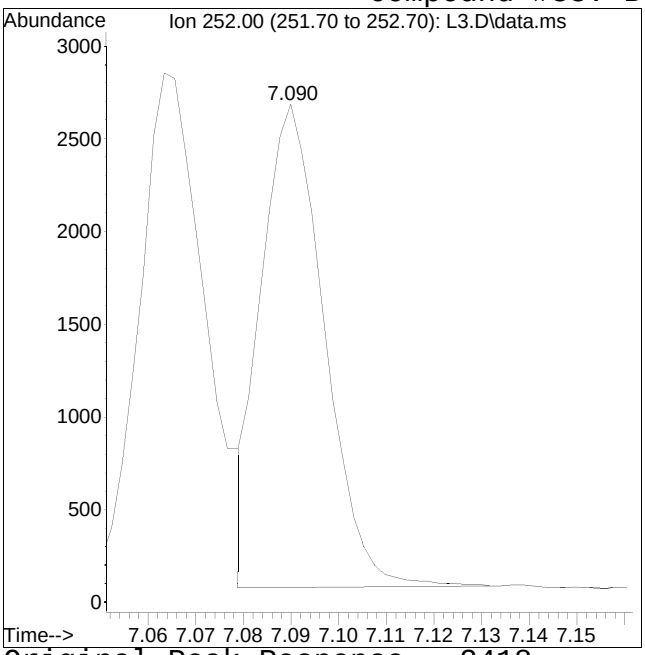
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

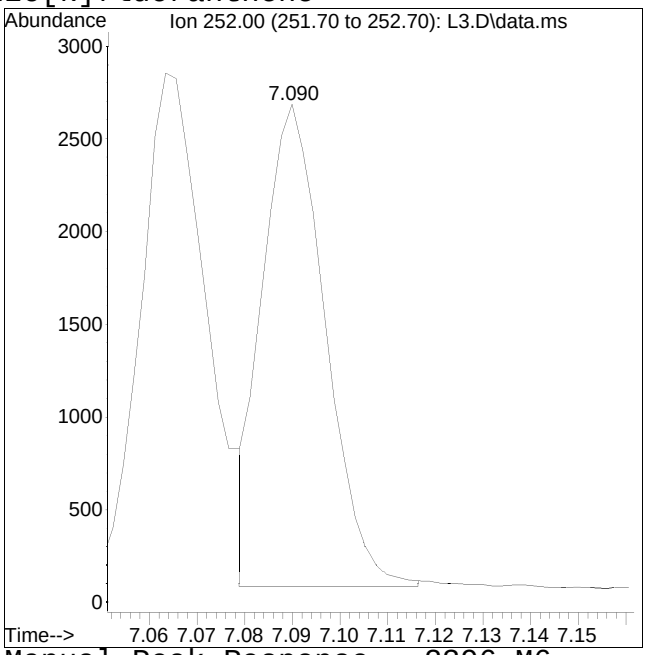
Data Path : I:\8270SIM\SV118\250203RVTQ
Data File : L3.D
Date Inj'd : 2/3/2025 5:46 pm
Sample : IL3,32,, #11286 5 ng/ml

Method : SIM-RVT_250203sv118.M
Operator : SV118:rp
Instrument : SV118
Quant Date : 2/4/2025 10:15 am

Compound #38: Benzo[k]fluoranthene



Original Peak Response = 2418



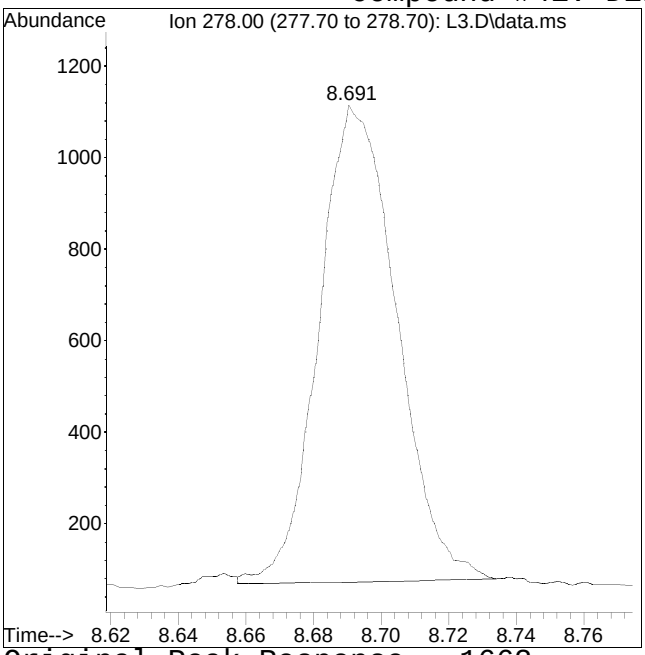
Manual Peak Response = 2396 M6

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

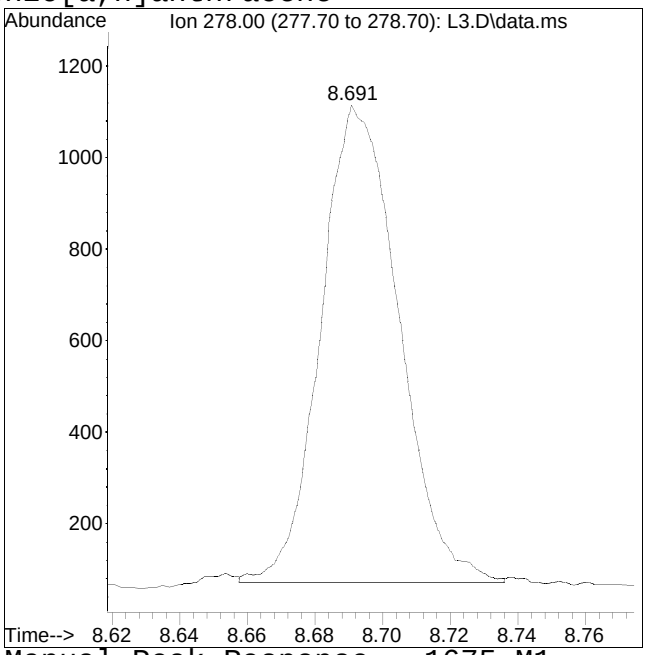
Manual Integration Report

Data Path : I:\8270SIM\SV118\250203RVTQ
Data File : L3.D
Date Inj'd : 2/3/2025 5:46 pm
Sample : IL3,32,, #11286 5 ng/ml
Method : SIM-RVT_250203sv118.M
Operator : SV118:rp
Instrument : SV118
Quant Date : 2/4/2025 10:15 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 1662



Manual Peak Response = 1675 M1

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
Data File : L2.D
Acq On : 03 Feb 2025 06:03 pm
Operator : SV118:rp
Sample : IL2,32,, #11287 2 ng/ml
Misc : WG2028184,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 04 10:20:11 2025
Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 04 10:15:47 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\250203RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.200	152	550239	4000.000	ng/ml	0.00
Standard Area 1 = 474400			Recovery = 115.99%			
8) Naphthalene-d8	2.863	136	1976420	4000.000	ng/ml	0.00
Standard Area 1 = 1755733			Recovery = 112.57%			
17) Acenaphthene-d10	3.841	164	1107818	4000.000	ng/ml	0.00
Standard Area 1 = 985911			Recovery = 112.36%			
22) Phenanthrene-d10	4.685	188	2195296	4000.000	ng/ml	0.00
Standard Area 1 = 1968639			Recovery = 111.51%			
31) Chrysene-d12	6.237	240	2122774	4000.000	ng/ml	0.00
Standard Area 1 = 1866853			Recovery = 113.71%			
36) Perylene-d12	7.445	264	1992063	4000.000	ng/ml	0.00
Standard Area 1 = 1847760			Recovery = 107.81%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.621	112	341	2.027	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.10%#			
3) Phenol-d6	2.012	99	423	2.098	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.10%#			
7) Nitrobenzene-d5	2.481	82	322	1.956	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.20%#			
13) 2-Fluorobiphenyl	3.462	172	985	2.276	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.23%#			
21) 2,4,6-Tribromophenol	4.288	330	93	1.815	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.09%#			
30) 4-Terphenyl-d14	5.603	244	1091	2.139	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.21%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
5) n-nitrosodi-n-propylamine	0.000		0	N.D.	d	
6) Hexachloroethane	0.000		0	N.D.	d	
9) Naphthalene	2.873	128	1314M6	2.340	ng/ml	
10) Hexachlorobutadiene	2.945	225	204	2.029	ng/ml	92
11) 2-Methylnaphthalene	3.255	142	778	2.226	ng/ml	99
12) 1-Methylnaphthalene	3.310	142	780	2.196	ng/ml	99
14) 2-Chloronaphthalene	3.526	162	797	2.108	ng/ml	100
15) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
16) Acenaphthylene	3.758	152	1175	2.032	ng/ml	98
18) Acenaphthene	3.858	153	874	2.216	ng/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
Data File : L2.D
Acq On : 03 Feb 2025 06:03 pm
Operator : SV118:rp
Sample : IL2,32,, #11287 2 ng/ml
Misc : WG2028184,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 04 10:20:11 2025
Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 04 10:15:47 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\250203RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
20) Fluorene	4.151	166	936	2.159	ng/ml	98
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.	d	
24) Hexachlorobenzene	4.468	284	318	2.187	ng/ml	97
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	4.697	178	1387M3	2.084	ng/ml	
27) Anthracene	4.725	178	1386	2.101	ng/ml	98
28) Fluoranthene	5.377	202	1564	2.066	ng/ml	99
29) Pyrene	5.508	202	1614	2.060	ng/ml	99
32) Benzo[a]anthracene	6.236	226	833	3.714	ng/ml#	1
33) 3,3'-Dichlorobenzidine	0.000		0	N.D.	d	
34) Chrysene	6.251	228	1440	1.966	ng/ml#	99
35) Bis(2-ethylhexyl)phtha...	6.264	149	975	30.055	ng/ml	100
37) Benzo[b]fluoranthene	7.063	252	1311	1.999	ng/ml	97
38) Benzo[k]fluoranthene	7.089	252	1254	2.012	ng/ml	99
39) Benzo[a]pyrene	7.372	252	1017	1.863	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.655	276	880	1.818	ng/ml	98
41) Dibenzo[a,h]anthracene	8.694	278	832M4	1.779	ng/ml	
42) Benzo[g,h,i]perylene	8.993	276	938	1.834	ng/ml	97

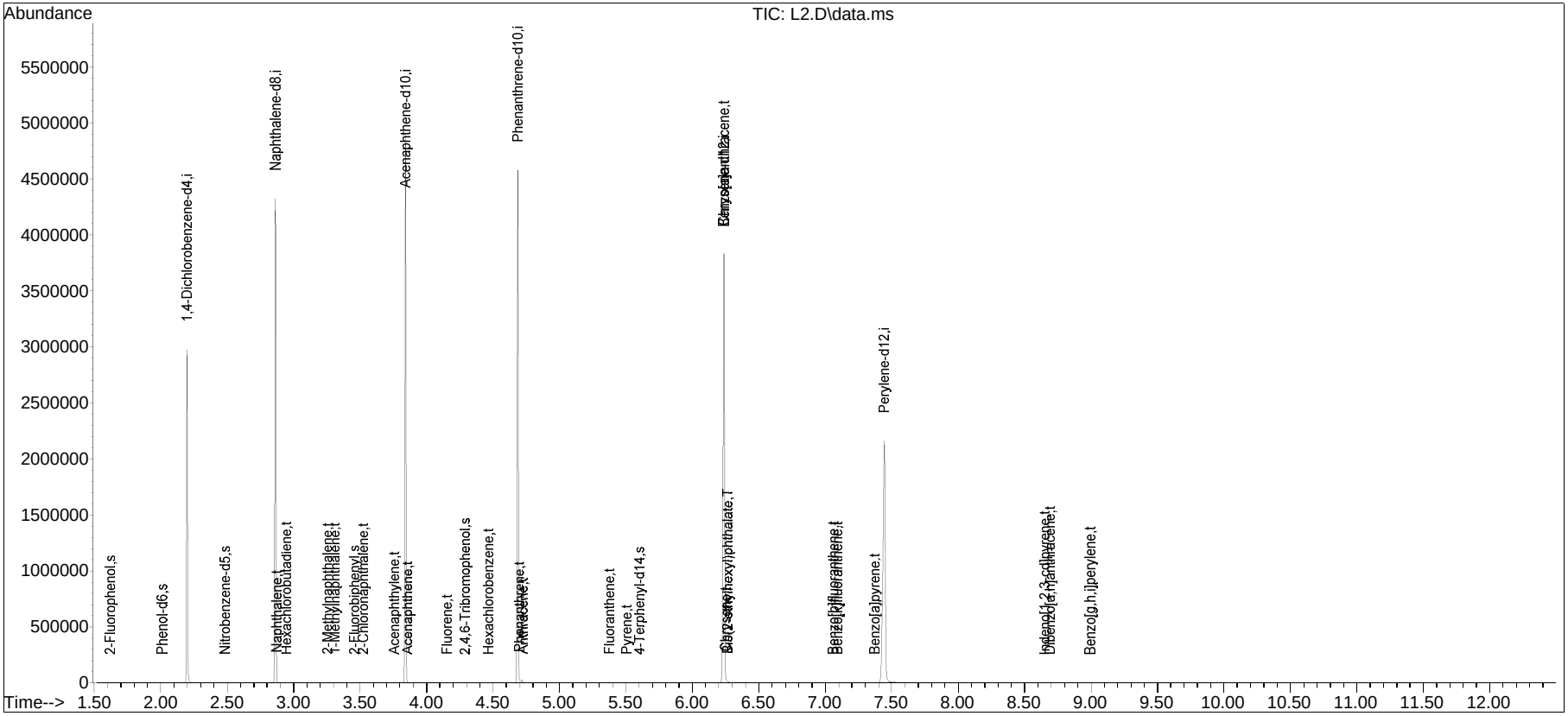
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
Data File : L2.D
Acq On : 03 Feb 2025 06:03 pm
Operator : SV118:rp
Sample : IL2,32,, #11287 2 ng/ml
Misc : WG2028184,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 04 10:20:11 2025
Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 04 10:15:47 2025
Response via : Initial Calibration

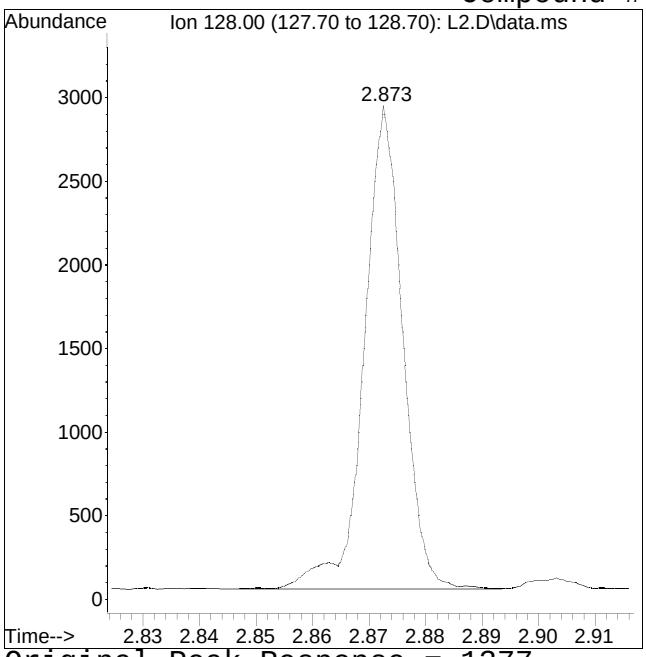
Sub List : Default - All compounds listedical\L8.D•



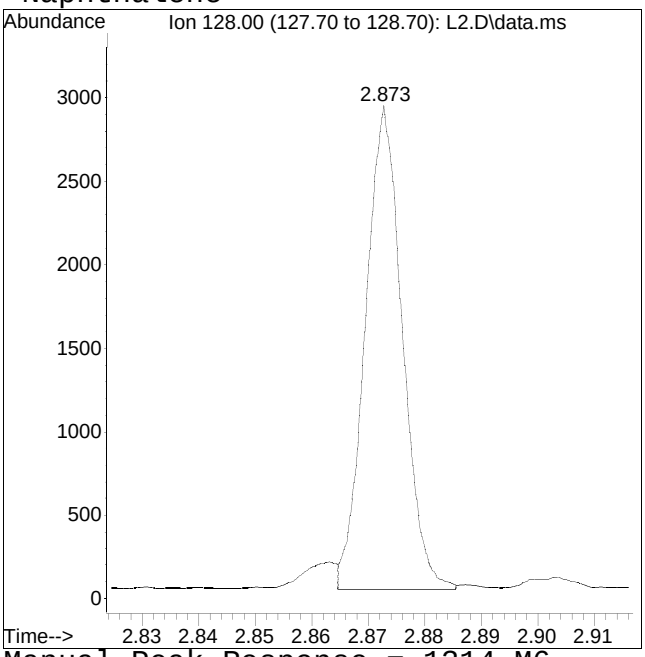
Manual Integration Report

Data Path : I:\8270SIM\SV118\250203RVTQ
Data File : L2.D
Date Inj'd : 2/3/2025 6:03 pm
Sample : IL2,32,, #11287 2 ng/ml
Method : SIM-RVT_250203sv118.M
Operator : SV118:rp
Instrument : SV118
Quant Date : 2/4/2025 10:15 am

Compound #9: Naphthalene



Original Peak Response = 1377



Manual Peak Response = 1314 M6

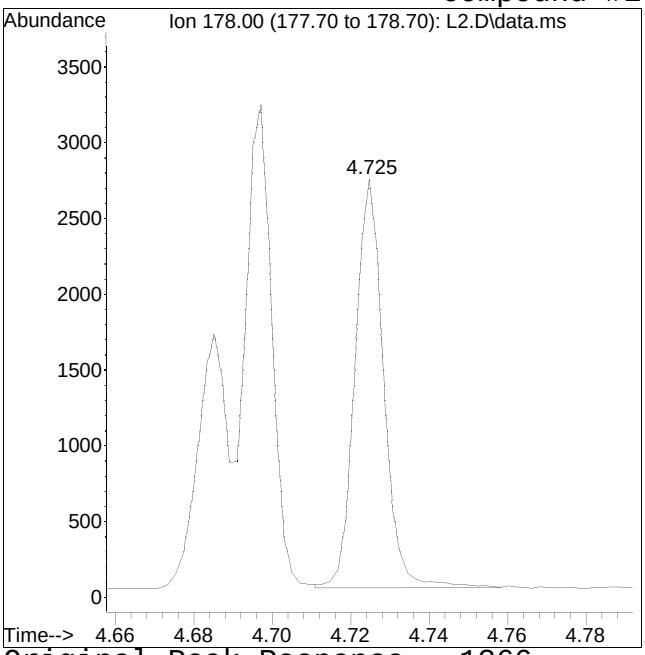
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

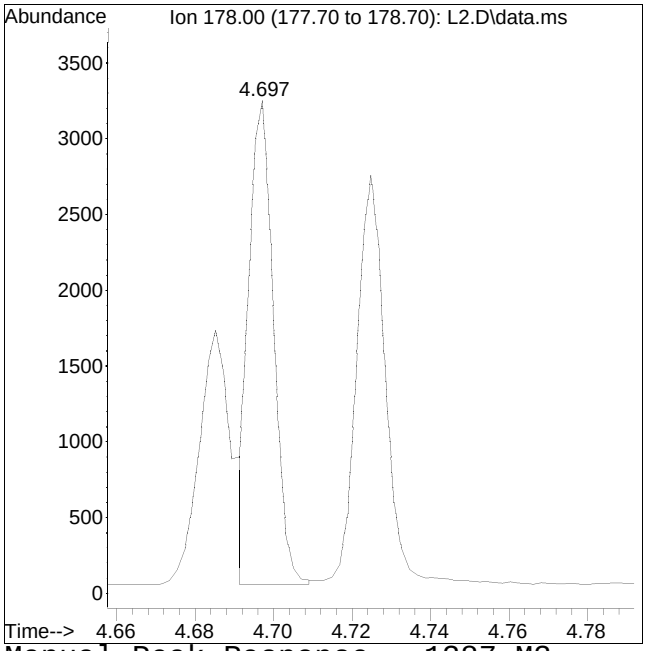
Manual Integration Report

Data Path : I:\8270SIM\SV118\250203RVTQ
Data File : L2.D
Date Inj'd : 2/3/2025 6:03 pm
Sample : IL2,32,, #11287 2 ng/ml

Method : SIM-RVT_250203sv118.M
Operator : SV118:rp
Instrument : SV118
Quant Date : 2/4/2025 10:15 am

Compound #26: Phenanthrene





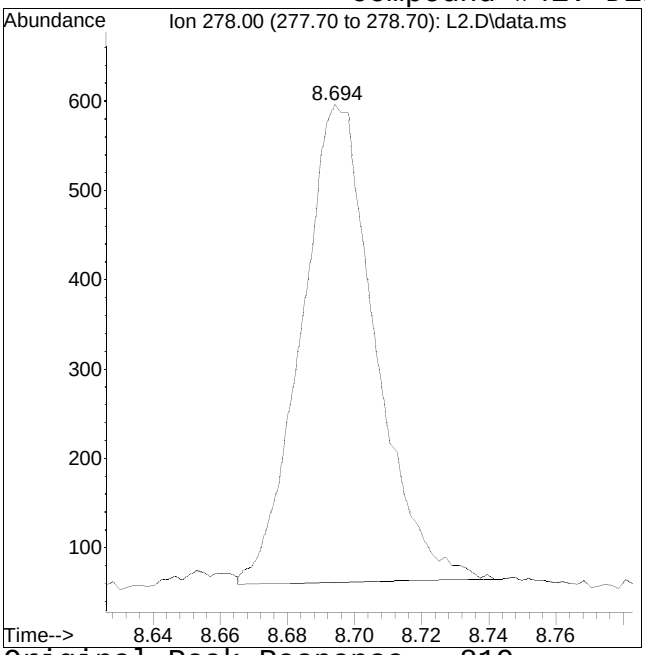
Original Peak Response = 1366 Manual Peak Response = 1387 M3

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

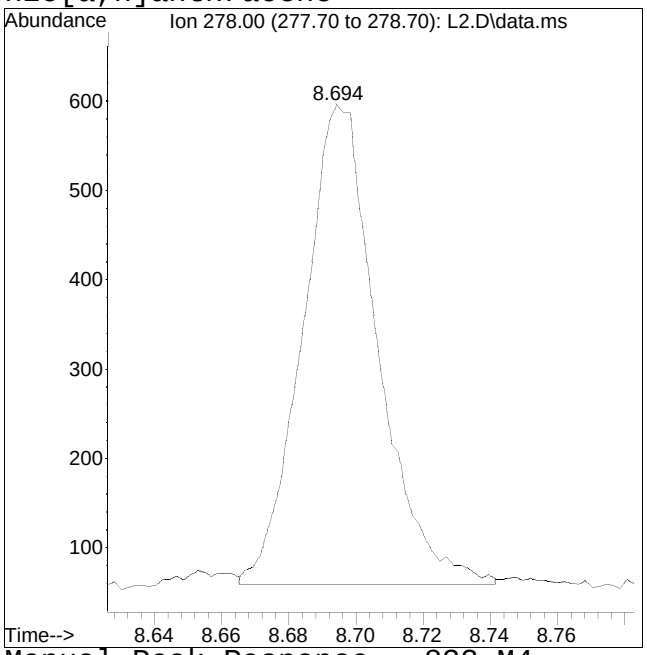
Manual Integration Report

Data Path : I:\8270SIM\SV118\250203RVTQ
Data File : L2.D
Date Inj'd : 2/3/2025 6:03 pm
Sample : IL2,32,, #11287 2 ng/ml
Method : SIM-RVT_250203sv118.M
Operator : SV118:rp
Instrument : SV118
Quant Date : 2/4/2025 10:15 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 819



Manual Peak Response = 832 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
Data File : L1.D
Acq On : 03 Feb 2025 06:20 pm
Operator : SV118:rp
Sample : IL1,32,, #11288 1 ng/ml
Misc : WG2028184,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 04 10:18:22 2025
Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 04 10:15:37 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\250203RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.200	152	469241	4000.000	ng/ml	0.00
Standard Area 1 = 474400			Recovery = 98.91%			
8) Naphthalene-d8	2.863	136	1685425	4000.000	ng/ml	0.00
Standard Area 1 = 1755733			Recovery = 96.00%			
17) Acenaphthene-d10	3.841	164	931339	4000.000	ng/ml	0.00
Standard Area 1 = 985911			Recovery = 94.46%			
22) Phenanthrene-d10	4.686	188	1832132	4000.000	ng/ml	0.00
Standard Area 1 = 1968639			Recovery = 93.07%			
31) Chrysene-d12	6.237	240	1793001	4000.000	ng/ml	0.00
Standard Area 1 = 1866853			Recovery = 96.04%			
36) Perylene-d12	7.446	264	1697473	4000.000	ng/ml	0.00
Standard Area 1 = 1847760			Recovery = 91.87%			
System Monitoring Compounds						
2) 2-Fluorophenol	0.000	112	0d	0.000	ng/ml	
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.00%#			
3) Phenol-d6	0.000	99	0d	0.000	ng/ml	
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.00%#			
7) Nitrobenzene-d5	2.481	82	144	1.026	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.10%#			
13) 2-Fluorobiphenyl	3.462	172	396	1.073	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.11%#			
21) 2,4,6-Tribromophenol	4.286	330	43	0.998	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.05%#			
30) 4-Terphenyl-d14	5.604	244	482	1.132	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.11%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
5) n-nitrosodi-n-propylamine	0.000		0	N.D.	d	
6) Hexachloroethane	0.000		0	N.D.	d	
9) Naphthalene	0.000		0	N.D.	d	
10) Hexachlorobutadiene	0.000		0	N.D.	d	
11) 2-Methylnaphthalene	0.000		0	N.D.	d	
12) 1-Methylnaphthalene	0.000		0	N.D.	d	
14) 2-Chloronaphthalene	0.000		0	N.D.	d	
15) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
16) Acenaphthylene	3.757	152	477	0.968	ng/ml	100
18) Acenaphthene	3.859	153	375	1.131	ng/ml	91

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
Data File : L1.D
Acq On : 03 Feb 2025 06:20 pm
Operator : SV118:rp
Sample : IL1,32,, #11288 1 ng/ml
Misc : WG2028184,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 04 10:18:22 2025
Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 04 10:15:37 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\250203RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
20) Fluorene	4.149	166	379	1.040	ng/ml	97
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.	d	
24) Hexachlorobenzene	0.000		0	N.D.	d	
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	4.698	178	596M6	1.073	ng/ml	
27) Anthracene	4.725	178	583	1.059	ng/ml	98
28) Fluoranthene	5.380	202	692	1.095	ng/ml	100
29) Pyrene	5.506	202	710	1.086	ng/ml	99
32) Benzo[a]anthracene	6.236	226	549	2.898	ng/ml#	1
33) 3,3'-Dichlorobenzidine	0.000		0	N.D.	d	
34) Chrysene	6.250	228	623	1.007	ng/ml#	98
35) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	7.068	252	568	1.016	ng/ml	96
38) Benzo[k]fluoranthene	7.093	252	498	0.938	ng/ml	96
39) Benzo[a]pyrene	7.376	252	440	0.946	ng/ml	97
40) Indeno[1,2,3-cd]pyrene	8.660	276	401	0.972	ng/ml	99
41) Dibenzo[a,h]anthracene	8.697	278	376	0.944	ng/ml	98
42) Benzo[g,h,i]perylene	8.996	276	439	1.007	ng/ml	100

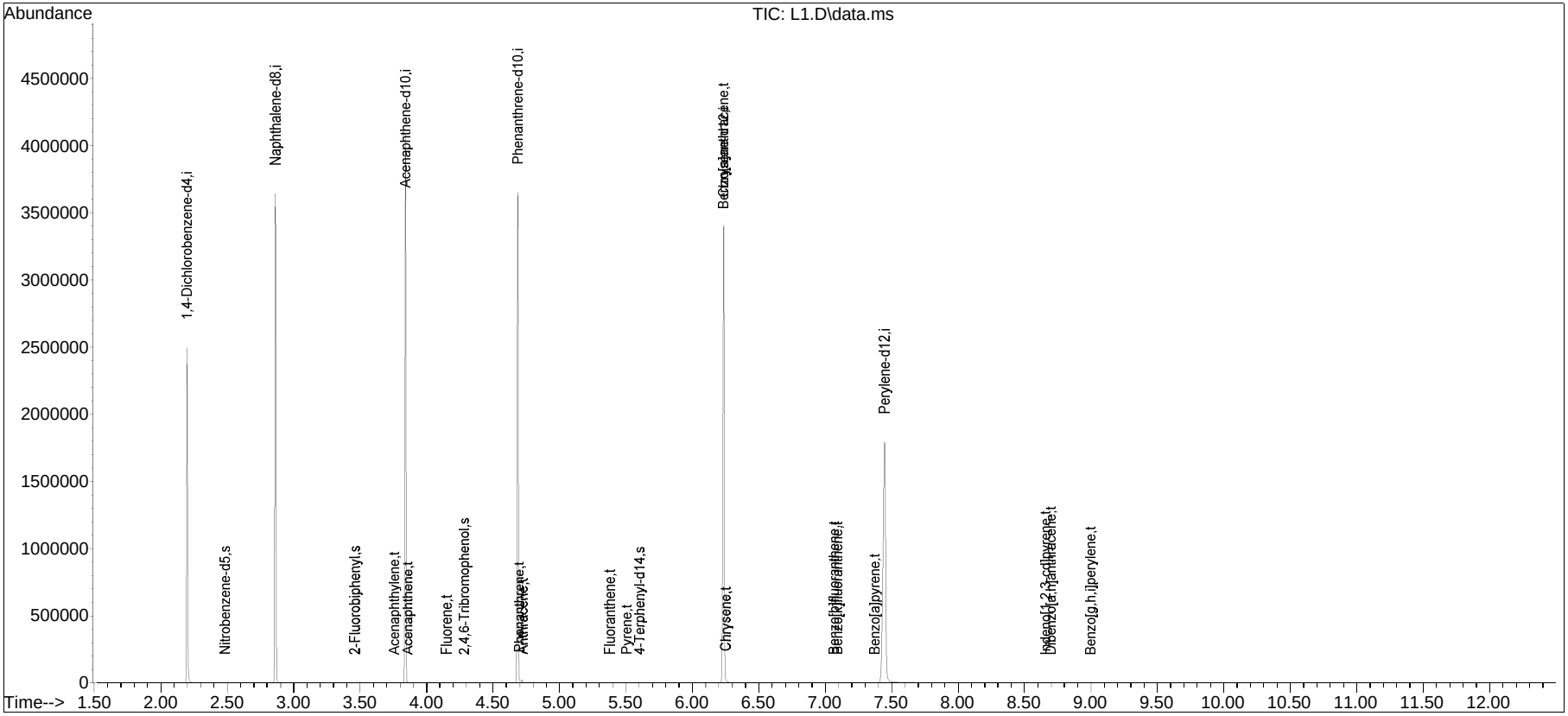
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
Data File : L1.D
Acq On : 03 Feb 2025 06:20 pm
Operator : SV118:rp
Sample : IL1,32,, #11288 1 ng/ml
Misc : WG2028184,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 04 10:18:22 2025
Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Feb 04 10:15:37 2025
Response via : Initial Calibration

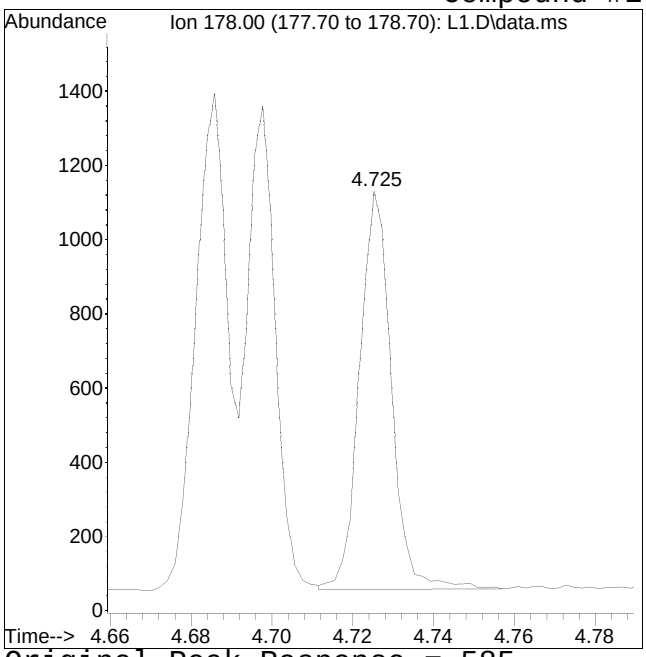
Sub List : Default - All compounds listedical\L8.D•



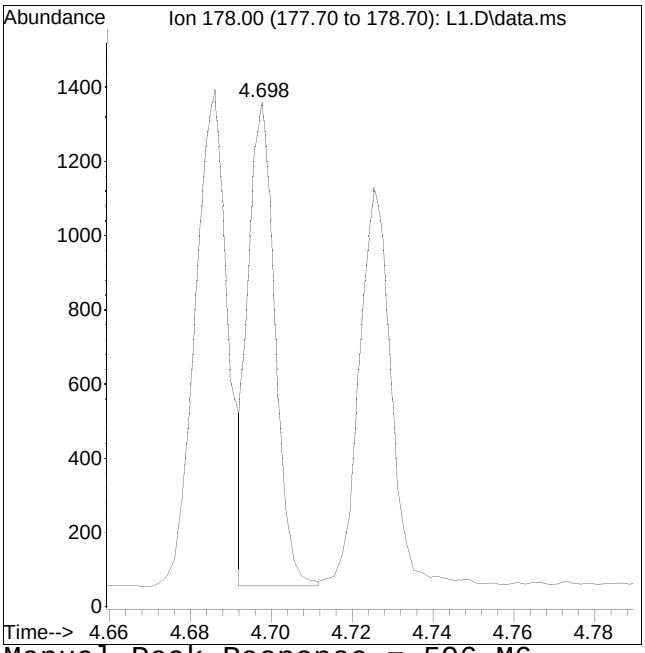
Manual Integration Report

Data Path : I:\8270SIM\SV118\250203RVTQ
Data File : L1.D
Date Inj'd : 2/3/2025 6:20 pm
Sample : IL1,32,, #11288 1 ng/ml
Method : SIM-RVT_250203sv118.M
Operator : SV118:rp
Instrument : SV118
Quant Date : 2/4/2025 10:15 am

Compound #26: Phenanthrene



Original Peak Response = 585



Manual Peak Response = 596 M6

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

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\SV118\250203RVTical\
Data File : ICV.D
Acq On : 03 Feb 2025 06:37 pm
Operator : SV118:rp
Sample : CQICV,32,, #11275 1000 ng/ml
Misc : WG2028184,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 07 14:31:33 2025
Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Feb 07 14:32:41 2025
Response via : Initial Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	95	0.00
2	s	2-Fluorophenol	1.223	1.171	4.3	90	0.00
3	s	Phenol-d6	1.466	1.386	5.5	89	0.00
4	T	Bis(2-chloroethyl)ether	1.301	1.233	5.2	92	0.00
5	T	n-nitrosodi-n-propylamine	0.835	0.832	0.4	89	0.00
6	t	Hexachloroethane	0.544	0.530	2.6	92	0.00
7	s	Nitrobenzene-d5	1.197	1.210	-1.1	91	0.00
8	i	Naphthalene-d8	1.000	1.000	0.0	95	0.00
9	t	Naphthalene	1.137	1.056	7.1	91	0.00
10	t	Hexachlorobutadiene	0.204	0.192	5.9	90	0.00
11	t	2-Methylnaphthalene	0.707	0.678	4.1	92	0.00
12	t	1-Methylnaphthalene	0.719	0.695	3.3	93	0.00
13	s	2-Fluorobiphenyl	0.876	0.842	3.9	95	0.00
14	t	2-Chloronaphthalene	0.765	0.737	3.7	92	0.00
15	t	2,6-Dinitrotoluene	0.170	0.171	-0.6	88	0.00
16	t	Acenaphthylene	1.170	1.224	-4.6	94	0.00
17	i	Acenaphthene-d10	1.000	1.000	0.0	96	0.00
18	t	Acenaphthene	1.424	1.335	6.2	92	0.00
19	t	2,4-Dinitrotoluene	0.411	0.411	0.0	87	0.00
20	t	Fluorene	1.566	1.532	2.2	93	0.00
21	s	2,4,6-Tribromophenol	0.185	0.197	-6.5	89	0.00
22	i	Phenanthrene-d10	1.000	1.000	0.0	95	0.00
23	T	4,6-Dinitro-o-cresol	*1000.000	843.477	15.7	86	0.00
24	t	Hexachlorobenzene	0.265	0.252	4.9	92	0.00
25	t	Pentachlorophenol	*1000.000	964.113	3.6	88	0.00
26	t	Phenanthrene	1.211	1.145	5.5	92	0.00
27	t	Anthracene	1.202	1.188	1.2	93	0.00
28	t	Fluoranthene	1.379	1.343	2.6	92	0.00
29	t	Pyrene	1.427	1.410	1.2	92	0.00
30	s	4-Terphenyl-d14	0.929	0.918	1.2	96	0.00
31	i	Chrysene-d12	1.000	1.000	0.0	95	0.00
32	t	Benzo[a]anthracene	0.423	0.387	8.5	90	0.00
33	t	3,3'-Dichlorobenzidine	0.534	0.541	-1.3	89	0.00
34	t	Chrysene	1.380	1.318	4.5	91	0.00
35	T	Bis(2-ethylhexyl)phthalate	*1000.000	873.437	12.7	89	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\SV118\250203RVTical\
Data File : ICV.D
Acq On : 03 Feb 2025 06:37 pm
Operator : SV118:rp
Sample : CQICV,32,, #11275 1000 ng/ml
Misc : WG2028184,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 07 14:31:33 2025
Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Feb 07 14:32:41 2025
Response via : Initial Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	i	Perylene-d12	1.000	1.000	0.0	95	0.00
37	t	Benzo[b]fluoranthene	1.316	1.279	2.8	90	0.00
38	t	Benzo[k]fluoranthene	1.252	1.326	-5.9	94	0.00
39	t	Benzo[a]pyrene	1.095	1.179	-7.7	93	0.00
40	t	Indeno[1,2,3-cd]pyrene	0.971	1.003	-3.3	90	0.00
41	t	Dibenzo[a,h]anthracene	0.937	0.994	-6.1	89	0.01
42	t	Benzo[g,h,i]perylene	1.026	1.027	-0.1	88	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
Data File : ICV.D
Acq On : 03 Feb 2025 06:37 pm
Operator : SV118:rp
Sample : CQICV,32,, #11275 1000 ng/ml
Misc : WG2028184,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 10 09:30:47 2025
Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Feb 10 09:31:55 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\250203RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.200	152	449560	4000.000	ng/ml	0.00
Standard Area 1 = 474400			Recovery = 94.76%			
8) Naphthalene-d8	2.863	136	1669889	4000.000	ng/ml	0.00
Standard Area 1 = 1755733			Recovery = 95.11%			
17) Acenaphthene-d10	3.843	164	948422	4000.000	ng/ml	0.00
Standard Area 1 = 985911			Recovery = 96.20%			
22) Phenanthrene-d10	4.688	188	1875760	4000.000	ng/ml	0.00
Standard Area 1 = 1968639			Recovery = 95.28%			
31) Chrysene-d12	6.240	240	1781042	4000.000	ng/ml	0.00
Standard Area 1 = 1866853			Recovery = 95.40%			
36) Perylene-d12	7.446	264	1753630	4000.000	ng/ml	0.00
Standard Area 1 = 1847760			Recovery = 94.91%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.620	112	131626	957.494	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 47.87%			
3) Phenol-d6	2.012	99	155721	945.392	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 47.27%			
7) Nitrobenzene-d5	2.480	82	135999	1011.118	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 101.11%			
13) 2-Fluorobiphenyl	3.462	172	351710	961.847	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 96.18%			
21) 2,4,6-Tribromophenol	4.288	330	46793	1066.565	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 53.33%			
30) 4-Terphenyl-d14	5.606	244	430348	987.608	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 98.76%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.067	93	138533	947.214	ng/ml	100
5) n-nitrosodi-n-propylamine	2.403	70	93548	997.391	ng/ml	99
6) Hexachloroethane	2.457	117	59528	973.050	ng/ml	100
9) Naphthalene	2.873	128	440957	929.305	ng/ml	100
10) Hexachlorobutadiene	2.947	225	80293	944.995	ng/ml	100
11) 2-Methylnaphthalene	3.255	142	283062	958.712	ng/ml	100
12) 1-Methylnaphthalene	3.310	142	290156	966.941	ng/ml	100
14) 2-Chloronaphthalene	3.527	162	307878	963.775	ng/ml	100
15) 2,6-Dinitrotoluene	3.724	165	71414	1003.362	ng/ml	99
16) Acenaphthylene	3.761	152	510855	1045.833	ng/ml	100
18) Acenaphthene	3.861	153	316552	937.574	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
Data File : ICV.D
Acq On : 03 Feb 2025 06:37 pm
Operator : SV118:rp
Sample : CQICV,32,, #11275 1000 ng/ml
Misc : WG2028184,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 10 09:30:47 2025
Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Feb 10 09:31:55 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV118\250203RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.951	165	97432	999.493	ng/ml	97
20) Fluorene	4.152	166	363147	978.275	ng/ml	100
23) 4,6-Dinitro-o-cresol	4.183	198	49821	843.477	ng/ml	99
24) Hexachlorobenzene	4.471	284	118374	952.846	ng/ml	100
25) Pentachlorophenol	4.583	266	61333	964.113	ng/ml	100
26) Phenanthrene	4.700	178	536900	945.389	ng/ml	100
27) Anthracene	4.727	178	557215	988.524	ng/ml	100
28) Fluoranthene	5.380	202	629910	973.881	ng/ml	99
29) Pyrene	5.510	202	661209	987.810	ng/ml	99
32) Benzo[a]anthracene	6.231	226	172280	915.459	ng/ml#	99
33) 3,3'-Dichlorobenzidine	6.219	252	241044	1013.157	ng/ml	100
34) Chrysene	6.254	228	586733	954.855	ng/ml#	100
35) Bis(2-ethylhexyl)phtha...	6.267	149	367276	873.437	ng/ml	100
37) Benzo[b]fluoranthene	7.073	252	560896	972.063	ng/ml	98
38) Benzo[k]fluoranthene	7.095	252	581465	1059.096	ng/ml	98
39) Benzo[a]pyrene	7.380	252	516672	1076.077	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.660	276	439757	1033.228	ng/ml	100
41) Dibenzo[a,h]anthracene	8.703	278	435769M6	1060.539	ng/ml	
42) Benzo[g,h,i]perylene	9.003	276	450098	1000.819	ng/ml	100

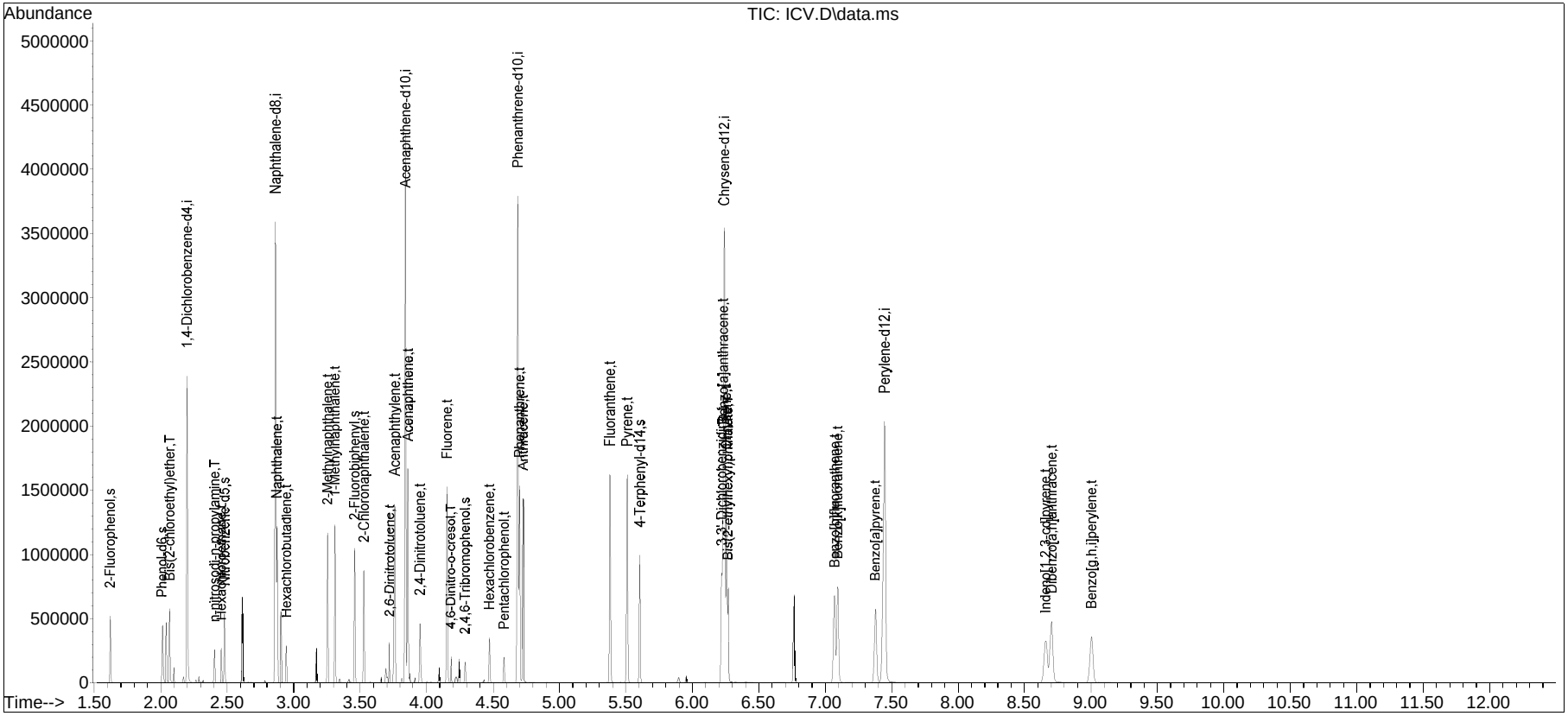
(#) = qualifier out of range (m) = manual integration (+) = signals summed

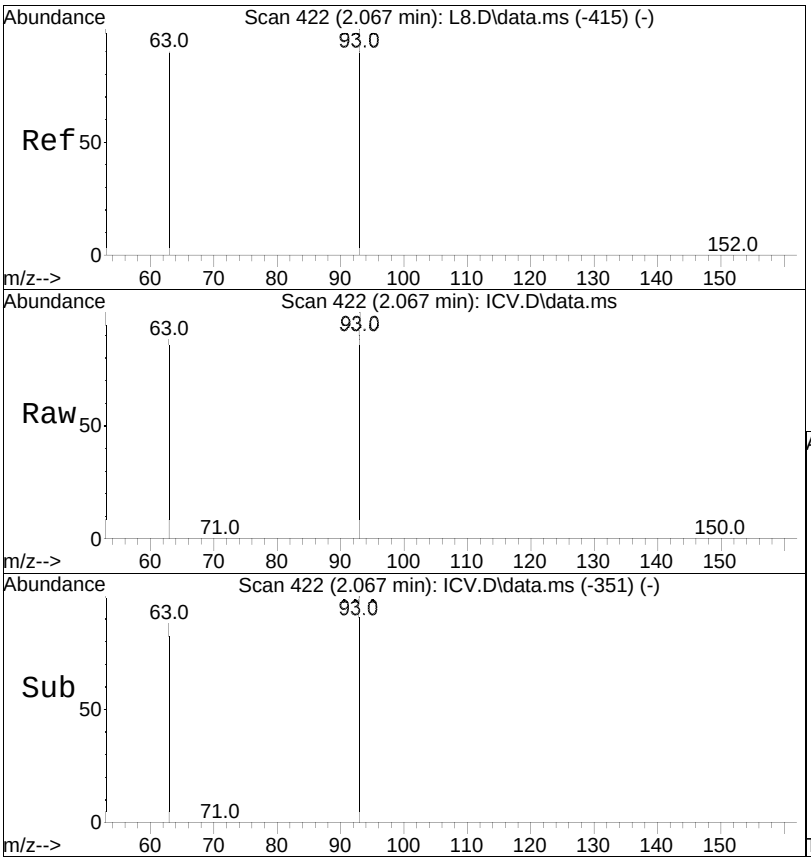
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250203RVTical\
Data File : ICV.D
Acq On : 03 Feb 2025 06:37 pm
Operator : SV118:rp
Sample : CQICV,32,, #11275 1000 ng/ml
Misc : WG2028184,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 10 09:30:47 2025
Quant Method : I:\8270SIM\SV118\250203RVTical\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Feb 10 09:31:55 2025
Response via : Initial Calibration

Sub List : Default - All compounds listedical\L8.D•

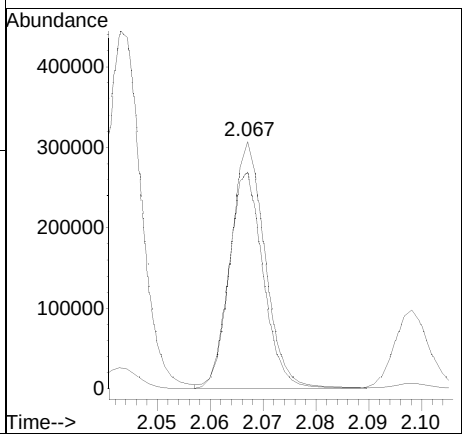


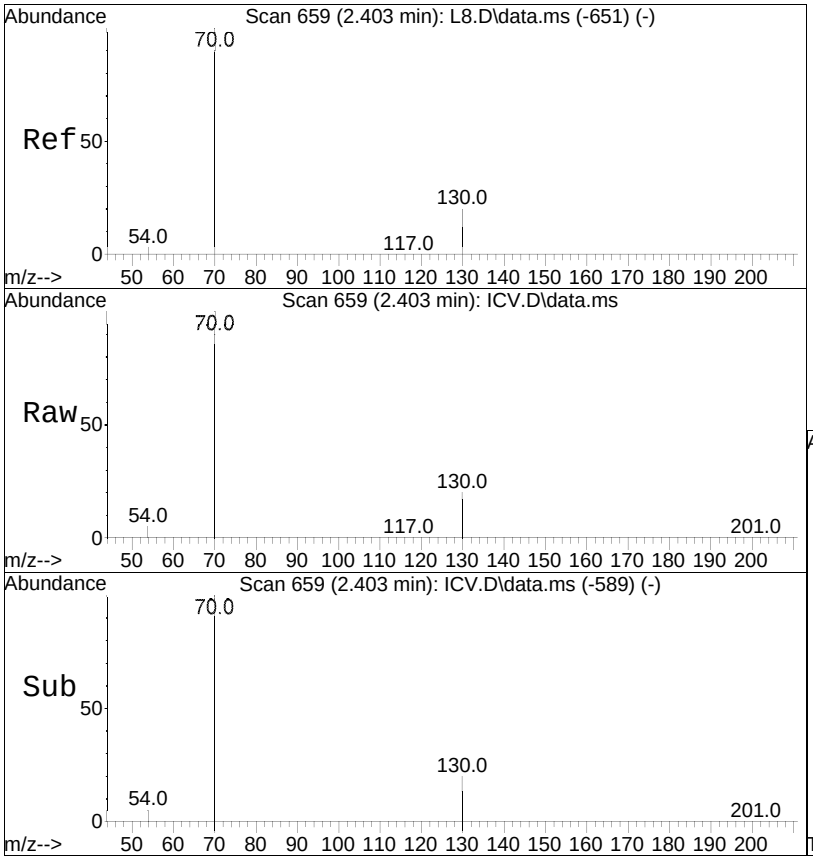


#4
Bis(2-chloroethyl)ether
Concen: 947.21 ng/ml
RT: 2.067 min Scan# 422
Delta R.T. 0.000 min
Lab File: ICV.D
Acq: 03 Feb 2025 06:37 pm

Tgt Ion: 93 Resp: 138533

Ion	Ratio	Lower	Upper
93	100		
63	87.7	70.2	105.4

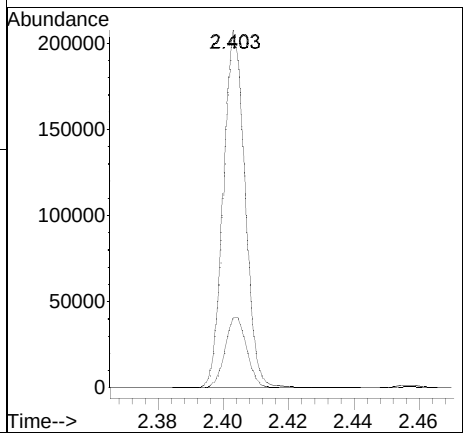


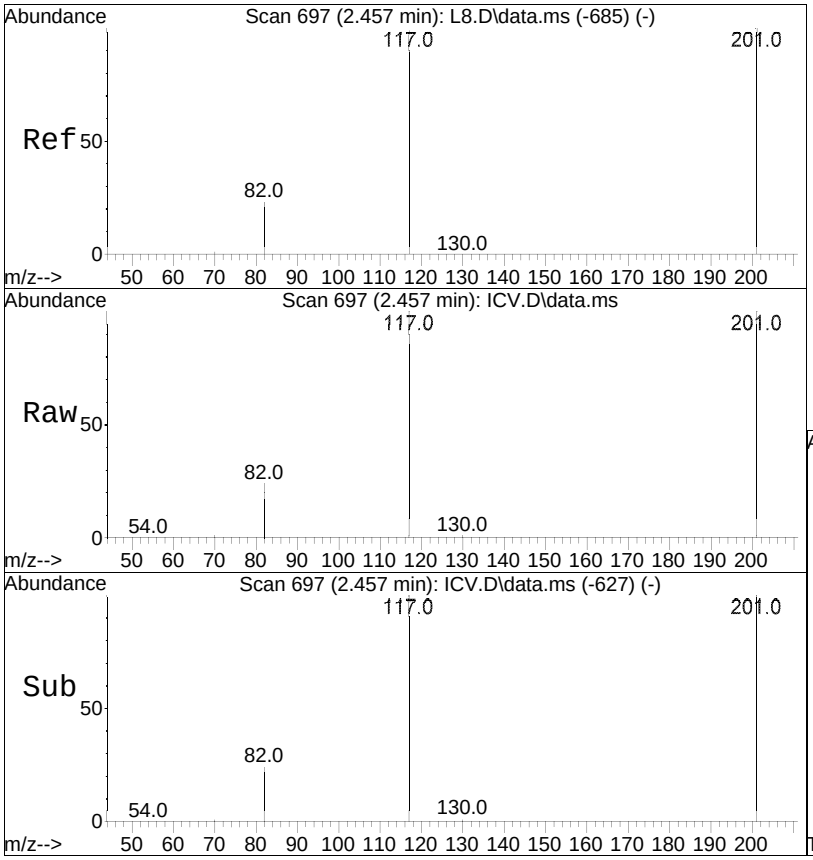


#5
n-nitrosodi-n-propylamine
Concen: 997.39 ng/ml
RT: 2.403 min Scan# 659
Delta R.T. 0.000 min
Lab File: ICV.D
Acq: 03 Feb 2025 06:37 pm

Tgt Ion: 70 Resp: 93548

Ion	Ratio	Lower	Upper
70	100		
130	19.9	16.2	24.4

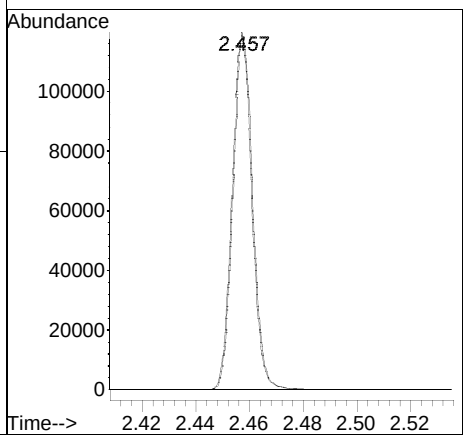


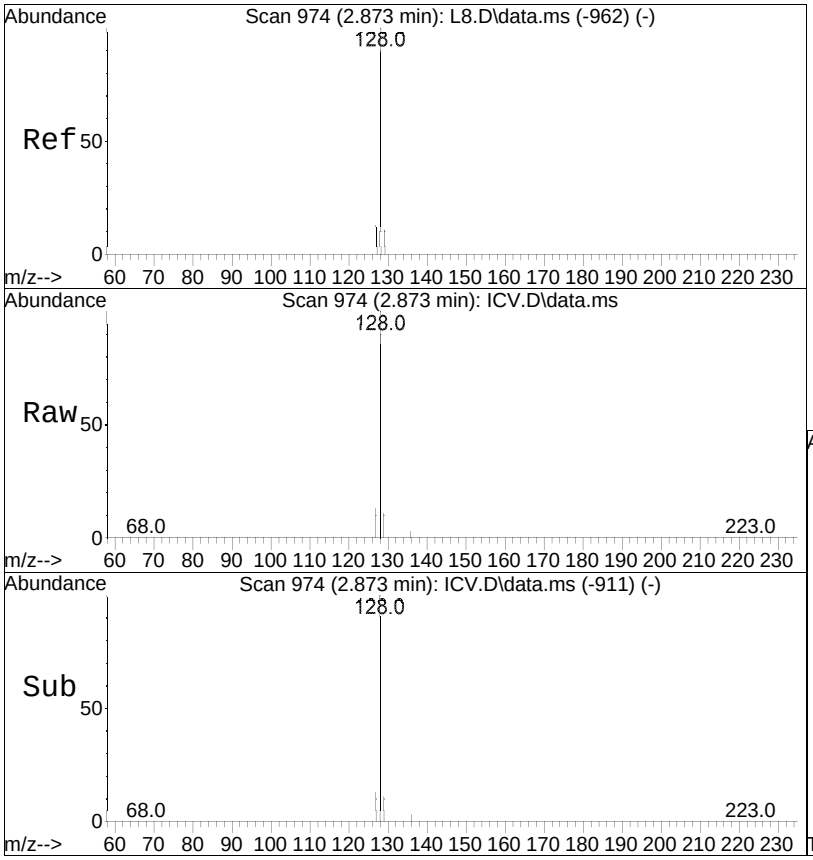


#6
Hexachloroethane
Concen: 973.05 ng/ml
RT: 2.457 min Scan# 697
Delta R.T. 0.000 min
Lab File: ICV.D
Acq: 03 Feb 2025 06:37 pm

Tgt Ion:117 Resp: 59528

Ion	Ratio	Lower	Upper
117	100		
201	100.3	80.5	120.7

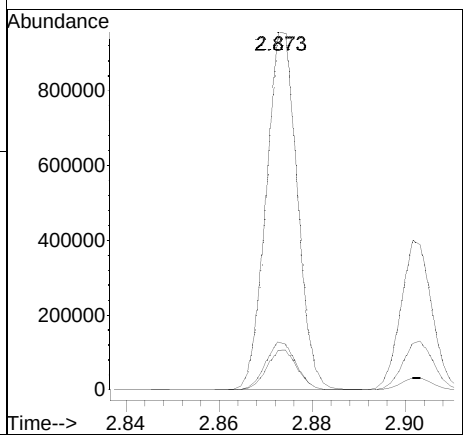


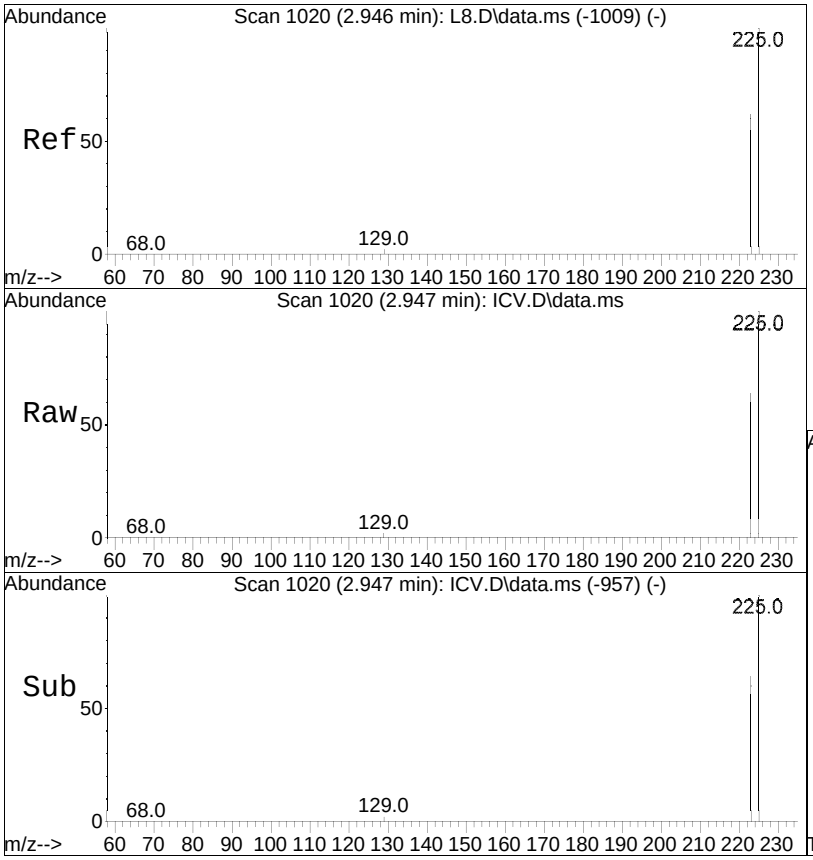


#9
Naphthalene
Concen: 929.30 ng/ml
RT: 2.873 min Scan# 974
Delta R.T. -0.000 min
Lab File: ICV.D
Acq: 03 Feb 2025 06:37 pm

Tgt Ion:128 Resp: 440957

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.9	13.3
127	13.2	10.6	15.8

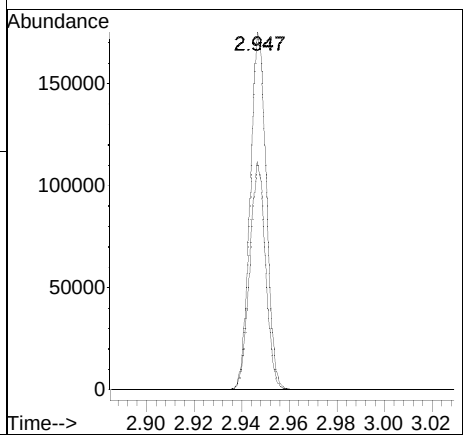


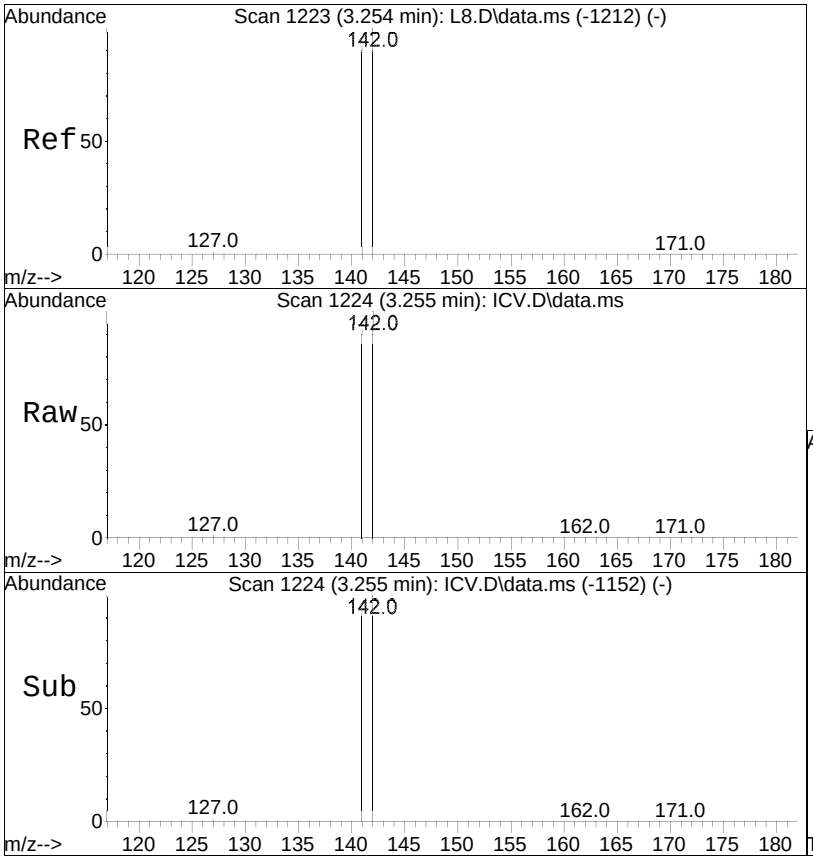


#10
Hexachlorobutadiene
Concen: 945.00 ng/ml
RT: 2.947 min Scan# 1020
Delta R.T. 0.001 min
Lab File: ICV.D
Acq: 03 Feb 2025 06:37 pm

Tgt Ion:225 Resp: 80293

Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.2	75.2

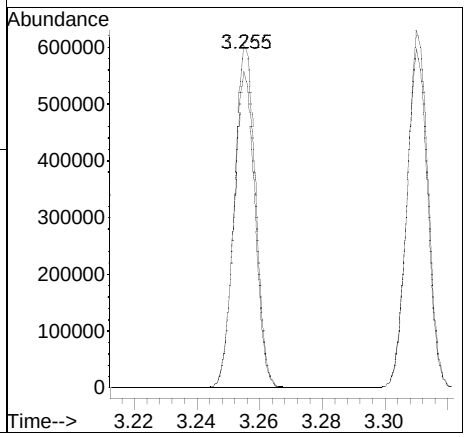


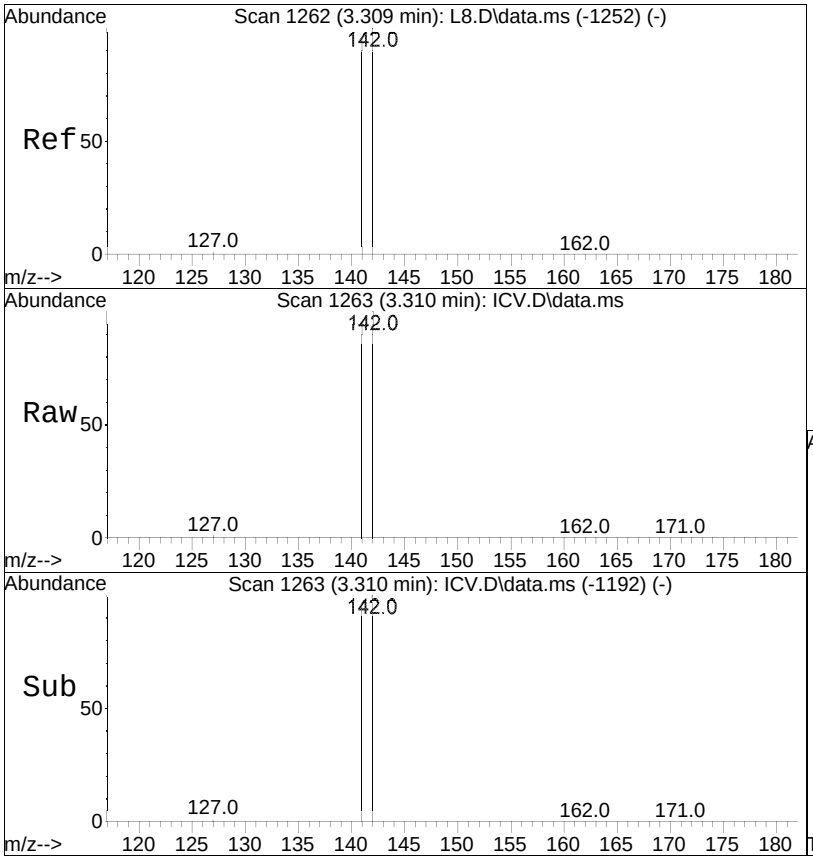


#11
2-Methylnaphthalene
Concen: 958.71 ng/ml
RT: 3.255 min Scan# 1224
Delta R.T. 0.001 min
Lab File: ICV.D
Acq: 03 Feb 2025 06:37 pm

Tgt Ion:142 Resp: 283062

Ion	Ratio	Lower	Upper
142	100		
141	91.9	73.4	110.2

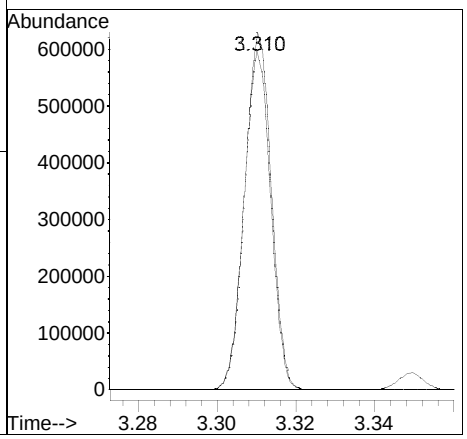


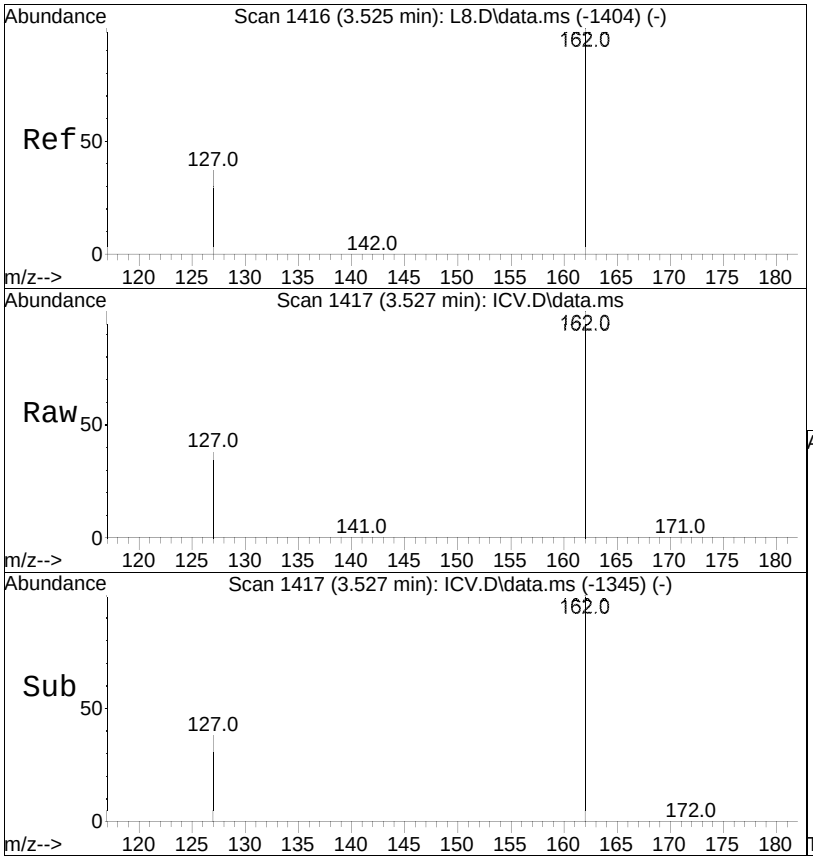


#12
1-Methylnaphthalene
Concen: 966.94 ng/ml
RT: 3.310 min Scan# 1263
Delta R.T. 0.001 min
Lab File: ICV.D
Acq: 03 Feb 2025 06:37 pm

Tgt Ion:142 Resp: 290156

Ion	Ratio	Lower	Upper
142	100		
141	94.8	76.0	114.0

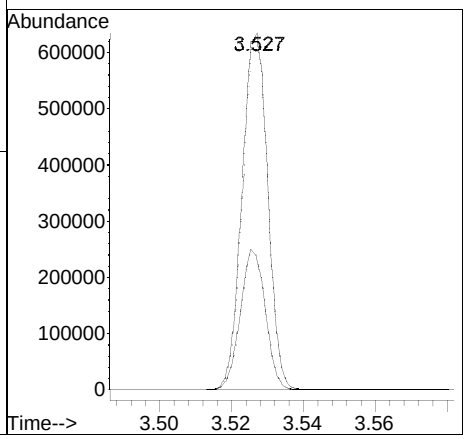


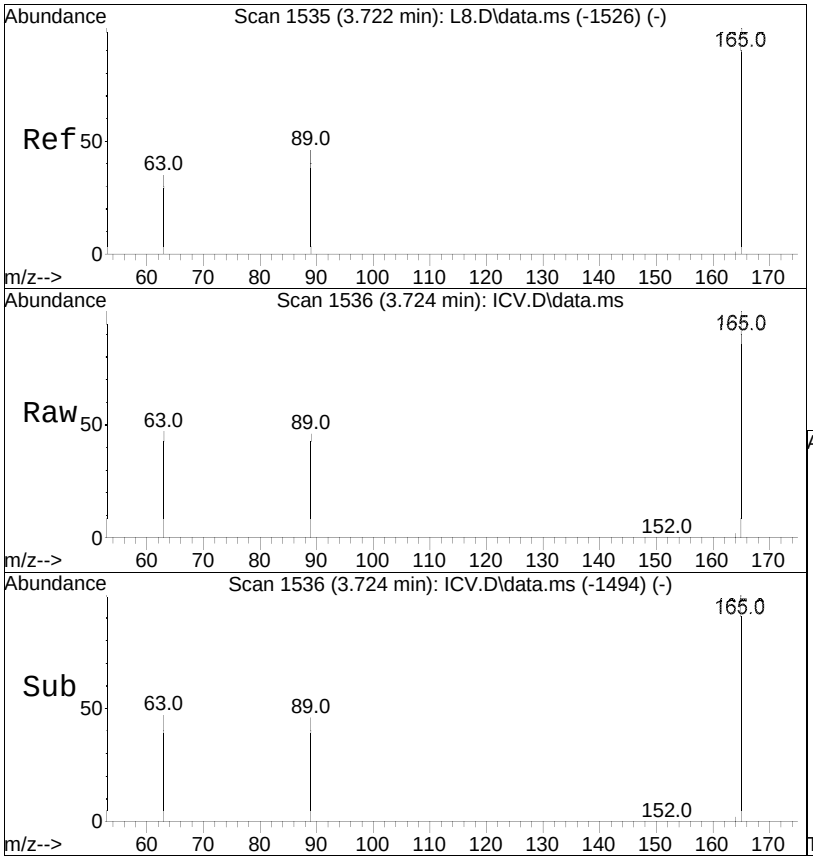


#14
2-Chloronaphthalene
Concen: 963.78 ng/ml
RT: 3.527 min Scan# 1417
Delta R.T. 0.002 min
Lab File: ICV.D
Acq: 03 Feb 2025 06:37 pm

Tgt Ion:162 Resp: 307878

Ion	Ratio	Lower	Upper
162	100		
127	38.8	31.0	46.6

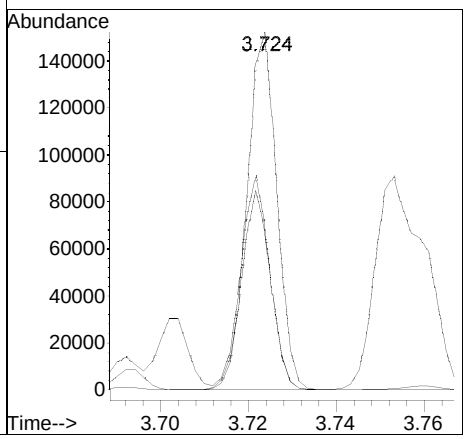


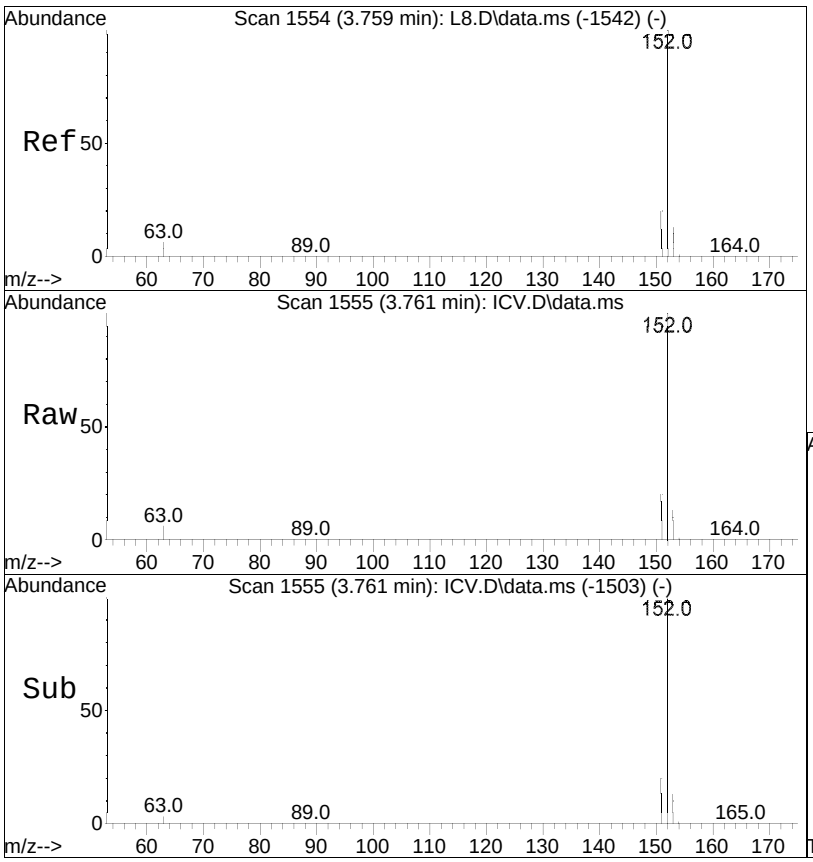


#15
2,6-Dinitrotoluene
Concen: 1003.36 ng/ml
RT: 3.724 min Scan# 1536
Delta R.T. 0.002 min
Lab File: ICV.D
Acq: 03 Feb 2025 06:37 pm

Tgt Ion:165 Resp: 71414

Ion	Ratio	Lower	Upper
165	100		
89	54.7	43.2	64.8
63	58.5	46.4	69.6

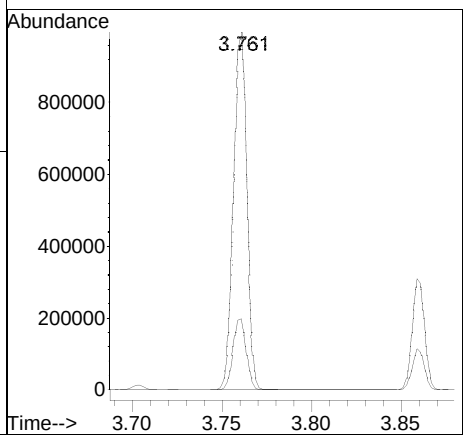


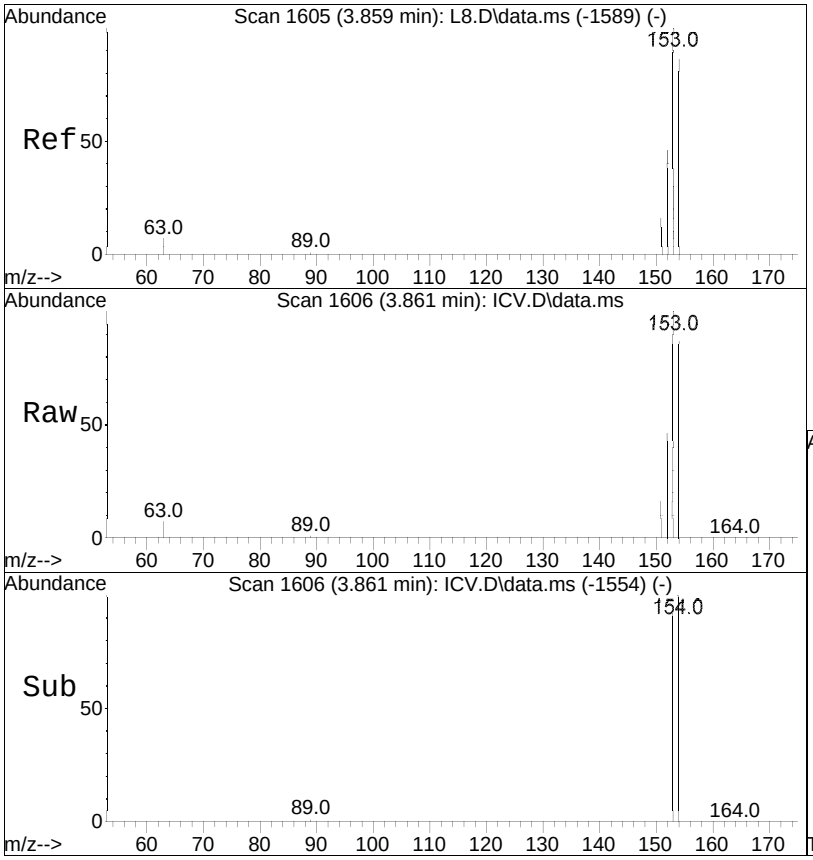


#16
Acenaphthylene
Concen: 1045.83 ng/ml
RT: 3.761 min Scan# 1555
Delta R.T. 0.002 min
Lab File: ICV.D
Acq: 03 Feb 2025 06:37 pm

Tgt Ion:152 Resp: 510855

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.0	24.0

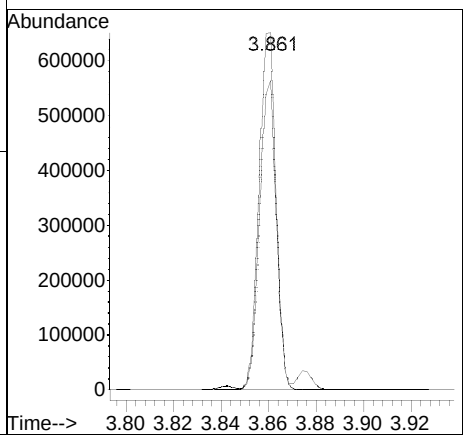


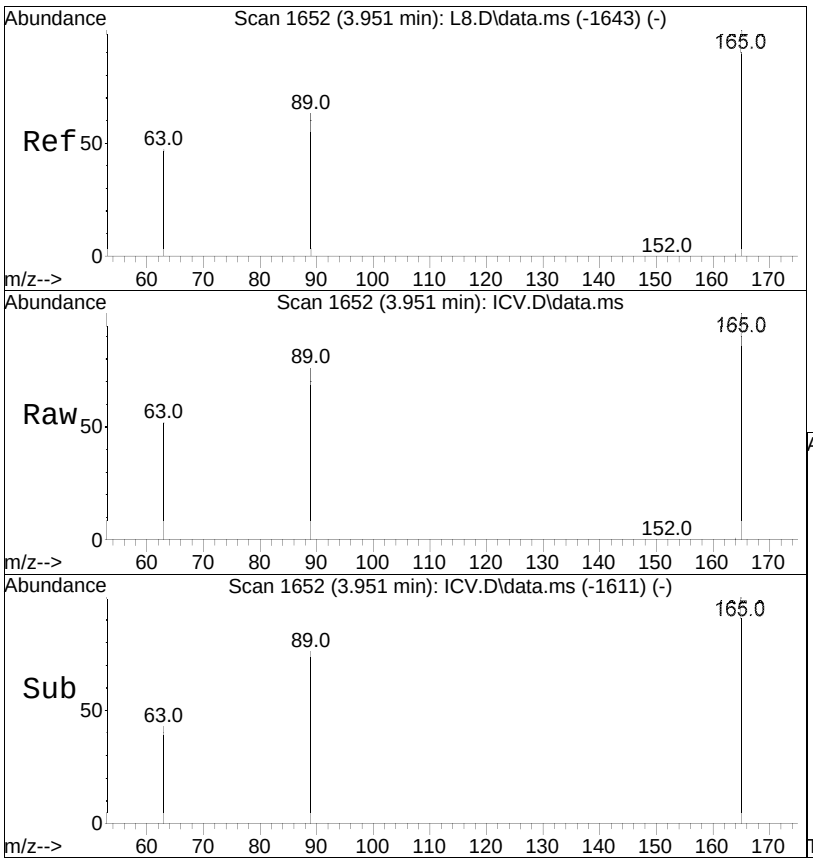


#18
Acenaphthene
Concen: 937.57 ng/ml
RT: 3.861 min Scan# 1606
Delta R.T. 0.002 min
Lab File: ICV.D
Acq: 03 Feb 2025 06:37 pm

Tgt Ion:153 Resp: 316552

Ion	Ratio	Lower	Upper
153	100		
154	84.9	67.9	101.9

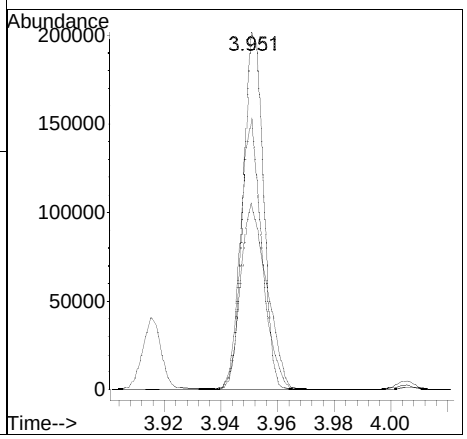


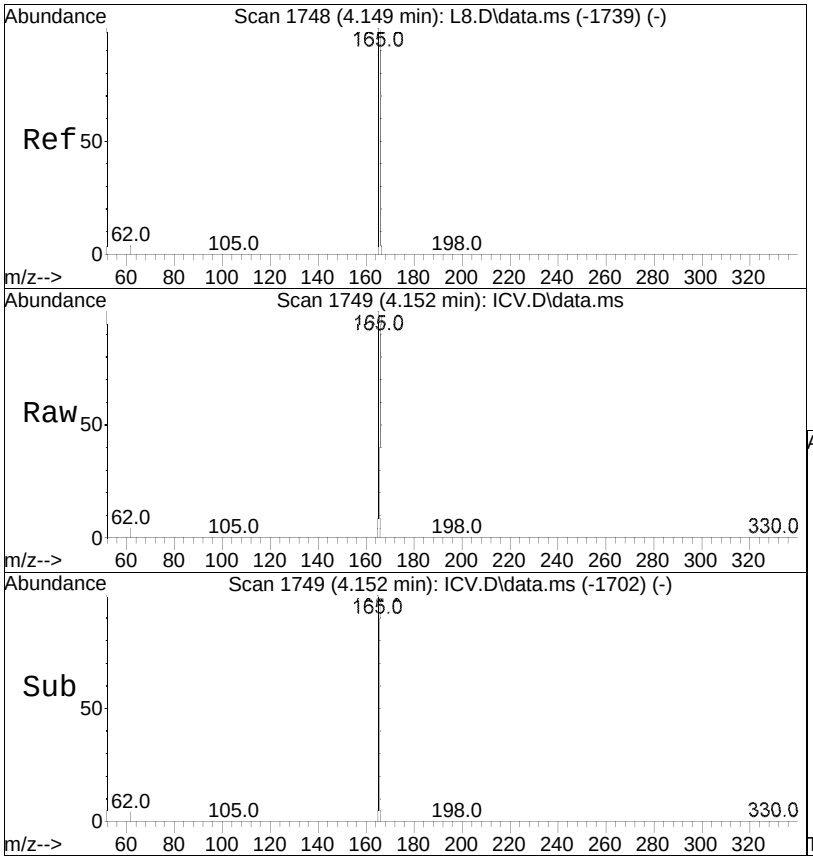


#19
2,4-Dinitrotoluene
Concen: 999.49 ng/ml
RT: 3.951 min Scan# 1652
Delta R.T. -0.000 min
Lab File: ICV.D
Acq: 03 Feb 2025 06:37 pm

Tgt Ion:165 Resp: 97432

Ion	Ratio	Lower	Upper
165	100		
89	82.1	63.9	95.9
63	69.0	53.0	79.6

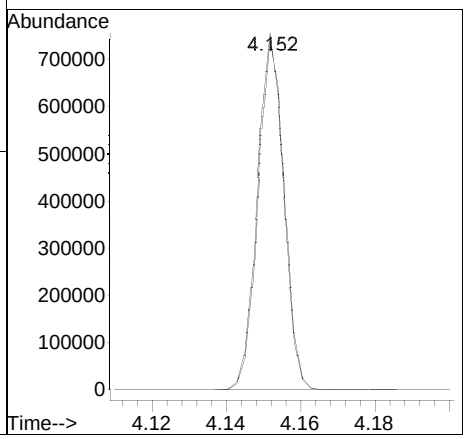


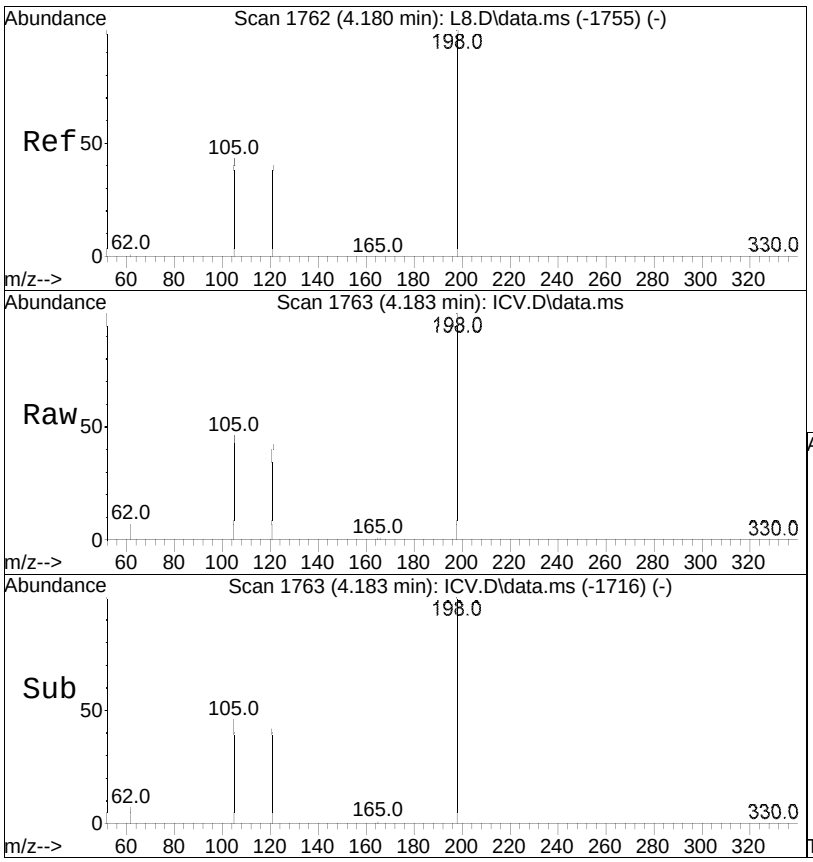


#20
Fluorene
Concen: 978.28 ng/ml
RT: 4.152 min Scan# 1749
Delta R.T. 0.003 min
Lab File: ICV.D
Acq: 03 Feb 2025 06:37 pm

Tgt Ion:166 Resp: 363147

Ion	Ratio	Lower	Upper
166	100		
165	101.6	81.3	121.9

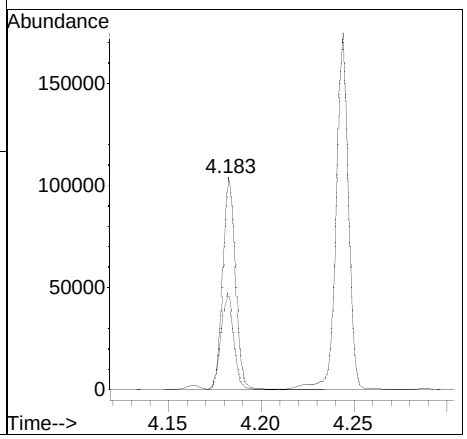


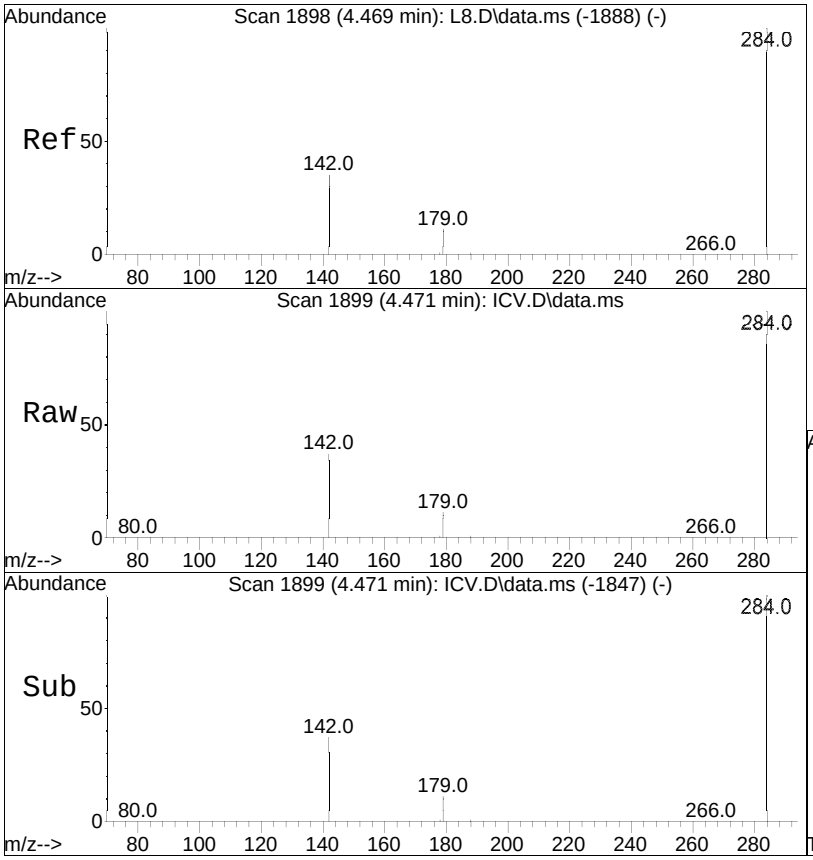


#23
4,6-Dinitro-o-cresol
Concen: 843.48 ng/ml
RT: 4.183 min Scan# 1763
Delta R.T. 0.003 min
Lab File: ICV.D
Acq: 03 Feb 2025 06:37 pm

Tgt Ion:198 Resp: 49821

Ion	Ratio	Lower	Upper
198	100		
105	45.0	35.5	53.3

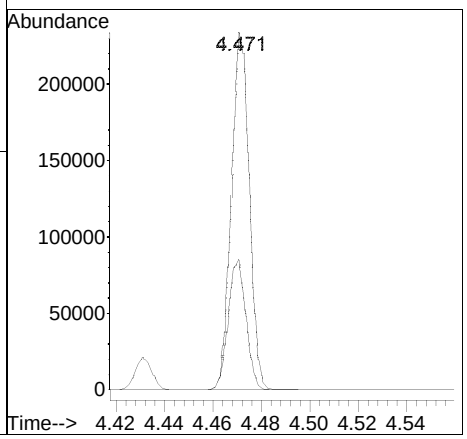


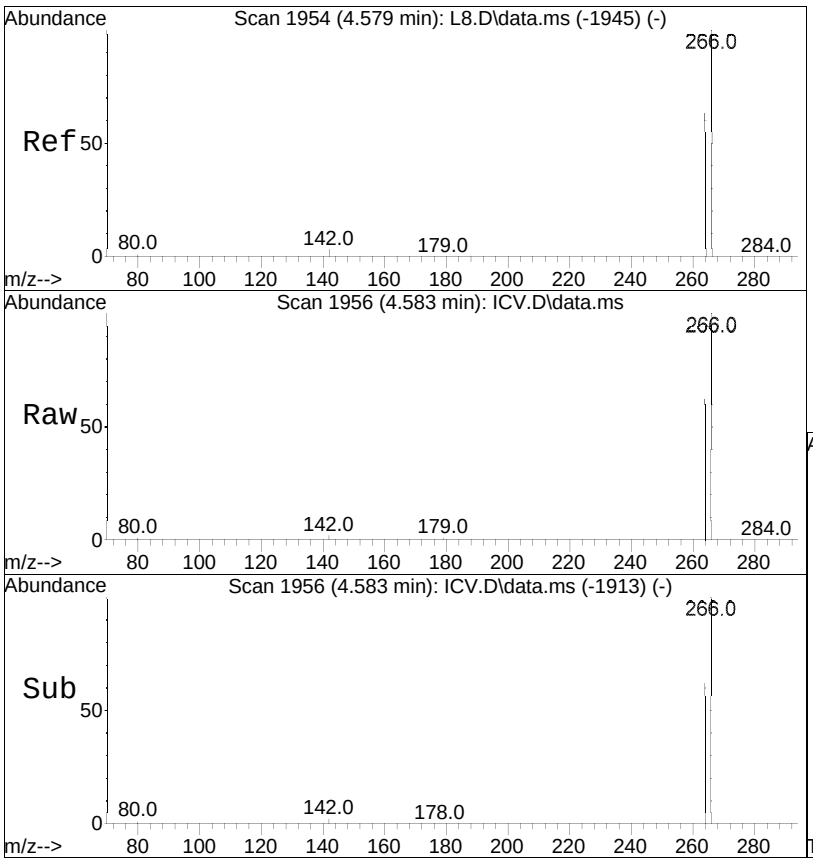


#24
Hexachlorobenzene
Concen: 952.85 ng/ml
RT: 4.471 min Scan# 1899
Delta R.T. 0.002 min
Lab File: ICV.D
Acq: 03 Feb 2025 06:37 pm

Tgt Ion:284 Resp: 118374

Ion	Ratio	Lower	Upper
284	100		
142	36.3	29.0	43.4

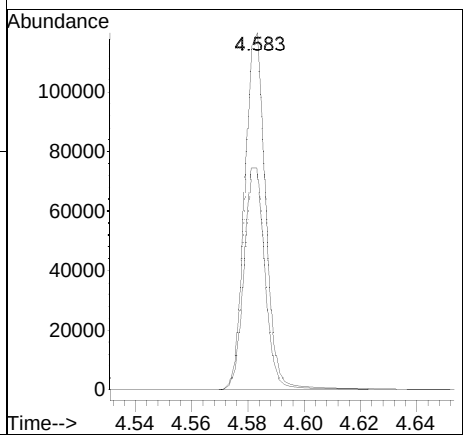


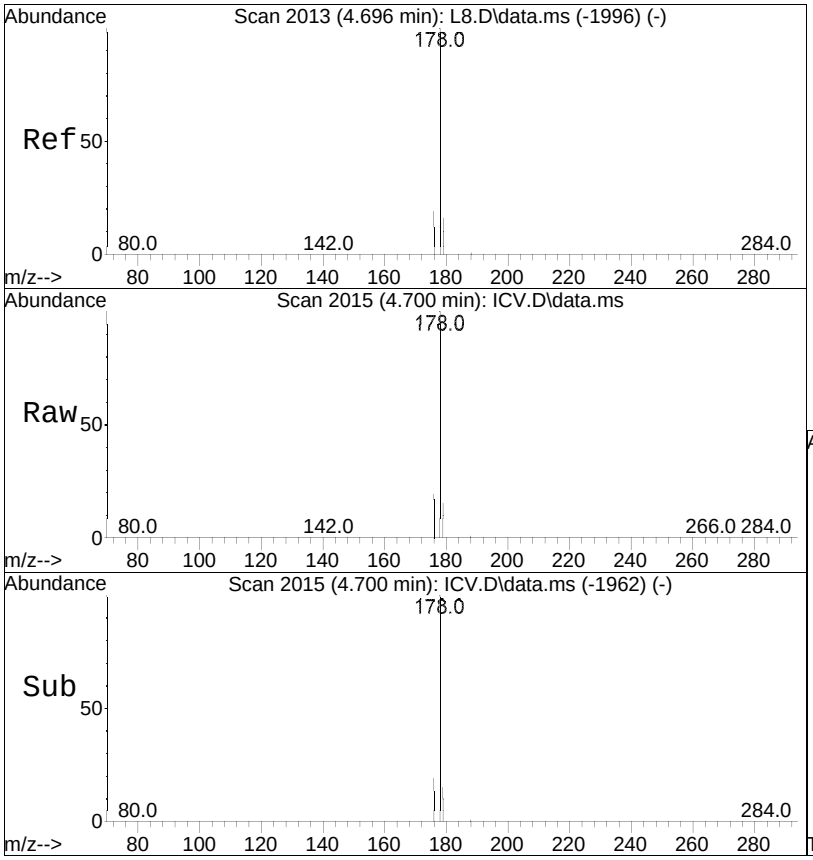


#25
Pentachlorophenol
Concen: 964.11 ng/ml
RT: 4.583 min Scan# 1956
Delta R.T. 0.004 min
Lab File: ICV.D
Acq: 03 Feb 2025 06:37 pm

Tgt Ion:266 Resp: 61333

Ion	Ratio	Lower	Upper
266	100		
264	62.9	50.3	75.5

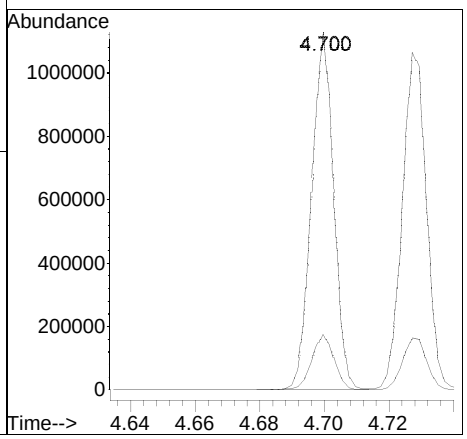


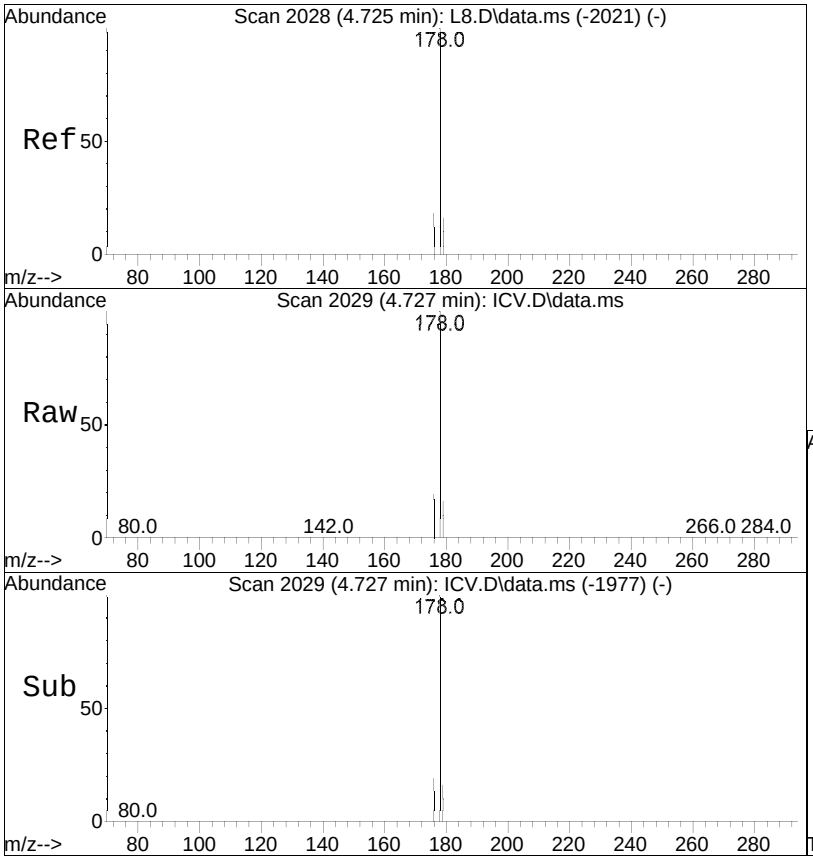


#26
Phenanthrene
Concen: 945.39 ng/ml
RT: 4.700 min Scan# 2015
Delta R.T. 0.004 min
Lab File: ICV.D
Acq: 03 Feb 2025 06:37 pm

Tgt Ion:178 Resp: 536900

Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.6	18.8

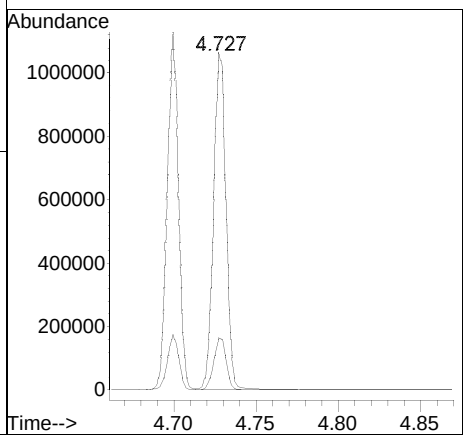


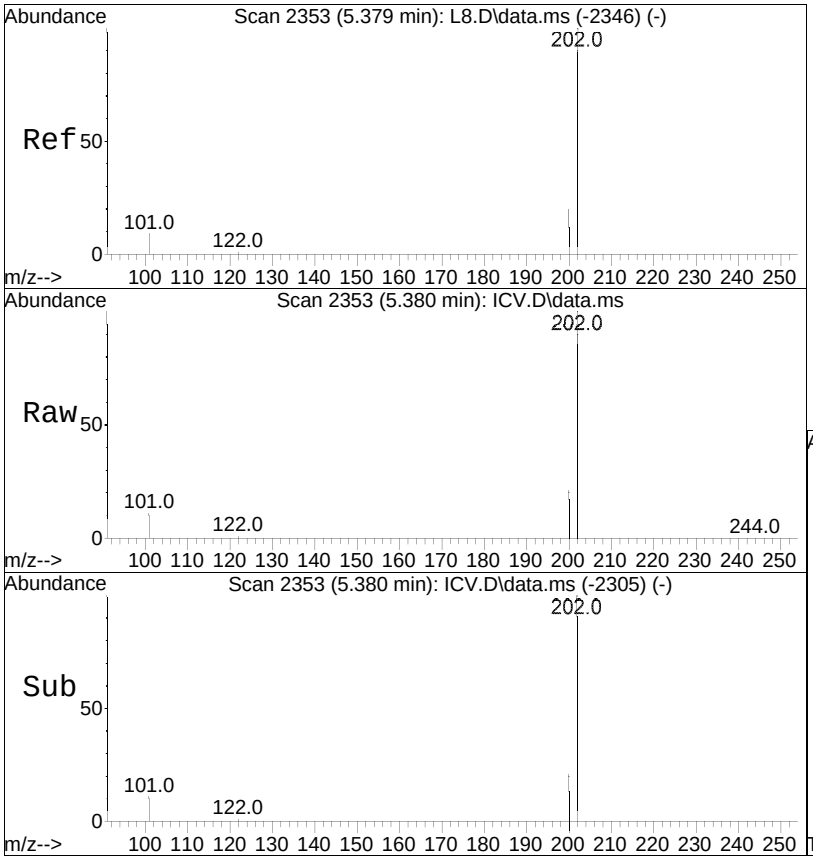


#27
Anthracene
Concen: 988.52 ng/ml
RT: 4.727 min Scan# 2029
Delta R.T. 0.002 min
Lab File: ICV.D
Acq: 03 Feb 2025 06:37 pm

Tgt Ion:178 Resp: 557215

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.4	18.6

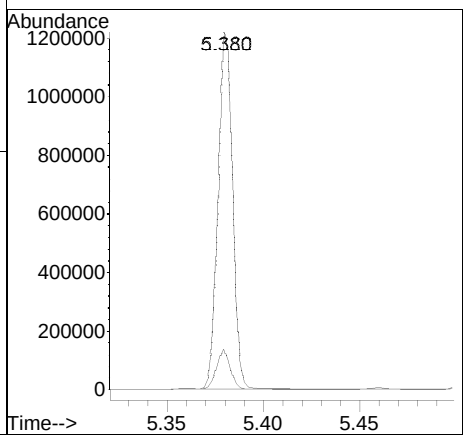


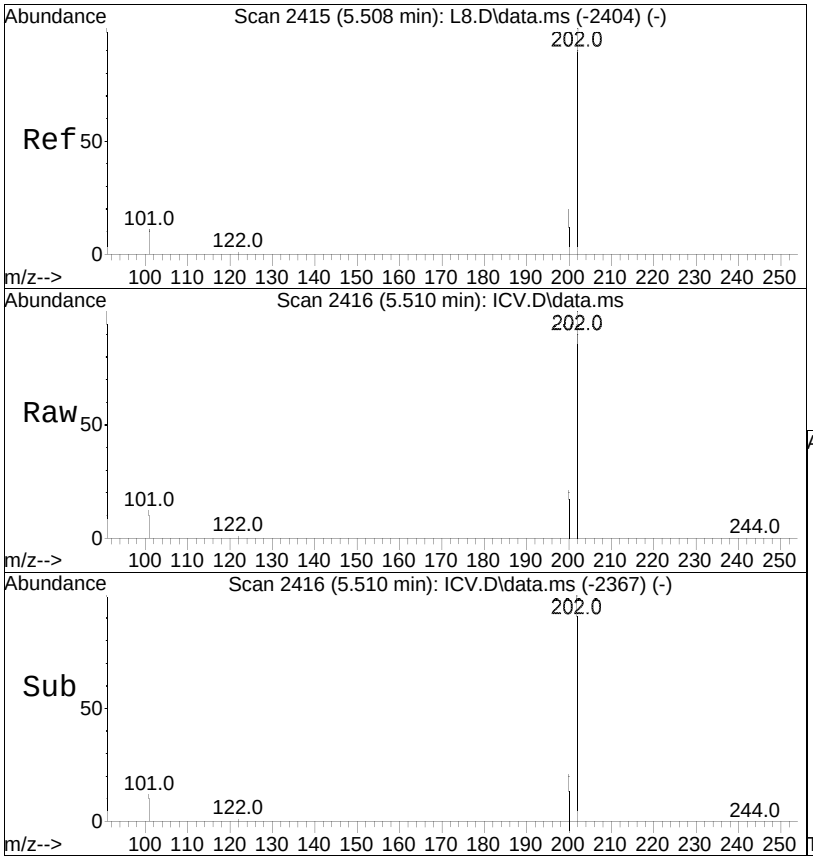


#28
Fluoranthene
Concen: 973.88 ng/ml
RT: 5.380 min Scan# 2353
Delta R.T. 0.001 min
Lab File: ICV.D
Acq: 03 Feb 2025 06:37 pm

Tgt Ion:202 Resp: 629910

Ion	Ratio	Lower	Upper
202	100		
101	10.8	8.8	13.2

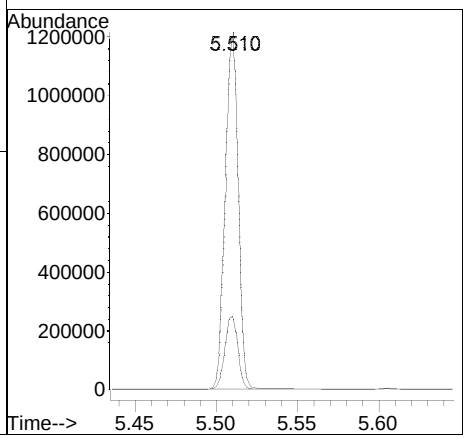


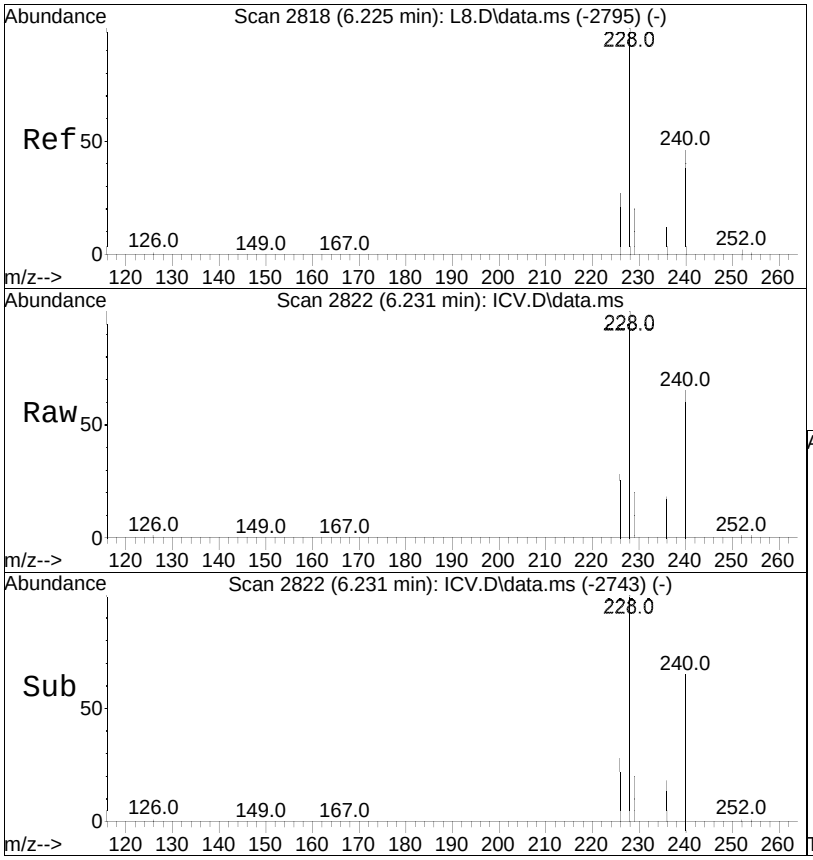


#29
Pyrene
Concen: 987.81 ng/ml
RT: 5.510 min Scan# 2416
Delta R.T. 0.002 min
Lab File: ICV.D
Acq: 03 Feb 2025 06:37 pm

Tgt Ion:202 Resp: 661209

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.9	25.3

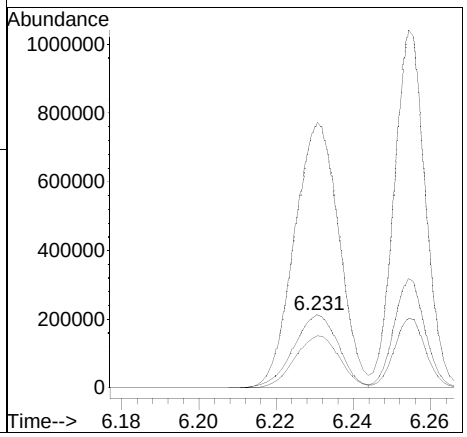


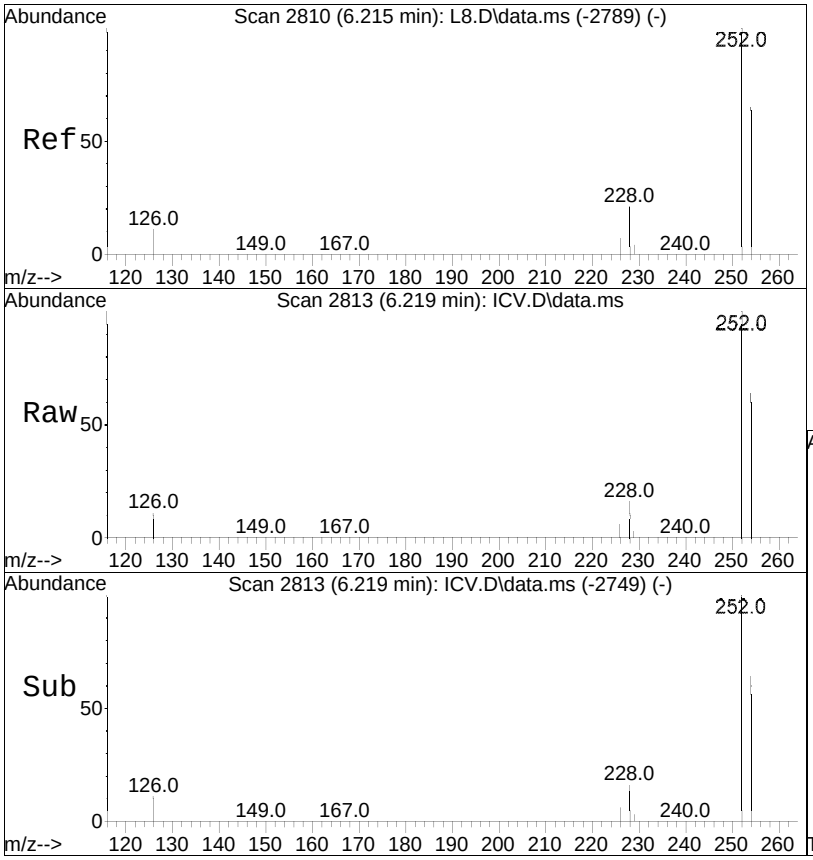


#32
Benzo[a]anthracene
Concen: 915.46 ng/ml
RT: 6.231 min Scan# 2822
Delta R.T. 0.006 min
Lab File: ICV.D
Acq: 03 Feb 2025 06:37 pm

Tgt Ion:226 Resp: 172280

Ion	Ratio	Lower	Upper
226	100		
227	0.0	0.0	0.0
228	357.8	288.7	433.1
229	70.4	56.8	85.2

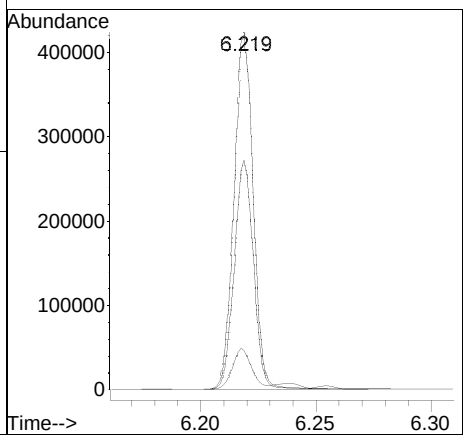


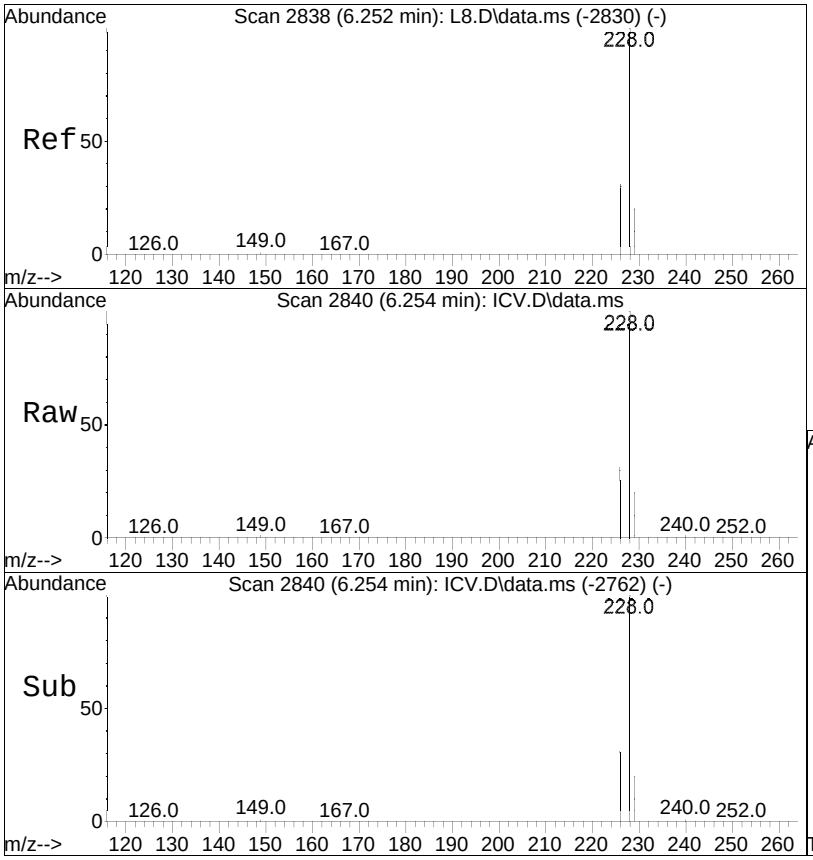


#33
3,3'-Dichlorobenzidine
Concen: 1013.16 ng/ml
RT: 6.219 min Scan# 2813
Delta R.T. 0.004 min
Lab File: ICV.D
Acq: 03 Feb 2025 06:37 pm

Tgt Ion:252 Resp: 241044

Ion	Ratio	Lower	Upper
252	100		
126	11.8	9.5	14.3
254	64.5	51.5	77.3

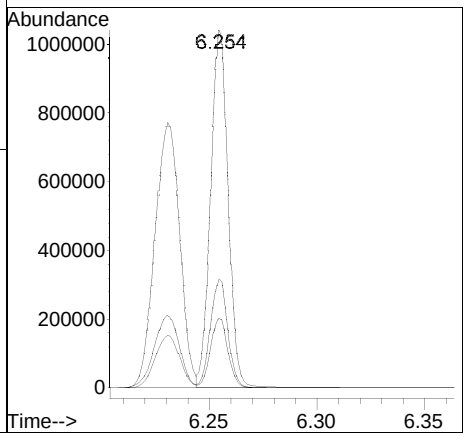


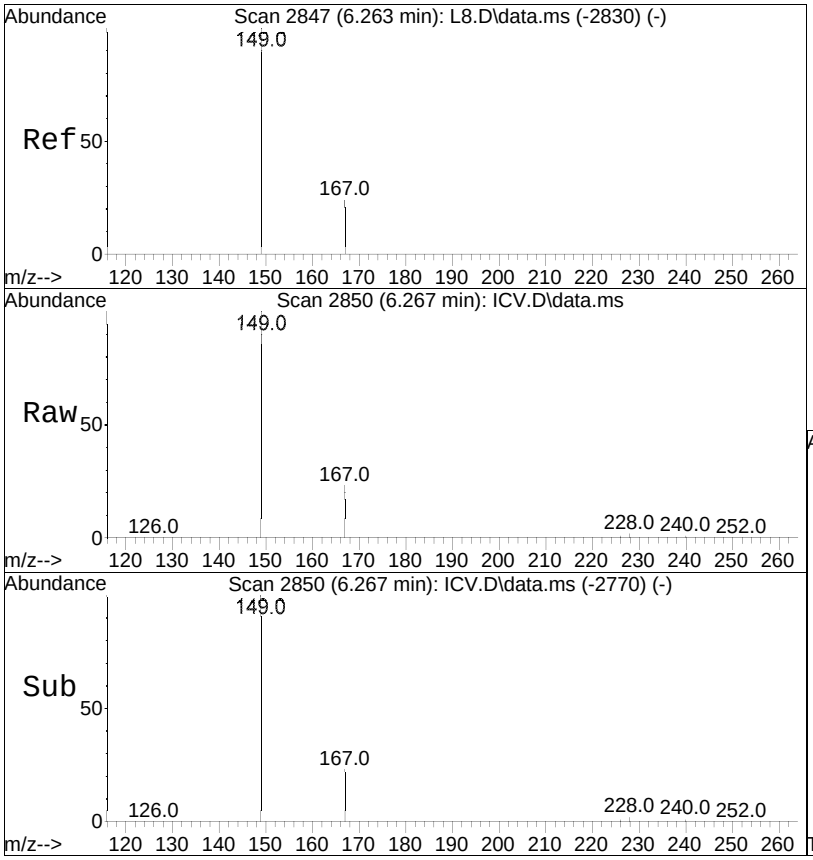


#34
Chrysene
Concen: 954.85 ng/ml
RT: 6.254 min Scan# 2840
Delta R.T. 0.002 min
Lab File: ICV.D
Acq: 03 Feb 2025 06:37 pm

Tgt Ion:228 Resp: 586733

Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.4	36.6
227	0.0	0.0	0.0
229	19.6	15.6	23.4

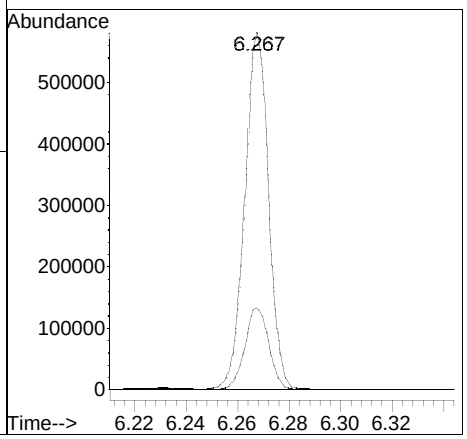


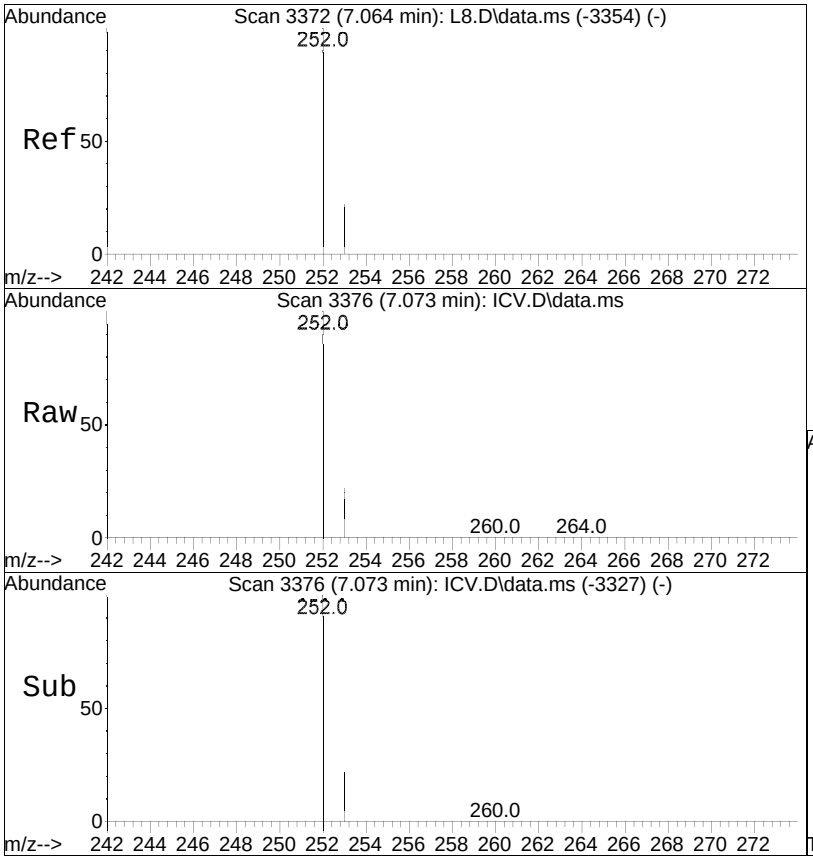


#35
Bis(2-ethylhexyl)phthalate
Concen: 873.44 ng/ml
RT: 6.267 min Scan# 2850
Delta R.T. 0.004 min
Lab File: ICV.D
Acq: 03 Feb 2025 06:37 pm

Tgt Ion:149 Resp: 367276

Ion	Ratio	Lower	Upper
149	100		
167	23.1	18.6	27.8

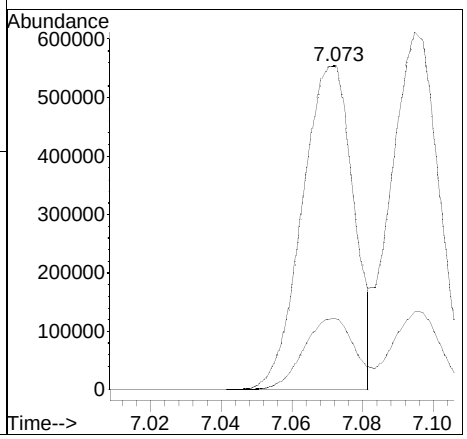


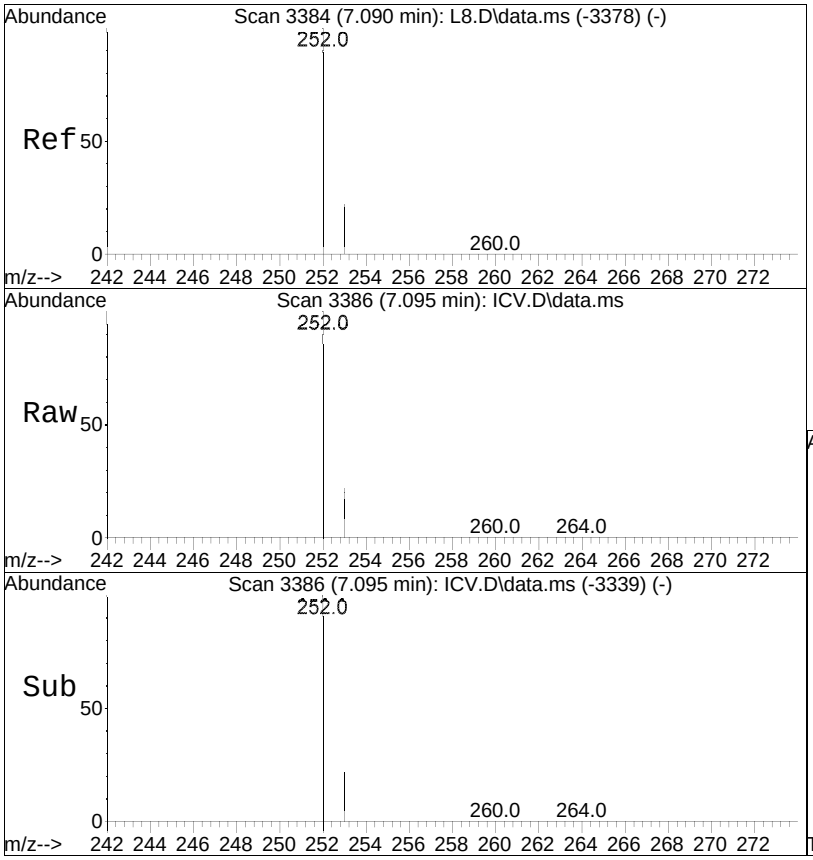


#37
Benzo[b]fluoranthene
Concen: 972.06 ng/ml
RT: 7.073 min Scan# 3376
Delta R.T. 0.009 min
Lab File: ICV.D
Acq: 03 Feb 2025 06:37 pm

Tgt Ion:252 Resp: 560896

Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.4	26.2

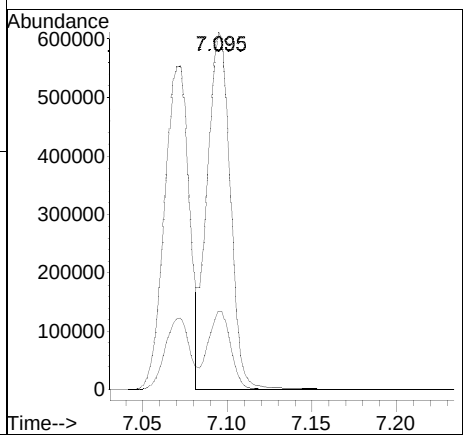


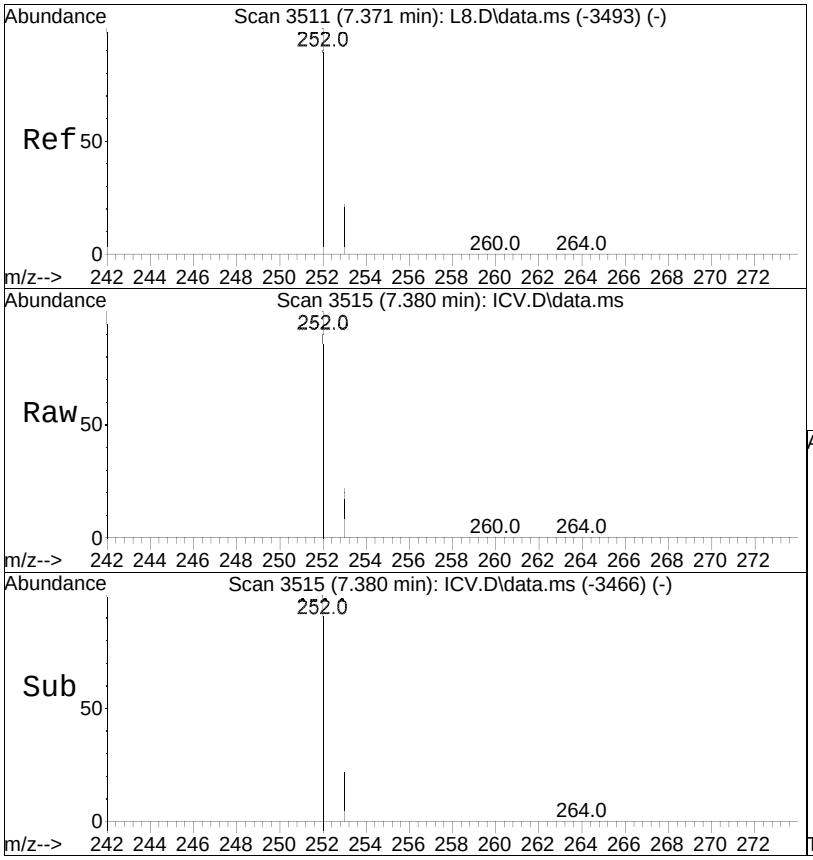


#38
Benzo[k]fluoranthene
Concen: 1059.10 ng/ml
RT: 7.095 min Scan# 3386
Delta R.T. 0.005 min
Lab File: ICV.D
Acq: 03 Feb 2025 06:37 pm

Tgt Ion:252 Resp: 581465

Ion	Ratio	Lower	Upper
252	100		
253	21.2	17.6	26.4

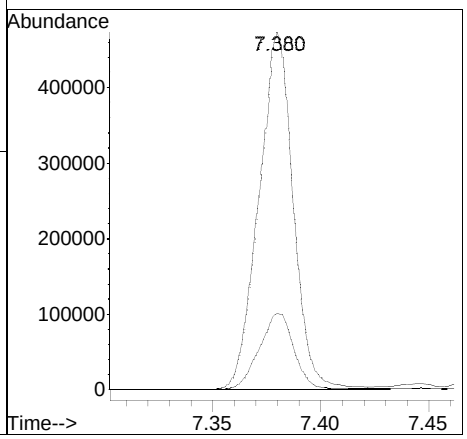


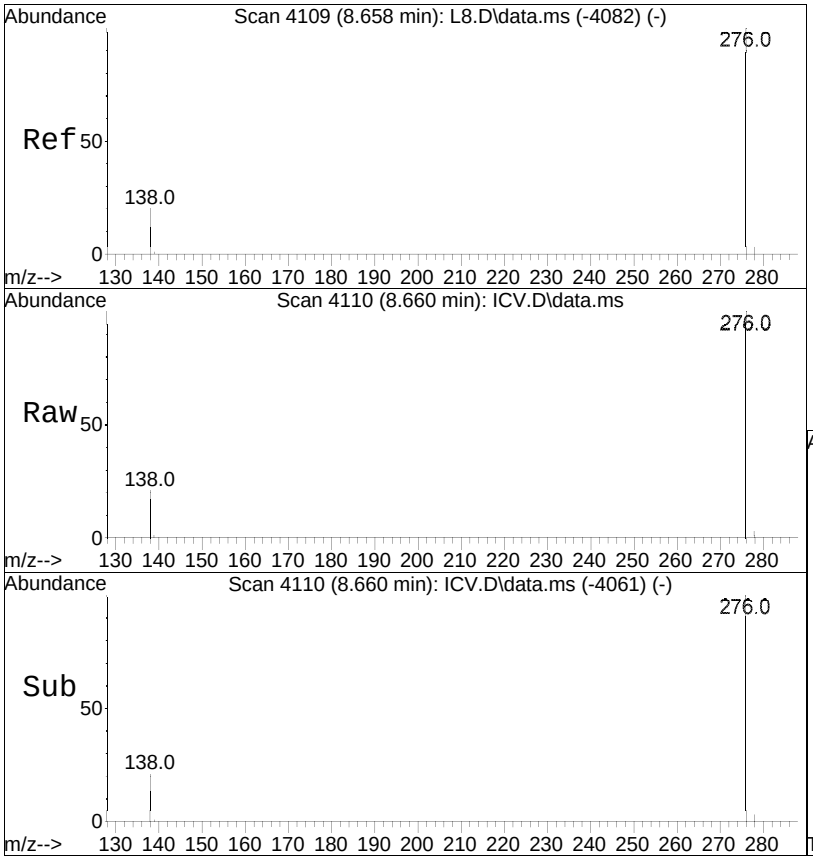


#39
Benzo[a]pyrene
Concen: 1076.08 ng/ml
RT: 7.380 min Scan# 3515
Delta R.T. 0.009 min
Lab File: ICV.D
Acq: 03 Feb 2025 06:37 pm

Tgt Ion:252 Resp: 516672

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.0

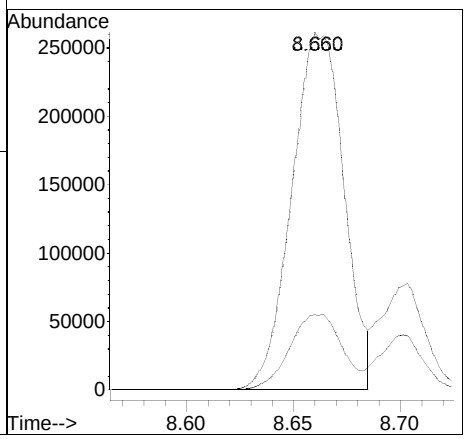


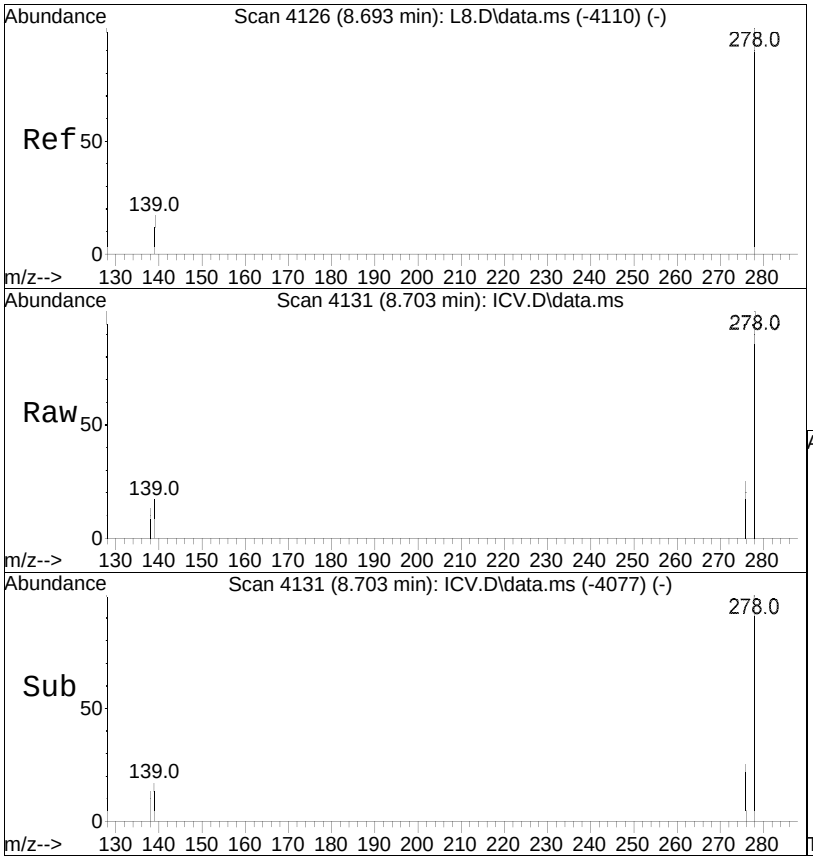


#40
Indeno[1,2,3-cd]pyrene
Concen: 1033.23 ng/ml
RT: 8.660 min Scan# 4110
Delta R.T. 0.002 min
Lab File: ICV.D
Acq: 03 Feb 2025 06:37 pm

Tgt Ion:276 Resp: 439757

Ion	Ratio	Lower	Upper
276	100		
138	21.1	17.0	25.4

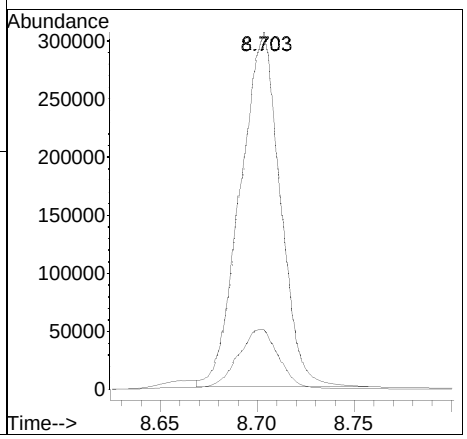


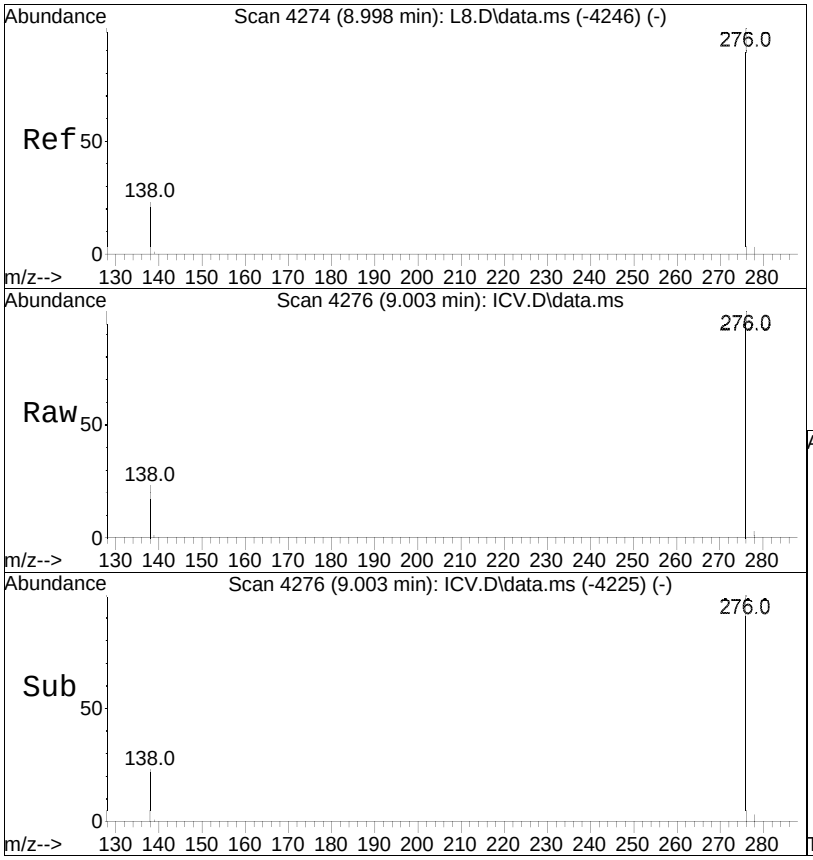


#41
Dibenzo[a,h]anthracene
Concen: 1060.54 ng/ml M6
RT: 8.703 min Scan# 4131
Delta R.T. 0.010 min
Lab File: ICV.D
Acq: 03 Feb 2025 06:37 pm

Tgt Ion:278 Resp: 435769

Ion	Ratio	Lower	Upper
278	100		
139	17.6	13.9	20.9

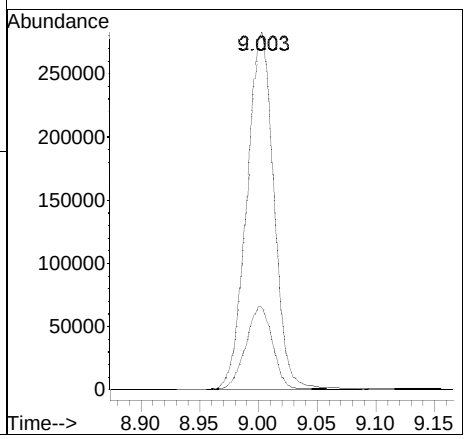




#42
Benzo[g,h,i]perylene
Concen: 1000.82 ng/ml
RT: 9.003 min Scan# 4276
Delta R.T. 0.005 min
Lab File: ICV.D
Acq: 03 Feb 2025 06:37 pm

Tgt Ion:276 Resp: 450098

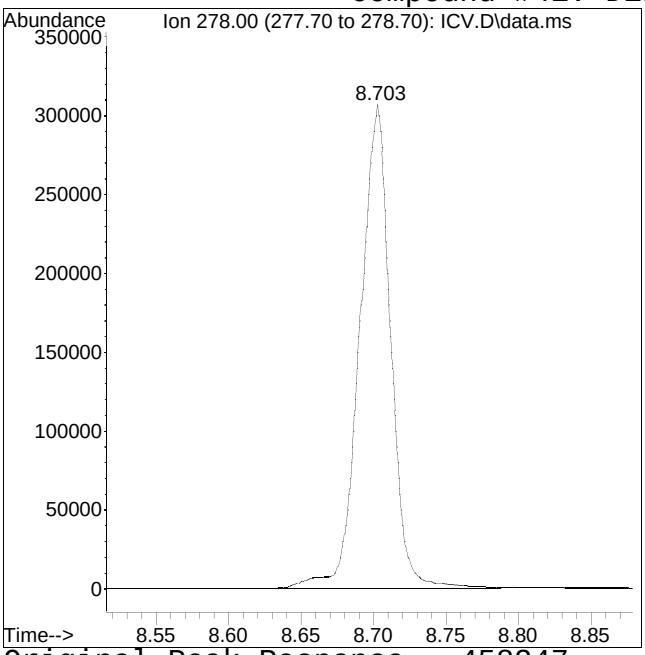
Ion	Ratio	Lower	Upper
276	100		
138	23.3	18.7	28.1



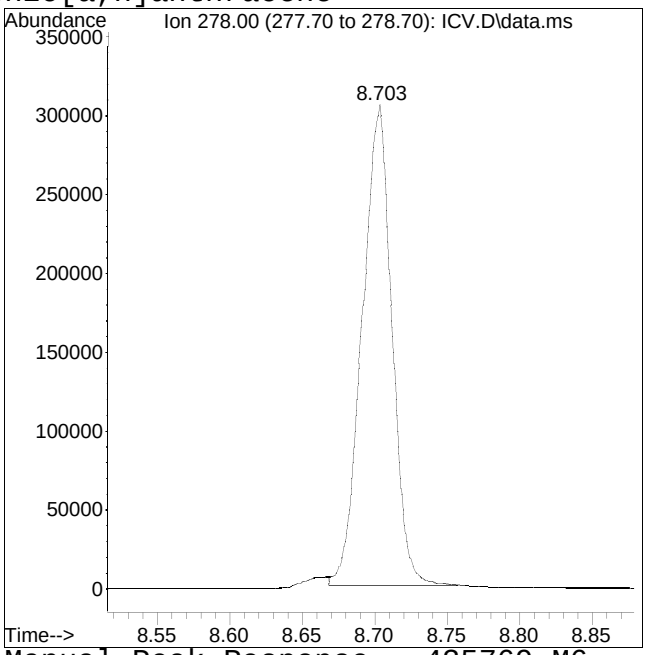
Manual Integration Report

Data Path : I:\8270SIM\SV118\250203RVTQ
Data File : ICV.D
Date Inj'd : 2/3/2025 6:37 pm
Sample : CQICV,32,, #11275 1000 ng/
Method : SIM-RVT_250203sv118.M
Operator : SV118:rp
Instrument : SV118
Quant Date : 2/10/2025 9:31 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 458247



Manual Peak Response = 435769 M6

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

Evaluate Relative Error Report SV118

Method Path : I:\8270SIM\SV118\250203RVTical\
Method File : SIM-RVT_250203sv118.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Feb 07 14:32:24 2025

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
23 T	4,6-Dinitro-o-cresol	L	ng/ml	1000.0	927.332	-7.3	40.00	50.883	27.2
25 T	Pentachlorophenol	Q	ng/ml	1000.0	1035.983	3.6	10.00	14.367	43.7
35 T	Bis(2-ethylhexyl)phthalate	L	ng/ml	1000.0	932.758	-6.7	40.00	50.947	27.4

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
23 T	4,6-Dinitro-o-cresol	Linear	0.997330	0.000000	0.131405	-0.00114886
25 T	Pentachlorophenol	Quadratic	0.997872	0.043266	0.126508	-0.000307814
35 T	Bis(2-ethylhexyl)phthalate	Linear	0.997404	0.000000	0.975861	-0.00687398

Continuing Calibration

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV119	**Calibration Date**	: 03/11/25 09:51		
Lab File ID	: CCV0311B	**Init. Calib. Date(s)**	: 12/29/24	12/29/24	
Sample No	: WG2039073-3	**Init. Calib. Times**	: 13:37	16:09	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	107	0
2-Fluorophenol	1.072	1.095	.05	-2.1	20	108	0
Phenol-d6	1.338	1.336	.05	0.1	20	104	0
Bis(2-chloroethyl)ether	1.235	1.347	.05	-9.1	20	123	0
n-nitrosodi-n-propylamine	0.827	0.733	.05	11.4	20	93	0
Hexachloroethane	0.518	0.484	.05	6.6	20	104	0
Nitrobenzene-d5	1.297	1.153	.05	11.1	20	96	0
Naphthalene-d8	1	1	.05	0	20	107	0
Naphthalene	1.116	0.966	.05	13.4	20	98	0
Hexachlorobutadiene	0.196	0.159	.05	18.9	20	91	0
2-Methylnaphthalene	0.78	0.62	.05	20.5*	20	89	0
1-Methylnaphthalene	0.718	0.629	.05	12.4	20	97	0
2-Fluorobiphenyl	0.975	0.774	.05	20.6*	20	90	0
2-Chloronaphthalene	0.805	0.664	.05	17.5	20	92	0
2,6-Dinitrotoluene	0.198	0.162	.05	18.2	20	85	0
Acenaphthylene	1.247	1.107	.05	11.2	20	98	0
Acenaphthene-d10	1	1	.05	0	20	96	0
Acenaphthene	1.334	1.202	.05	9.9	20	90	0
2,4-Dinitrotoluene	0.424	0.399	.05	5.9	20	86	0
Fluorene	1.533	1.426	.05	7	20	91	0
2,4,6-Tribromophenol	0.175	0.168	.05	4	20	87	0
Phenanthrene-d10	1	1	.05	0	20	93	0
4,6-Dinitro-o-cresol	1000	718.086	.05	28.2*	20	71	0
Hexachlorobenzene	0.236	0.202	.05	14.4	20	86	0
Pentachlorophenol	1000	839.229	.05	16.1	20	79	0
Phenanthrene	1.17	1.036	.05	11.5	20	86	0
Anthracene	1.173	1.07	.05	8.8	20	88	0
Fluoranthene	1.463	1.247	.05	14.8	20	83	0
Pyrene	1.51	1.279	.05	15.3	20	83	0
4-Terphenyl-d14	0.992	0.771	.05	22.3*	20	75	0
Chrysene-d12	1	1	.05	0	20	83	0
Benzo[a]anthracene	1000	901.889	.05	9.8	20	75	0
3,3'-Dichlorobenzidine	1000	1067.563	.05	-6.8	20	98	0
Chrysene	1.377	1.183	.05	14.1	20	74	0
Bis(2-ethylhexyl)phthalate	0.714	0.772	.05	-8.1	20	86	0
Perylene-d12	1	1	.05	0	20	85	0
Benzo[b]fluoranthene	1.326	1.204	.05	9.2	20	77	0
Benzo[k]fluoranthene	1.307	1.172	.05	10.3	20	77	0
Benzo[a]pyrene	1.125	1.113	.05	1.1	20	82	0
Indeno[1,2,3-cd]pyrene	1.089	1.123	.05	-3.1	20	84	0
Dibenzo[a,h]anthracene	1.01	1.055	.05	-4.5	20	83	0
Benzo[g,h,i]perylene	1.036	1.079	.05	-4.2	20	86	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV119	**Calibration Date**	: 03/12/25 06:56		
Lab File ID	: CCV0312A	**Init. Calib. Date(s)**	: 12/29/24	12/29/24	
Sample No	: WG2039433-3	**Init. Calib. Times**	: 13:37	16:09	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	89	0
2-Fluorophenol	1.072	1.112	.05	-3.7	20	91	0
Phenol-d6	1.338	1.358	.05	-1.5	20	88	0
Bis(2-chloroethyl)ether	1.235	1.181	.05	4.4	20	90	0
n-nitrosodi-n-propylamine	0.827	0.829	.05	-0.2	20	88	0
Hexachloroethane	0.518	0.485	.05	6.4	20	86	0
Nitrobenzene-d5	1.297	1.208	.05	6.9	20	83	0
Naphthalene-d8	1	1	.05	0	20	92	0
Naphthalene	1.116	0.967	.05	13.4	20	85	0
Hexachlorobutadiene	0.196	0.153	.05	21.9*	20	75	0
2-Methylnaphthalene	0.78	0.625	.05	19.9	20	77	0
1-Methylnaphthalene	0.718	0.638	.05	11.1	20	85	0
2-Fluorobiphenyl	0.975	0.782	.05	19.8	20	78	0
2-Chloronaphthalene	0.805	0.674	.05	16.3	20	80	0
2,6-Dinitrotoluene	0.198	0.168	.05	15.2	20	76	0
Acenaphthylene	1.247	1.148	.05	7.9	20	88	0
Acenaphthene-d10	1	1	.05	0	20	86	0
Acenaphthene	1.334	1.194	.05	10.5	20	80	0
2,4-Dinitrotoluene	0.424	0.388	.05	8.5	20	75	0
Fluorene	1.533	1.423	.05	7.2	20	81	0
2,4,6-Tribromophenol	0.175	0.166	.05	5.1	20	77	0
Phenanthrene-d10	1	1	.05	0	20	84	0
4,6-Dinitro-o-cresol	1000	704.449	.05	29.6*	20	63	0
Hexachlorobenzene	0.236	0.192	.05	18.6	20	74	0
Pentachlorophenol	1000	649.4	.05	35.1*	20	55	0
Phenanthrene	1.17	1.015	.05	13.2	20	77	0
Anthracene	1.173	1.059	.05	9.7	20	79	0
Fluoranthene	1.463	1.267	.05	13.4	20	76	0
Pyrene	1.51	1.307	.05	13.4	20	77	0
4-Terphenyl-d14	0.992	0.805	.05	18.9	20	71	0
Chrysene-d12	1	1	.05	0	20	81	0
Benzo[a]anthracene	1000	908.038	.05	9.2	20	74	0
3,3'-Dichlorobenzidine	1000	1135.773	.05	-13.6	20	102	0
Chrysene	1.377	1.173	.05	14.8	20	72	0
Bis(2-ethylhexyl)phthalate	0.714	0.972	.05	-36.1*	20	106	0
Perylene-d12	1	1	.05	0	20	84	0
Benzo[b]fluoranthene	1.326	1.236	.05	6.8	20	78	0
Benzo[k]fluoranthene	1.307	1.211	.05	7.3	20	78	0
Benzo[a]pyrene	1.125	1.158	.05	-2.9	20	84	0
Indeno[1,2,3-cd]pyrene	1.089	1.165	.05	-7	20	86	0
Dibenzo[a,h]anthracene	1.01	1.076	.05	-6.5	20	83	0
Benzo[g,h,i]perylene	1.036	1.099	.05	-6.1	20	86	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV119	**Calibration Date**	: 03/13/25 06:38		
Lab File ID	: CCV0313	**Init. Calib. Date(s)**	: 12/29/24	12/29/24	
Sample No	: WG2039957-3	**Init. Calib. Times**	: 13:37	16:09	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	74	0
2-Fluorophenol	1.072	1.088	.05	-1.5	20	75	0
Phenol-d6	1.338	1.36	.05	-1.6	20	74	0
Bis(2-chloroethyl)ether	1.235	1.164	.05	5.7	20	74	0
n-nitrosodi-n-propylamine	0.827	0.817	.05	1.2	20	72	0
Hexachloroethane	0.518	0.483	.05	6.8	20	72	0
Nitrobenzene-d5	1.297	1.229	.05	5.2	20	71	0
Naphthalene-d8	1	1	.05	0	20	78	0
Naphthalene	1.116	0.962	.05	13.8	20	72	0
Hexachlorobutadiene	0.196	0.15	.05	23.5*	20	63	0
2-Methylnaphthalene	0.78	0.619	.05	20.6*	20	65	0
1-Methylnaphthalene	0.718	0.631	.05	12.1	20	72	0
2-Fluorobiphenyl	0.975	0.771	.05	20.9*	20	66	0
2-Chloronaphthalene	0.805	0.666	.05	17.3	20	67	0
2,6-Dinitrotoluene	0.198	0.167	.05	15.7	20	64	0
Acenaphthylene	1.247	1.124	.05	9.9	20	73	0
Acenaphthene-d10	1	1	.05	0	20	72	0
Acenaphthene	1.334	1.195	.05	10.4	20	67	0
2,4-Dinitrotoluene	0.424	0.392	.05	7.5	20	63	0
Fluorene	1.533	1.41	.05	8	20	67	0
2,4,6-Tribromophenol	0.175	0.156	.05	10.9	20	61	0
Phenanthrene-d10	1	1	.05	0	20	71	0
4,6-Dinitro-o-cresol	1000	737.689	.05	26.2*	20	56	0
Hexachlorobenzene	0.236	0.189	.05	19.9	20	61	0
Pentachlorophenol	1000	598.195	.05	40.2*	20	43	0
Phenanthrene	1.17	1.012	.05	13.5	20	65	0
Anthracene	1.173	1.044	.05	11	20	66	0
Fluoranthene	1.463	1.254	.05	14.3	20	64	0
Pyrene	1.51	1.306	.05	13.5	20	65	0
4-Terphenyl-d14	0.992	0.794	.05	20	20	59	0
Chrysene-d12	1	1	.05	0	20	69	0
Benzo[a]anthracene	1000	894.842	.05	10.5	20	62	0
3,3'-Dichlorobenzidine	1000	1078.126	.05	-7.8	20	83	0
Chrysene	1.377	1.17	.05	15	20	61	0
Bis(2-ethylhexyl)phthalate	0.714	0.76	.05	-6.4	20	71	0
Perylene-d12	1	1	.05	0	20	71	0
Benzo[b]fluoranthene	1.326	1.198	.05	9.7	20	64	0
Benzo[k]fluoranthene	1.307	1.185	.05	9.3	20	65	0
Benzo[a]pyrene	1.125	1.127	.05	-0.2	20	69	0
Indeno[1,2,3-cd]pyrene	1.089	1.147	.05	-5.3	20	72	0
Dibenzo[a,h]anthracene	1.01	1.066	.05	-5.5	20	70	0
Benzo[g,h,i]perylene	1.036	1.084	.05	-4.6	20	72	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV118	**Calibration Date**	: 03/13/25 08:33		
Lab File ID	: CCV0313A	**Init. Calib. Date(s)**	: 02/03/25	02/03/25	
Sample No	: WG2040034-3	**Init. Calib. Times**	: 15:47	18:20	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.01	0	20	139	0
2-Fluorophenol	1.223	1.072	.01	12.3	20	121	0
Phenol-d6	1.466	1.355	.01	7.6	20	127	0
Bis(2-chloroethyl)ether	1.301	1.229	.01	5.5	20	135	0
n-nitrosodi-n-propylamine	0.835	0.909	.01	-8.9	20	143	0
Hexachloroethane	0.544	0.533	.01	2	20	136	0
Nitrobenzene-d5	1.197	1.265	.01	-5.7	20	140	0
Naphthalene-d8	1	1	.01	0	20	140	0
Naphthalene	1.137	1.047	.01	7.9	20	133	0
Hexachlorobutadiene	0.204	0.197	.01	3.4	20	135	0
2-Methylnaphthalene	0.707	0.677	.01	4.2	20	135	0
1-Methylnaphthalene	0.719	0.693	.01	3.6	20	136	0
2-Fluorobiphenyl	0.876	0.858	.01	2.1	20	143	0
2-Chloronaphthalene	0.765	0.755	.01	1.3	20	138	0
2,6-Dinitrotoluene	0.17	0.191	.01	-12.4	20	145	0
Acenaphthylene	1.17	1.257	.01	-7.4	20	142	0
Acenaphthene-d10	1	1	.01	0	20	148	0
Acenaphthene	1.424	1.301	.01	8.6	20	138	0
2,4-Dinitrotoluene	0.411	0.447	.01	-8.8	20	146	0
Fluorene	1.566	1.515	.01	3.3	20	143	0
2,4,6-Tribromophenol	0.185	0.213	.01	-15.1	20	148	0
Phenanthrene-d10	1	1	.01	0	20	155	0
4,6-Dinitro-o-cresol	1000	799.402	.01	20.1*	20	133	0
Hexachlorobenzene	0.265	0.263	.01	0.8	20	156	0
Pentachlorophenol	1000	758.034	.01	24.2*	20	111	0
Phenanthrene	1.211	1.101	.01	9.1	20	143	0
Anthracene	1.202	1.162	.01	3.3	20	147	0
Fluoranthene	1.379	1.365	.01	1	20	152	0
Pyrene	1.427	1.399	.01	2	20	149	0
4-Terphenyl-d14	0.929	0.861	.01	7.3	20	146	0
Chrysene-d12	1	1	.01	0	20	161	0
Benzo[a]anthracene	0.423	0.375	.01	11.3	20	148	0
3,3'-Dichlorobenzidine	0.534	0.578	.01	-8.2	20	161	0
Chrysene	1.38	1.251	.01	9.3	20	146	0
Bis(2-ethylhexyl)phthalate	1000	1066.555	.01	-6.7	20	185	0
Perylene-d12	1	1	.01	0	20	165	0
Benzo[b]fluoranthene	1.316	1.251	.01	4.9	20	154	0
Benzo[k]fluoranthene	1.252	1.26	.01	-0.6	20	154	0
Benzo[a]pyrene	1.095	1.159	.01	-5.8	20	159	0
Indeno[1,2,3-cd]pyrene	0.971	1.035	.01	-6.6	20	161	0
Dibenzo[a,h]anthracene	0.937	0.996	.01	-6.3	20	155	0
Benzo[g,h,i]perylene	1.026	1.007	.01	1.9	20	150	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv119\250311bRVT\
Data File : ccv0311b.D
Acq On : 11 Mar 2025 09:51 am
Operator : sv119:jjw
Sample : WG2039073-3,32,,ICV 11275 (0309)
Misc : WG2039073,,ical21826
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 11 12:33:22 2025
Quant Method : I:\8270SIM\sv119\250311bRVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 11 12:33:34 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	107	0.00
2	T	N-Nitrosodimethylamine	0.000	0.000#	0.0	0#	-1.19#
3	s	2-Fluorophenol	1.072	1.095	-2.1	108	0.00
4	s	Phenol-d6	1.338	1.336	0.1	104	0.00
5	T	Bis(2-chloroethyl)ether	1.235	1.347	-9.1	123	0.00
6	T	n-nitrosodi-n-propylamine	0.827	0.733	11.4	93	0.00
7	t	Hexachloroethane	0.518	0.484	6.6	104	0.00
8	s	Nitrobenzene-d5	1.297	1.153	11.1	96	0.00
9	i	Naphthalene-d8	1.000	1.000	0.0	107	0.00
10	t	Naphthalene	1.116	0.966	13.4	98	0.00
11	t	Hexachlorobutadiene	0.196	0.159	18.9	91	0.00
12	t	2-Methylnaphthalene	0.780	0.620	20.5#	89	0.00
13	t	1-Methylnaphthalene	0.718	0.629	12.4	97	0.00
14	s	2-Fluorobiphenyl	0.975	0.774	20.6#	90	0.00
15	t	2-Chloronaphthalene	0.805	0.664	17.5	92	0.00
16	t	2,6-Dinitrotoluene	0.198	0.162	18.2	85	0.00
17	t	Acenaphthylene	1.247	1.107	11.2	98	0.00
18	i	Acenaphthene-d10	1.000	1.000	0.0	96	0.00
19	t	Acenaphthene	1.334	1.202	9.9	90	0.00
20	t	2,4-Dinitrotoluene	0.424	0.399	5.9	86	0.00
21	t	Fluorene	1.533	1.426	7.0	91	0.00
22	s	2,4,6-Tribromophenol	0.175	0.168	4.0	87	0.00
23	i	Phenanthrene-d10	1.000	1.000	0.0	93	0.00
24	T	4,6-Dinitro-o-cresol	*1000.000	718.086	28.2#	71	0.00
25	t	Hexachlorobenzene	0.236	0.202	14.4	86	0.00
26	t	Pentachlorophenol	*1000.000	839.229	16.1	79	0.00
27	t	Phenanthrene	1.170	1.036	11.5	86	0.00
28	t	Anthracene	1.173	1.070	8.8	88	0.00
29	t	Fluoranthene	1.463	1.247	14.8	83	0.00
30	t	Pyrene	1.510	1.279	15.3	83	0.00
31	T	Benzidine	0.000	0.711	0.0	0#	0.00
32	s	4-Terphenyl-d14	0.992	0.771	22.3#	75	0.00
33	i	Chrysene-d12	1.000	1.000	0.0	83	0.00
34	t	Benzo[a]anthracene	*1000.000	901.889	9.8	75	0.00
35	t	3,3'-Dichlorobenzidine	*1000.000	1067.563	-6.8	98	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv119\250311bRVT\
Data File : ccv0311b.D
Acq On : 11 Mar 2025 09:51 am
Operator : sv119:jjw
Sample : WG2039073-3,32,,ICV 11275 (0309)
Misc : WG2039073,,ical21826
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 11 12:33:22 2025
Quant Method : I:\8270SIM\sv119\250311bRVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 11 12:33:34 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	t	Chrysene	1.377	1.183	14.1	74	0.00
37	T	Bis(2-ethylhexyl)phthalate	0.714	0.772	-8.1	86	0.00
38	i	Perylene-d12	1.000	1.000	0.0	85	0.00
39	t	Benzo[b]fluoranthene	1.326	1.204	9.2	77	0.00
40	t	Benzo[k]fluoranthene	1.307	1.172	10.3	77	0.00
41	t	Benzo[a]pyrene	1.125	1.113	1.1	82	0.00
42	t	Indeno[1,2,3-cd]pyrene	1.089	1.123	-3.1	84	0.00
43	t	Dibenzo[a,h]anthracene	1.010	1.055	-4.5	83	0.00
44	t	Benzo[g,h,i]perylene	1.036	1.079	-4.2	86	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250311bRVT\
Data File : ccv0311b.D
Acq On : 11 Mar 2025 09:51 am
Operator : sv119:jjw
Sample : WG2039073-3,32,,ICV 11275 (0309)
Misc : WG2039073,,ical21826
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 11 12:33:22 2025
Quant Method : I:\8270SIM\sv119\250311bRVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 11 12:33:34 2025
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.211	152	325676	4000.000	ng/ml	0.00
9) Naphthalene-d8	2.864	136	1225929	4000.000	ng/ml	0.00
18) Acenaphthene-d10	3.831	164	688151	4000.000	ng/ml	0.00
23) Phenanthrene-d10	4.669	188	1410915	4000.000	ng/ml	0.00
33) Chrysene-d12	6.253	240	1283861	4000.000	ng/ml	0.00
38) Perylene-d12	7.437	264	1327611	4000.000	ng/ml	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	1.655	112	89137	1021.498	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 51.07%			
4) Phenol-d6	2.039	99	108774	998.731	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 49.94%			
8) Nitrobenzene-d5	2.490	82	93892	889.010	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 88.90%			
14) 2-Fluorobiphenyl	3.454	172	237334	793.927	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 79.39%			
22) 2,4,6-Tribromophenol	4.277	330	28848	960.502	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 48.03%			
32) 4-Terphenyl-d14	5.600	244	272026	777.184	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 77.72%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	0.000		0	N.D.		
5) Bis(2-chloroethyl)ether	2.083	93	109689M6	1091.156	ng/ml	
6) n-nitrosodi-n-propylamine	2.411	70	59692	886.015	ng/ml	100
7) Hexachloroethane	2.461	117	39432	934.129	ng/ml	97
10) Naphthalene	2.874	128	295995	865.707	ng/ml	99
11) Hexachlorobutadiene	2.941	225	48766	810.465	ng/ml	100
12) 2-Methylnaphthalene	3.250	142	190063	795.470	ng/ml	99
13) 1-Methylnaphthalene	3.303	142	192811	876.410	ng/ml	98
15) 2-Chloronaphthalene	3.518	162	203544	824.842	ng/ml	93
16) 2,6-Dinitrotoluene	3.715	165	49561	814.979	ng/ml#	88
17) Acenaphthylene	3.749	152	339215	887.641	ng/ml	100
19) Acenaphthene	3.849	153	206762	900.886	ng/ml	94
20) 2,4-Dinitrotoluene	3.945	165	68656	940.388	ng/ml#	69
21) Fluorene	4.139	166	245306	930.297	ng/ml	96
24) 4,6-Dinitro-o-cresol	4.176	198	32888	718.086	ng/ml	95
25) Hexachlorobenzene	4.458	284	71306	857.391	ng/ml	95
26) Pentachlorophenol	4.571	266	35032	839.229	ng/ml	100
27) Phenanthrene	4.681	178	365326	885.574	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250311bRVT\
Data File : ccv0311b.D
Acq On : 11 Mar 2025 09:51 am
Operator : sv119:jjw
Sample : WG2039073-3,32,,ICV 11275 (0309)
Misc : WG2039073,,ical21826
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 11 12:33:22 2025
Quant Method : I:\8270SIM\sv119\250311bRVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 11 12:33:34 2025
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Anthracene	4.709	178	377353	912.348	ng/ml	99
29) Fluoranthene	5.370	202	439818	852.167	ng/ml	99
30) Pyrene	5.504	202	450985	846.554	ng/ml	100
31) Benzidine	5.454	184	250806	No Calib #		
34) Benzo[a]anthracene	6.244	228	410502	901.889	ng/ml	100
35) 3,3'-Dichlorobenzidine	6.233	252	172542	1067.563	ng/ml	99
36) Chrysene	6.268	228	379661	858.873	ng/ml	100
37) Bis(2-ethylhexyl)phtha...	6.271	149	247731	1080.282	ng/ml	97
39) Benzo[b]fluoranthene	7.070	252	399540	908.058	ng/ml	98
40) Benzo[k]fluoranthene	7.095	252	389064	896.680	ng/ml	99
41) Benzo[a]pyrene	7.373	252	369301	989.164	ng/ml	99
42) Indeno[1,2,3-cd]pyrene	8.624	276	372791	1031.391	ng/ml	98
43) Dibenzo[a,h]anthracene	8.657	278	350248M6	1044.564	ng/ml	
44) Benzo[g,h,i]perylene	8.959	276	358068	1040.847	ng/ml	98

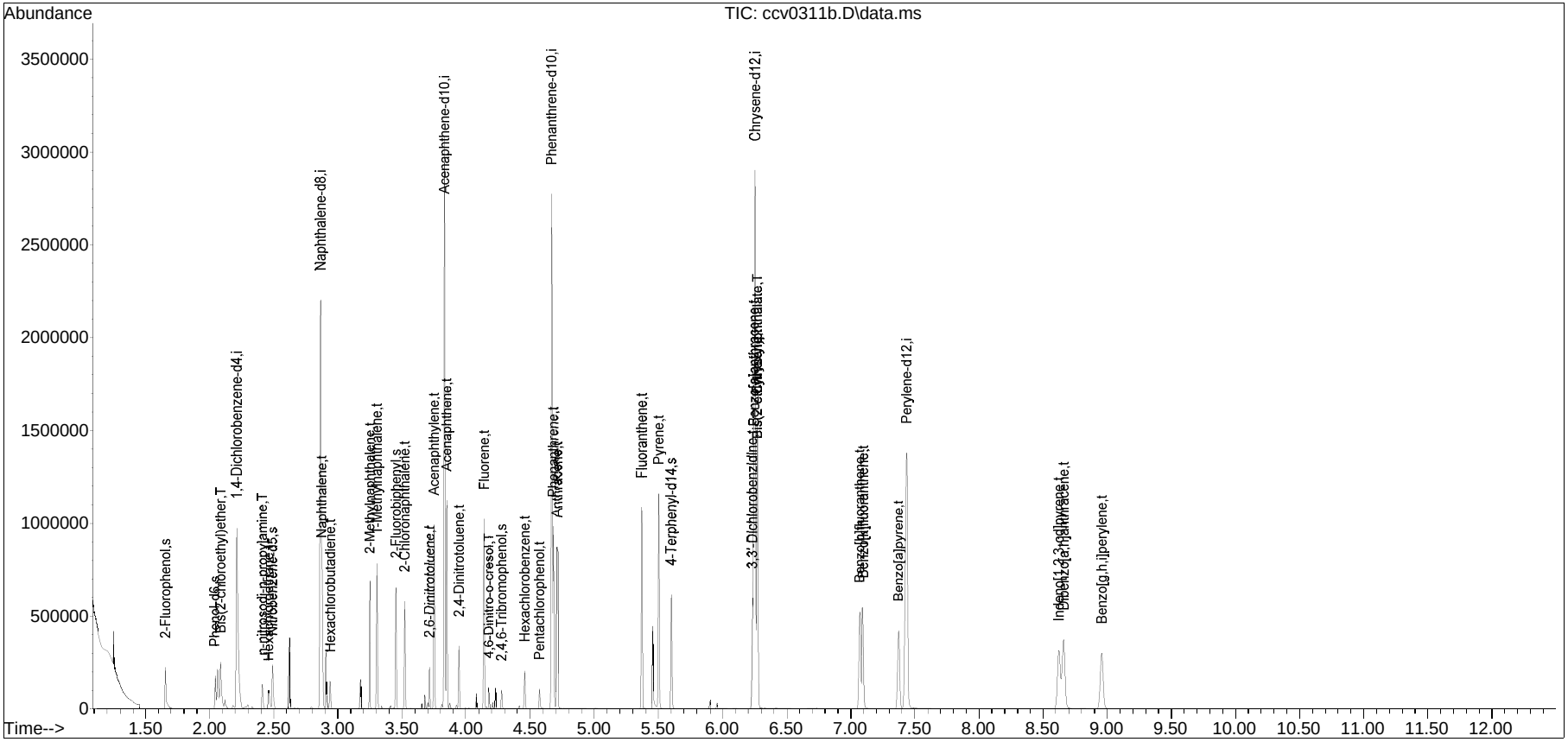
(#) = qualifier out of range (m) = manual integration (+) = signals summed

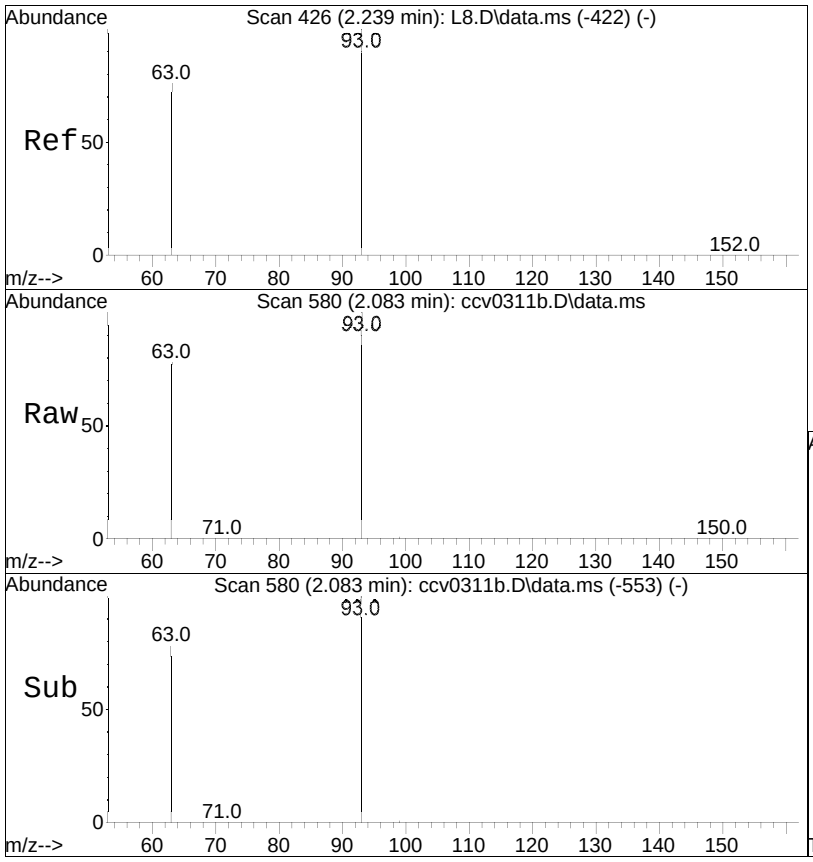
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250311bRVT\
Data File : ccv0311b.D
Acq On : 11 Mar 2025 09:51 am
Operator : sv119:jjw
Sample : WG2039073-3,32,,ICV 11275 (0309)
Misc : WG2039073,,ical21826
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 11 12:33:22 2025
Quant Method : I:\8270SIM\sv119\250311bRVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 11 12:33:34 2025
Response via : Initial Calibration

Sub List : Default - All compounds listed

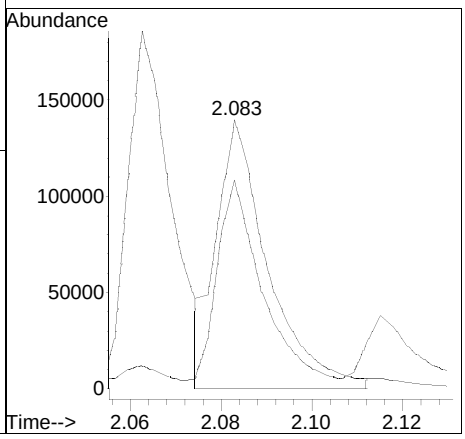


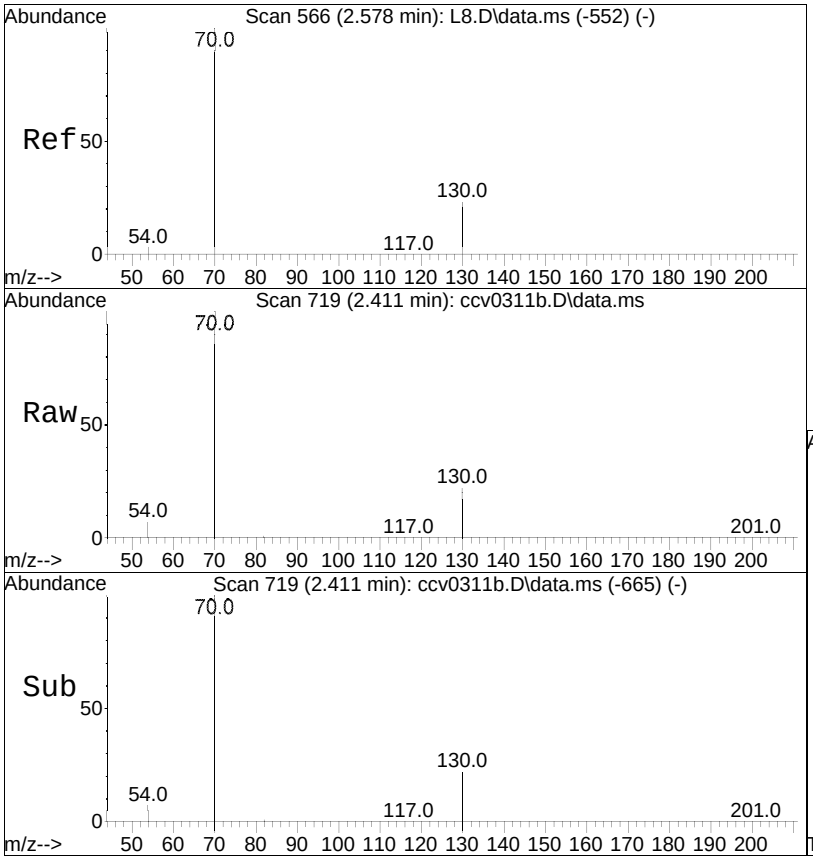


#5
Bis(2-chloroethyl)ether
Concen: 1091.16 ng/ml M6
RT: 2.083 min Scan# 580
Delta R.T. 0.000 min
Lab File: ccv0311b.D
Acq: 11 Mar 2025 09:51 am

Tgt Ion: 93 Resp: 109689

Ion	Ratio	Lower	Upper
93	100		
63	70.1	61.7	92.5

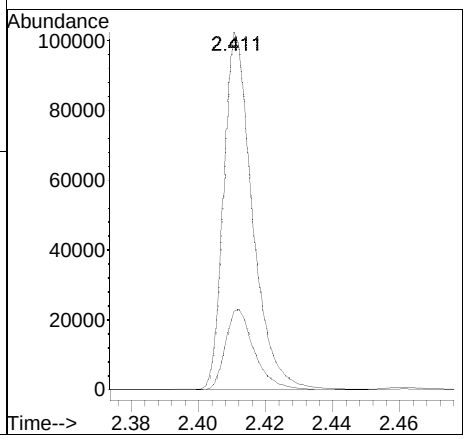


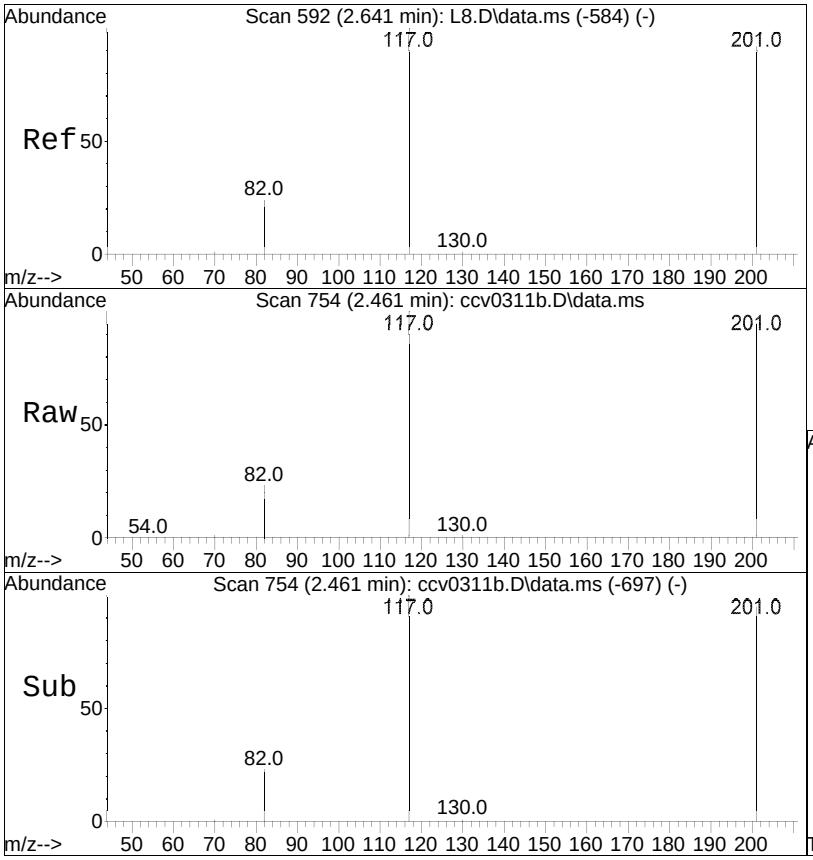


#6
n-nitrosodi-n-propylamine
Concen: 886.01 ng/ml
RT: 2.411 min Scan# 719
Delta R.T. 0.000 min
Lab File: ccv0311b.D
Acq: 11 Mar 2025 09:51 am

Tgt Ion: 70 Resp: 59692

Ion	Ratio	Lower	Upper
70	100		
130	22.7	18.1	27.1

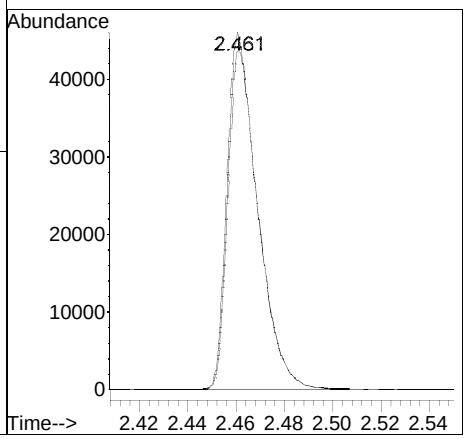


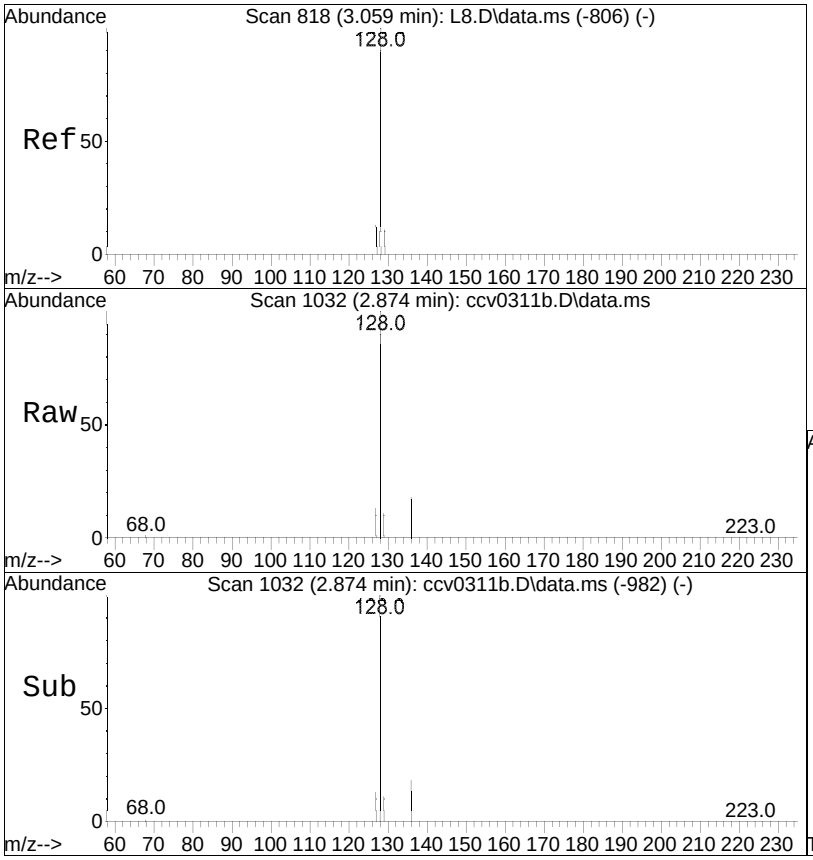


#7
Hexachloroethane
Concen: 934.13 ng/ml
RT: 2.461 min Scan# 754
Delta R.T. 0.000 min
Lab File: ccv0311b.D
Acq: 11 Mar 2025 09:51 am

Tgt Ion:117 Resp: 39432

Ion	Ratio	Lower	Upper
117	100		
201	95.9	79.3	118.9

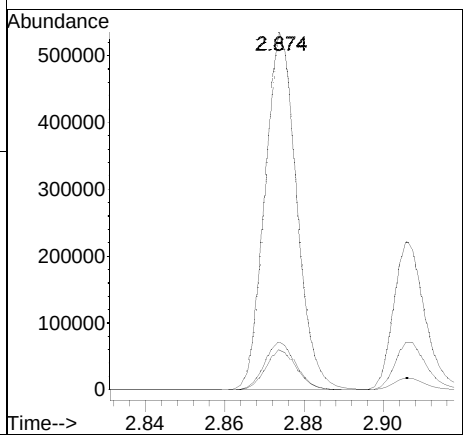


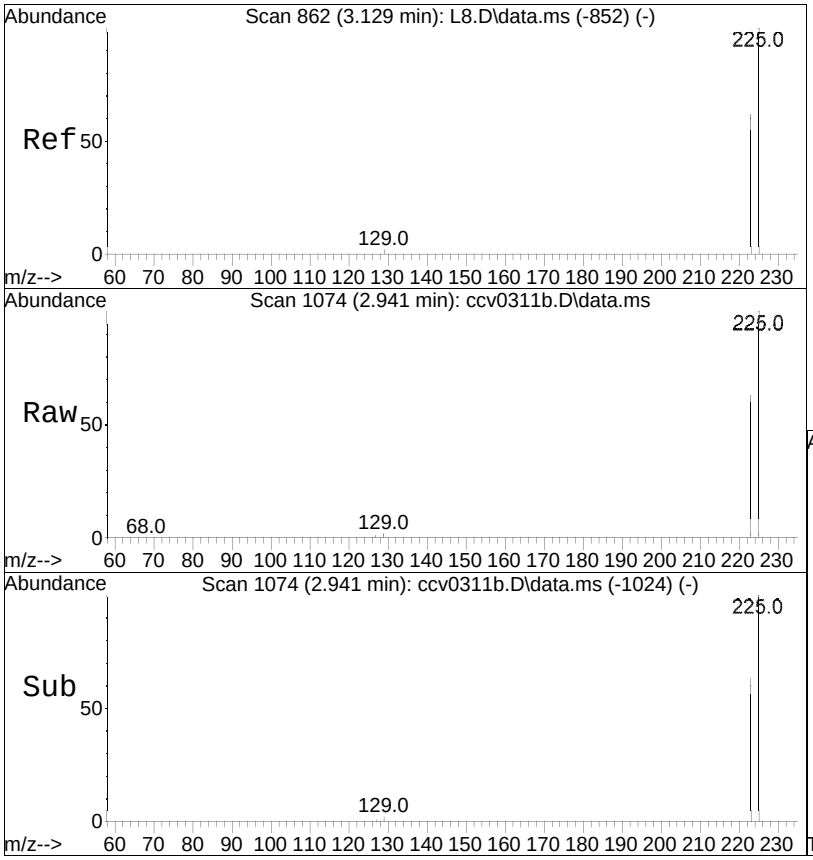


#10
Naphthalene
Concen: 865.71 ng/ml
RT: 2.874 min Scan# 1032
Delta R.T. 0.000 min
Lab File: ccv0311b.D
Acq: 11 Mar 2025 09:51 am

Tgt Ion:128 Resp: 295995

Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.0	13.6
127	13.2	10.5	15.7

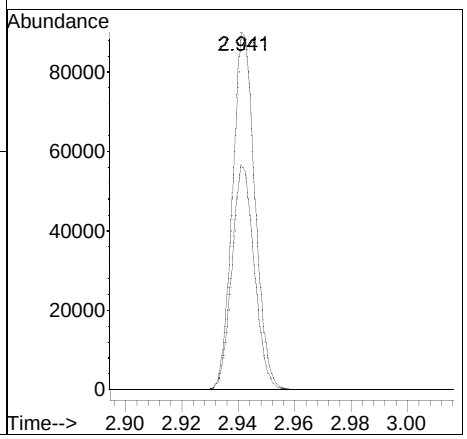


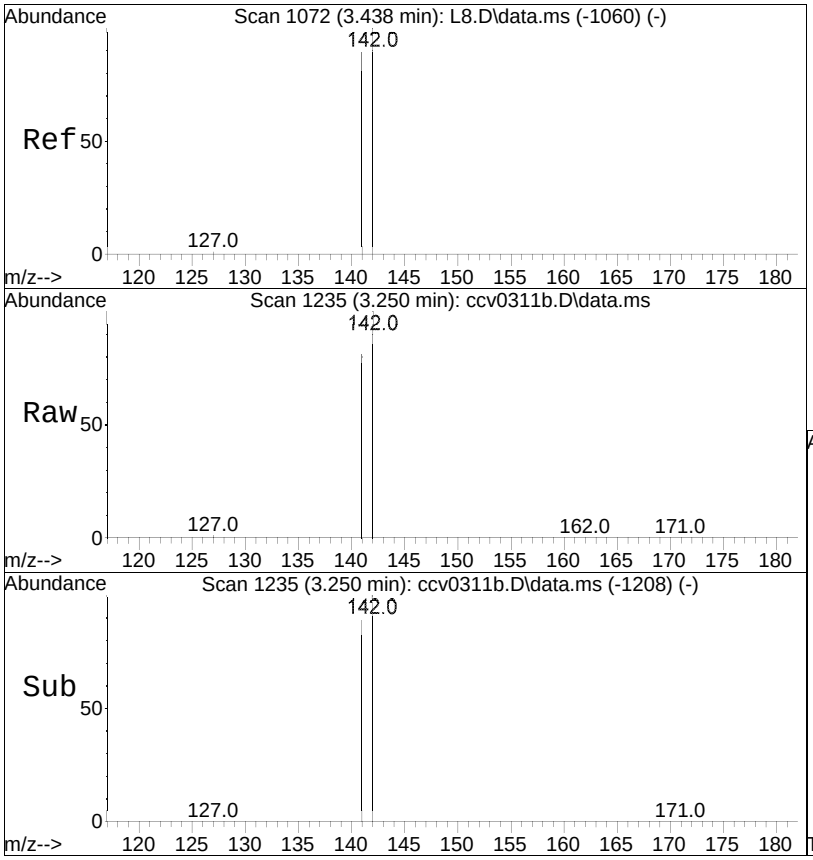


#11
Hexachlorobutadiene
Concen: 810.46 ng/ml
RT: 2.941 min Scan# 1074
Delta R.T. 0.000 min
Lab File: ccv0311b.D
Acq: 11 Mar 2025 09:51 am

Tgt Ion:225 Resp: 48766

Ion	Ratio	Lower	Upper
225	100		
223	62.8	50.4	75.6

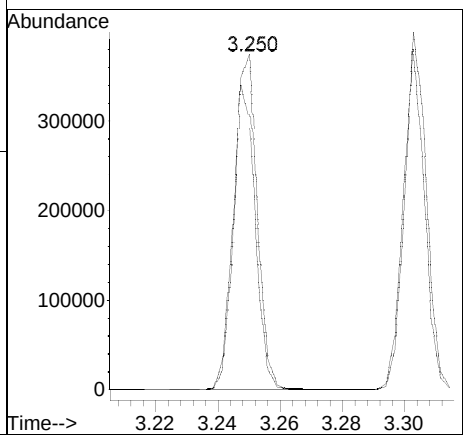


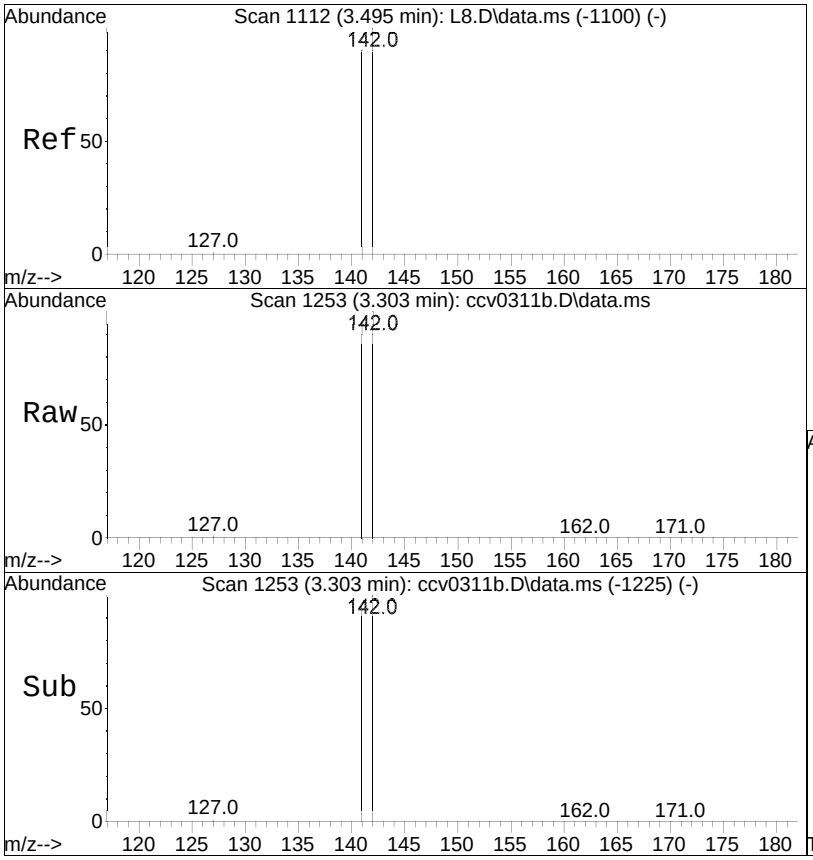


#12
2-Methylnaphthalene
Concen: 795.47 ng/ml
RT: 3.250 min Scan# 1235
Delta R.T. 0.000 min
Lab File: ccv0311b.D
Acq: 11 Mar 2025 09:51 am

Tgt Ion:142 Resp: 190063

Ion	Ratio	Lower	Upper
142	100		
141	90.2	71.3	106.9

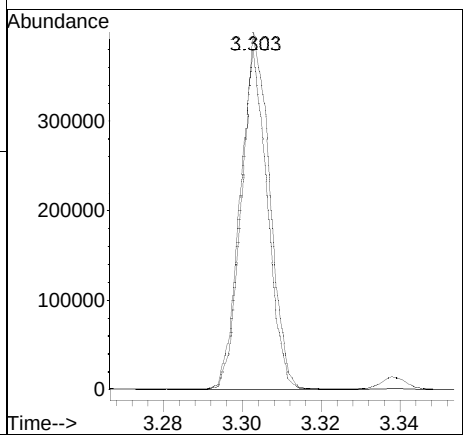


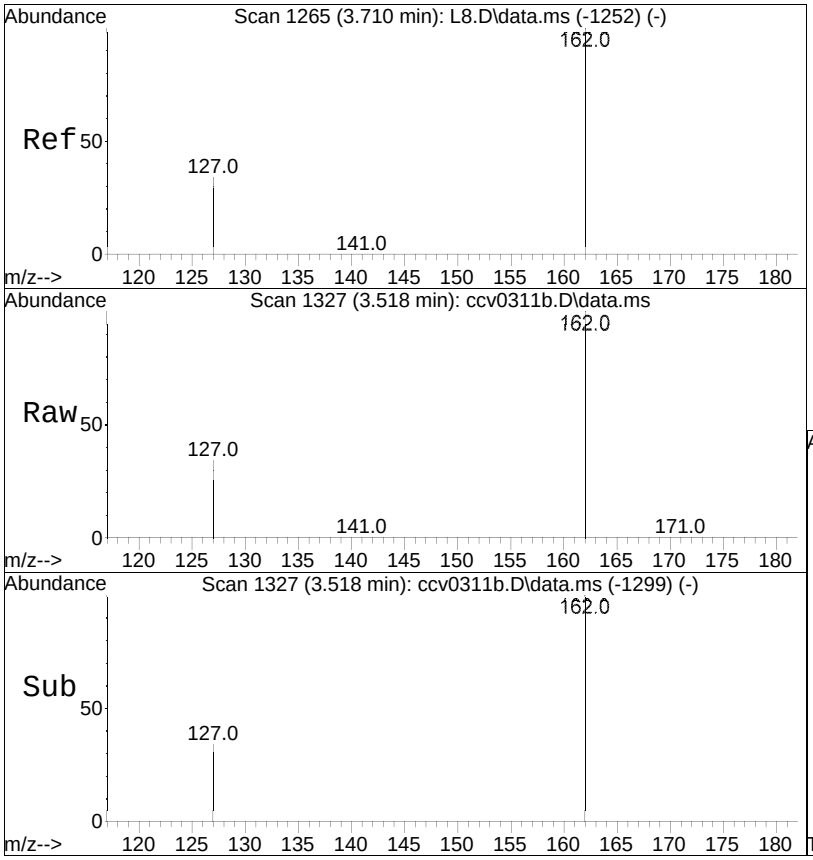


#13
1-Methylnaphthalene
Concen: 876.41 ng/ml
RT: 3.303 min Scan# 1253
Delta R.T. 0.000 min
Lab File: ccv0311b.D
Acq: 11 Mar 2025 09:51 am

Tgt Ion:142 Resp: 192811

Ion	Ratio	Lower	Upper
142	100		
141	93.8	73.8	110.6

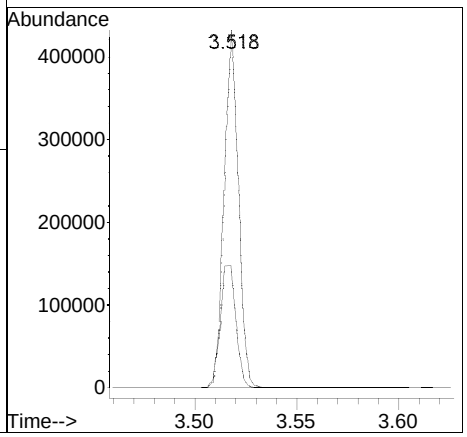


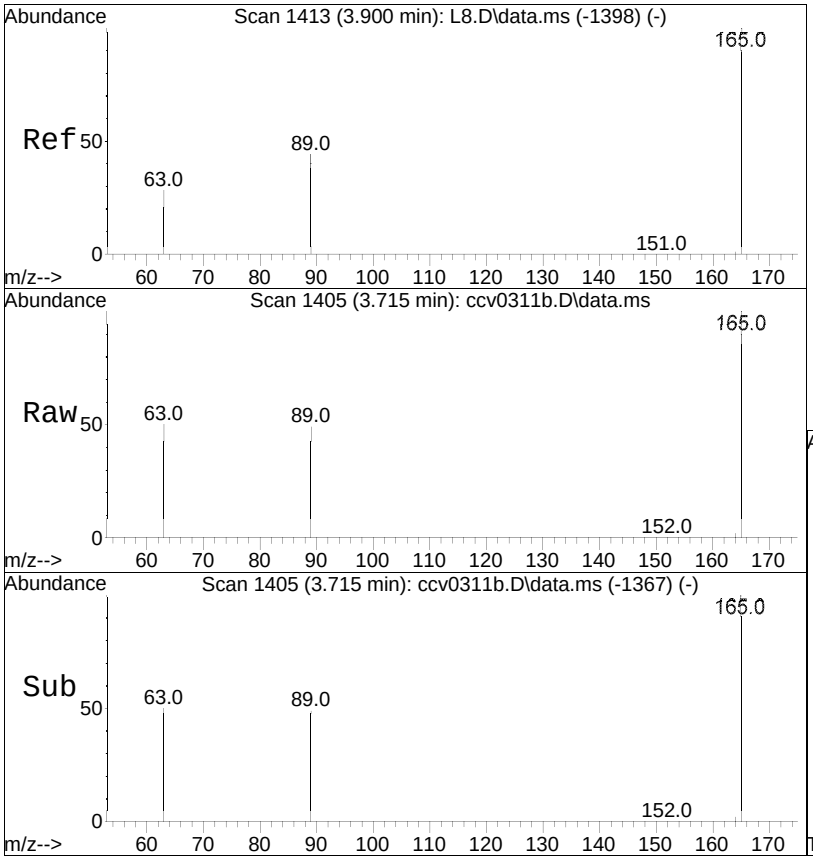


#15
2-Chloronaphthalene
Concen: 824.84 ng/ml
RT: 3.518 min Scan# 1327
Delta R.T. 0.000 min
Lab File: ccv0311b.D
Acq: 11 Mar 2025 09:51 am

Tgt Ion:162 Resp: 203544

Ion	Ratio	Lower	Upper
162	100		
127	38.0	27.4	41.0

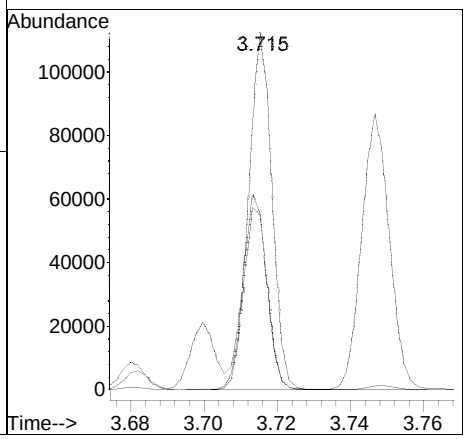


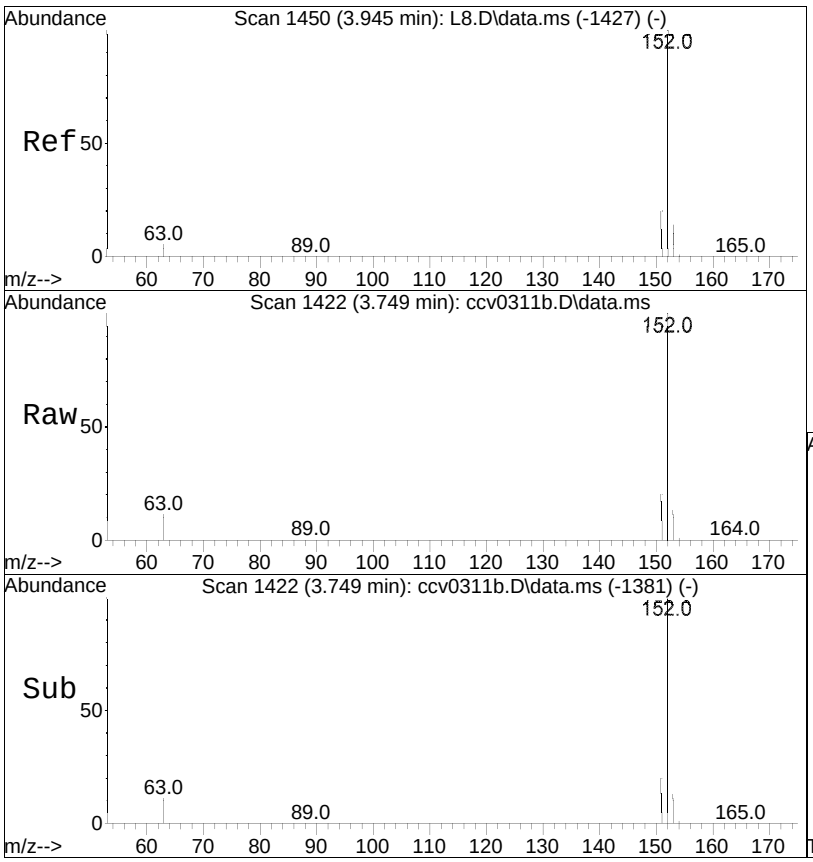


#16
2,6-Dinitrotoluene
Concen: 814.98 ng/ml
RT: 3.715 min Scan# 1405
Delta R.T. 0.000 min
Lab File: ccv0311b.D
Acq: 11 Mar 2025 09:51 am

Tgt Ion:165 Resp: 49561

Ion	Ratio	Lower	Upper
165	100		
89	53.4	37.8	56.8
63	56.0	36.9	55.3#

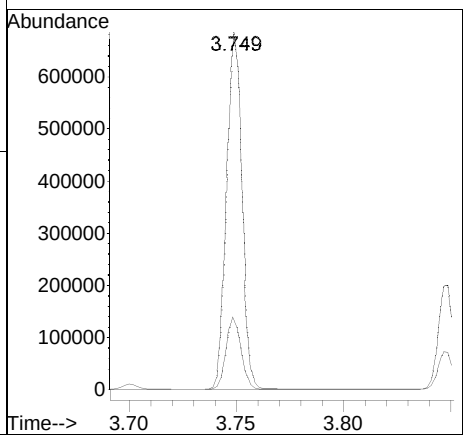


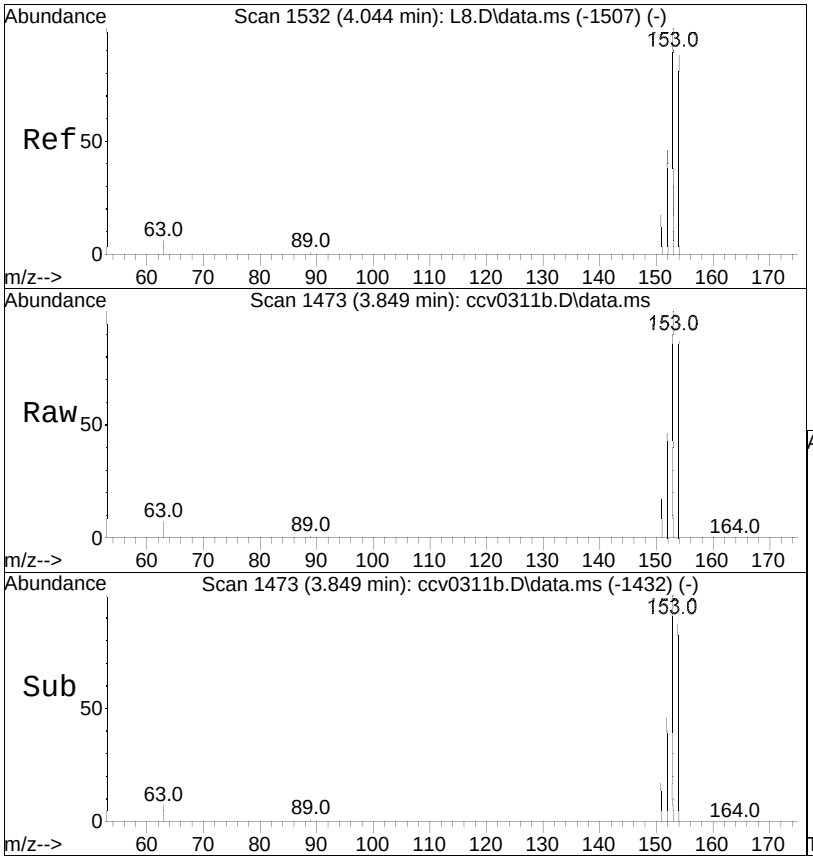


#17
Acenaphthylene
Concen: 887.64 ng/ml
RT: 3.749 min Scan# 1422
Delta R.T. 0.000 min
Lab File: ccv0311b.D
Acq: 11 Mar 2025 09:51 am

Tgt Ion:152 Resp: 339215

Ion	Ratio	Lower	Upper
152	100		
151	20.0	15.9	23.9

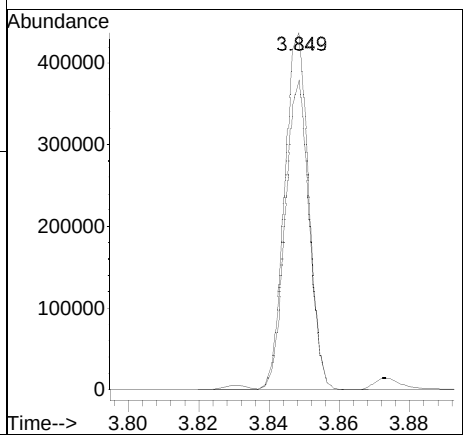


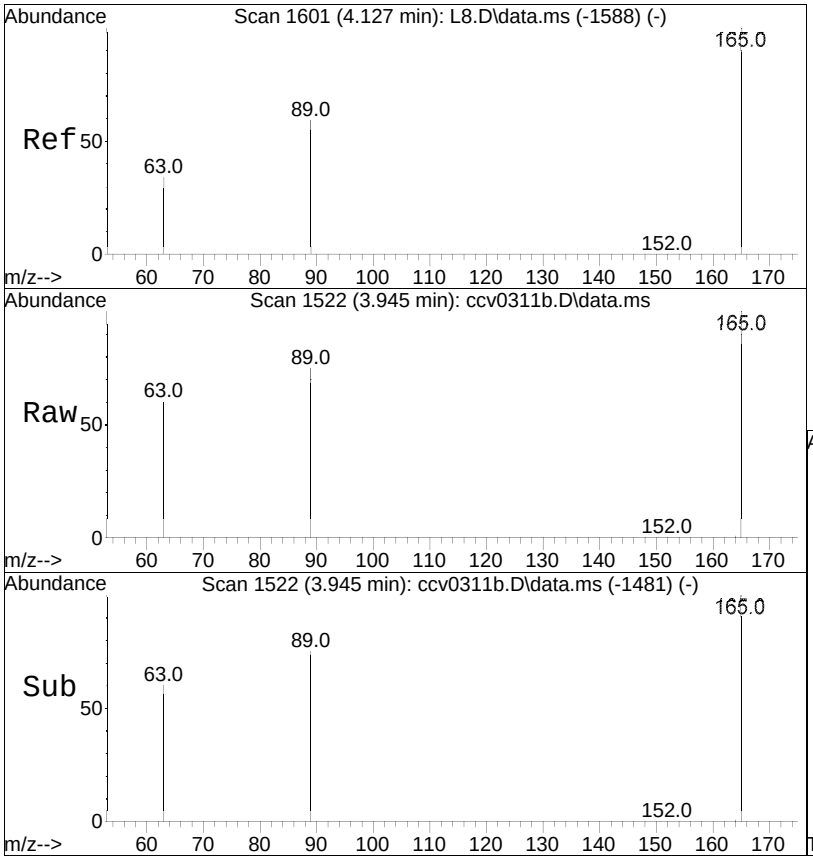


#19
Acenaphthene
Concen: 900.89 ng/ml
RT: 3.849 min Scan# 1473
Delta R.T. 0.000 min
Lab File: ccv0311b.D
Acq: 11 Mar 2025 09:51 am

Tgt Ion:153 Resp: 206762

Ion	Ratio	Lower	Upper
153	100		
154	85.6	73.1	109.7

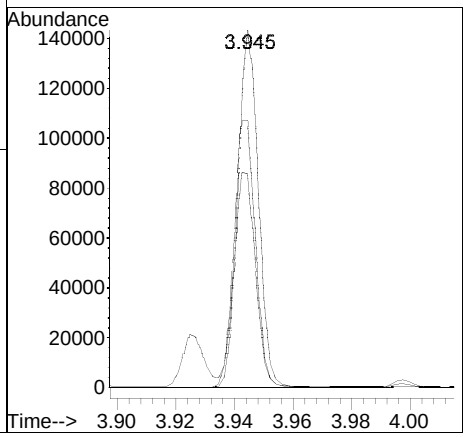


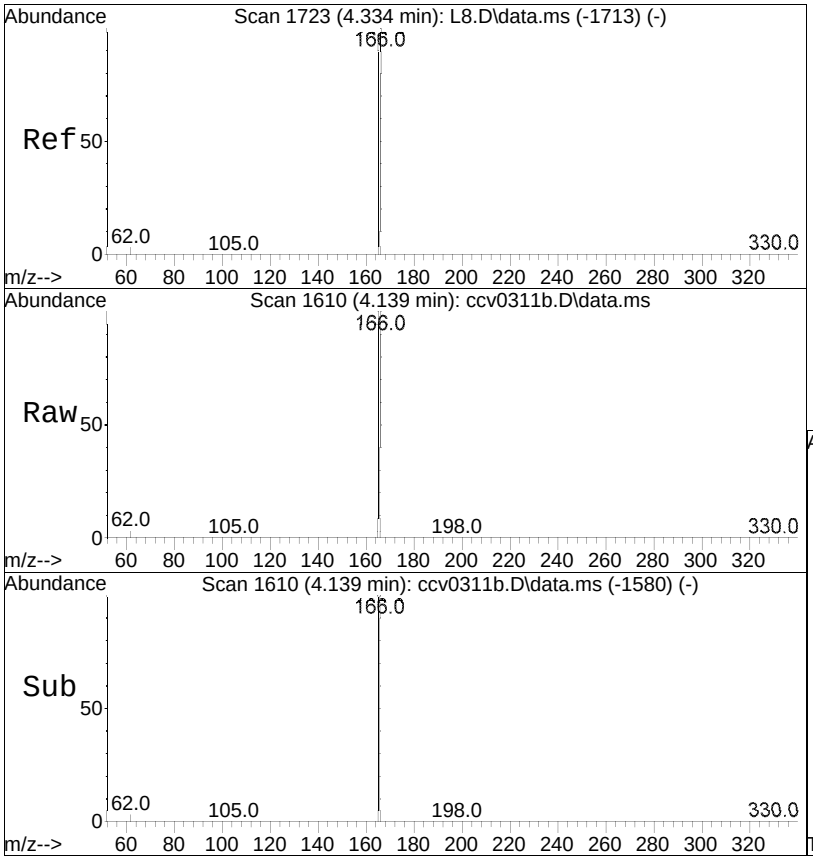


#20
2,4-Dinitrotoluene
Concen: 940.39 ng/ml
RT: 3.945 min Scan# 1522
Delta R.T. 0.000 min
Lab File: ccv0311b.D
Acq: 11 Mar 2025 09:51 am

Tgt Ion:165 Resp: 68656

Ion	Ratio	Lower	Upper
165	100		
89	77.6	48.7	73.1#
63	63.3	28.6	42.8#

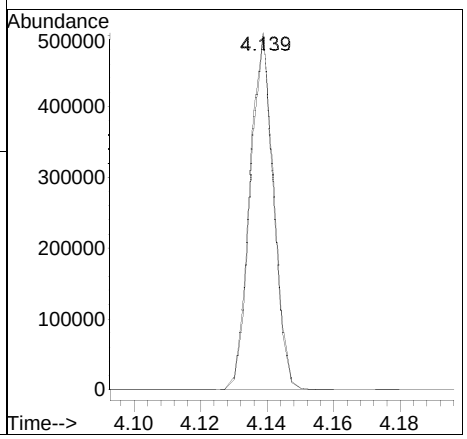


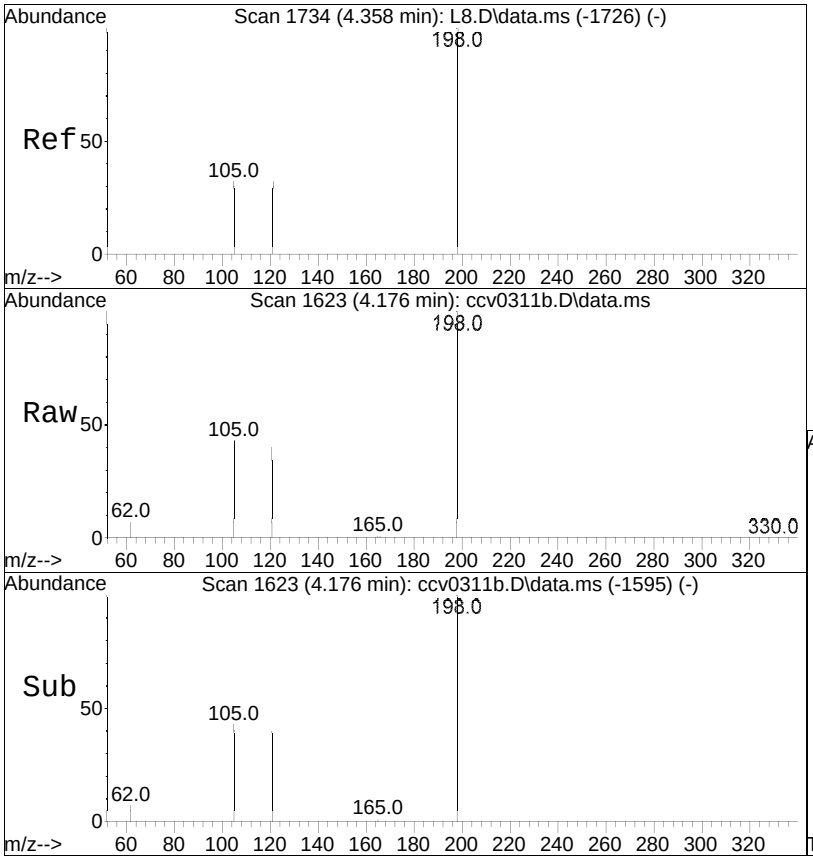


#21
Fluorene
Concen: 930.30 ng/ml
RT: 4.139 min Scan# 1610
Delta R.T. 0.000 min
Lab File: ccv0311b.D
Acq: 11 Mar 2025 09:51 am

Tgt Ion:166 Resp: 245306

Ion	Ratio	Lower	Upper
166	100		
165	101.1	77.8	116.8

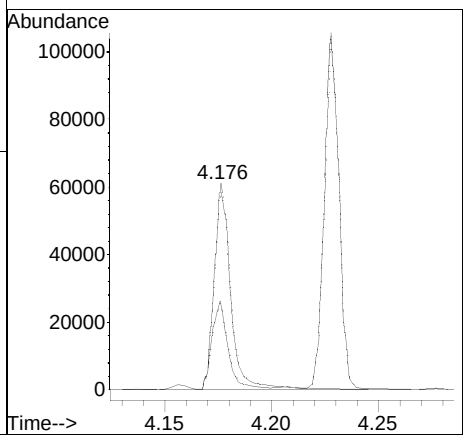


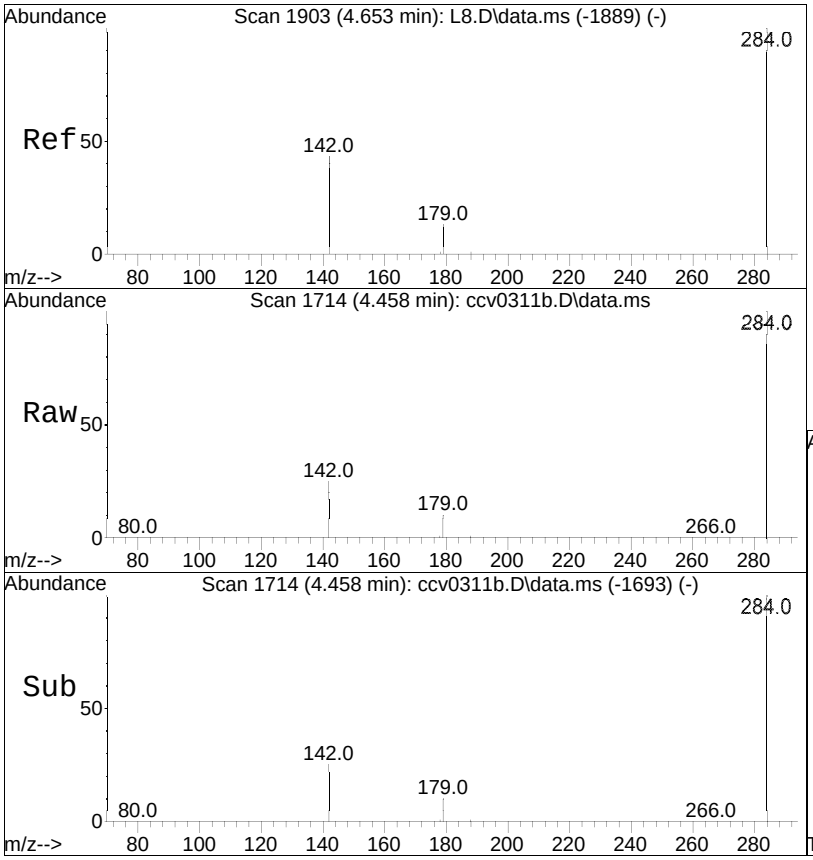


#24
4,6-Dinitro-o-cresol
Concen: 718.09 ng/ml
RT: 4.176 min Scan# 1623
Delta R.T. 0.000 min
Lab File: ccv0311b.D
Acq: 11 Mar 2025 09:51 am

Tgt Ion:198 Resp: 32888

Ion	Ratio	Lower	Upper
198	100		
105	41.1	30.6	45.8

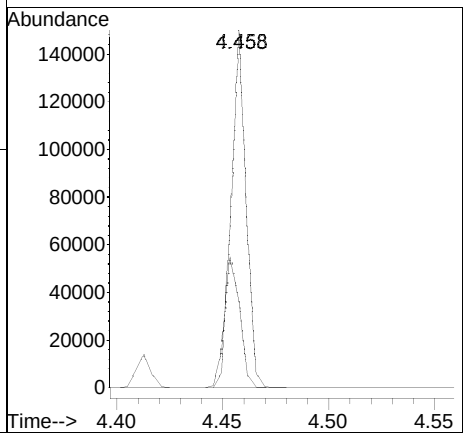


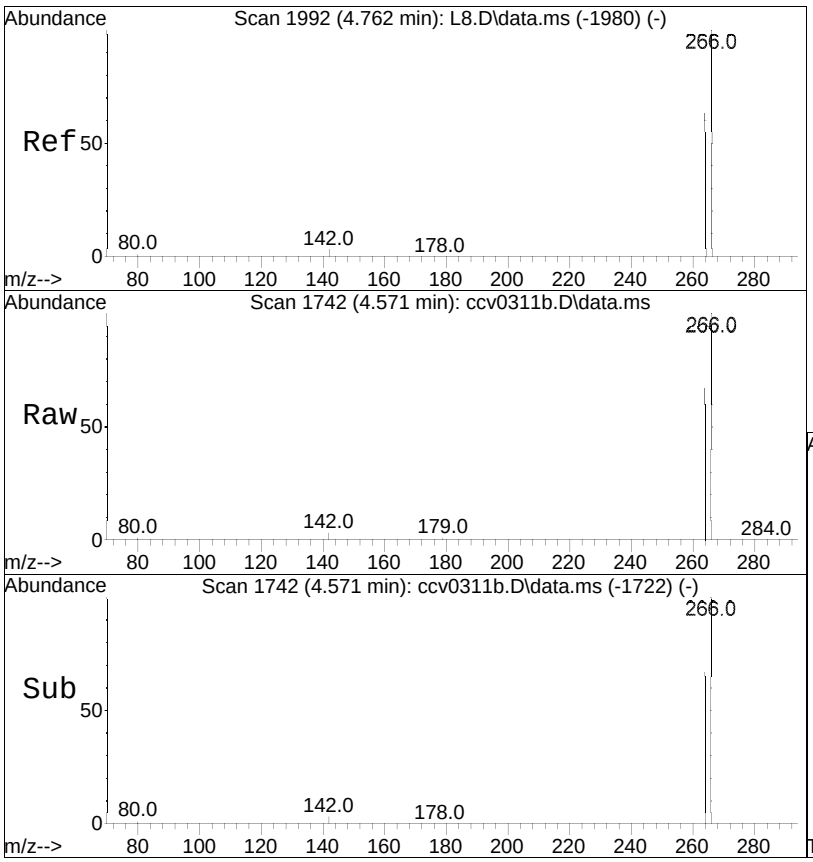


#25
Hexachlorobenzene
Concen: 857.39 ng/ml
RT: 4.458 min Scan# 1714
Delta R.T. 0.000 min
Lab File: ccv0311b.D
Acq: 11 Mar 2025 09:51 am

Tgt Ion:284 Resp: 71306

Ion	Ratio	Lower	Upper
284	100		
142	39.1	33.8	50.6

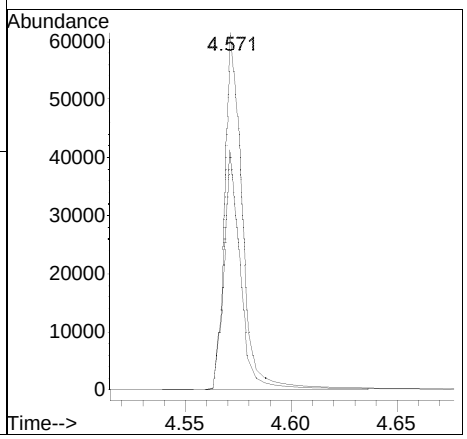


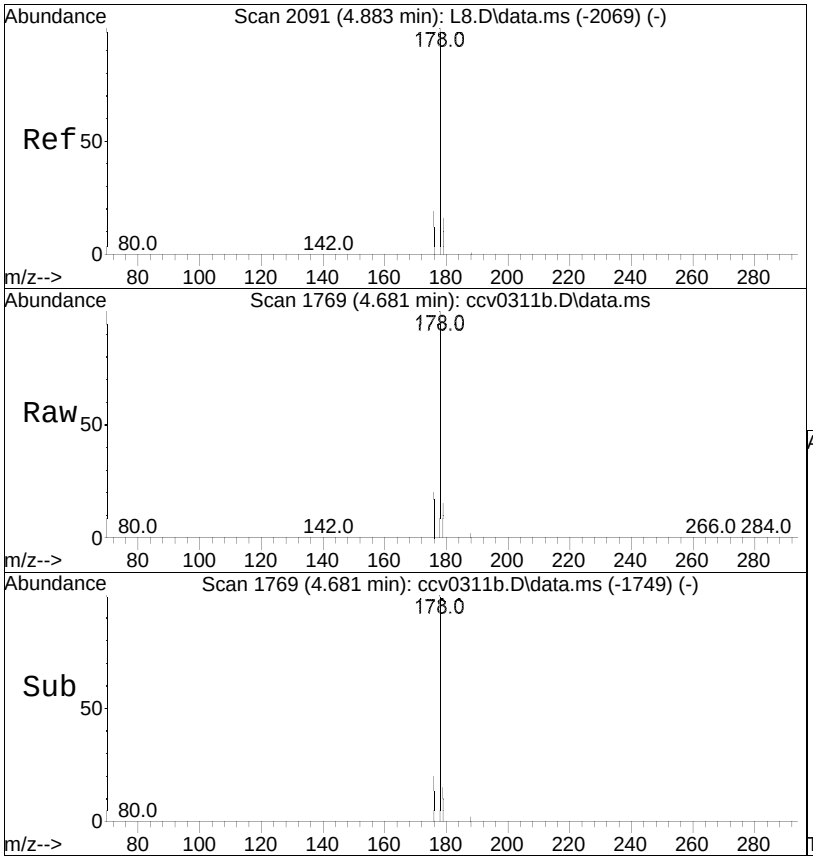


#26
Pentachlorophenol
Concen: 839.23 ng/ml
RT: 4.571 min Scan# 1742
Delta R.T. 0.000 min
Lab File: ccv0311b.D
Acq: 11 Mar 2025 09:51 am

Tgt Ion:266 Resp: 35032

Ion	Ratio	Lower	Upper
266	100		
264	63.6	50.8	76.2

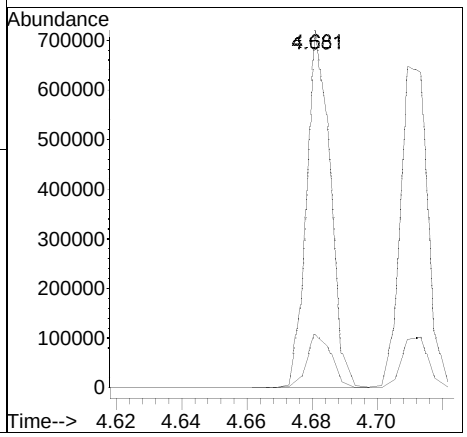


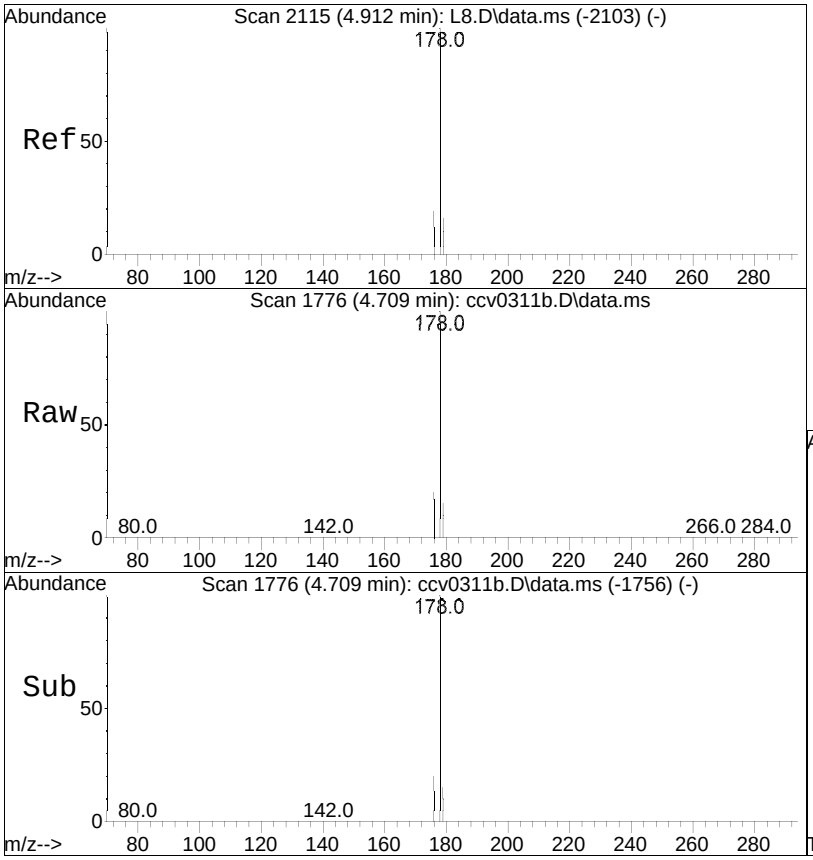


#27
Phenanthrene
Concen: 885.57 ng/ml
RT: 4.681 min Scan# 1769
Delta R.T. 0.000 min
Lab File: ccv0311b.D
Acq: 11 Mar 2025 09:51 am

Tgt Ion:178 Resp: 365326

Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.8	19.2

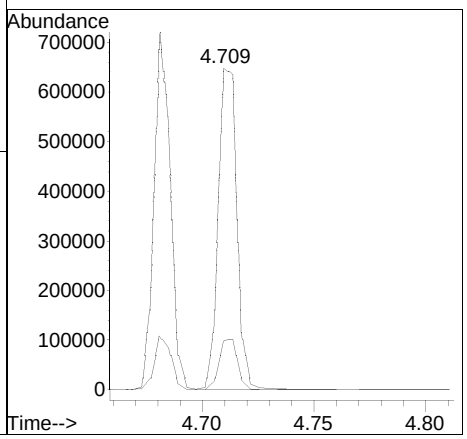


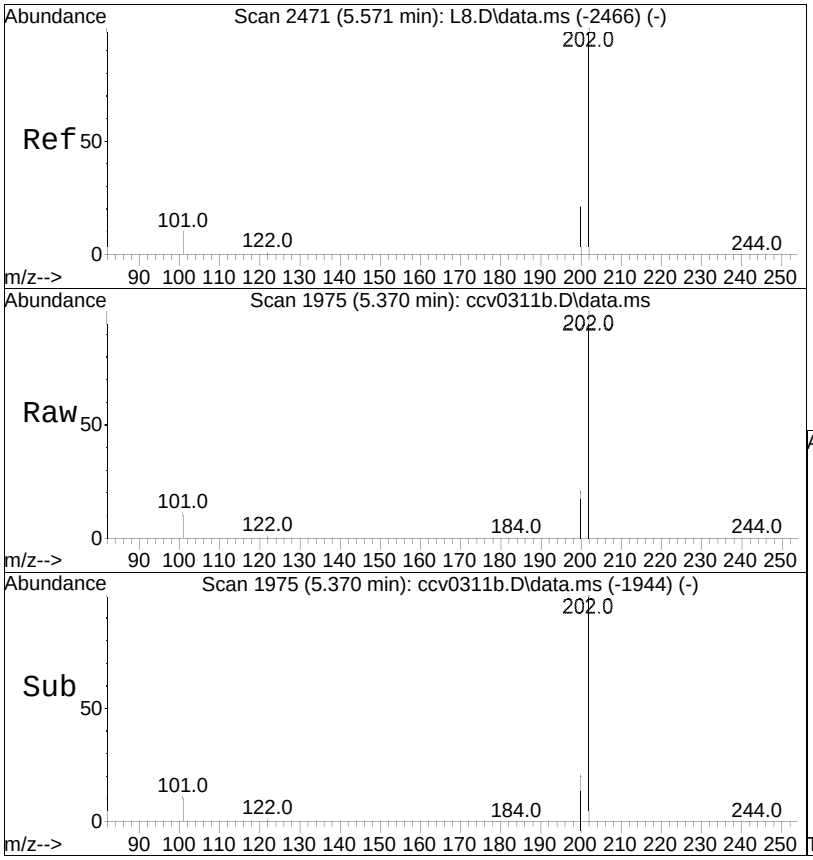


#28
Anthracene
Concen: 912.35 ng/ml
RT: 4.709 min Scan# 1776
Delta R.T. 0.000 min
Lab File: ccv0311b.D
Acq: 11 Mar 2025 09:51 am

Tgt Ion:178 Resp: 377353

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.6	18.8

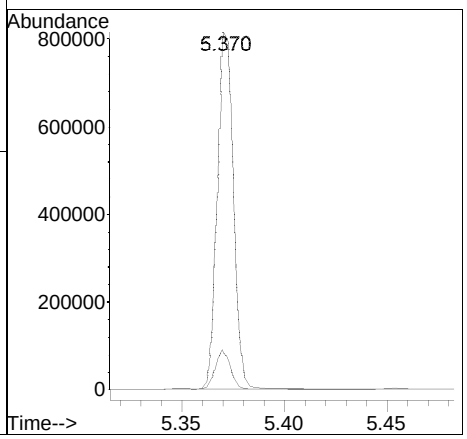


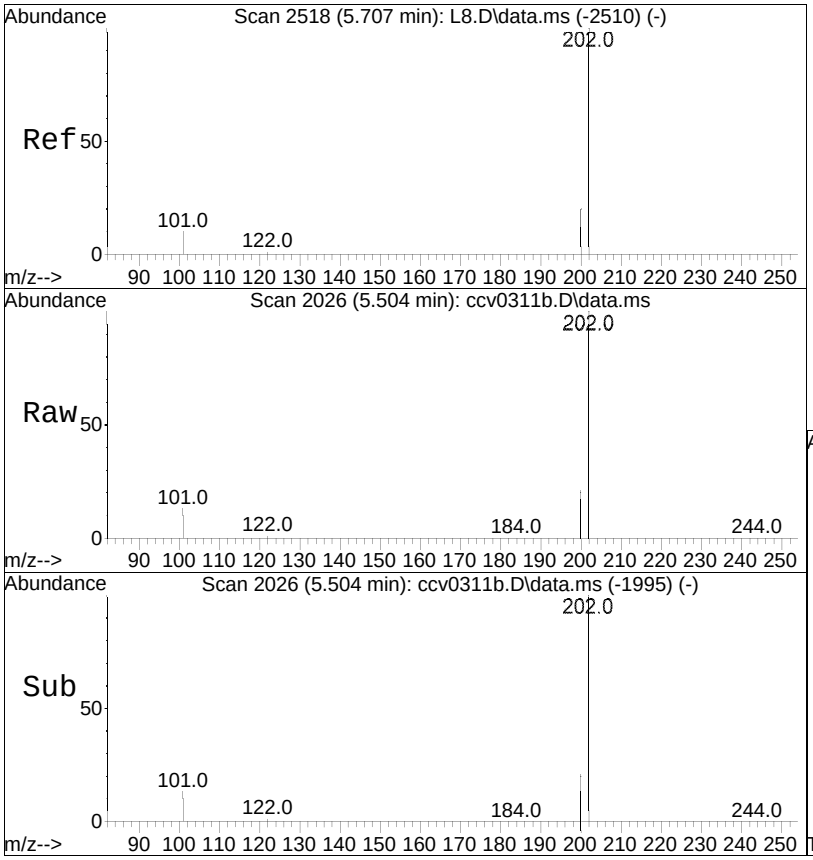


#29
Fluoranthene
Concen: 852.17 ng/ml
RT: 5.370 min Scan# 1975
Delta R.T. 0.000 min
Lab File: ccv0311b.D
Acq: 11 Mar 2025 09:51 am

Tgt Ion:202 Resp: 439818

Ion	Ratio	Lower	Upper
202	100		
101	10.6	8.2	12.2

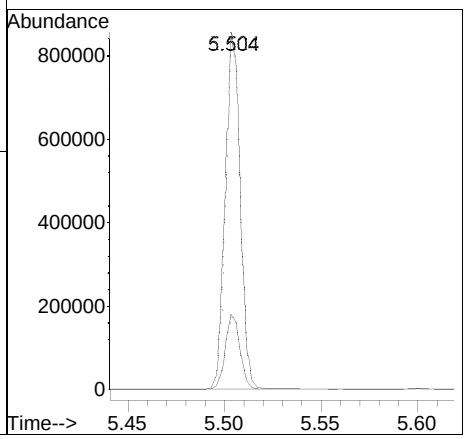


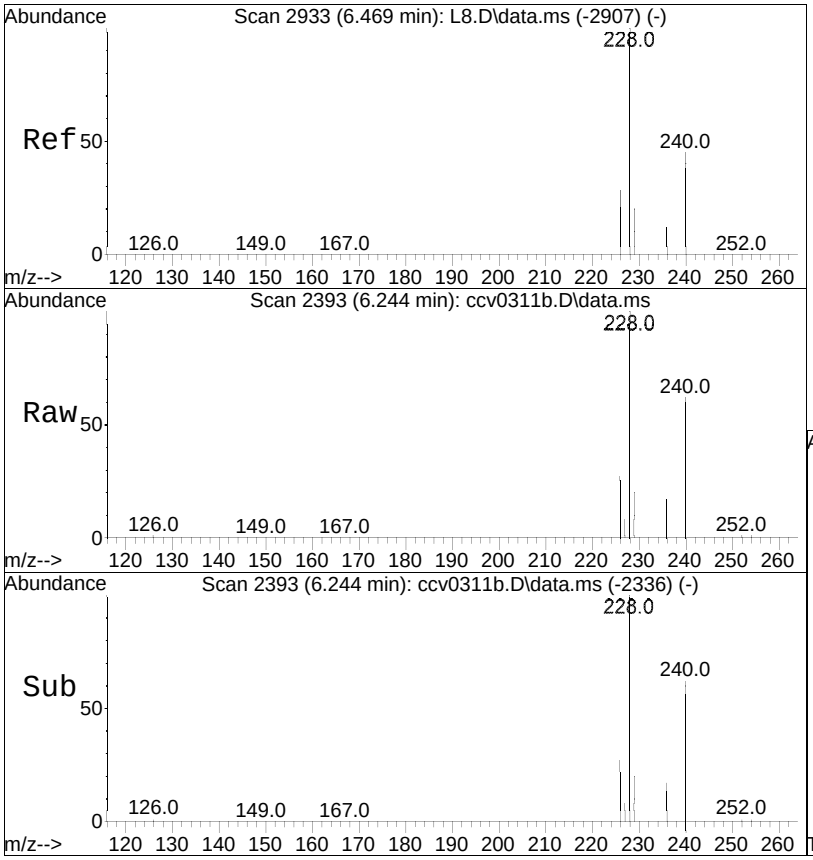


#30
Pyrene
Concen: 846.55 ng/ml
RT: 5.504 min Scan# 2026
Delta R.T. 0.000 min
Lab File: ccv0311b.D
Acq: 11 Mar 2025 09:51 am

Tgt Ion:202 Resp: 450985

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.9	25.3

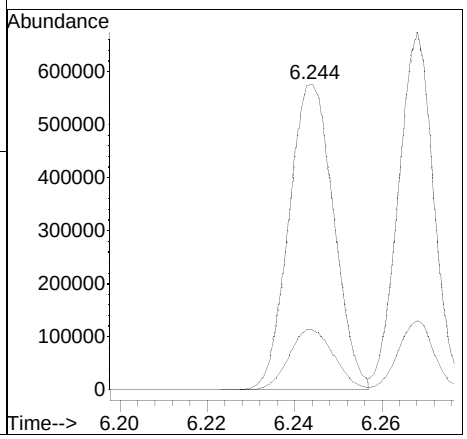


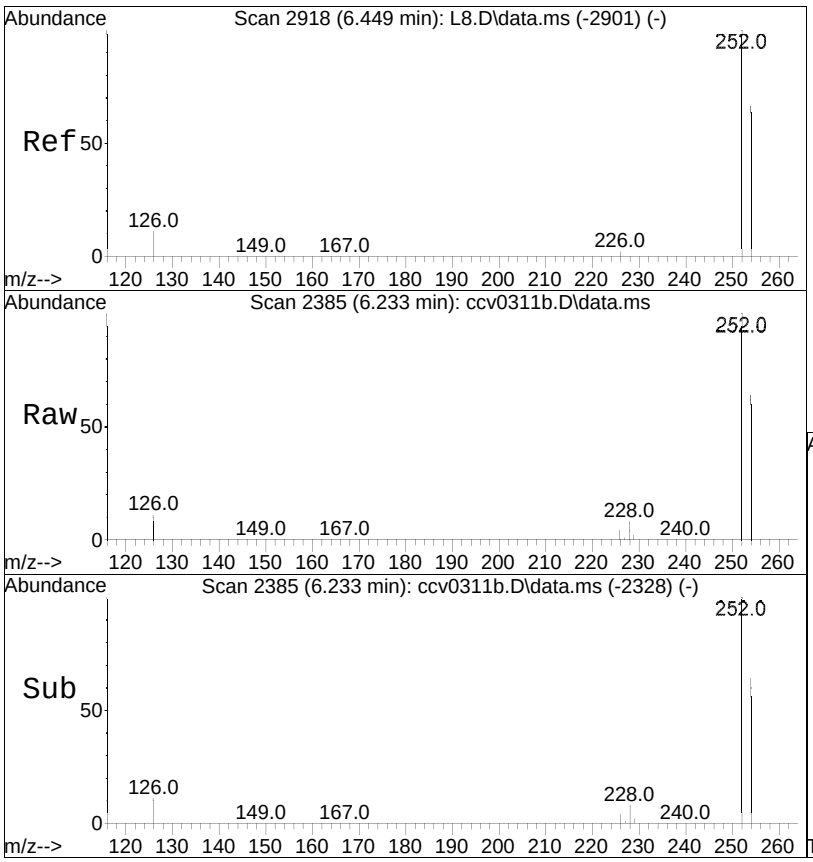


#34
Benzo[a]anthracene
Concen: 901.89 ng/ml
RT: 6.244 min Scan# 2393
Delta R.T. 0.000 min
Lab File: ccv0311b.D
Acq: 11 Mar 2025 09:51 am

Tgt Ion:228 Resp: 410502

Ion	Ratio	Lower	Upper
228	100		
229	19.7	15.9	23.9

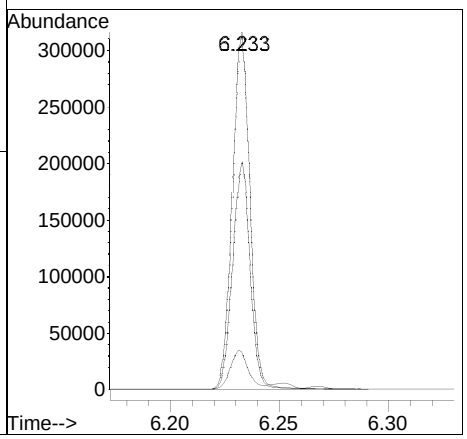


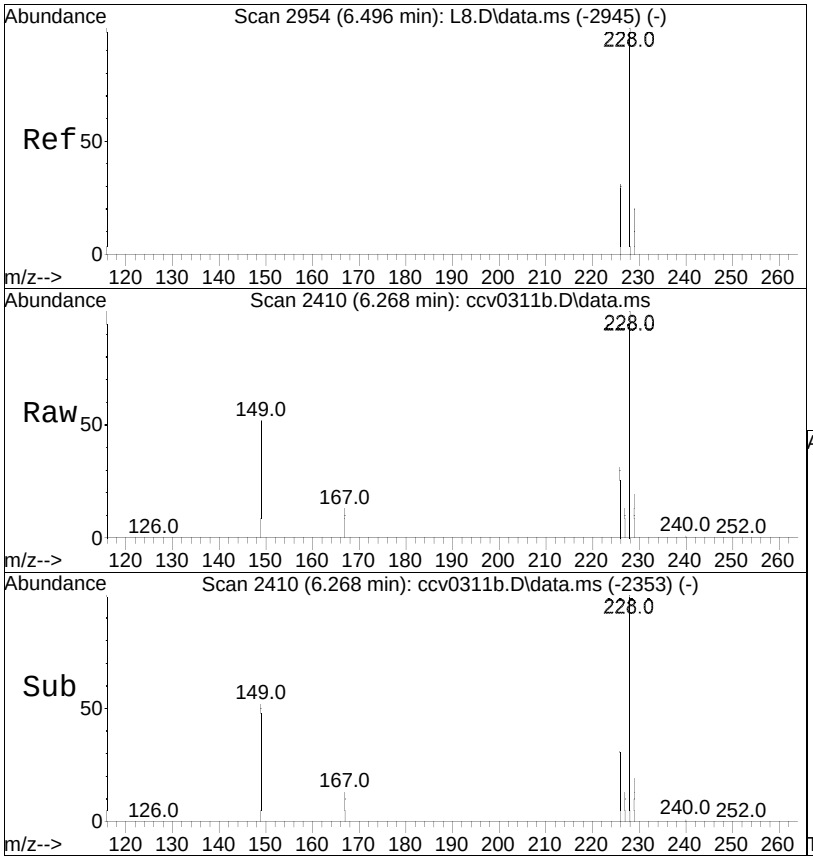


#35
3,3'-Dichlorobenzidine
Concen: 1067.56 ng/ml
RT: 6.233 min Scan# 2385
Delta R.T. 0.000 min
Lab File: ccv0311b.D
Acq: 11 Mar 2025 09:51 am

Tgt Ion:252 Resp: 172542

Ion	Ratio	Lower	Upper
252	100		
126	11.4	8.6	13.0
254	64.0	51.8	77.8

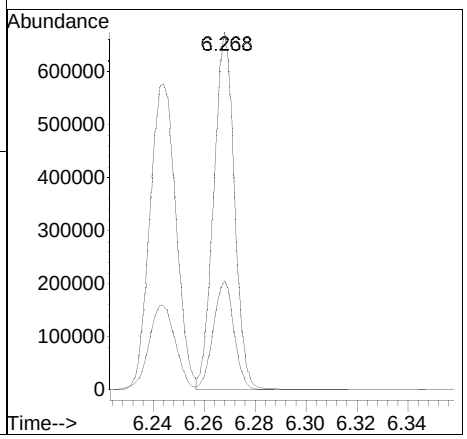


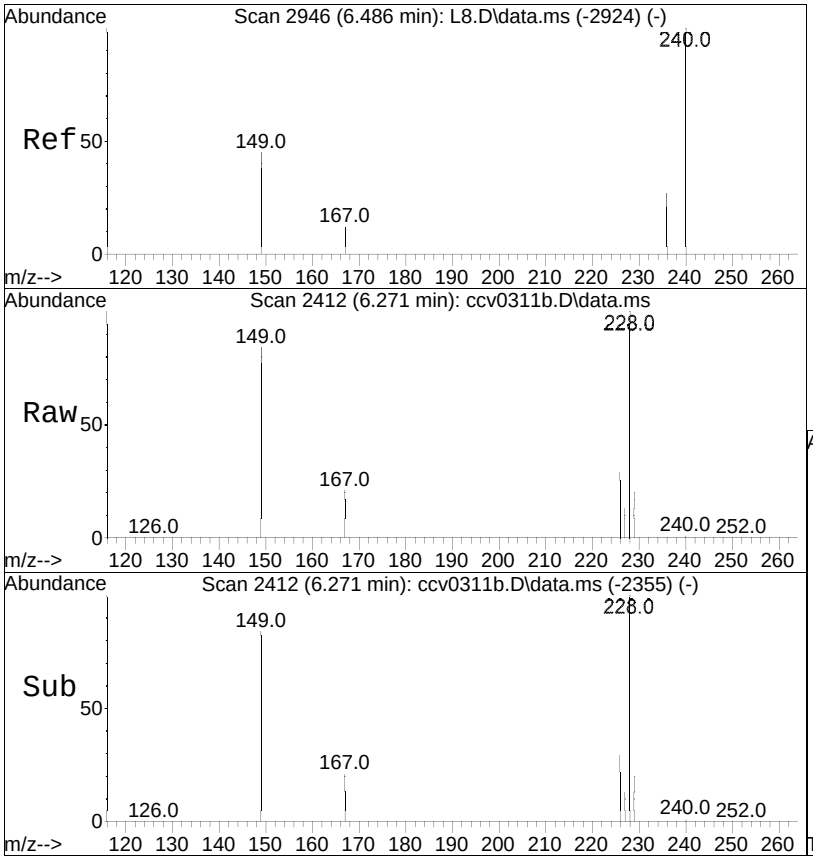


#36
Chrysene
Concen: 858.87 ng/ml
RT: 6.268 min Scan# 2410
Delta R.T. 0.000 min
Lab File: ccv0311b.D
Acq: 11 Mar 2025 09:51 am

Tgt Ion:228 Resp: 379661

Ion	Ratio	Lower	Upper
228	100		
226	30.5	24.4	36.6

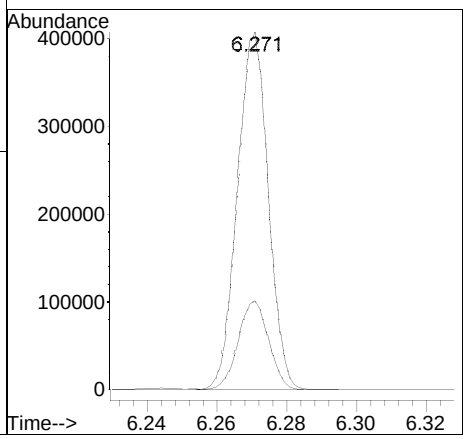


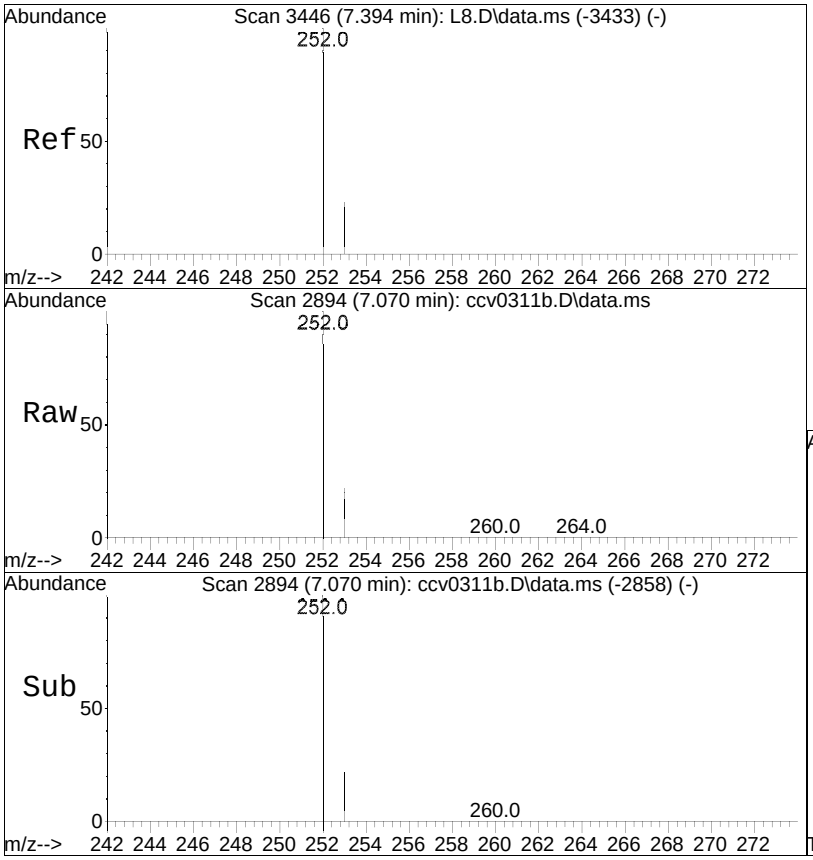


#37
Bis(2-ethylhexyl)phthalate
Concen: 1080.28 ng/ml
RT: 6.271 min Scan# 2412
Delta R.T. 0.000 min
Lab File: ccv0311b.D
Acq: 11 Mar 2025 09:51 am

Tgt Ion:149 Resp: 247731

Ion	Ratio	Lower	Upper
149	100		
167	24.6	20.7	31.1

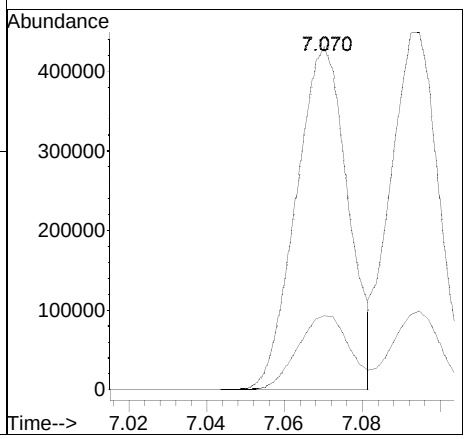


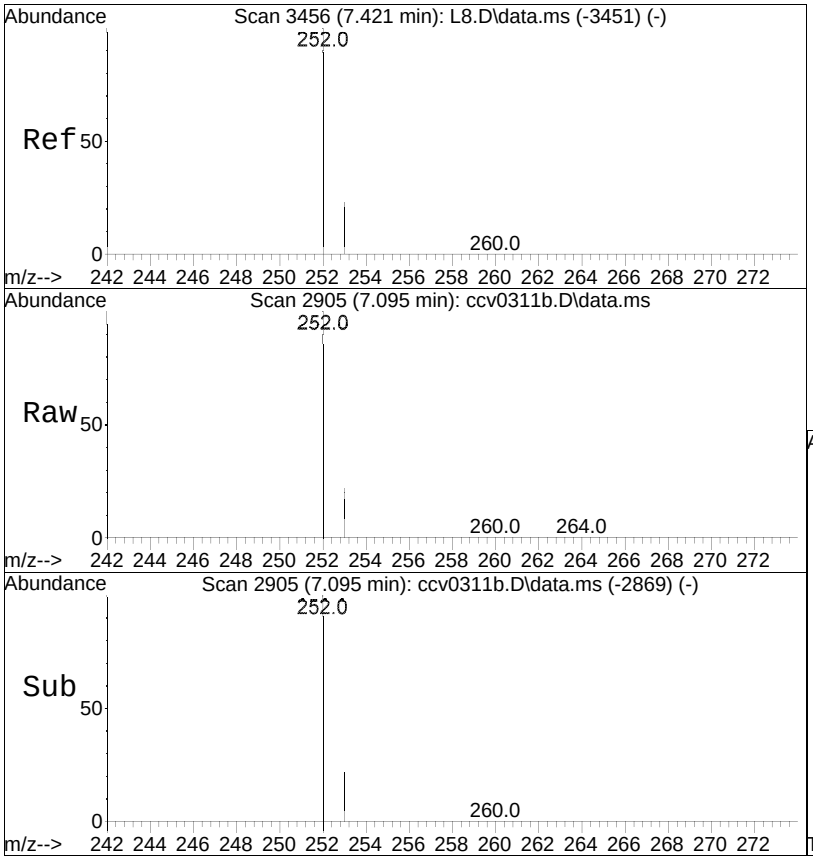


#39
Benzo[b]fluoranthene
Concen: 908.06 ng/ml
RT: 7.070 min Scan# 2894
Delta R.T. 0.000 min
Lab File: ccv0311b.D
Acq: 11 Mar 2025 09:51 am

Tgt Ion:252 Resp: 399540

Ion	Ratio	Lower	Upper
252	100		
253	21.8	18.1	27.1

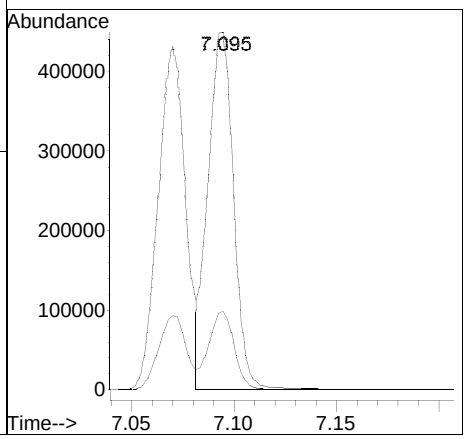


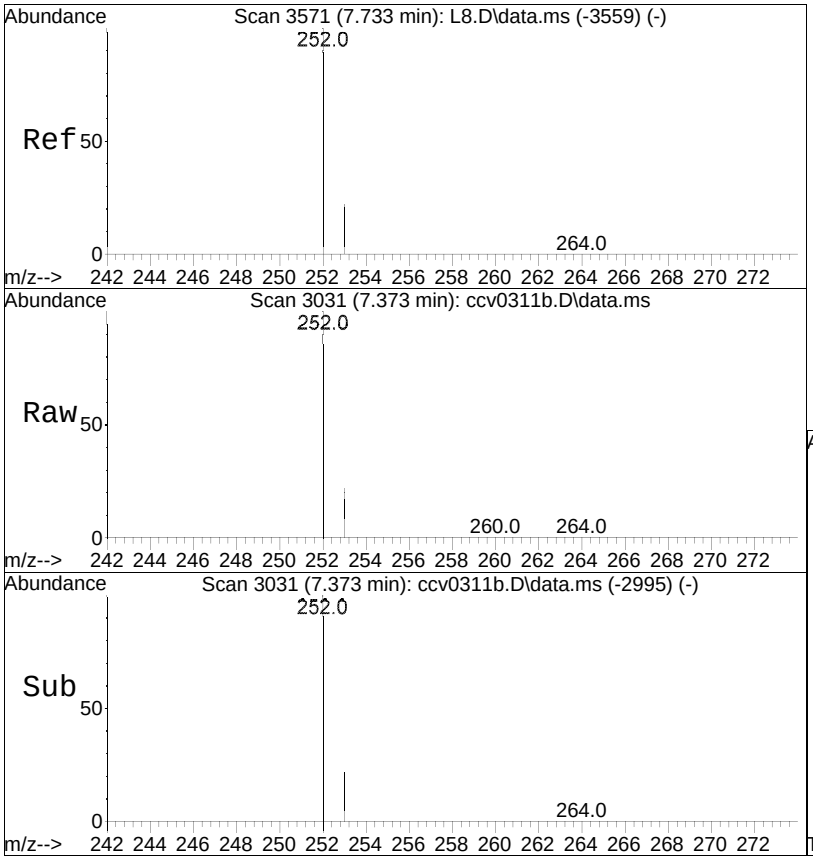


#40
Benzo[k]fluoranthene
Concen: 896.68 ng/ml
RT: 7.095 min Scan# 2905
Delta R.T. 0.000 min
Lab File: ccv0311b.D
Acq: 11 Mar 2025 09:51 am

Tgt Ion:252 Resp: 389064

Ion	Ratio	Lower	Upper
252	100		
253	22.0	18.2	27.2

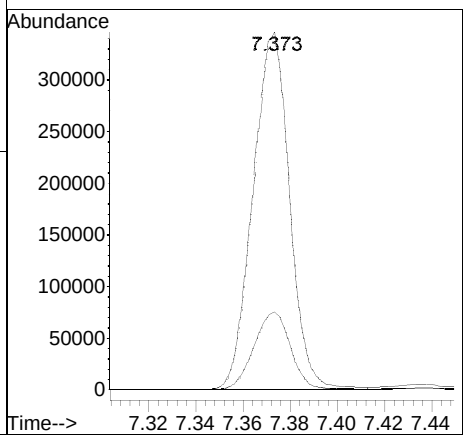


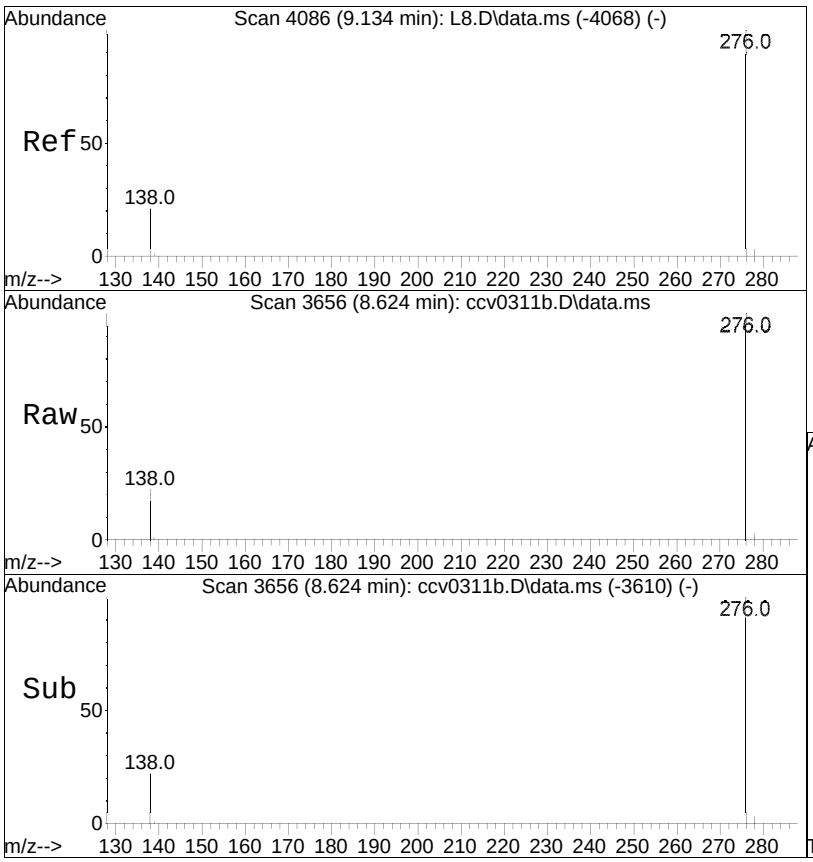


#41
Benzo[a]pyrene
Concen: 989.16 ng/ml
RT: 7.373 min Scan# 3031
Delta R.T. 0.000 min
Lab File: ccv0311b.D
Acq: 11 Mar 2025 09:51 am

Tgt Ion:252 Resp: 369301

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.9	26.9

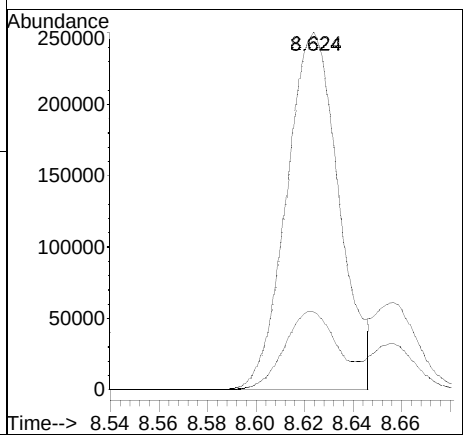


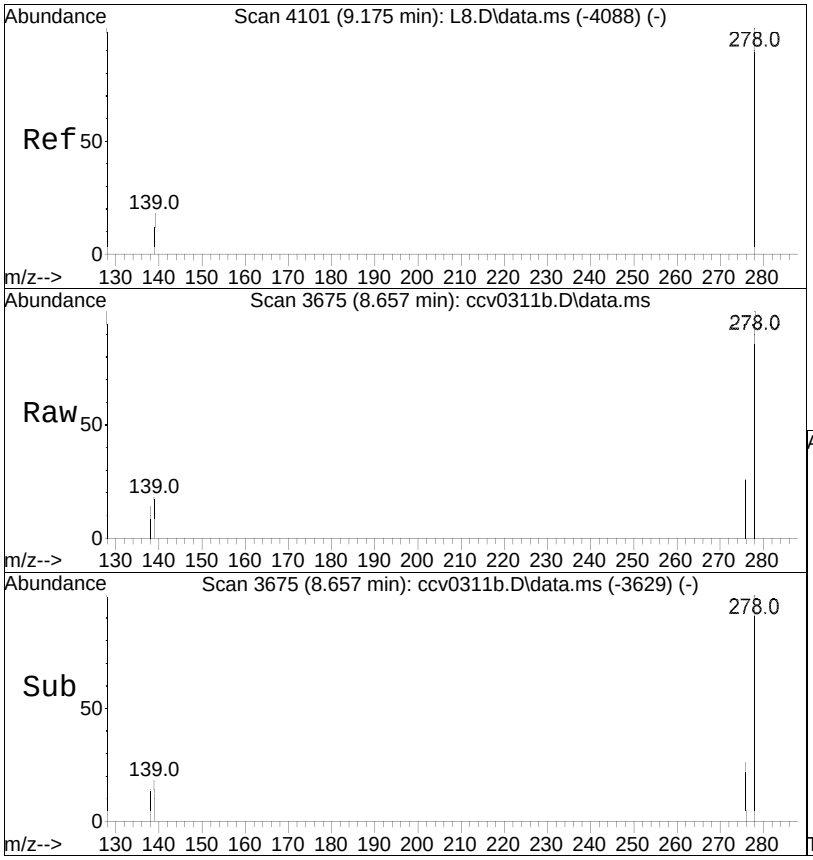


#42
Indeno[1,2,3-cd]pyrene
Concen: 1031.39 ng/ml
RT: 8.624 min Scan# 3656
Delta R.T. 0.000 min
Lab File: ccv0311b.D
Acq: 11 Mar 2025 09:51 am

Tgt Ion:276 Resp: 372791

Ion	Ratio	Lower	Upper
276	100		
138	21.9	16.9	25.3

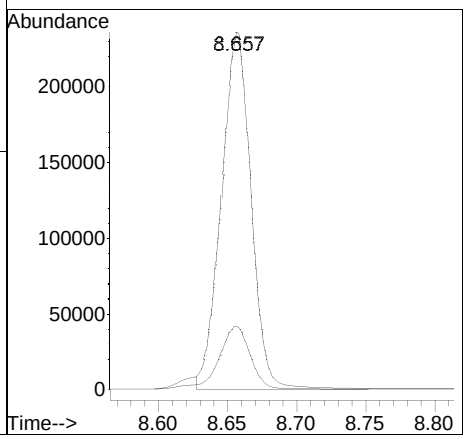


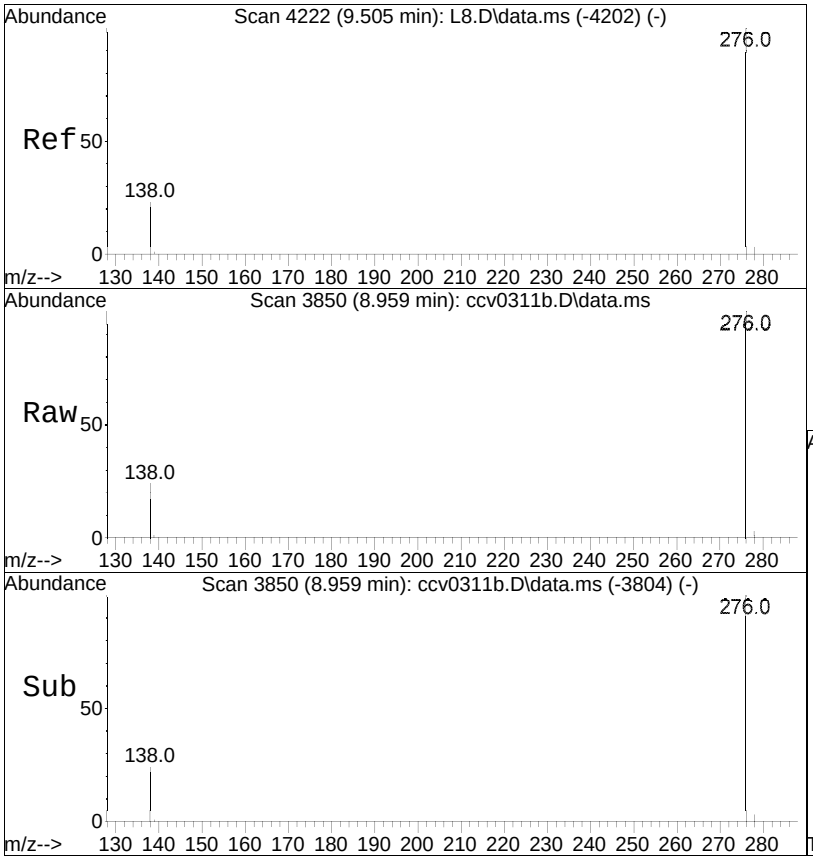


#43
Dibenzo[a,h]anthracene
Concen: 1044.56 ng/ml M6
RT: 8.657 min Scan# 3675
Delta R.T. 0.000 min
Lab File: ccv0311b.D
Acq: 11 Mar 2025 09:51 am

Tgt Ion:278 Resp: 350248

Ion	Ratio	Lower	Upper
278	100		
139	18.9	14.6	22.0

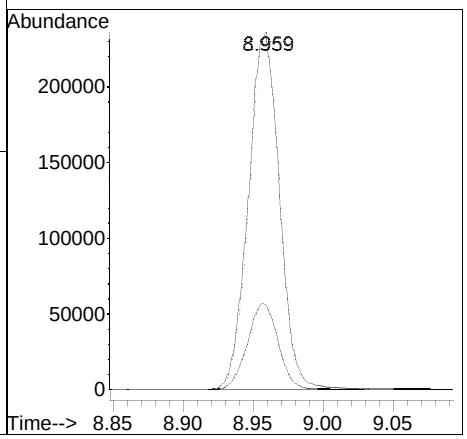




#44
Benzo[g,h,i]perylene
Concen: 1040.85 ng/ml
RT: 8.959 min Scan# 3850
Delta R.T. 0.000 min
Lab File: ccv0311b.D
Acq: 11 Mar 2025 09:51 am

Tgt Ion:276 Resp: 358068

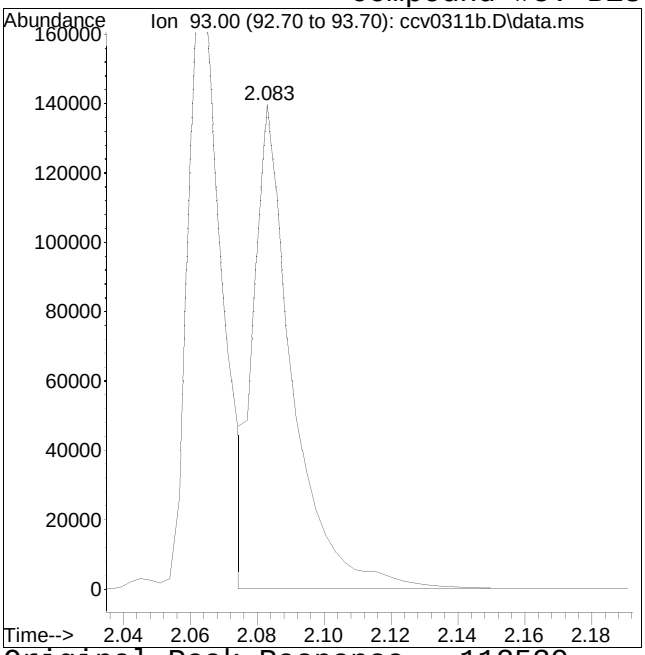
Ion	Ratio	Lower	Upper
276	100		
138	24.2	18.6	28.0



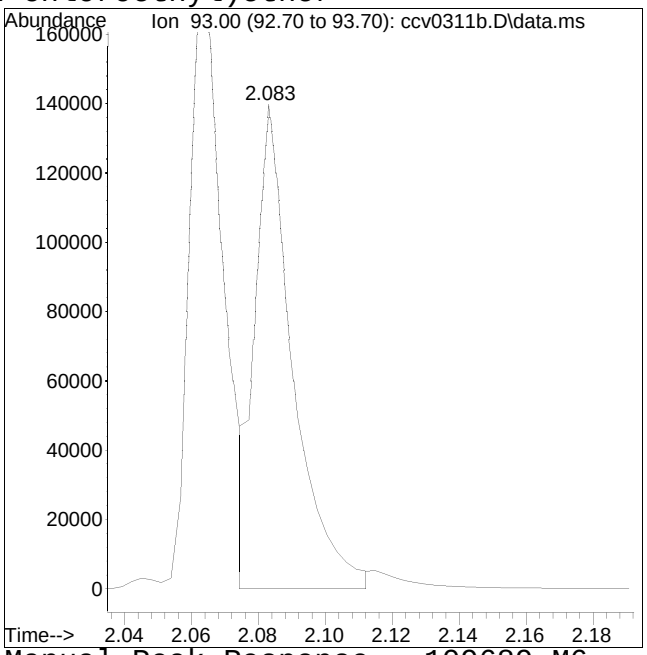
Manual Integration Report

Data Path : I:\8270SIM\sv119\250311bRVQMethod : SIM-RVT_241229_sv119.M
Data File : ccv0311b.D Operator : sv119:jjw
Date Inj'd : 3/11/2025 9:51 am Instrument : SV119
Sample : WG2039073-3,32,,ICV 11275 Quant Date : 3/11/2025 12:33 pm

Compound #5: Bis(2-chloroethyl)ether



Original Peak Response = 112539



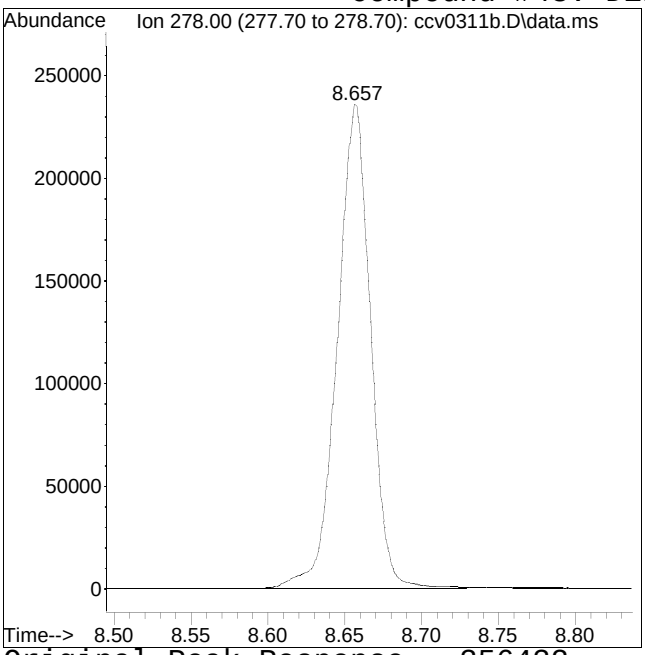
Manual Peak Response = 109689 M6

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

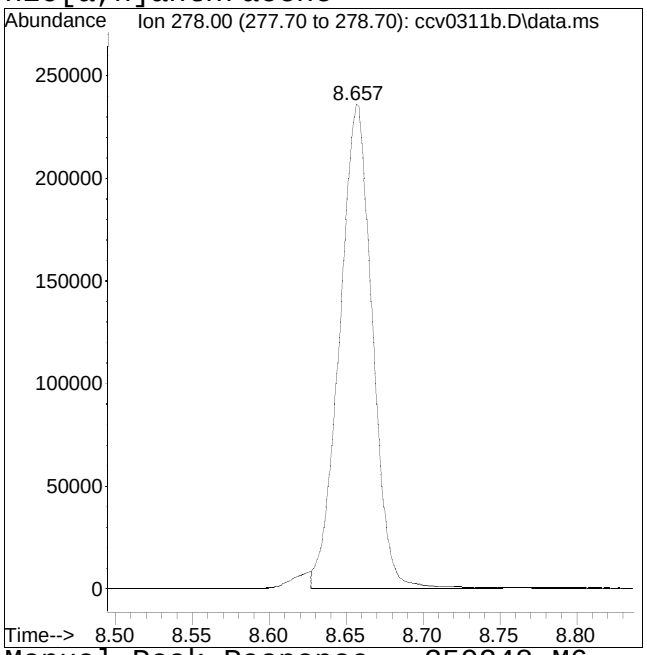
Manual Integration Report

Data Path : I:\8270SIM\sv119\250311bRVQMethod : SIM-RVT_241229_sv119.M
Data File : ccv0311b.D Operator : sv119:jjw
Date Inj'd : 3/11/2025 9:51 am Instrument : SV119
Sample : WG2039073-3,32,,ICV 11275 Quant Date : 3/11/2025 12:33 pm

Compound #43: Dibenzo[a,h]anthracene



Original Peak Response = 356432



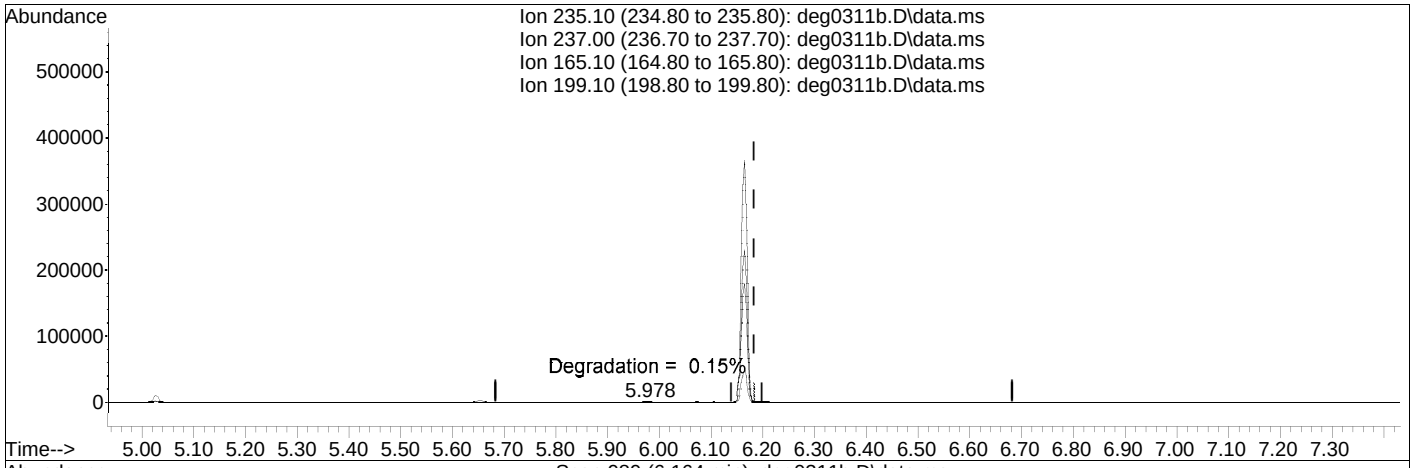
Manual Peak Response = 350248 M6

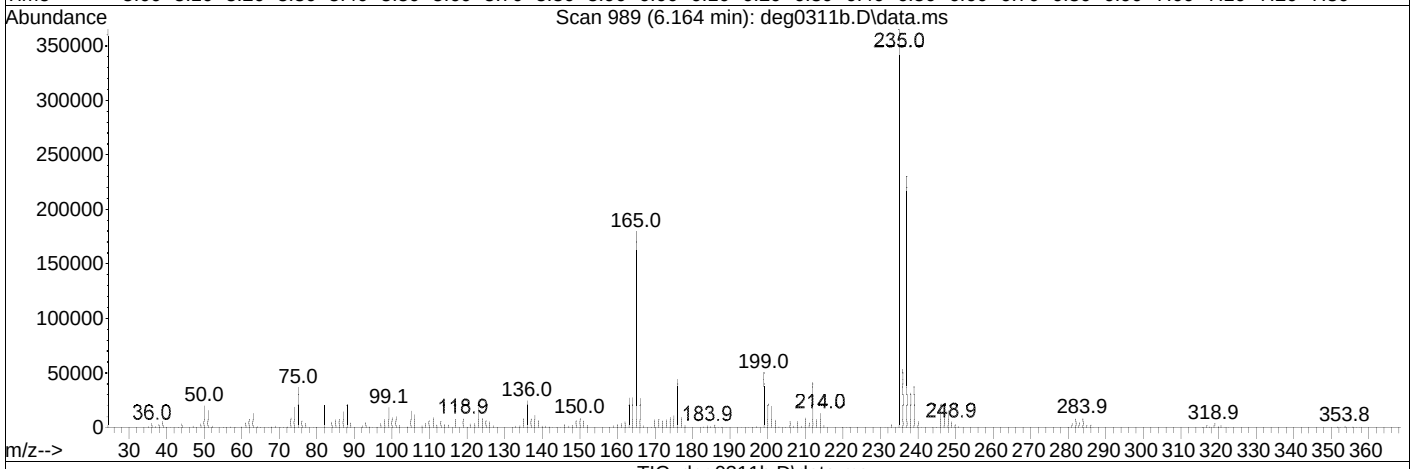
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\250311bRVT\
Data File : deg0311b.D
Acq On : 11 Mar 2025 09:35 am
Operator : sv119:jjw
Sample : WG2039073-2,32,,dftpp SV119 lot# 11413
Misc : WG2039073,,ical21826
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Mar 11 09:47:47 2025
Quant Method : I:\8270SIM\sv119\250311bRVT\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jan 31 09:20:30 2025
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: deg0311b.D\data.ms

(6) ddt (T)

6.164min (-0.019) 43.68

response 266248

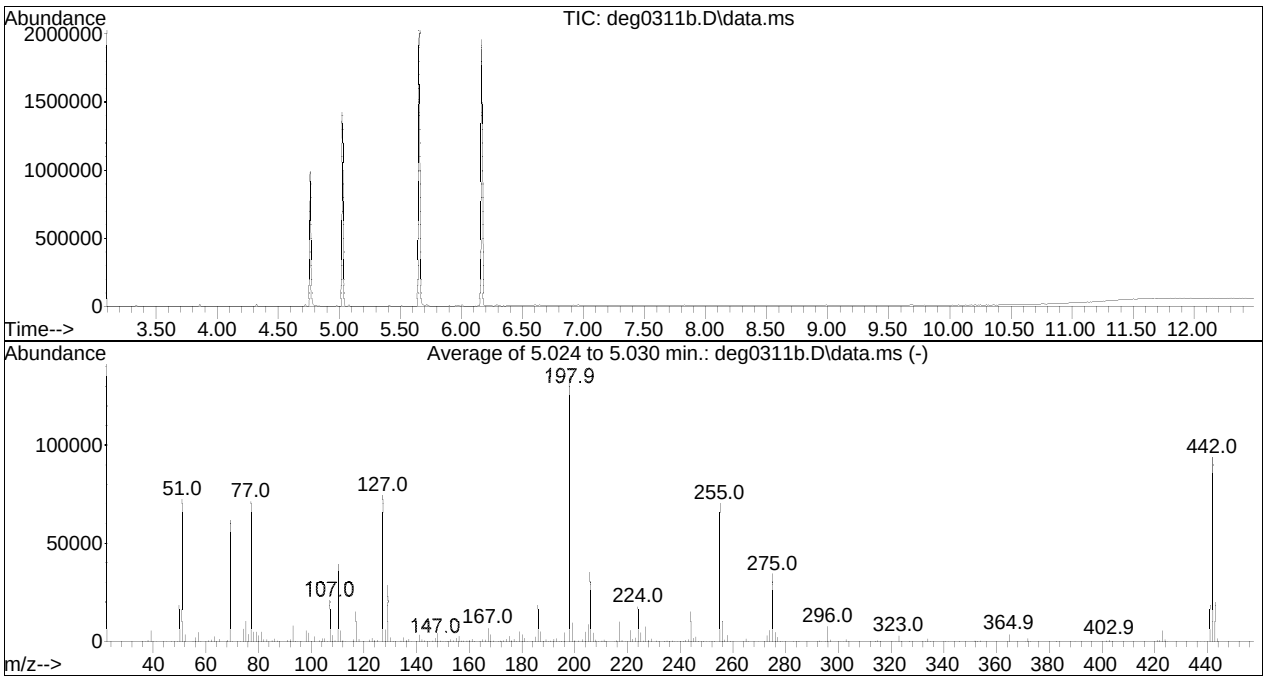
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	63.50
165.10	53.30	50.11
199.10	17.10	13.89

DFTPP

Data Path : I:\8270SIM\sv119\250311bRVT\
Data File : deg0311b.D
Acq On : 11 Mar 2025 09:35 am
Operator : sv119:jjw
Sample : WG2039073-1,32,,dftpp SV119 lot# 11413
Misc : WG2039073,,ical21826
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\sv119\250311bRVT\SIM-RVT_241229_sv119.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Mar 11 10:14:03 2025



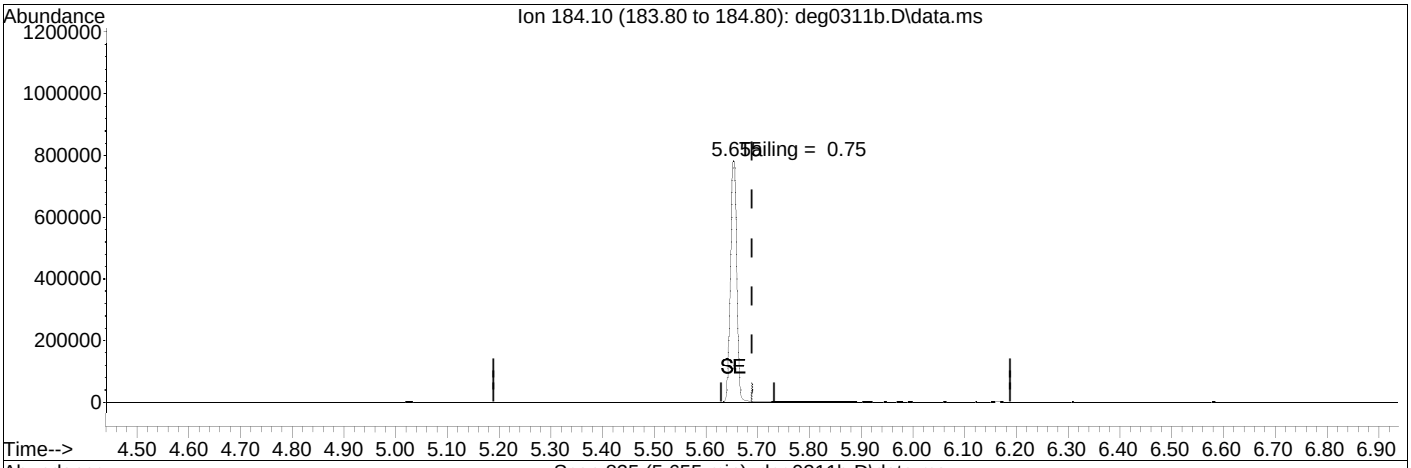
Spectrum Information: Average of 5.024 to 5.030 min.

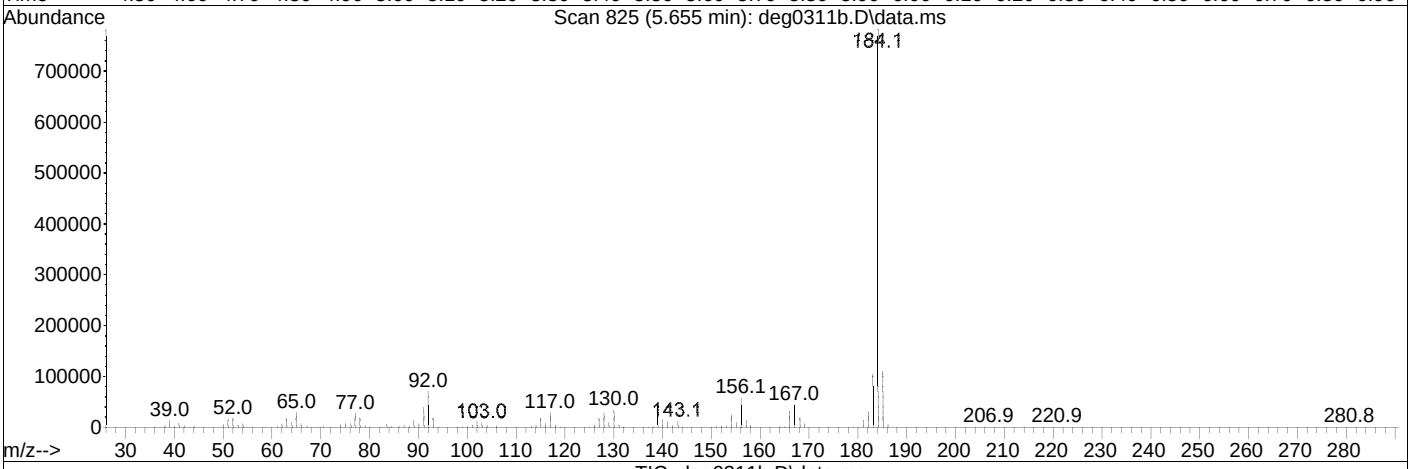
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	53.8	72347	PASS
68	69	0.00	2	1.6	1008	PASS
69	69	100	100	100.0	61885	PASS
70	69	0.00	2	0.6	374	PASS
127	198	10	80	55.3	74293	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	134445	PASS
199	198	5	9	6.8	9194	PASS
275	198	10	60	25.4	34125	PASS
365	198	1	100	2.6	3528	PASS
441	442	0.01	24	19.5	18299	PASS
442	198	50	100	69.7	93651	PASS
443	442	15	24	21.2	19864	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\250311bRVT\
Data File : deg0311b.D
Acq On : 11 Mar 2025 09:35 am
Operator : sv119:jjw
Sample : WG2039073-4,32,,dftpp SV119 lot# 11413
Misc : WG2039073,,ical21826
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Mar 11 09:47:47 2025
Quant Method : I:\8270SIM\sv119\250311bRVT\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jan 31 09:20:30 2025
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: deg0311b.D\data.ms

(3) benzidine (T)

5.655min (-0.034) 63.04

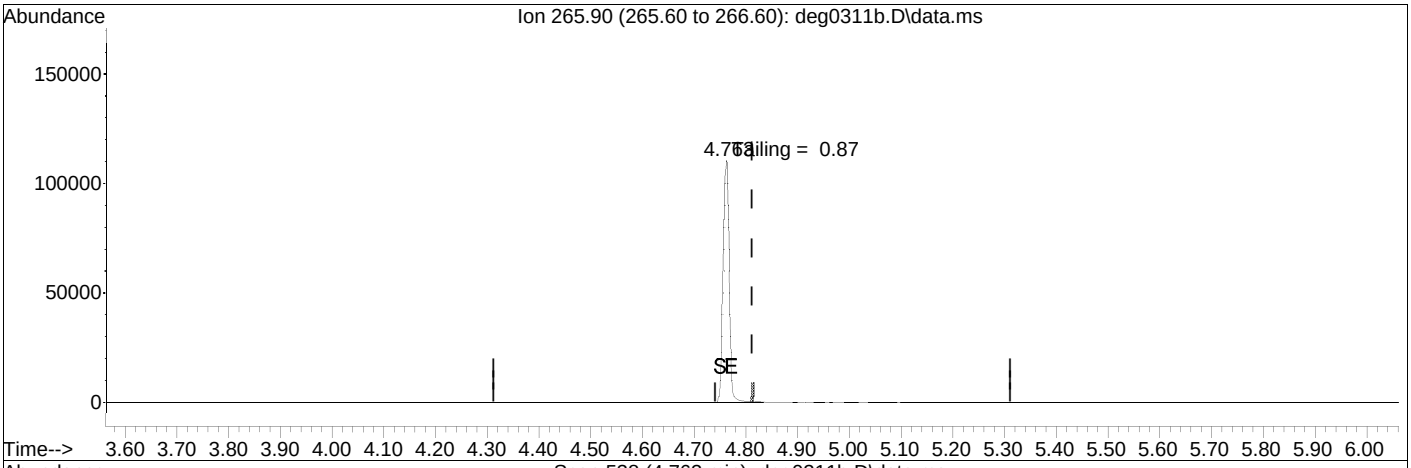
response 641727

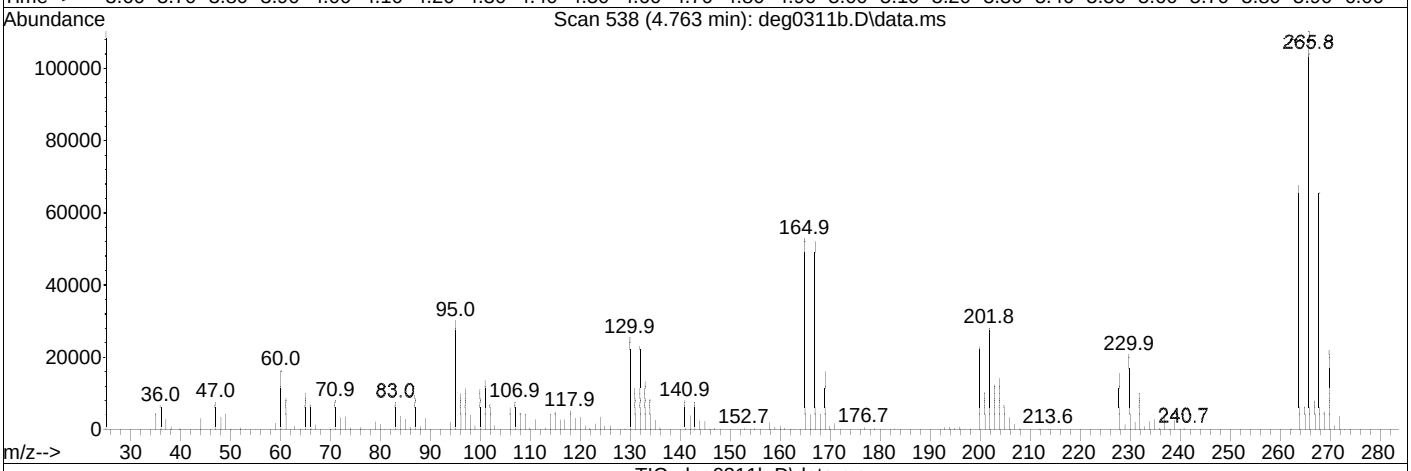
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\250311bRVT\
Data File : deg0311b.D
Acq On : 11 Mar 2025 09:35 am
Operator : sv119:jjw
Sample : WG2039073-5,32,,dftpp SV119 lot# 11413
Misc : WG2039073,,ical21826
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Mar 11 09:47:47 2025
Quant Method : I:\8270SIM\sv119\250311bRVT\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jan 31 09:20:30 2025
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: deg0311b.D\data.ms

(1) pentachlorophenol (T)

4.763min (-0.049) 39.64

response 83248

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV119	**Calibration Date**	: 03/11/25 09:51		
Lab File ID	: CCV0311B	**Init. Calib. Date(s)**	: 12/29/24	12/29/24	
Sample No	: WG2039073-3	**Init. Calib. Times**	: 13:37	16:09	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	107	0
2-Fluorophenol	1.072	1.095	.05	-2.1	20	108	0
Phenol-d6	1.338	1.336	.05	0.1	20	104	0
Bis(2-chloroethyl)ether	1.235	1.347	.05	-9.1	20	123	0
n-nitrosodi-n-propylamine	0.827	0.733	.05	11.4	20	93	0
Hexachloroethane	0.518	0.484	.05	6.6	20	104	0
Nitrobenzene-d5	1.297	1.153	.05	11.1	20	96	0
Naphthalene-d8	1	1	.05	0	20	107	0
Naphthalene	1.116	0.966	.05	13.4	20	98	0
Hexachlorobutadiene	0.196	0.159	.05	18.9	20	91	0
2-Methylnaphthalene	0.78	0.62	.05	20.5*	20	89	0
1-Methylnaphthalene	0.718	0.629	.05	12.4	20	97	0
2-Fluorobiphenyl	0.975	0.774	.05	20.6*	20	90	0
2-Chloronaphthalene	0.805	0.664	.05	17.5	20	92	0
2,6-Dinitrotoluene	0.198	0.162	.05	18.2	20	85	0
Acenaphthylene	1.247	1.107	.05	11.2	20	98	0
Acenaphthene-d10	1	1	.05	0	20	96	0
Acenaphthene	1.334	1.202	.05	9.9	20	90	0
2,4-Dinitrotoluene	0.424	0.399	.05	5.9	20	86	0
Fluorene	1.533	1.426	.05	7	20	91	0
2,4,6-Tribromophenol	0.175	0.168	.05	4	20	87	0
Phenanthrene-d10	1	1	.05	0	20	93	0
4,6-Dinitro-o-cresol	1000	718.086	.05	28.2*	20	71	0
Hexachlorobenzene	0.236	0.202	.05	14.4	20	86	0
Pentachlorophenol	1000	839.229	.05	16.1	20	79	0
Phenanthrene	1.17	1.036	.05	11.5	20	86	0
Anthracene	1.173	1.07	.05	8.8	20	88	0
Fluoranthene	1.463	1.247	.05	14.8	20	83	0
Pyrene	1.51	1.279	.05	15.3	20	83	0
4-Terphenyl-d14	0.992	0.771	.05	22.3*	20	75	0
Chrysene-d12	1	1	.05	0	20	83	0
Benzo[a]anthracene	1000	901.889	.05	9.8	20	75	0
3,3'-Dichlorobenzidine	1000	1067.563	.05	-6.8	20	98	0
Chrysene	1.377	1.183	.05	14.1	20	74	0
Bis(2-ethylhexyl)phthalate	0.714	0.772	.05	-8.1	20	86	0
Perylene-d12	1	1	.05	0	20	85	0
Benzo[b]fluoranthene	1.326	1.204	.05	9.2	20	77	0
Benzo[k]fluoranthene	1.307	1.172	.05	10.3	20	77	0
Benzo[a]pyrene	1.125	1.113	.05	1.1	20	82	0
Indeno[1,2,3-cd]pyrene	1.089	1.123	.05	-3.1	20	84	0
Dibenzo[a,h]anthracene	1.01	1.055	.05	-4.5	20	83	0
Benzo[g,h,i]perylene	1.036	1.079	.05	-4.2	20	86	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV119	**Calibration Date**	: 03/12/25 06:56		
Lab File ID	: CCV0312A	**Init. Calib. Date(s)**	: 12/29/24	12/29/24	
Sample No	: WG2039433-3	**Init. Calib. Times**	: 13:37	16:09	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	89	0
2-Fluorophenol	1.072	1.112	.05	-3.7	20	91	0
Phenol-d6	1.338	1.358	.05	-1.5	20	88	0
Bis(2-chloroethyl)ether	1.235	1.181	.05	4.4	20	90	0
n-nitrosodi-n-propylamine	0.827	0.829	.05	-0.2	20	88	0
Hexachloroethane	0.518	0.485	.05	6.4	20	86	0
Nitrobenzene-d5	1.297	1.208	.05	6.9	20	83	0
Naphthalene-d8	1	1	.05	0	20	92	0
Naphthalene	1.116	0.967	.05	13.4	20	85	0
Hexachlorobutadiene	0.196	0.153	.05	21.9*	20	75	0
2-Methylnaphthalene	0.78	0.625	.05	19.9	20	77	0
1-Methylnaphthalene	0.718	0.638	.05	11.1	20	85	0
2-Fluorobiphenyl	0.975	0.782	.05	19.8	20	78	0
2-Chloronaphthalene	0.805	0.674	.05	16.3	20	80	0
2,6-Dinitrotoluene	0.198	0.168	.05	15.2	20	76	0
Acenaphthylene	1.247	1.148	.05	7.9	20	88	0
Acenaphthene-d10	1	1	.05	0	20	86	0
Acenaphthene	1.334	1.194	.05	10.5	20	80	0
2,4-Dinitrotoluene	0.424	0.388	.05	8.5	20	75	0
Fluorene	1.533	1.423	.05	7.2	20	81	0
2,4,6-Tribromophenol	0.175	0.166	.05	5.1	20	77	0
Phenanthrene-d10	1	1	.05	0	20	84	0
4,6-Dinitro-o-cresol	1000	704.449	.05	29.6*	20	63	0
Hexachlorobenzene	0.236	0.192	.05	18.6	20	74	0
Pentachlorophenol	1000	649.4	.05	35.1*	20	55	0
Phenanthrene	1.17	1.015	.05	13.2	20	77	0
Anthracene	1.173	1.059	.05	9.7	20	79	0
Fluoranthene	1.463	1.267	.05	13.4	20	76	0
Pyrene	1.51	1.307	.05	13.4	20	77	0
4-Terphenyl-d14	0.992	0.805	.05	18.9	20	71	0
Chrysene-d12	1	1	.05	0	20	81	0
Benzo[a]anthracene	1000	908.038	.05	9.2	20	74	0
3,3'-Dichlorobenzidine	1000	1135.773	.05	-13.6	20	102	0
Chrysene	1.377	1.173	.05	14.8	20	72	0
Bis(2-ethylhexyl)phthalate	0.714	0.972	.05	-36.1*	20	106	0
Perylene-d12	1	1	.05	0	20	84	0
Benzo[b]fluoranthene	1.326	1.236	.05	6.8	20	78	0
Benzo[k]fluoranthene	1.307	1.211	.05	7.3	20	78	0
Benzo[a]pyrene	1.125	1.158	.05	-2.9	20	84	0
Indeno[1,2,3-cd]pyrene	1.089	1.165	.05	-7	20	86	0
Dibenzo[a,h]anthracene	1.01	1.076	.05	-6.5	20	83	0
Benzo[g,h,i]perylene	1.036	1.099	.05	-6.1	20	86	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV119	**Calibration Date**	: 03/13/25 06:38		
Lab File ID	: CCV0313	**Init. Calib. Date(s)**	: 12/29/24	12/29/24	
Sample No	: WG2039957-3	**Init. Calib. Times**	: 13:37	16:09	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	74	0
2-Fluorophenol	1.072	1.088	.05	-1.5	20	75	0
Phenol-d6	1.338	1.36	.05	-1.6	20	74	0
Bis(2-chloroethyl)ether	1.235	1.164	.05	5.7	20	74	0
n-nitrosodi-n-propylamine	0.827	0.817	.05	1.2	20	72	0
Hexachloroethane	0.518	0.483	.05	6.8	20	72	0
Nitrobenzene-d5	1.297	1.229	.05	5.2	20	71	0
Naphthalene-d8	1	1	.05	0	20	78	0
Naphthalene	1.116	0.962	.05	13.8	20	72	0
Hexachlorobutadiene	0.196	0.15	.05	23.5*	20	63	0
2-Methylnaphthalene	0.78	0.619	.05	20.6*	20	65	0
1-Methylnaphthalene	0.718	0.631	.05	12.1	20	72	0
2-Fluorobiphenyl	0.975	0.771	.05	20.9*	20	66	0
2-Chloronaphthalene	0.805	0.666	.05	17.3	20	67	0
2,6-Dinitrotoluene	0.198	0.167	.05	15.7	20	64	0
Acenaphthylene	1.247	1.124	.05	9.9	20	73	0
Acenaphthene-d10	1	1	.05	0	20	72	0
Acenaphthene	1.334	1.195	.05	10.4	20	67	0
2,4-Dinitrotoluene	0.424	0.392	.05	7.5	20	63	0
Fluorene	1.533	1.41	.05	8	20	67	0
2,4,6-Tribromophenol	0.175	0.156	.05	10.9	20	61	0
Phenanthrene-d10	1	1	.05	0	20	71	0
4,6-Dinitro-o-cresol	1000	737.689	.05	26.2*	20	56	0
Hexachlorobenzene	0.236	0.189	.05	19.9	20	61	0
Pentachlorophenol	1000	598.195	.05	40.2*	20	43	0
Phenanthrene	1.17	1.012	.05	13.5	20	65	0
Anthracene	1.173	1.044	.05	11	20	66	0
Fluoranthene	1.463	1.254	.05	14.3	20	64	0
Pyrene	1.51	1.306	.05	13.5	20	65	0
4-Terphenyl-d14	0.992	0.794	.05	20	20	59	0
Chrysene-d12	1	1	.05	0	20	69	0
Benzo[a]anthracene	1000	894.842	.05	10.5	20	62	0
3,3'-Dichlorobenzidine	1000	1078.126	.05	-7.8	20	83	0
Chrysene	1.377	1.17	.05	15	20	61	0
Bis(2-ethylhexyl)phthalate	0.714	0.76	.05	-6.4	20	71	0
Perylene-d12	1	1	.05	0	20	71	0
Benzo[b]fluoranthene	1.326	1.198	.05	9.7	20	64	0
Benzo[k]fluoranthene	1.307	1.185	.05	9.3	20	65	0
Benzo[a]pyrene	1.125	1.127	.05	-0.2	20	69	0
Indeno[1,2,3-cd]pyrene	1.089	1.147	.05	-5.3	20	72	0
Dibenzo[a,h]anthracene	1.01	1.066	.05	-5.5	20	70	0
Benzo[g,h,i]perylene	1.036	1.084	.05	-4.6	20	72	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV118	**Calibration Date**	: 03/13/25 08:33		
Lab File ID	: CCV0313A	**Init. Calib. Date(s)**	: 02/03/25	02/03/25	
Sample No	: WG2040034-3	**Init. Calib. Times**	: 15:47	18:20	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.01	0	20	139	0
2-Fluorophenol	1.223	1.072	.01	12.3	20	121	0
Phenol-d6	1.466	1.355	.01	7.6	20	127	0
Bis(2-chloroethyl)ether	1.301	1.229	.01	5.5	20	135	0
n-nitrosodi-n-propylamine	0.835	0.909	.01	-8.9	20	143	0
Hexachloroethane	0.544	0.533	.01	2	20	136	0
Nitrobenzene-d5	1.197	1.265	.01	-5.7	20	140	0
Naphthalene-d8	1	1	.01	0	20	140	0
Naphthalene	1.137	1.047	.01	7.9	20	133	0
Hexachlorobutadiene	0.204	0.197	.01	3.4	20	135	0
2-Methylnaphthalene	0.707	0.677	.01	4.2	20	135	0
1-Methylnaphthalene	0.719	0.693	.01	3.6	20	136	0
2-Fluorobiphenyl	0.876	0.858	.01	2.1	20	143	0
2-Chloronaphthalene	0.765	0.755	.01	1.3	20	138	0
2,6-Dinitrotoluene	0.17	0.191	.01	-12.4	20	145	0
Acenaphthylene	1.17	1.257	.01	-7.4	20	142	0
Acenaphthene-d10	1	1	.01	0	20	148	0
Acenaphthene	1.424	1.301	.01	8.6	20	138	0
2,4-Dinitrotoluene	0.411	0.447	.01	-8.8	20	146	0
Fluorene	1.566	1.515	.01	3.3	20	143	0
2,4,6-Tribromophenol	0.185	0.213	.01	-15.1	20	148	0
Phenanthrene-d10	1	1	.01	0	20	155	0
4,6-Dinitro-o-cresol	1000	799.402	.01	20.1*	20	133	0
Hexachlorobenzene	0.265	0.263	.01	0.8	20	156	0
Pentachlorophenol	1000	758.034	.01	24.2*	20	111	0
Phenanthrene	1.211	1.101	.01	9.1	20	143	0
Anthracene	1.202	1.162	.01	3.3	20	147	0
Fluoranthene	1.379	1.365	.01	1	20	152	0
Pyrene	1.427	1.399	.01	2	20	149	0
4-Terphenyl-d14	0.929	0.861	.01	7.3	20	146	0
Chrysene-d12	1	1	.01	0	20	161	0
Benzo[a]anthracene	0.423	0.375	.01	11.3	20	148	0
3,3'-Dichlorobenzidine	0.534	0.578	.01	-8.2	20	161	0
Chrysene	1.38	1.251	.01	9.3	20	146	0
Bis(2-ethylhexyl)phthalate	1000	1066.555	.01	-6.7	20	185	0
Perylene-d12	1	1	.01	0	20	165	0
Benzo[b]fluoranthene	1.316	1.251	.01	4.9	20	154	0
Benzo[k]fluoranthene	1.252	1.26	.01	-0.6	20	154	0
Benzo[a]pyrene	1.095	1.159	.01	-5.8	20	159	0
Indeno[1,2,3-cd]pyrene	0.971	1.035	.01	-6.6	20	161	0
Dibenzo[a,h]anthracene	0.937	0.996	.01	-6.3	20	155	0
Benzo[g,h,i]perylene	1.026	1.007	.01	1.9	20	150	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv119\250312RVT\
Data File : ccv0312a.D
Acq On : 12 Mar 2025 06:56 am
Operator : sv119:kmh
Sample : wg2039433-3,32,,ICV 11275 (0309)
Misc : wg2039433,,ical21826
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 12 07:10:55 2025
Quant Method : I:\8270SIM\sv119\250312RVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 07:11:50 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	89	0.00
2	T	N-Nitrosodimethylamine	0.000	0.746	0.0	0#	0.00
3	s	2-Fluorophenol	1.072	1.112	-3.7	91	0.00
4	s	Phenol-d6	1.338	1.358	-1.5	88	0.00
5	T	Bis(2-chloroethyl)ether	1.235	1.181	4.4	90	0.00
6	T	n-nitrosodi-n-propylamine	0.827	0.829	-0.2	88	0.00
7	t	Hexachloroethane	0.518	0.485	6.4	86	0.00
8	s	Nitrobenzene-d5	1.297	1.208	6.9	83	0.00
9	i	Naphthalene-d8	1.000	1.000	0.0	92	0.00
10	t	Naphthalene	1.116	0.967	13.4	85	0.00
11	t	Hexachlorobutadiene	0.196	0.153	21.9#	75	0.00
12	t	2-Methylnaphthalene	0.780	0.625	19.9	77	0.00
13	t	1-Methylnaphthalene	0.718	0.638	11.1	85	0.00
14	s	2-Fluorobiphenyl	0.975	0.782	19.8	78	0.00
15	t	2-Chloronaphthalene	0.805	0.674	16.3	80	0.00
16	t	2,6-Dinitrotoluene	0.198	0.168	15.2	76	0.00
17	t	Acenaphthylene	1.247	1.148	7.9	88	0.00
18	i	Acenaphthene-d10	1.000	1.000	0.0	86	0.00
19	t	Acenaphthene	1.334	1.194	10.5	80	0.00
20	t	2,4-Dinitrotoluene	0.424	0.388	8.5	75	0.00
21	t	Fluorene	1.533	1.423	7.2	81	0.00
22	s	2,4,6-Tribromophenol	0.175	0.166	5.1	77	0.00
23	i	Phenanthrene-d10	1.000	1.000	0.0	84	0.00
24	T	4,6-Dinitro-o-cresol	*1000.000	704.449	29.6#	63	0.00
25	t	Hexachlorobenzene	0.236	0.192	18.6	74	0.00
26	t	Pentachlorophenol	*1000.000	649.400	35.1#	55	0.00
27	t	Phenanthrene	1.170	1.015	13.2	77	0.00
28	t	Anthracene	1.173	1.059	9.7	79	0.00
29	t	Fluoranthene	1.463	1.267	13.4	76	0.00
30	t	Pyrene	1.510	1.307	13.4	77	0.00
31	T	Benzidine	0.000	0.804	0.0	0#	0.00
32	s	4-Terphenyl-d14	0.992	0.805	18.9	71	0.00
33	i	Chrysene-d12	1.000	1.000	0.0	81	0.00
34	t	Benzo[a]anthracene	*1000.000	908.038	9.2	74	0.00
35	t	3,3'-Dichlorobenzidine	*1000.000	1135.773	-13.6	102	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv119\250312RVT\
Data File : ccv0312a.D
Acq On : 12 Mar 2025 06:56 am
Operator : sv119:kmh
Sample : wg2039433-3,32,,ICV 11275 (0309)
Misc : wg2039433,,ical21826
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 12 07:10:55 2025
Quant Method : I:\8270SIM\sv119\250312RVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 07:11:50 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	t	Chrysene	1.377	1.173	14.8	72	0.00
37	T	Bis(2-ethylhexyl)phthalate	0.714	0.972	-36.1#	106	0.00
38	i	Perylene-d12	1.000	1.000	0.0	84	0.00
39	t	Benzo[b]fluoranthene	1.326	1.236	6.8	78	0.00
40	t	Benzo[k]fluoranthene	1.307	1.211	7.3	78	0.00
41	t	Benzo[a]pyrene	1.125	1.158	-2.9	84	0.00
42	t	Indeno[1,2,3-cd]pyrene	1.089	1.165	-7.0	86	0.00
43	t	Dibenzo[a,h]anthracene	1.010	1.076	-6.5	83	0.00
44	t	Benzo[g,h,i]perylene	1.036	1.099	-6.1	86	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250312RVT\
Data File : ccv0312a.D
Acq On : 12 Mar 2025 06:56 am
Operator : sv119:kmh
Sample : wg2039433-3,32,,ICV 11275 (0309)
Misc : wg2039433,,ical21826
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 12 07:10:55 2025
Quant Method : I:\8270SIM\sv119\250312RVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 07:11:50 2025
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.176	152	270856	4000.000	ng/ml	0.00
9) Naphthalene-d8	2.834	136	1057861	4000.000	ng/ml	0.00
18) Acenaphthene-d10	3.804	164	616254	4000.000	ng/ml	0.00
23) Phenanthrene-d10	4.640	188	1278760	4000.000	ng/ml	0.00
33) Chrysene-d12	6.192	240	1251818	4000.000	ng/ml	0.00
38) Perylene-d12	7.345	264	1310763	4000.000	ng/ml	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	1.618	112	75303	1037.622	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 51.88%			
4) Phenol-d6	2.028	99	91971	1015.364	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 50.77%			
8) Nitrobenzene-d5	2.458	82	81825	931.562	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 93.16%			
14) 2-Fluorobiphenyl	3.428	172	206940	802.236	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 80.22%			
22) 2,4,6-Tribromophenol	4.254	330	25564	950.464	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 47.52%			
32) 4-Terphenyl-d14	5.559	244	257222	810.836	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 81.08%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	1.168	74	50520	No Calib	#	
5) Bis(2-chloroethyl)ether	2.045	93	79993	956.804	ng/ml	84
6) n-nitrosodi-n-propylamine	2.378	70	56111	1001.429	ng/ml	100
7) Hexachloroethane	2.429	117	32824	934.969	ng/ml	95
10) Naphthalene	2.845	128	255795	866.993	ng/ml	100
11) Hexachlorobutadiene	2.914	225	40450	779.063	ng/ml	100
12) 2-Methylnaphthalene	3.221	142	165313	801.807	ng/ml	98
13) 1-Methylnaphthalene	3.277	142	168710	888.695	ng/ml	98
15) 2-Chloronaphthalene	3.492	162	178158	836.670	ng/ml	93
16) 2,6-Dinitrotoluene	3.692	165	44474	847.519	ng/ml#	88
17) Acenaphthylene	3.721	152	303599	920.660	ng/ml	100
19) Acenaphthene	3.821	153	183979	895.141	ng/ml	94
20) 2,4-Dinitrotoluene	3.919	165	59848	915.382	ng/ml#	66
21) Fluorene	4.110	166	219168	928.142	ng/ml	96
24) 4,6-Dinitro-o-cresol	4.150	198	29219	704.449	ng/ml	97
25) Hexachlorobenzene	4.429	284	61418M6	814.817	ng/ml	
26) Pentachlorophenol	4.551	266	24359	649.400	ng/ml	99
27) Phenanthrene	4.653	178	324351	867.504	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250312RVT\
Data File : ccv0312a.D
Acq On : 12 Mar 2025 06:56 am
Operator : sv119:kmh
Sample : wg2039433-3,32,,ICV 11275 (0309)
Misc : wg2039433,,ical21826
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 12 07:10:55 2025
Quant Method : I:\8270SIM\sv119\250312RVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 07:11:50 2025
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Anthracene	4.681	178	338631	903.340	ng/ml	99
29) Fluoranthene	5.334	202	405172	866.170	ng/ml	99
30) Pyrene	5.462	202	417922	865.565	ng/ml	100
31) Benzidine	5.415	184	257048	No Calib #		
34) Benzo[a]anthracene	6.182	228	402962	908.038	ng/ml	100
35) 3,3'-Dichlorobenzidine	6.174	252	179264	1135.773	ng/ml	99
36) Chrysene	6.206	228	367227	852.010	ng/ml	100
37) Bis(2-ethylhexyl)phtha...	6.205	149	304199	1360.477	ng/ml	95
39) Benzo[b]fluoranthene	6.982	252	404891	932.048	ng/ml	100
40) Benzo[k]fluoranthene	7.006	252	396959	926.635	ng/ml	96
41) Benzo[a]pyrene	7.278	252	379466	1029.455	ng/ml	99
42) Indeno[1,2,3-cd]pyrene	8.506	276	381651	1069.476	ng/ml	97
43) Dibenzo[a,h]anthracene	8.537	278	352711M6	1065.431	ng/ml	
44) Benzo[g,h,i]perylene	8.837	276	360132	1060.302	ng/ml	98

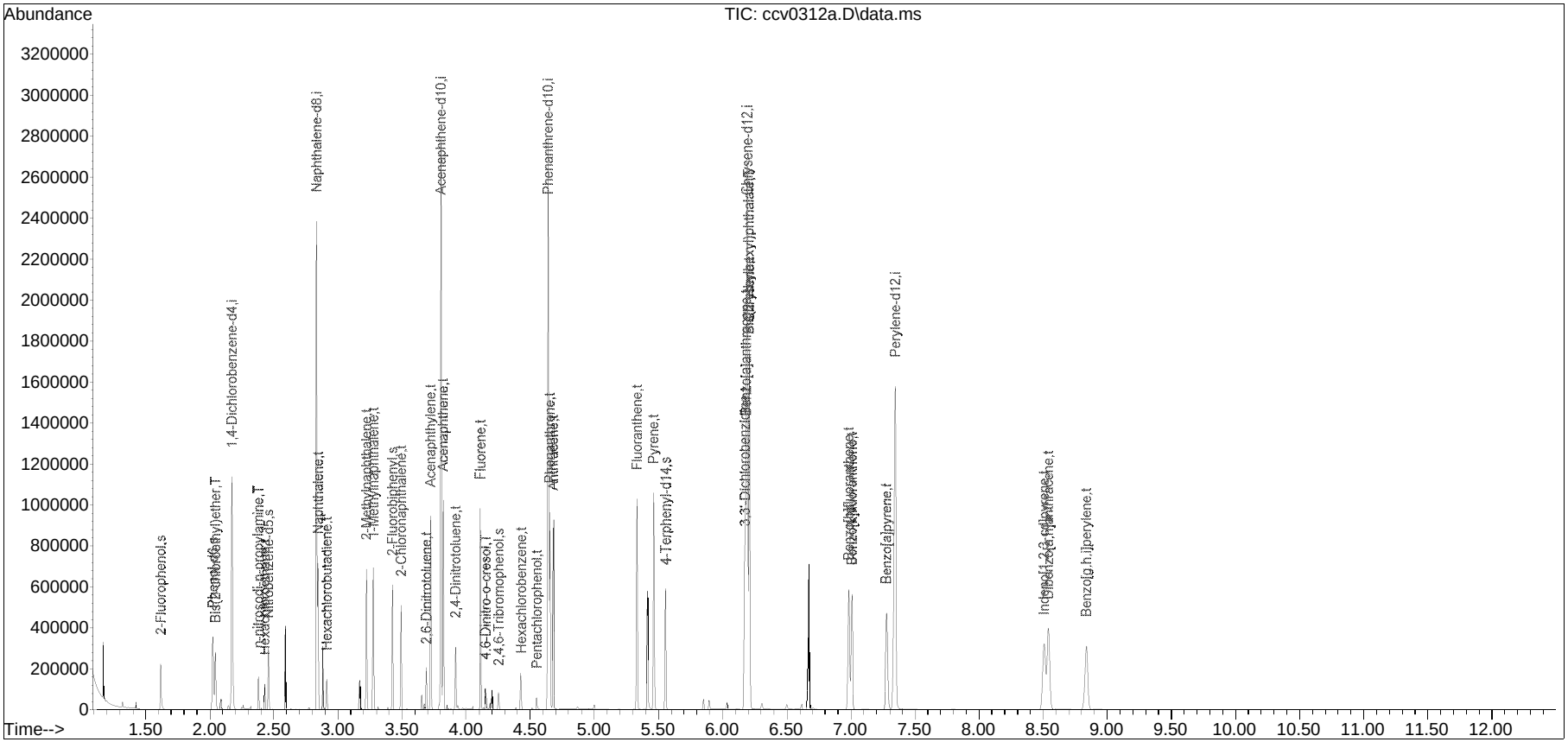
(#) = qualifier out of range (m) = manual integration (+) = signals summed

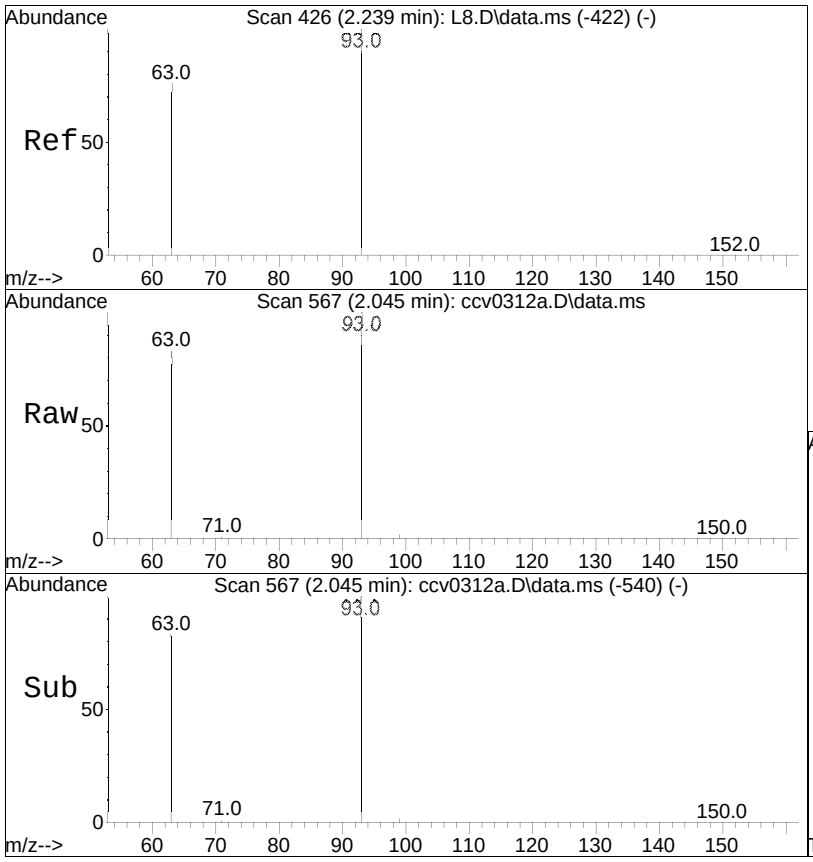
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250312RVT\
Data File : ccv0312a.D
Acq On : 12 Mar 2025 06:56 am
Operator : sv119:kmh
Sample : wg2039433-3,32,,ICV 11275 (0309)
Misc : wg2039433,,ical21826
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 12 07:10:55 2025
Quant Method : I:\8270SIM\sv119\250312RVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Mar 12 07:11:50 2025
Response via : Initial Calibration

Sub List : Default - All compounds listed

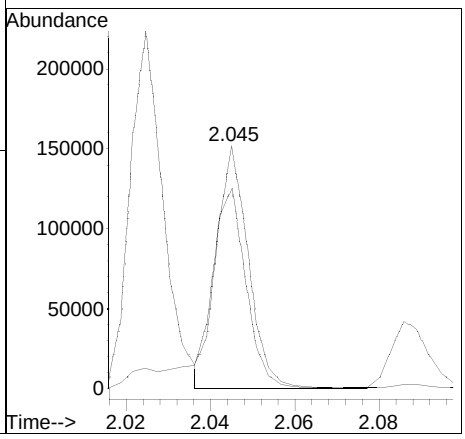


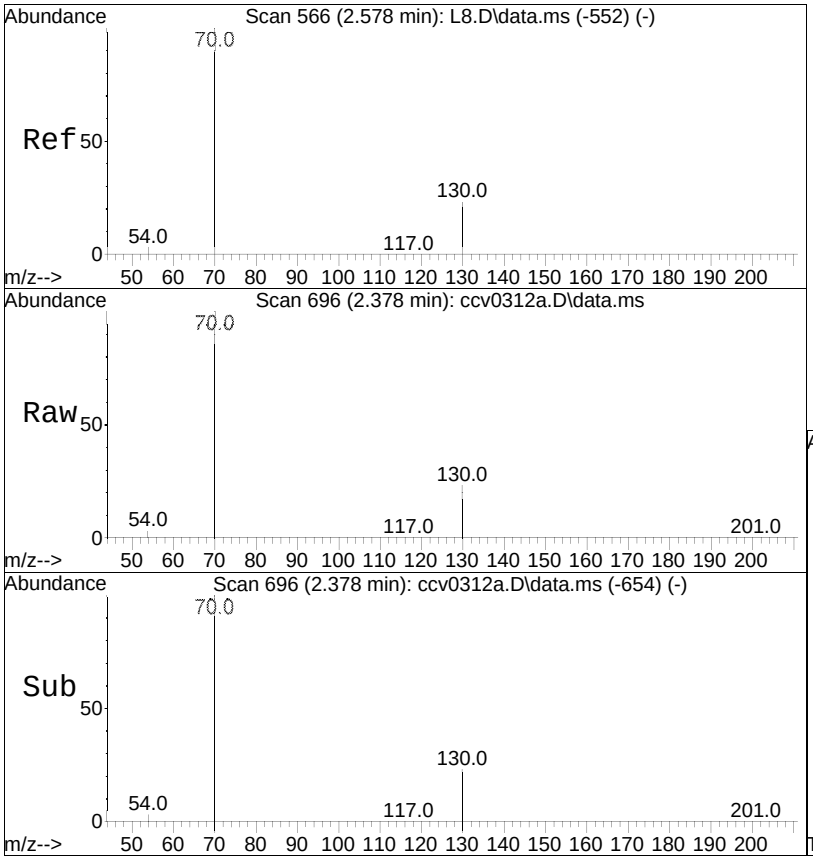


#5
Bis(2-chloroethyl)ether
Concen: 956.80 ng/ml
RT: 2.045 min Scan# 567
Delta R.T. 0.000 min
Lab File: ccv0312a.D
Acq: 12 Mar 2025 06:56 am

Tgt Ion: 93 Resp: 79993

Ion	Ratio	Lower	Upper
93	100		
63	90.8	61.7	92.5

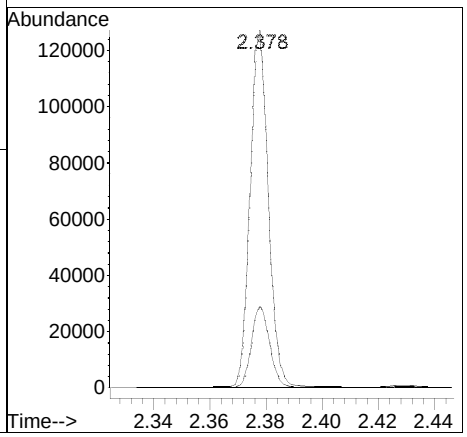


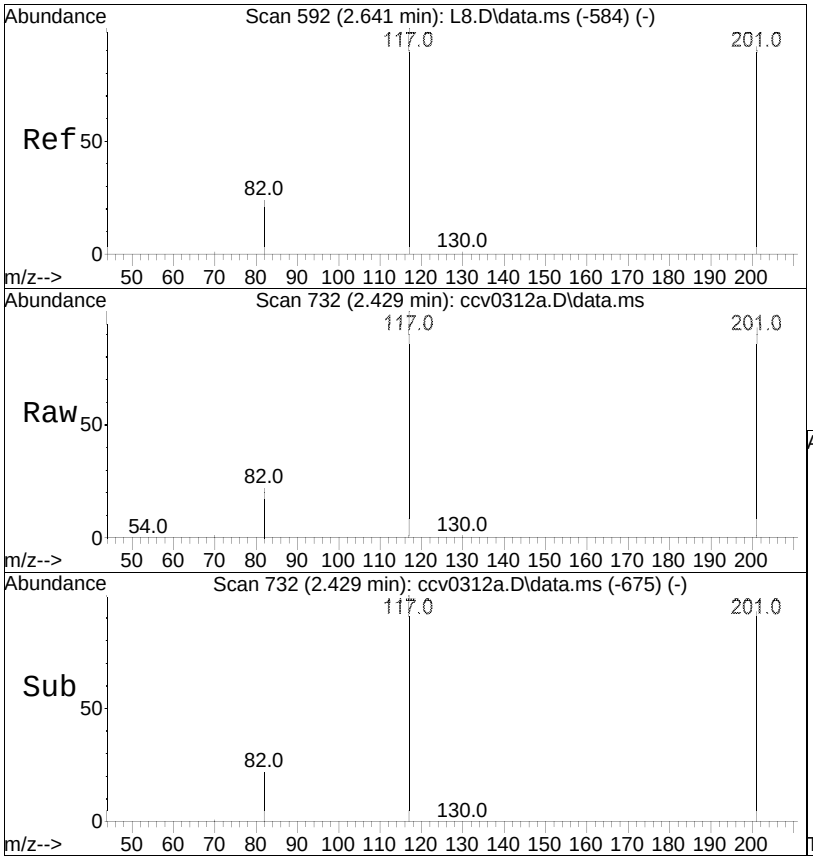


#6
n-nitrosodi-n-propylamine
Concen: 1001.43 ng/ml
RT: 2.378 min Scan# 696
Delta R.T. 0.000 min
Lab File: ccv0312a.D
Acq: 12 Mar 2025 06:56 am

Tgt Ion: 70 Resp: 56111

Ion	Ratio	Lower	Upper
70	100		
130	22.7	18.1	27.1

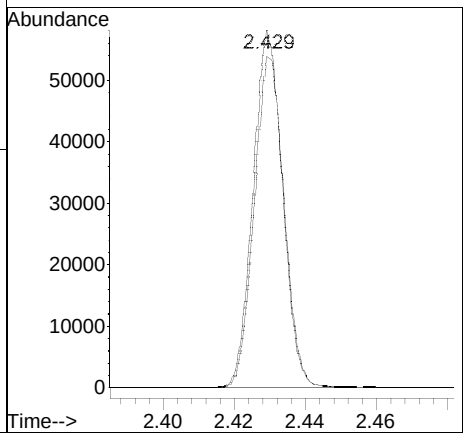


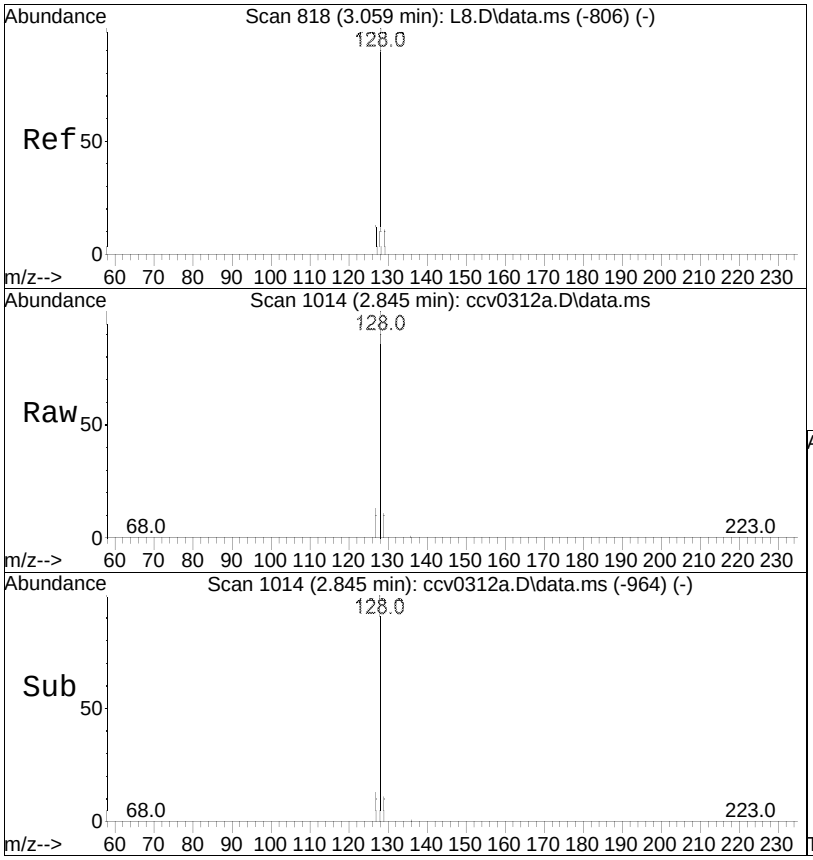


#7
Hexachloroethane
Concen: 934.97 ng/ml
RT: 2.429 min Scan# 732
Delta R.T. 0.000 min
Lab File: ccv0312a.D
Acq: 12 Mar 2025 06:56 am

Tgt Ion:117 Resp: 32824

Ion	Ratio	Lower	Upper
117	100		
201	94.2	79.3	118.9

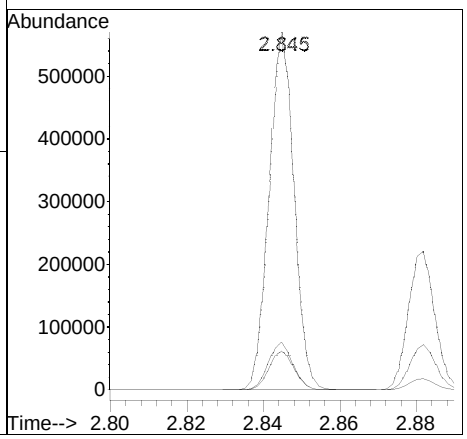


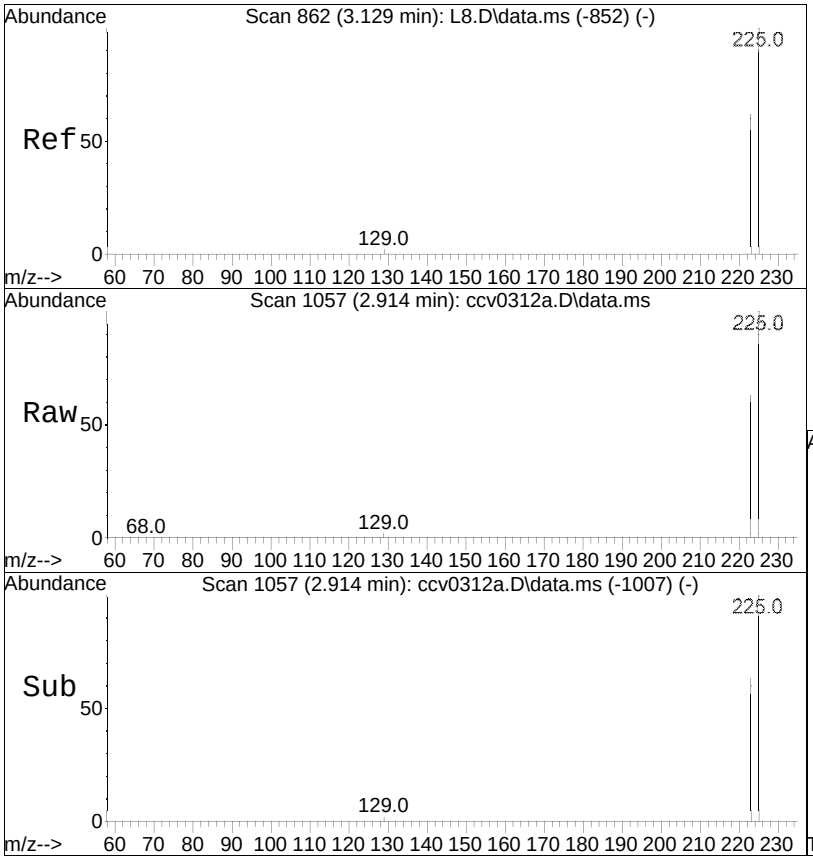


#10
Naphthalene
Concen: 866.99 ng/ml
RT: 2.845 min Scan# 1014
Delta R.T. 0.000 min
Lab File: ccv0312a.D
Acq: 12 Mar 2025 06:56 am

Tgt Ion:128 Resp: 255795

Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.0	13.6
127	13.2	10.5	15.7

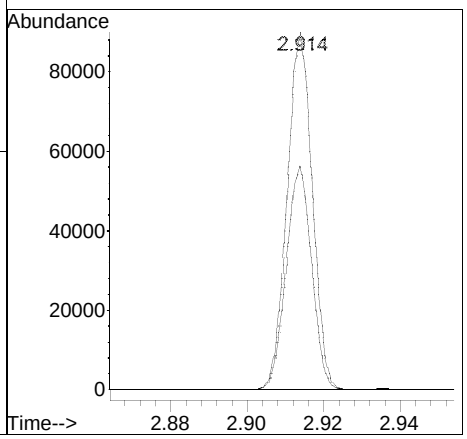


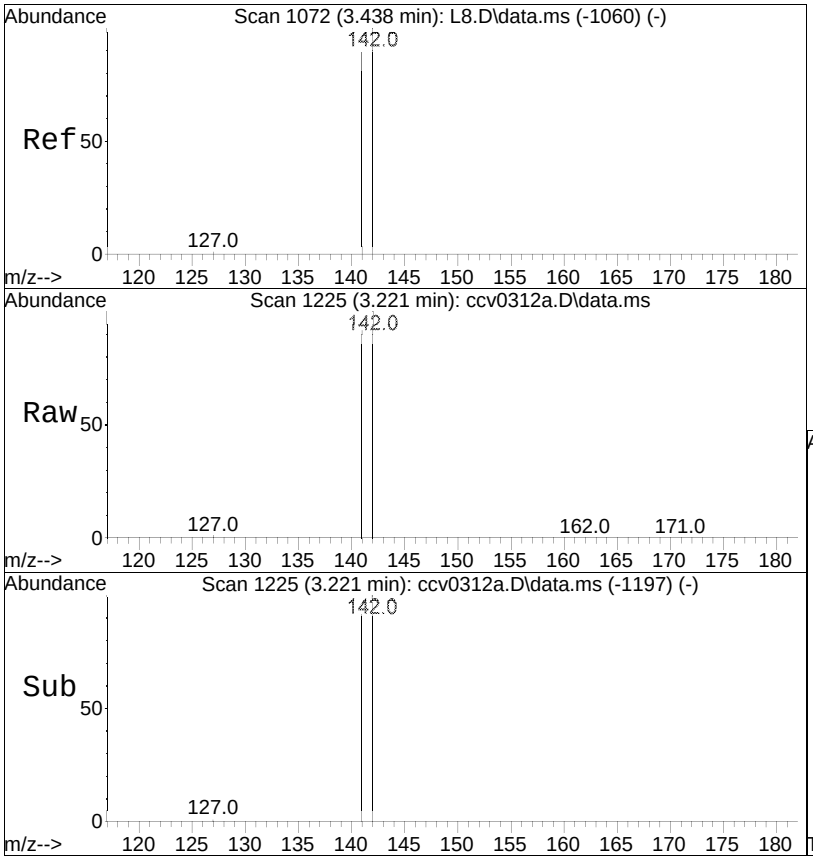


#11
Hexachlorobutadiene
Concen: 779.06 ng/ml
RT: 2.914 min Scan# 1057
Delta R.T. 0.000 min
Lab File: ccv0312a.D
Acq: 12 Mar 2025 06:56 am

Tgt Ion:225 Resp: 40450

Ion	Ratio	Lower	Upper
225	100		
223	63.1	50.4	75.6

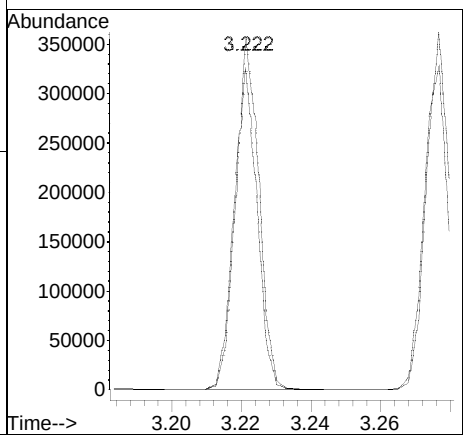


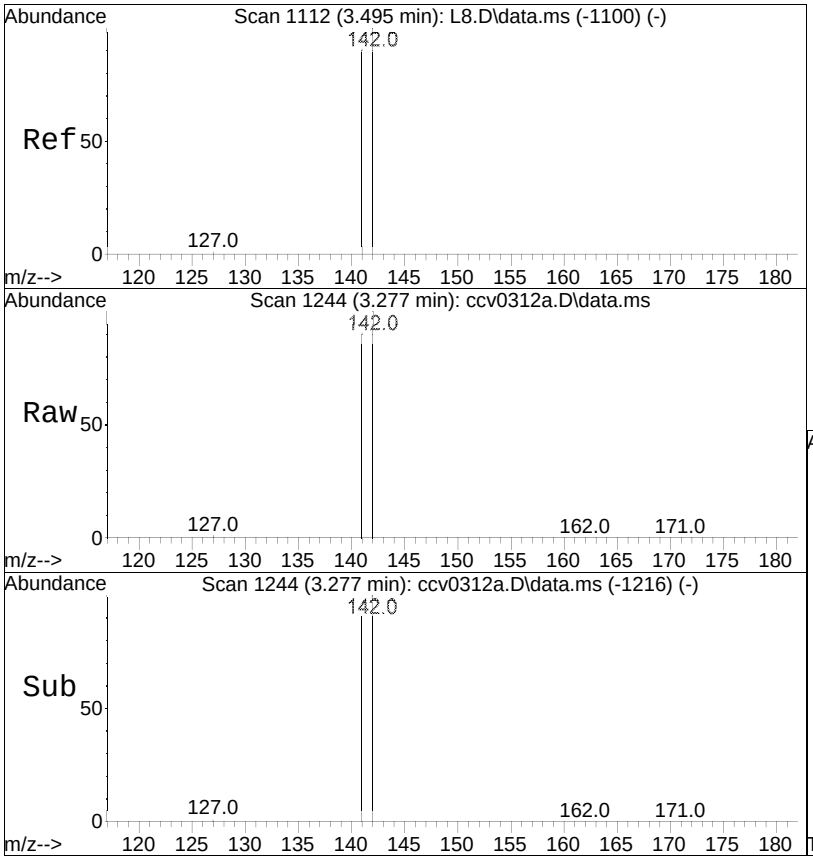


#12
2-Methylnaphthalene
Concen: 801.81 ng/ml
RT: 3.221 min Scan# 1225
Delta R.T. 0.000 min
Lab File: ccv0312a.D
Acq: 12 Mar 2025 06:56 am

Tgt Ion:142 Resp: 165313

Ion	Ratio	Lower	Upper
142	100		
141	91.1	71.3	106.9

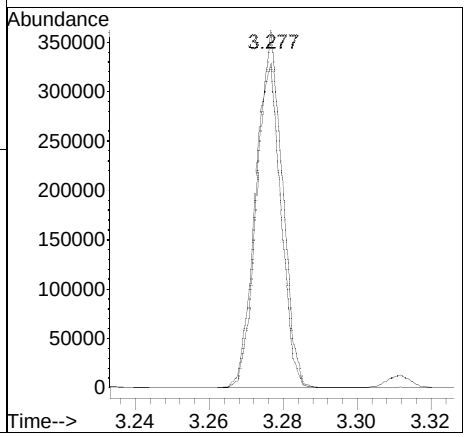


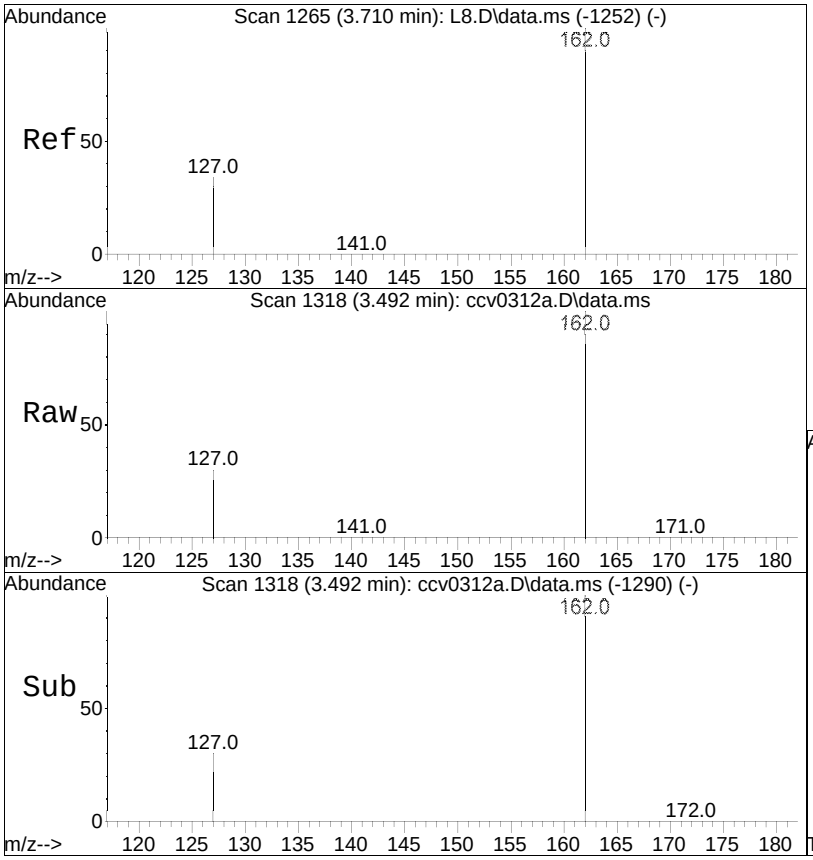


#13
1-Methylnaphthalene
Concen: 888.70 ng/ml
RT: 3.277 min Scan# 1244
Delta R.T. 0.000 min
Lab File: ccv0312a.D
Acq: 12 Mar 2025 06:56 am

Tgt Ion:142 Resp: 168710

Ion	Ratio	Lower	Upper
142	100		
141	94.1	73.8	110.6

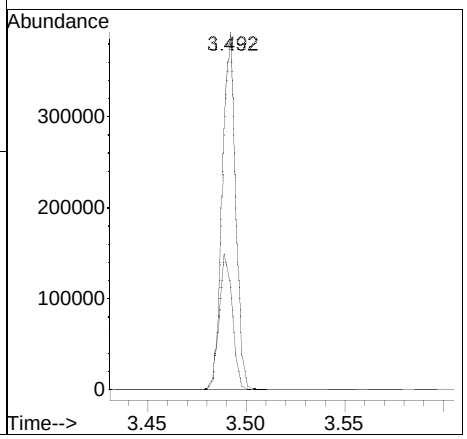


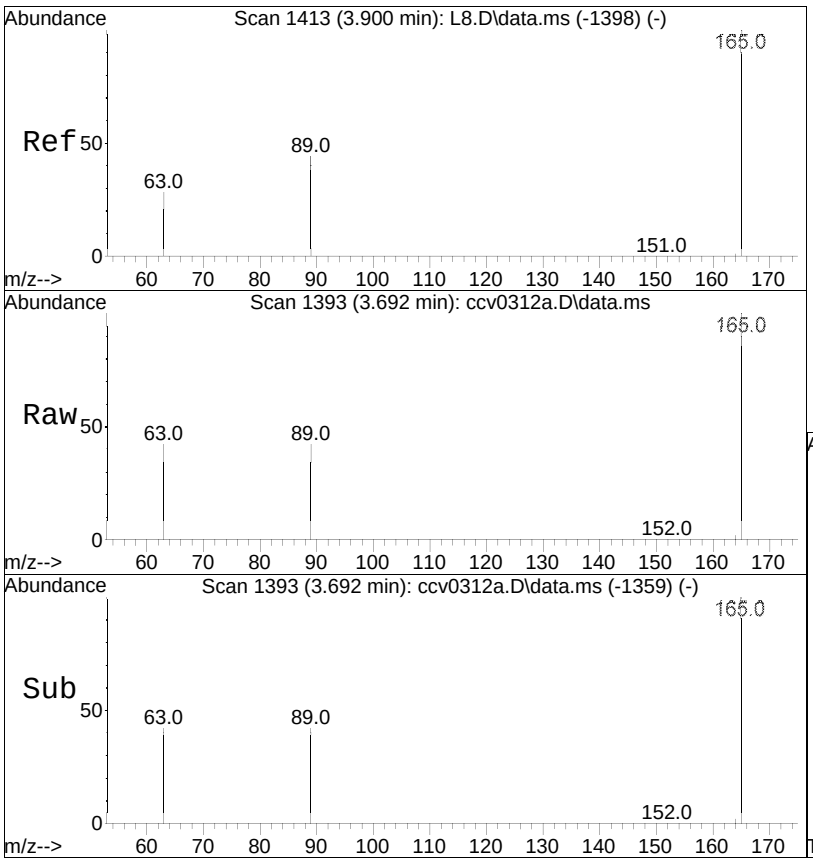


#15
2-Chloronaphthalene
Concen: 836.67 ng/ml
RT: 3.492 min Scan# 1318
Delta R.T. 0.000 min
Lab File: ccv0312a.D
Acq: 12 Mar 2025 06:56 am

Tgt Ion:162 Resp: 178158

Ion	Ratio	Lower	Upper
162	100		
127	38.3	27.4	41.0

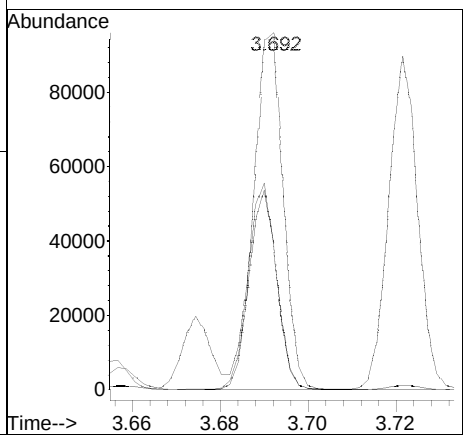


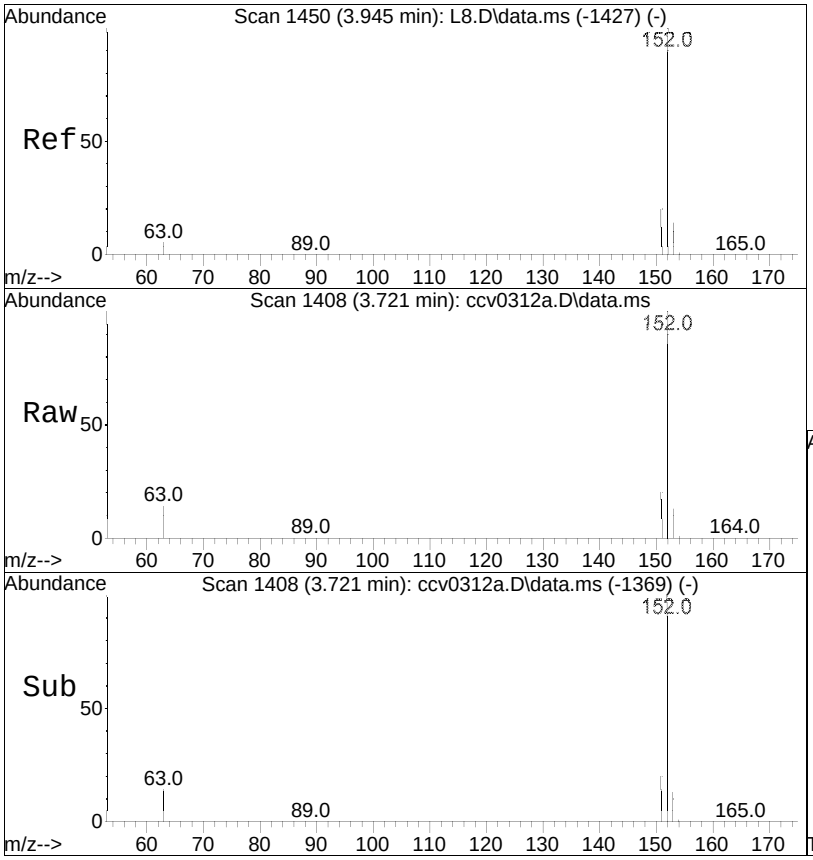


#16
2,6-Dinitrotoluene
Concen: 847.52 ng/ml
RT: 3.692 min Scan# 1393
Delta R.T. 0.000 min
Lab File: ccv0312a.D
Acq: 12 Mar 2025 06:56 am

Tgt Ion:165 Resp: 44474

Ion	Ratio	Lower	Upper
165	100		
89	54.1	37.8	56.8
63	55.7	36.9	55.3#

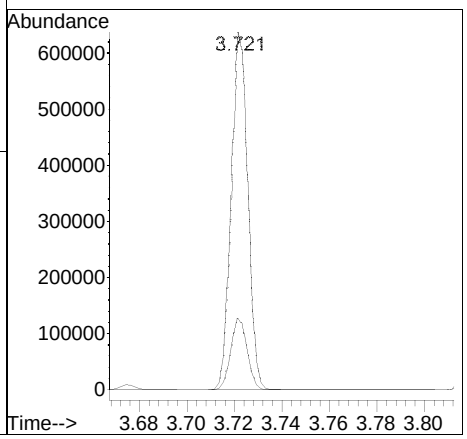


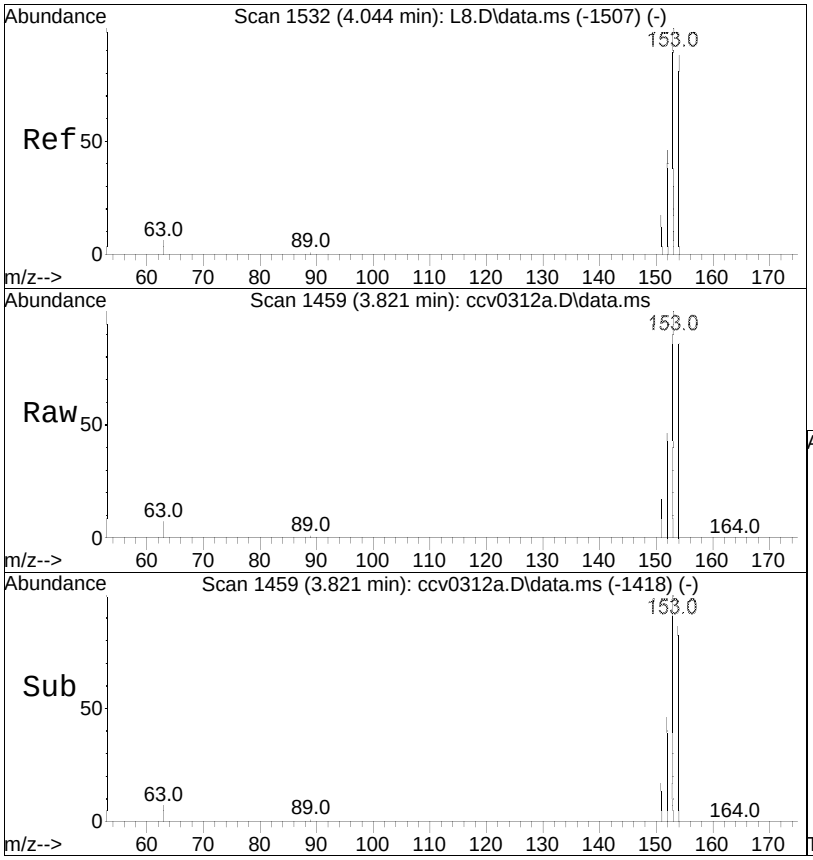


#17
Acenaphthylene
Concen: 920.66 ng/ml
RT: 3.721 min Scan# 1408
Delta R.T. 0.000 min
Lab File: ccv0312a.D
Acq: 12 Mar 2025 06:56 am

Tgt Ion:152 Resp: 303599

Ion	Ratio	Lower	Upper
152	100		
151	20.0	15.9	23.9

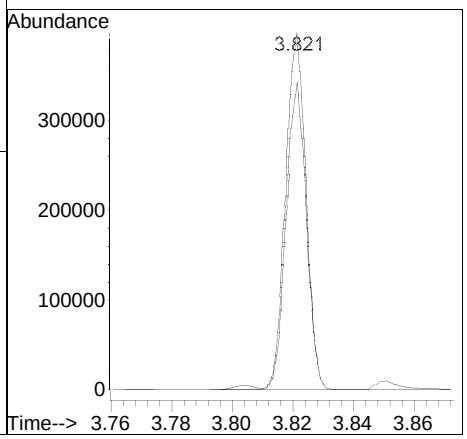


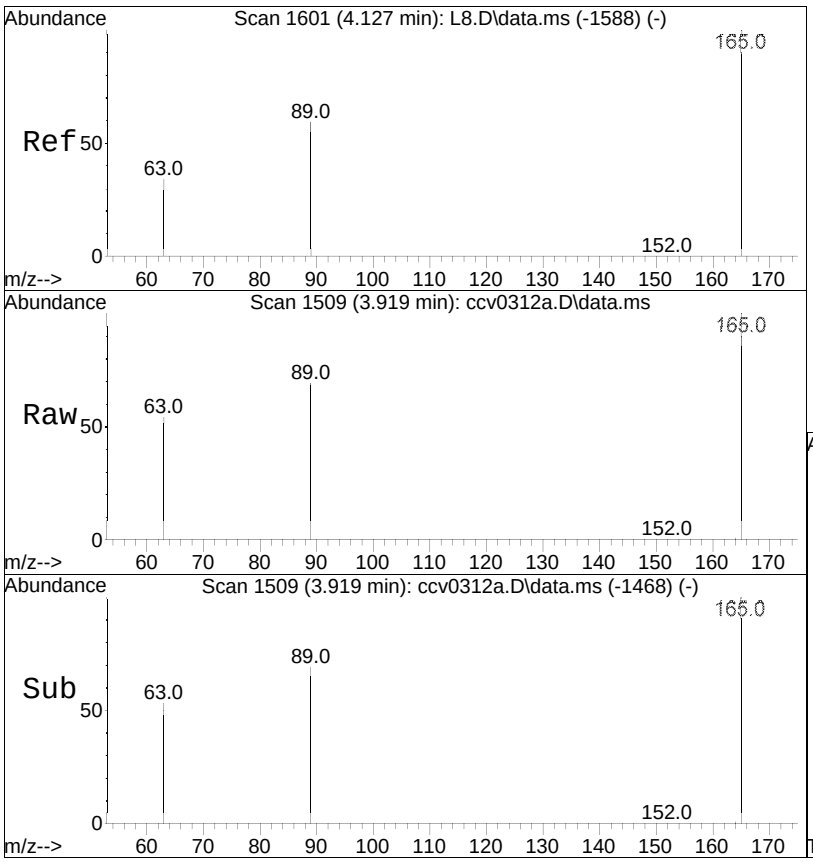


#19
Acenaphthene
Concen: 895.14 ng/ml
RT: 3.821 min Scan# 1459
Delta R.T. 0.000 min
Lab File: ccv0312a.D
Acq: 12 Mar 2025 06:56 am

Tgt Ion:153 Resp: 183979

Ion	Ratio	Lower	Upper
153	100		
154	85.3	73.1	109.7

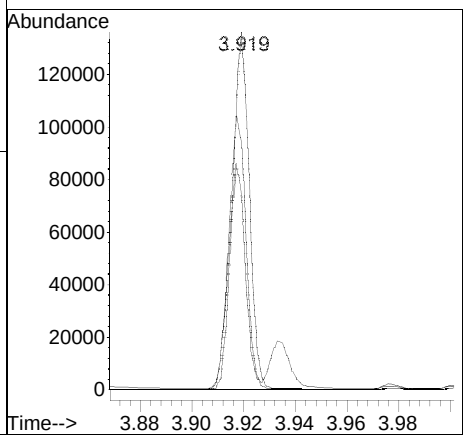


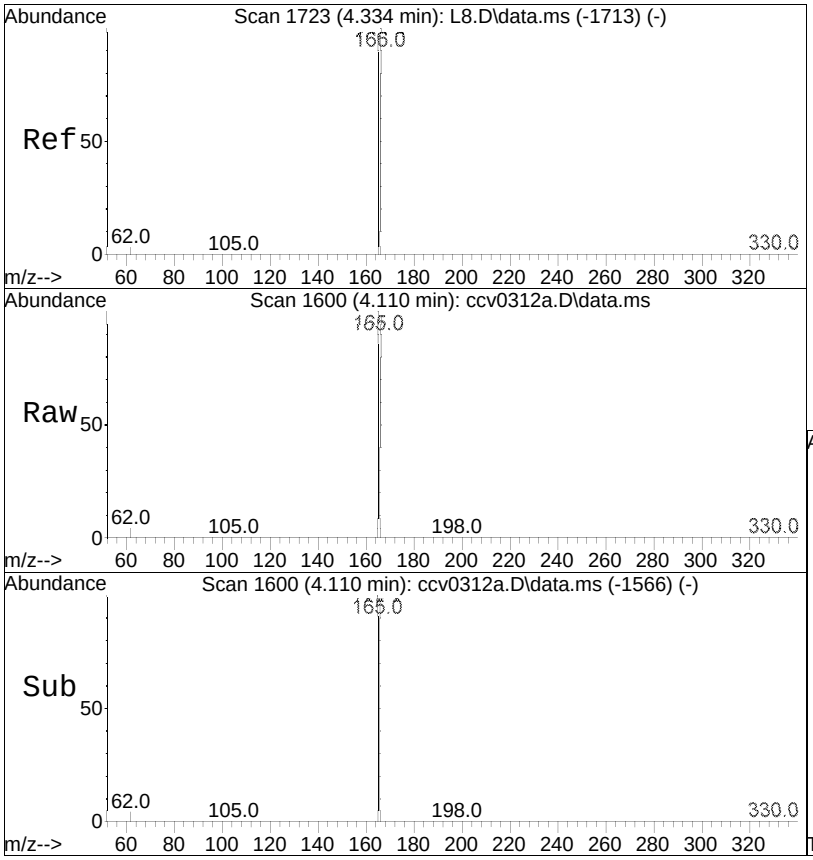


#20
2,4-Dinitrotoluene
Concen: 915.38 ng/ml
RT: 3.919 min Scan# 1509
Delta R.T. 0.000 min
Lab File: ccv0312a.D
Acq: 12 Mar 2025 06:56 am

Tgt Ion:165 Resp: 59848

Ion	Ratio	Lower	Upper
165	100		
89	79.6	48.7	73.1#
63	64.9	28.6	42.8#

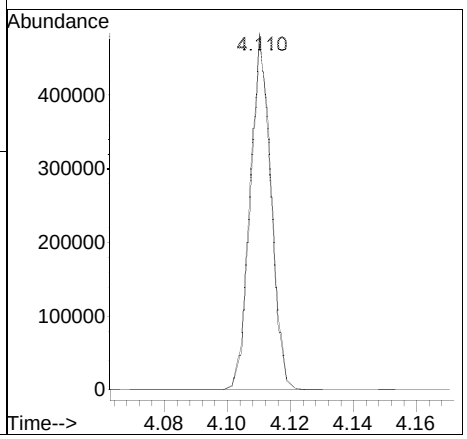


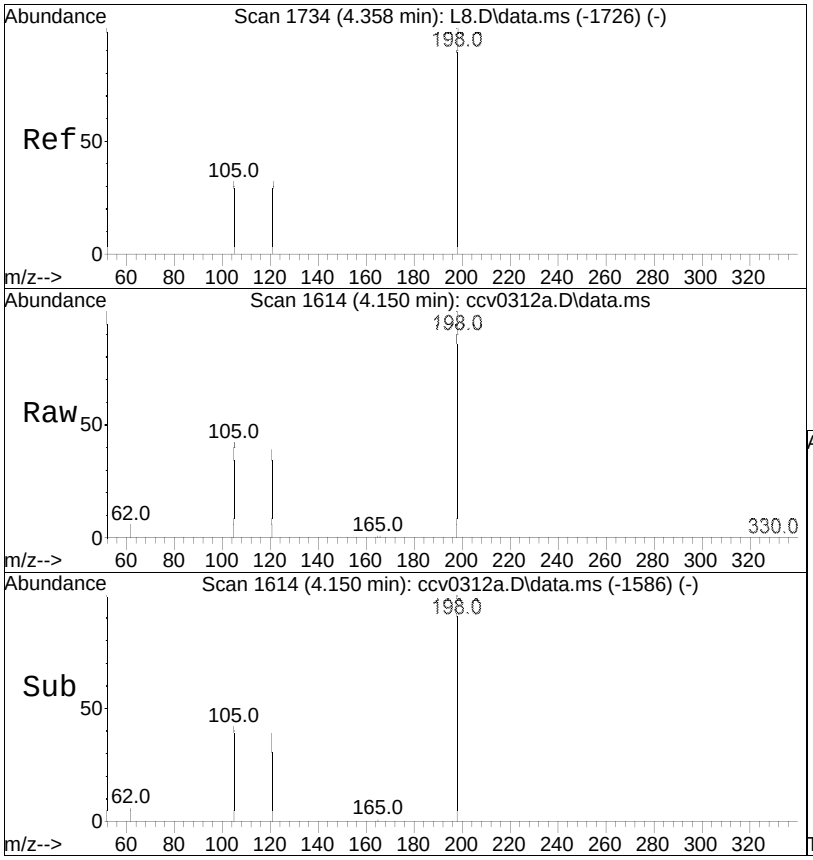


#21
Fluorene
Concen: 928.14 ng/ml
RT: 4.110 min Scan# 1600
Delta R.T. 0.000 min
Lab File: ccv0312a.D
Acq: 12 Mar 2025 06:56 am

Tgt Ion:166 Resp: 219168

Ion	Ratio	Lower	Upper
166	100		
165	100.8	77.8	116.8

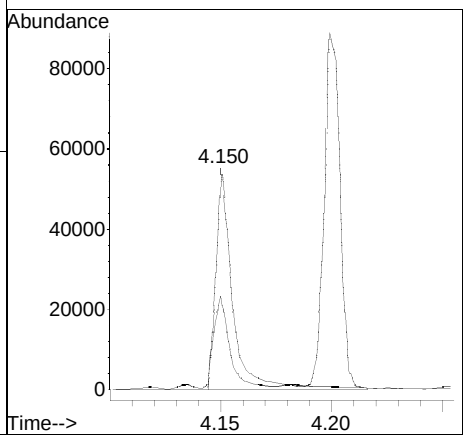


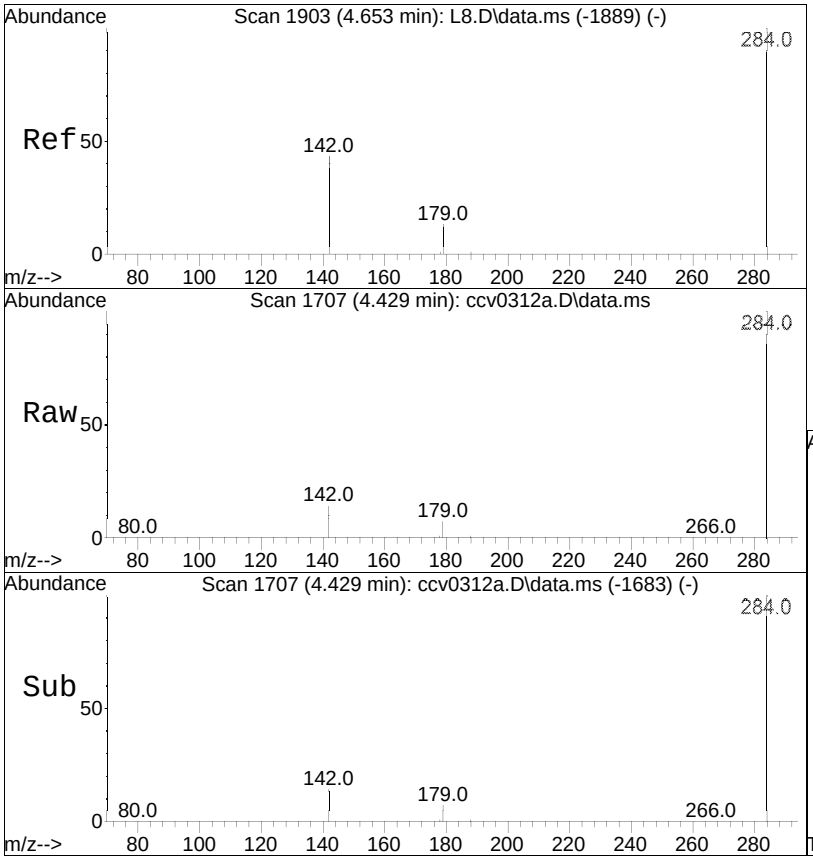


#24
4,6-Dinitro-o-cresol
Concen: 704.45 ng/ml
RT: 4.150 min Scan# 1614
Delta R.T. 0.000 min
Lab File: ccv0312a.D
Acq: 12 Mar 2025 06:56 am

Tgt Ion:198 Resp: 29219

Ion	Ratio	Lower	Upper
198	100		
105	39.8	30.6	45.8

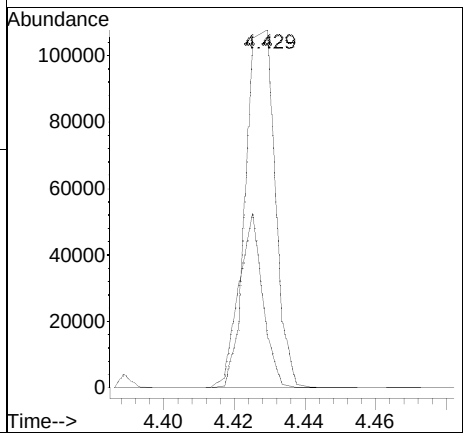


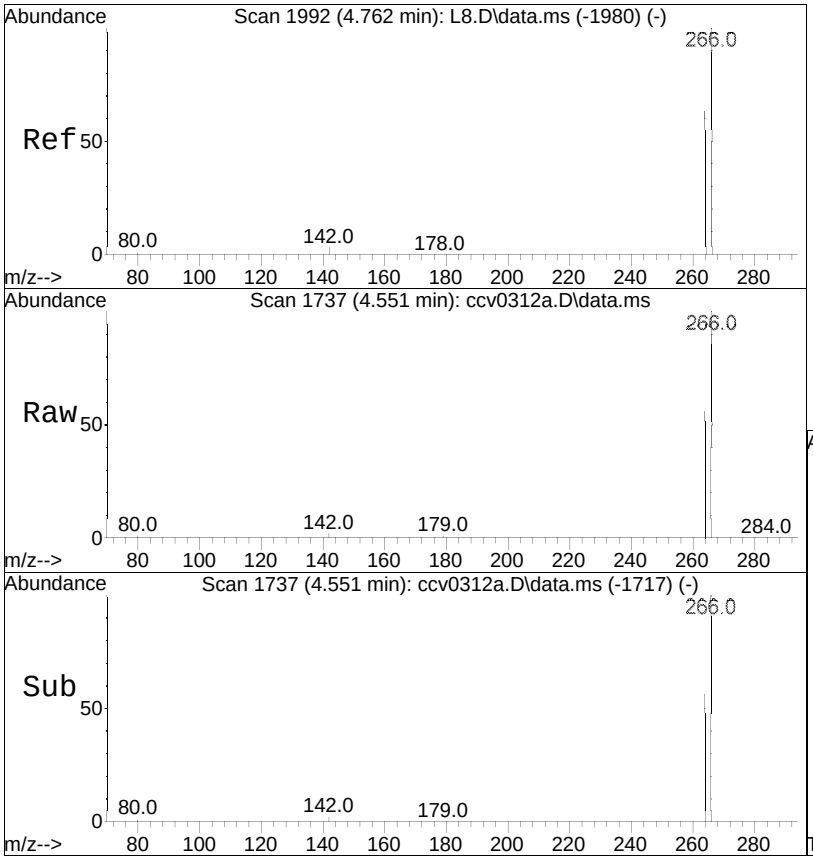


#25
Hexachlorobenzene
Concen: 814.82 ng/ml M6
RT: 4.429 min Scan# 1707
Delta R.T. 0.000 min
Lab File: ccv0312a.D
Acq: 12 Mar 2025 06:56 am

Tgt Ion:284 Resp: 61418

Ion	Ratio	Lower	Upper
284	100		
142	40.5	33.8	50.6

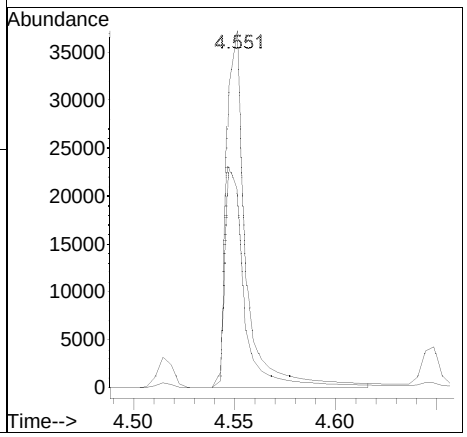


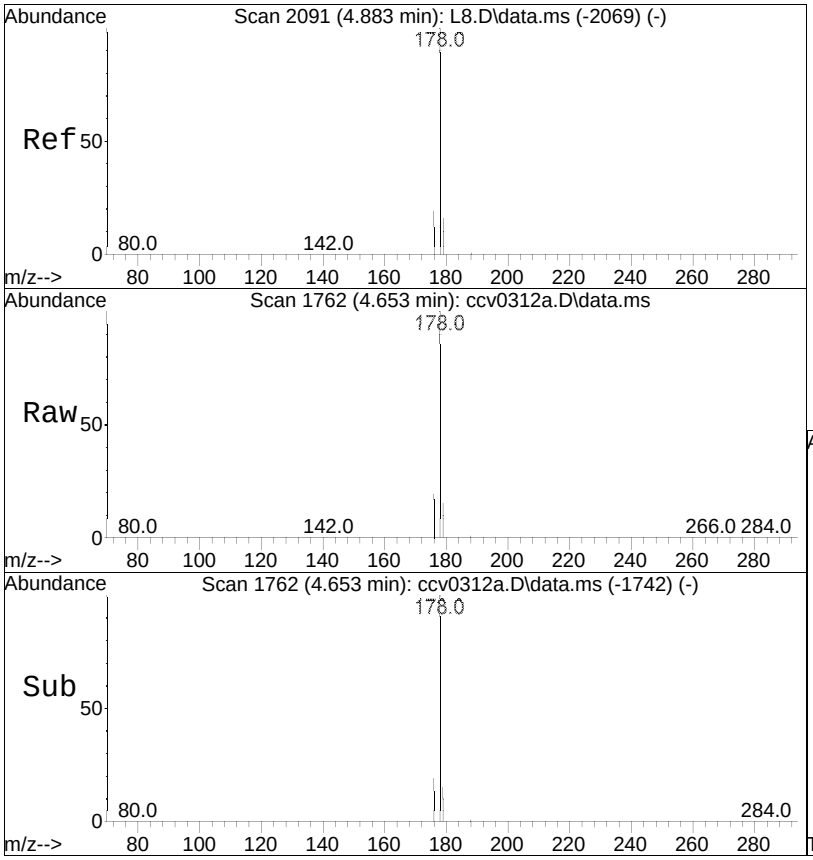


#26
Pentachlorophenol
Concen: 649.40 ng/ml
RT: 4.551 min Scan# 1737
Delta R.T. 0.000 min
Lab File: ccv0312a.D
Acq: 12 Mar 2025 06:56 am

Tgt Ion:266 Resp: 24359

Ion	Ratio	Lower	Upper
266	100		
264	63.0	50.8	76.2

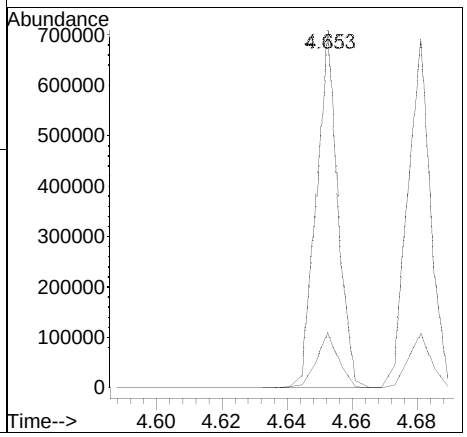


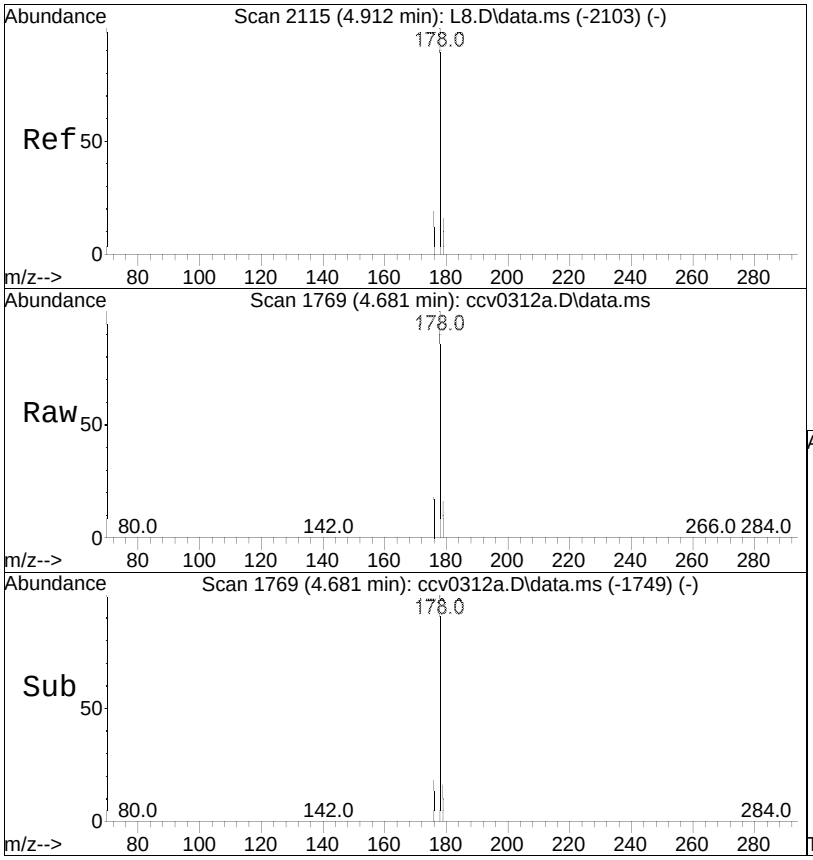


#27
Phenanthrene
Concen: 867.50 ng/ml
RT: 4.653 min Scan# 1762
Delta R.T. 0.000 min
Lab File: ccv0312a.D
Acq: 12 Mar 2025 06:56 am

Tgt Ion:178 Resp: 324351

Ion	Ratio	Lower	Upper
178	100		
179	15.9	12.8	19.2

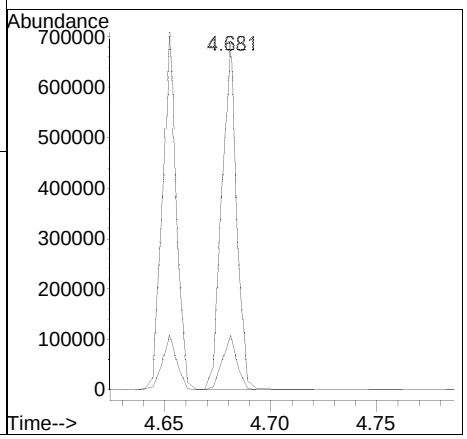


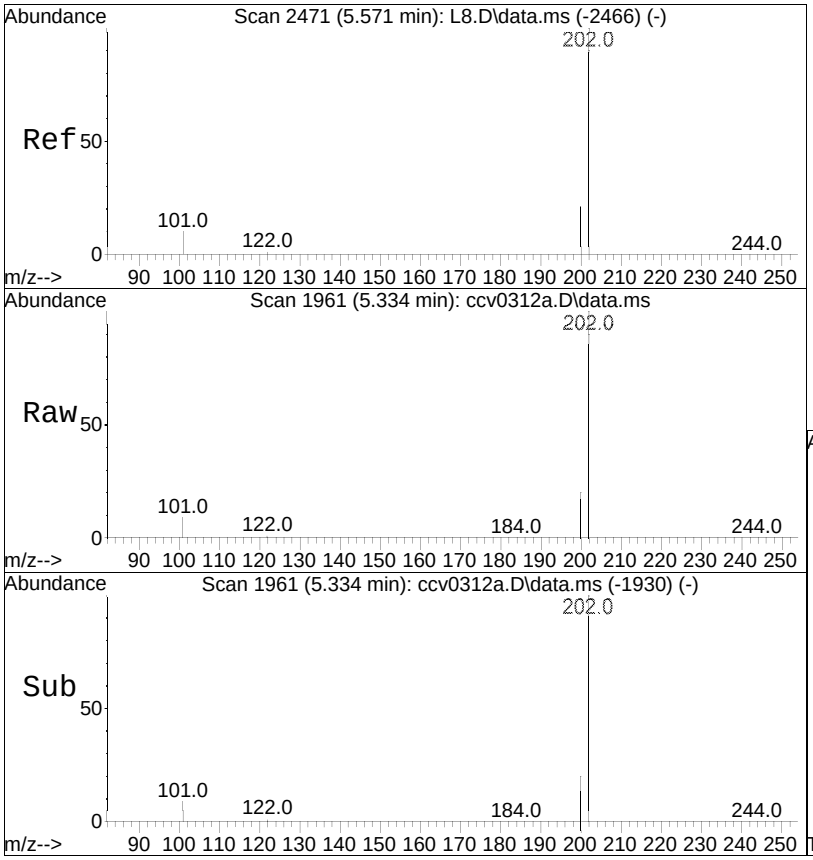


#28
Anthracene
Concen: 903.34 ng/ml
RT: 4.681 min Scan# 1769
Delta R.T. 0.000 min
Lab File: ccv0312a.D
Acq: 12 Mar 2025 06:56 am

Tgt Ion:178 Resp: 338631

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.6	18.8

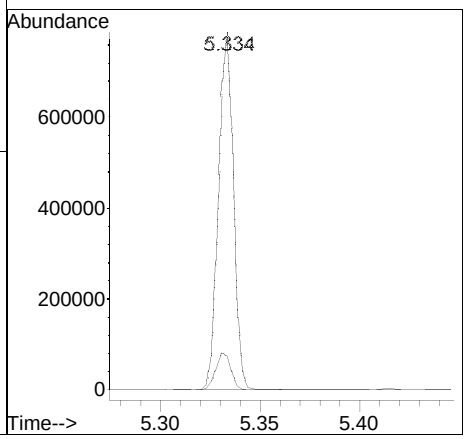


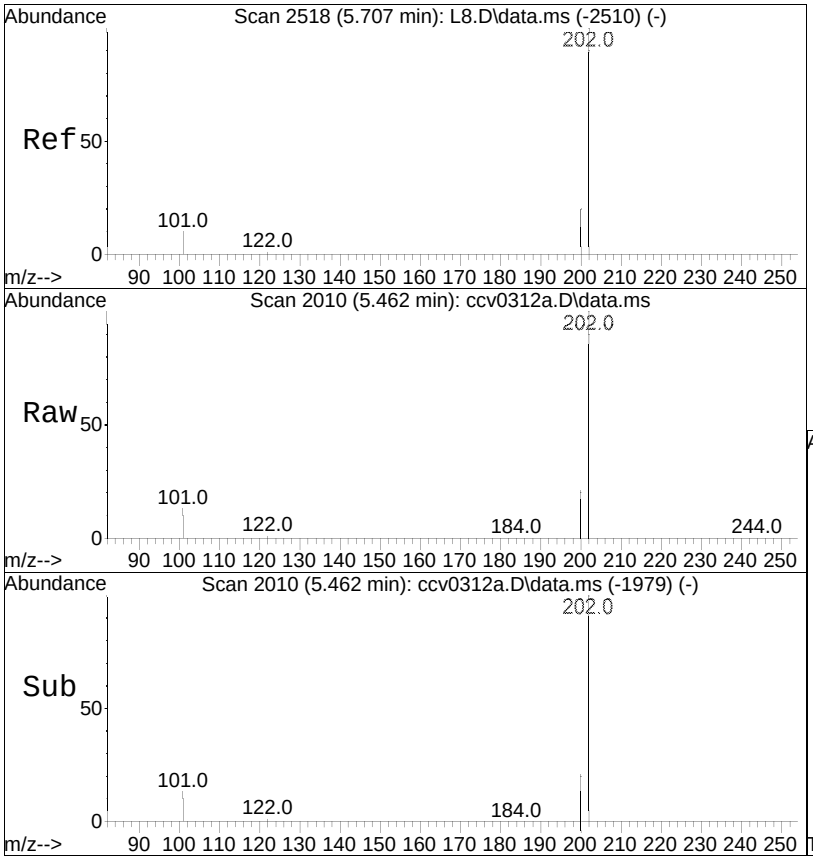


#29
Fluoranthene
Concen: 866.17 ng/ml
RT: 5.334 min Scan# 1961
Delta R.T. 0.000 min
Lab File: ccv0312a.D
Acq: 12 Mar 2025 06:56 am

Tgt Ion:202 Resp: 405172

Ion	Ratio	Lower	Upper
202	100		
101	10.6	8.2	12.2

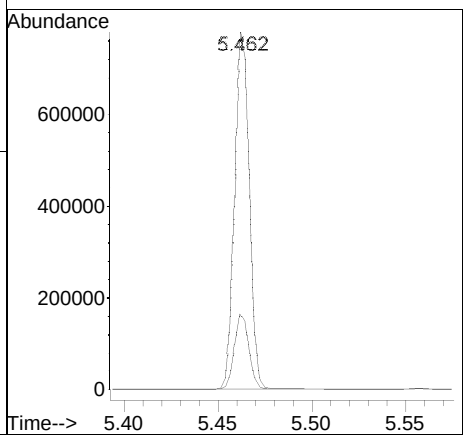


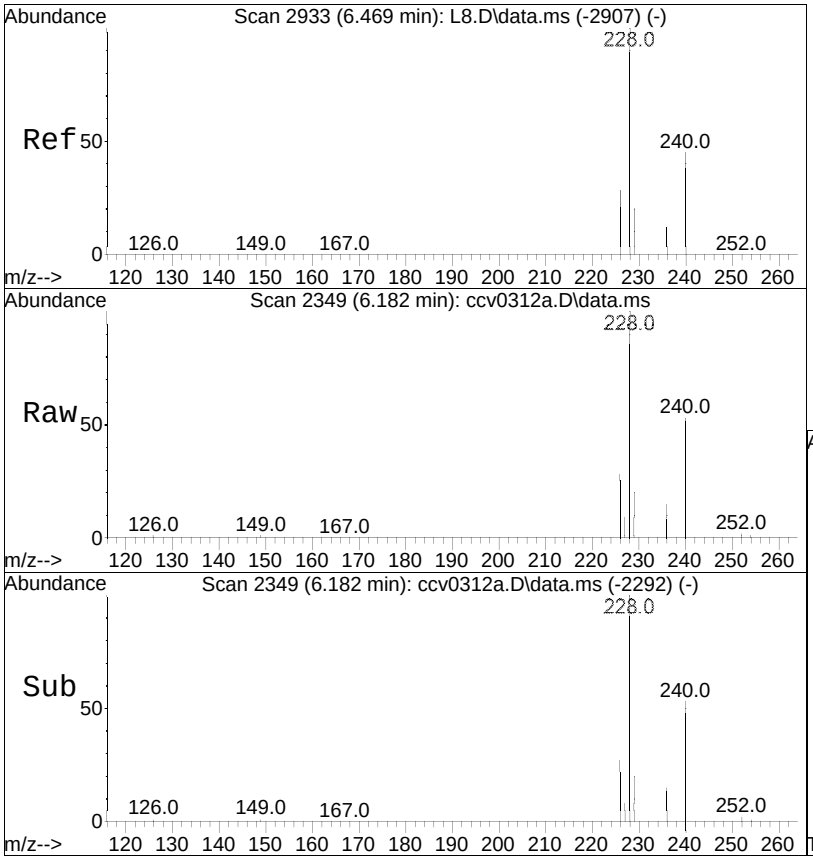


#30
Pyrene
Concen: 865.57 ng/ml
RT: 5.462 min Scan# 2010
Delta R.T. 0.000 min
Lab File: ccv0312a.D
Acq: 12 Mar 2025 06:56 am

Tgt Ion:202 Resp: 417922

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.9	25.3

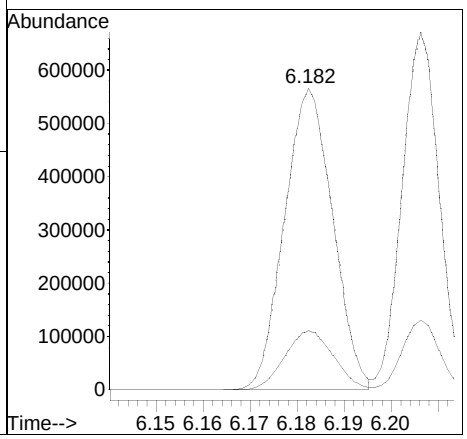


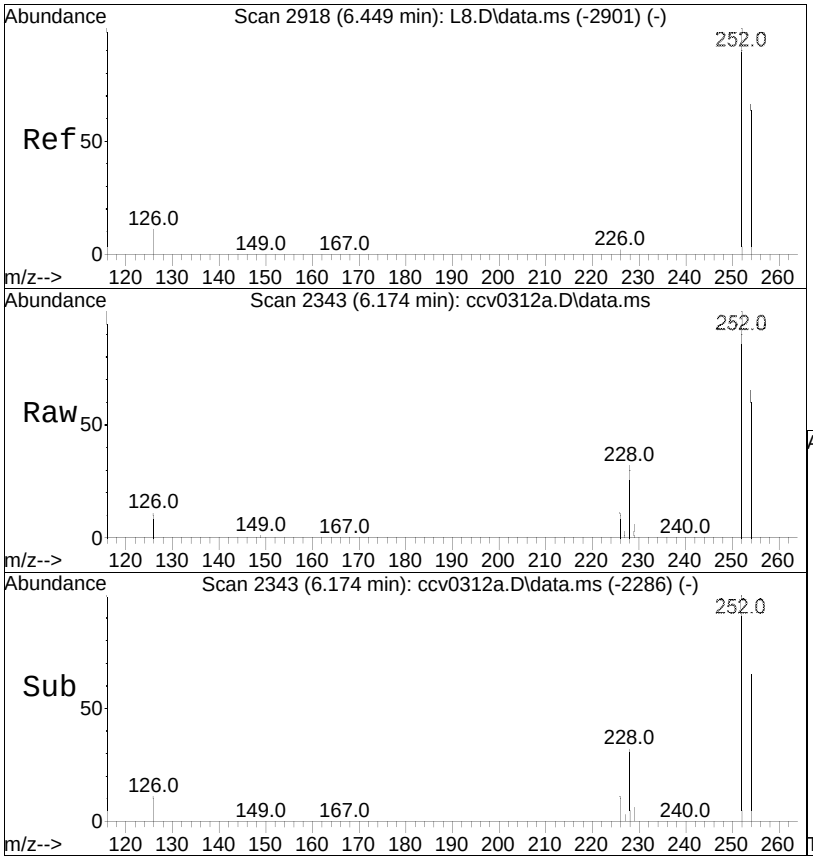


#34
Benzo[a]anthracene
Concen: 908.04 ng/ml
RT: 6.182 min Scan# 2349
Delta R.T. 0.000 min
Lab File: ccv0312a.D
Acq: 12 Mar 2025 06:56 am

Tgt Ion:228 Resp: 402962

Ion	Ratio	Lower	Upper
228	100		
229	19.7	15.9	23.9

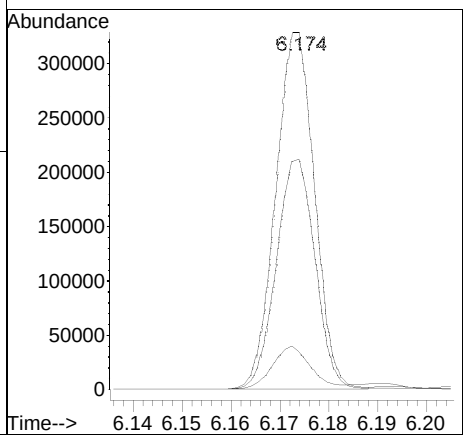


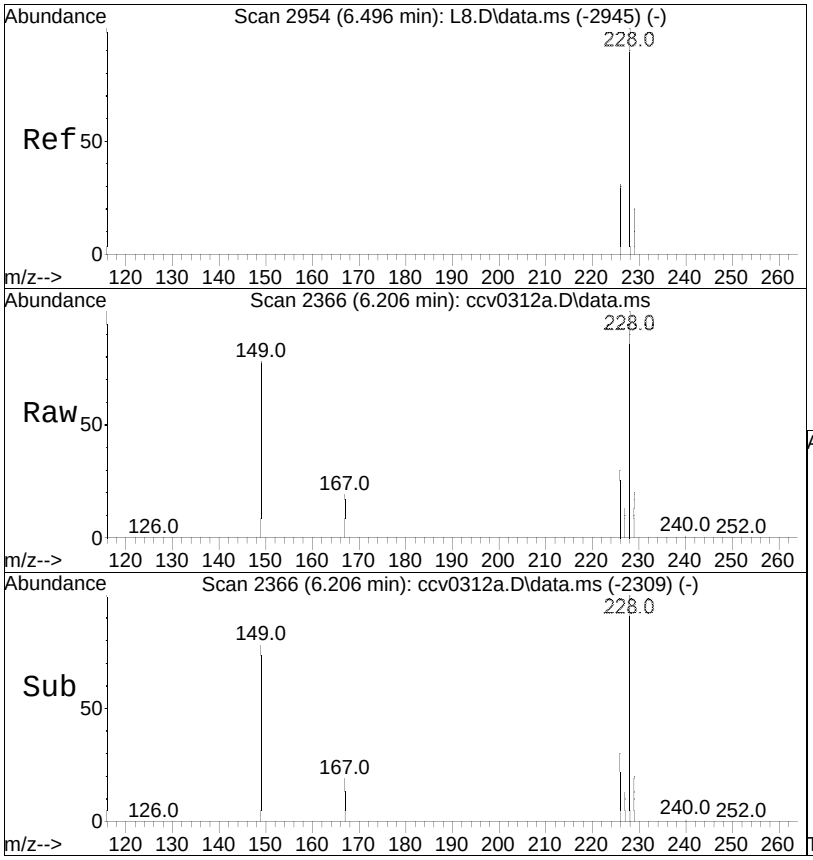


#35
3,3'-Dichlorobenzidine
Concen: 1135.77 ng/ml
RT: 6.174 min Scan# 2343
Delta R.T. 0.000 min
Lab File: ccv0312a.D
Acq: 12 Mar 2025 06:56 am

Tgt Ion:252 Resp: 179264

Ion	Ratio	Lower	Upper
252	100		
126	12.2	8.6	13.0
254	64.9	51.8	77.8

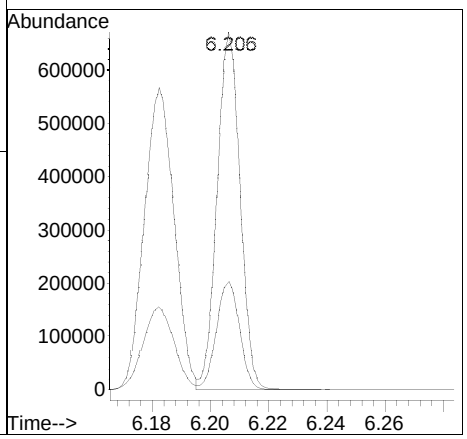


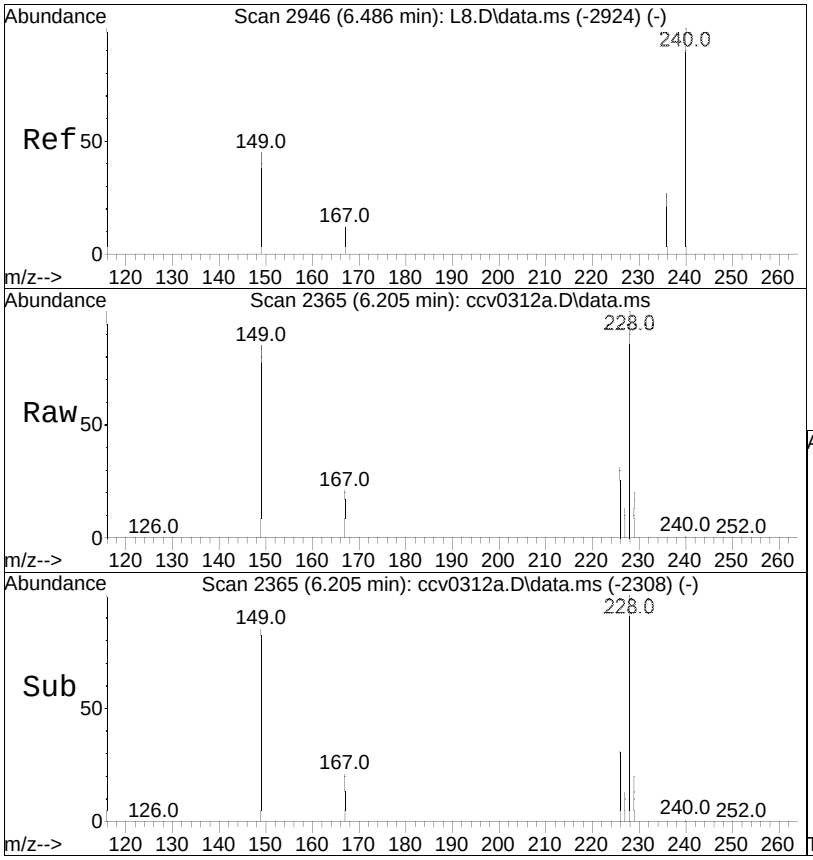


#36
Chrysene
Concen: 852.01 ng/ml
RT: 6.206 min Scan# 2366
Delta R.T. 0.000 min
Lab File: ccv0312a.D
Acq: 12 Mar 2025 06:56 am

Tgt Ion:228 Resp: 367227

Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.4	36.6

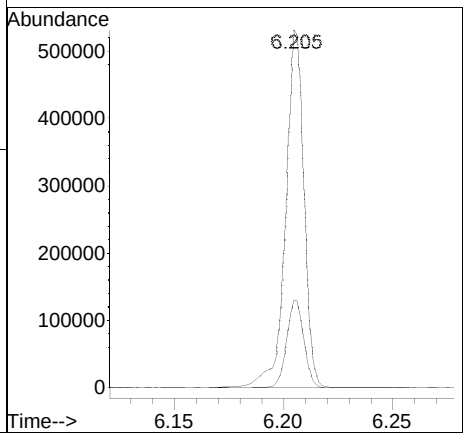


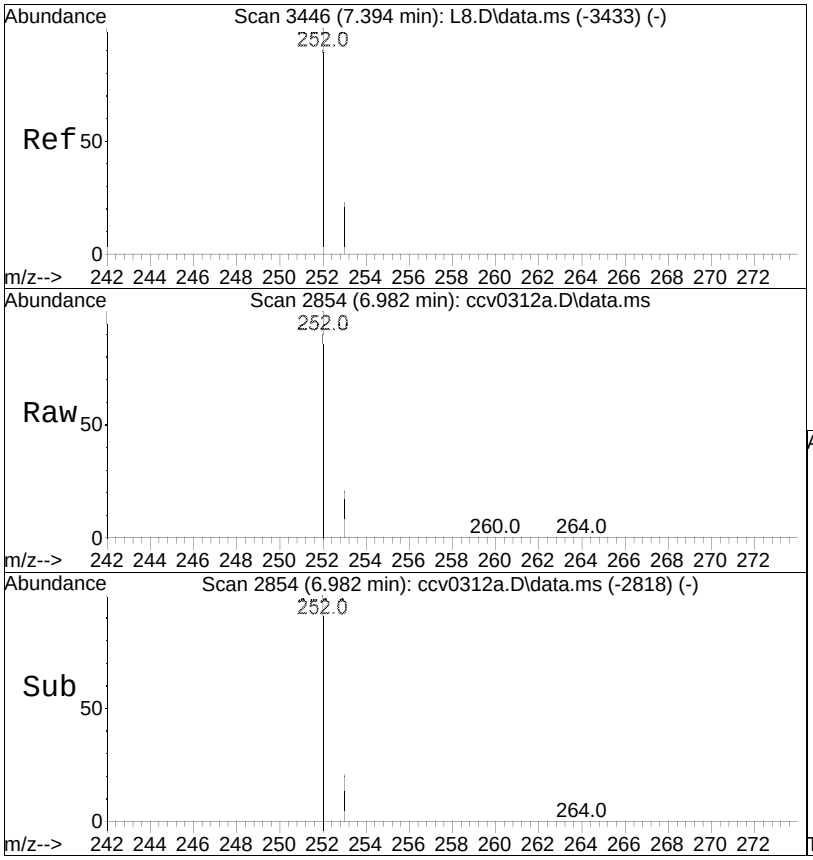


#37
Bis(2-ethylhexyl)phthalate
Concen: 1360.48 ng/ml
RT: 6.205 min Scan# 2365
Delta R.T. 0.000 min
Lab File: ccv0312a.D
Acq: 12 Mar 2025 06:56 am

Tgt Ion:149 Resp: 304199

Ion	Ratio	Lower	Upper
149	100		
167	23.2	20.7	31.1

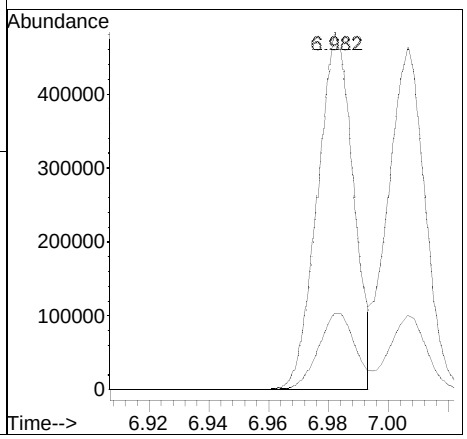


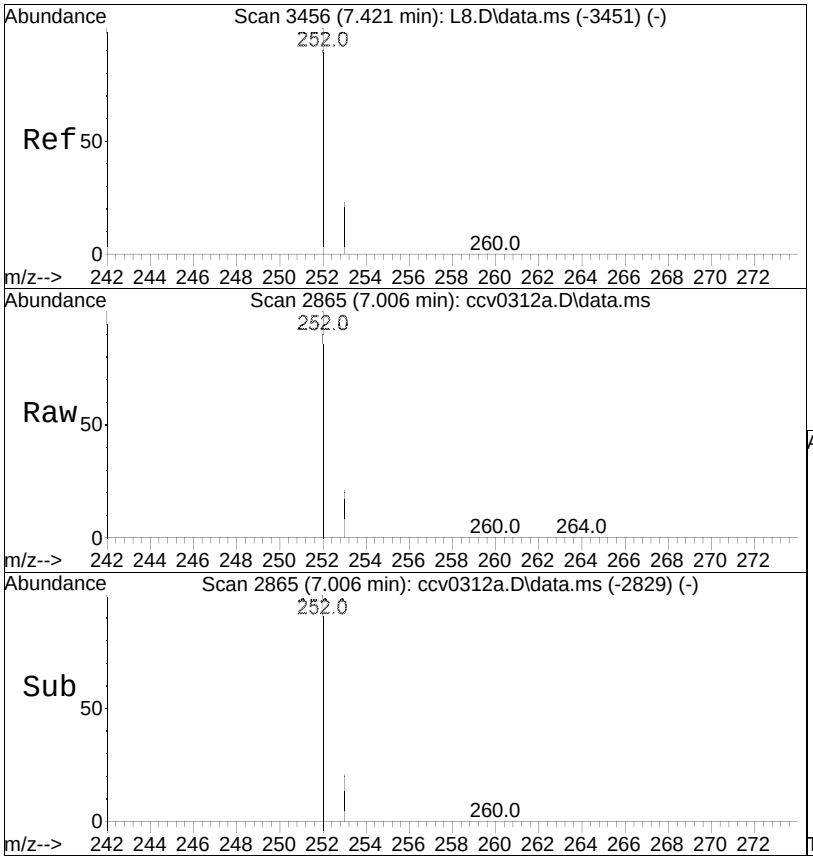


#39
Benzo[b]fluoranthene
Concen: 932.05 ng/ml
RT: 6.982 min Scan# 2854
Delta R.T. 0.000 min
Lab File: ccv0312a.D
Acq: 12 Mar 2025 06:56 am

Tgt Ion:252 Resp: 404891

Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.1	27.1

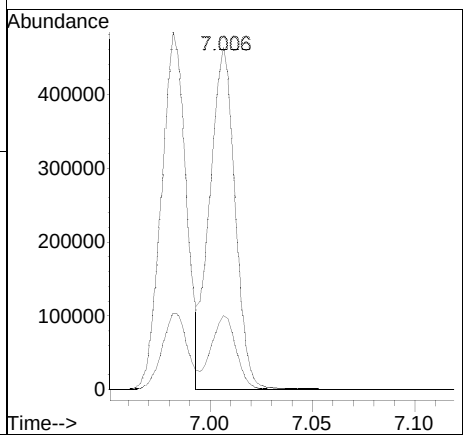


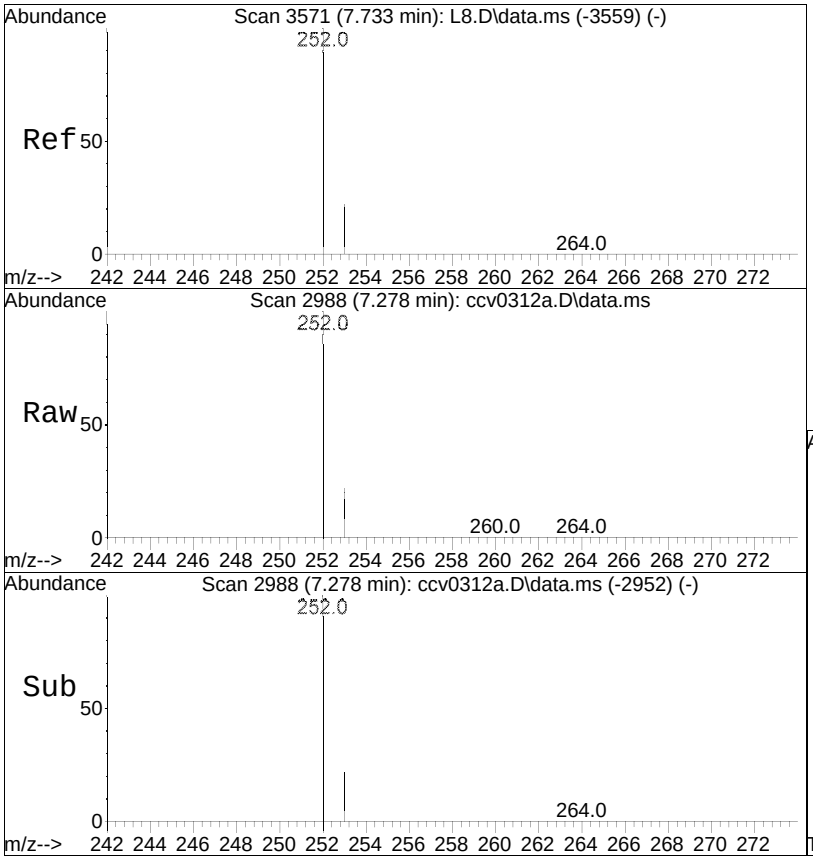


#40
Benzo[k]fluoranthene
Concen: 926.64 ng/ml
RT: 7.006 min Scan# 2865
Delta R.T. 0.000 min
Lab File: ccv0312a.D
Acq: 12 Mar 2025 06:56 am

Tgt Ion:252 Resp: 396959

Ion	Ratio	Lower	Upper
252	100		
253	21.0	18.2	27.2

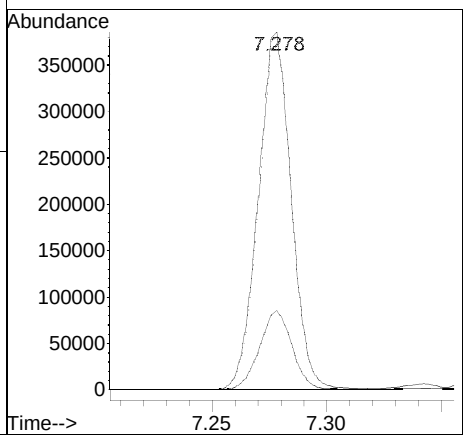


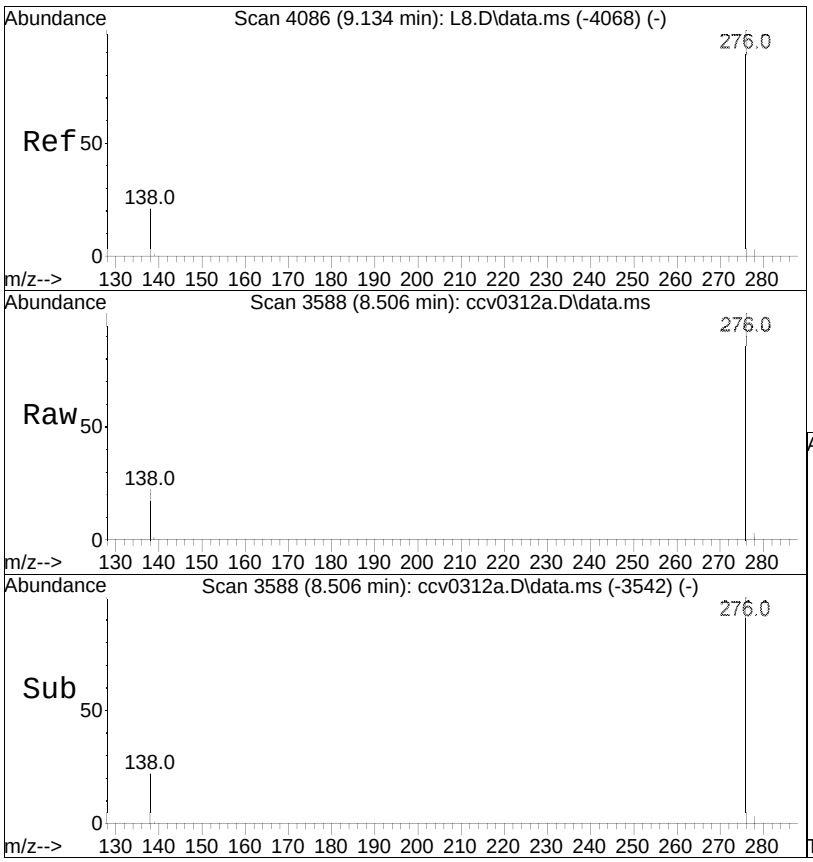


#41
Benzo[a]pyrene
Concen: 1029.46 ng/ml
RT: 7.278 min Scan# 2988
Delta R.T. 0.000 min
Lab File: ccv0312a.D
Acq: 12 Mar 2025 06:56 am

Tgt Ion:252 Resp: 379466

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.9	26.9

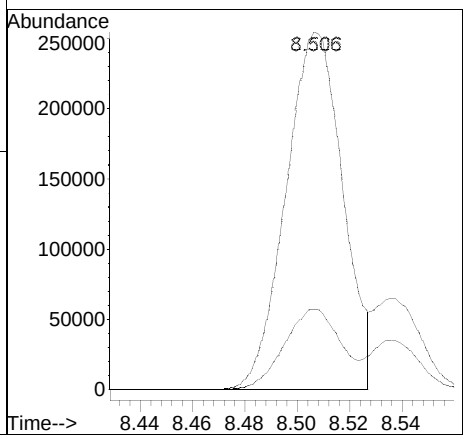


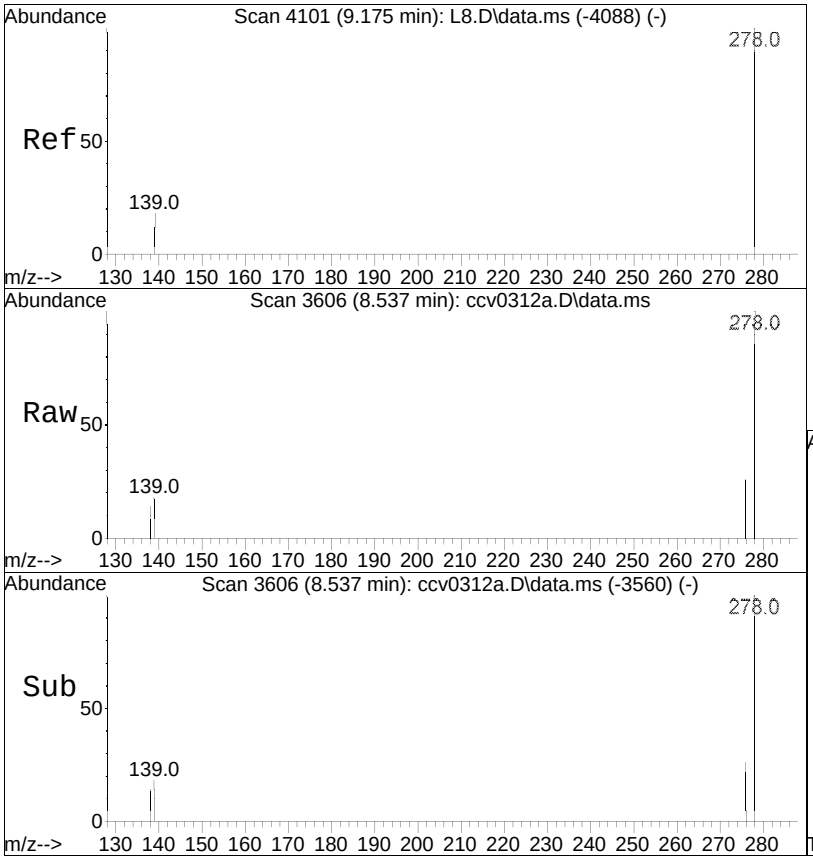


#42
Indeno[1,2,3-cd]pyrene
Concen: 1069.48 ng/ml
RT: 8.506 min Scan# 3588
Delta R.T. 0.000 min
Lab File: ccv0312a.D
Acq: 12 Mar 2025 06:56 am

Tgt Ion:276 Resp: 381651

Ion	Ratio	Lower	Upper
276	100		
138	22.4	16.9	25.3

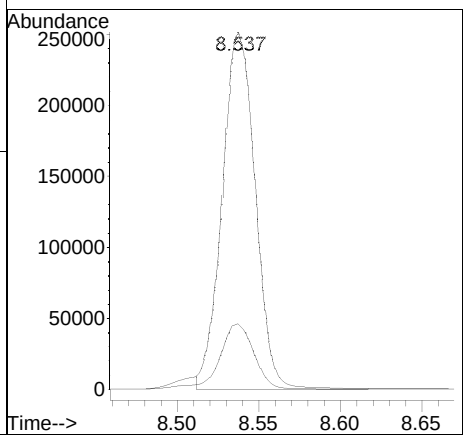


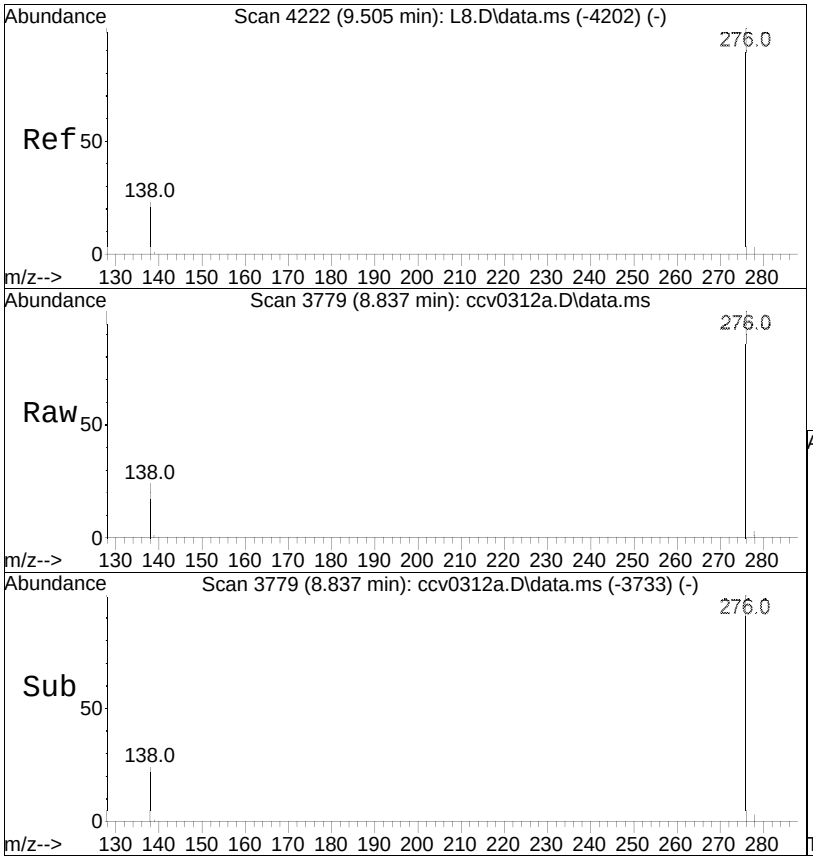


#43
Dibenzo[a,h]anthracene
Concen: 1065.43 ng/ml M6
RT: 8.537 min Scan# 3606
Delta R.T. 0.000 min
Lab File: ccv0312a.D
Acq: 12 Mar 2025 06:56 am

Tgt Ion:278 Resp: 352711

Ion	Ratio	Lower	Upper
278	100		
139	19.2	14.6	22.0

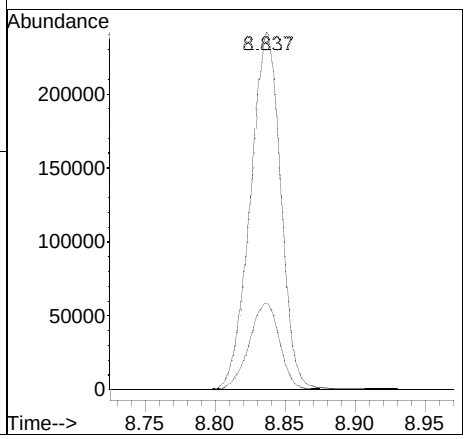




#44
Benzo[g,h,i]perylene
Concen: 1060.30 ng/ml
RT: 8.837 min Scan# 3779
Delta R.T. 0.000 min
Lab File: ccv0312a.D
Acq: 12 Mar 2025 06:56 am

Tgt Ion:276 Resp: 360132

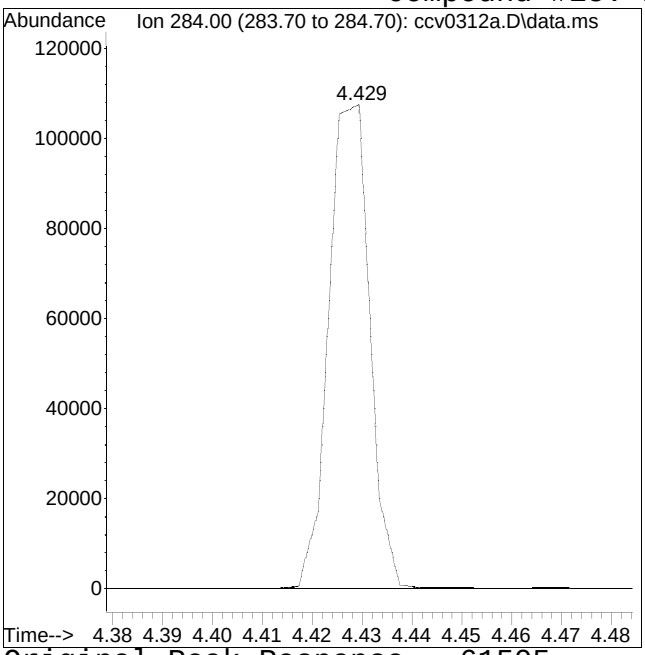
Ion	Ratio	Lower	Upper
276	100		
138	24.5	18.6	28.0



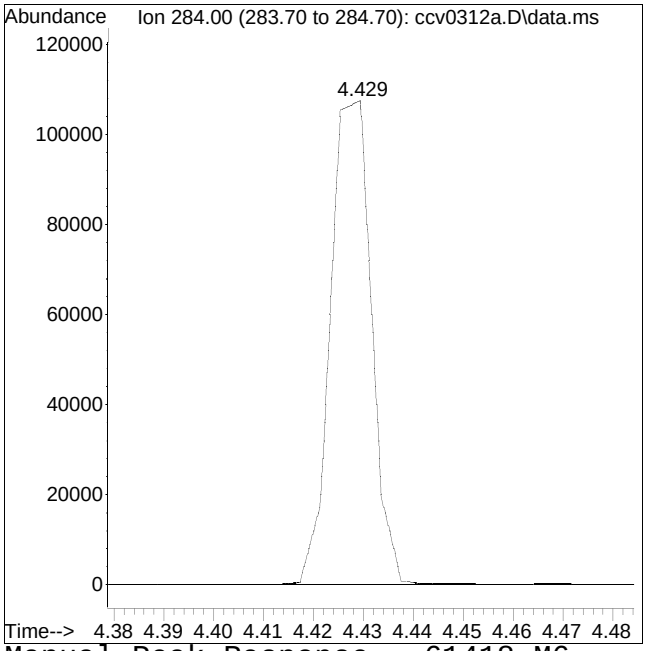
Manual Integration Report

Data Path : I:\8270SIM\sv119\250312RVTQ
Data File : ccv0312a.D
Date Inj'd : 3/12/2025 6:56 am
Sample : wg2039433-3,32,,ICV 11275
Method : SIM-RVT_241229_sv119.M
Operator : sv119:kmh
Instrument : SV119
Quant Date : 3/12/2025 7:11 am

Compound #25: Hexachlorobenzene



Original Peak Response = 61505



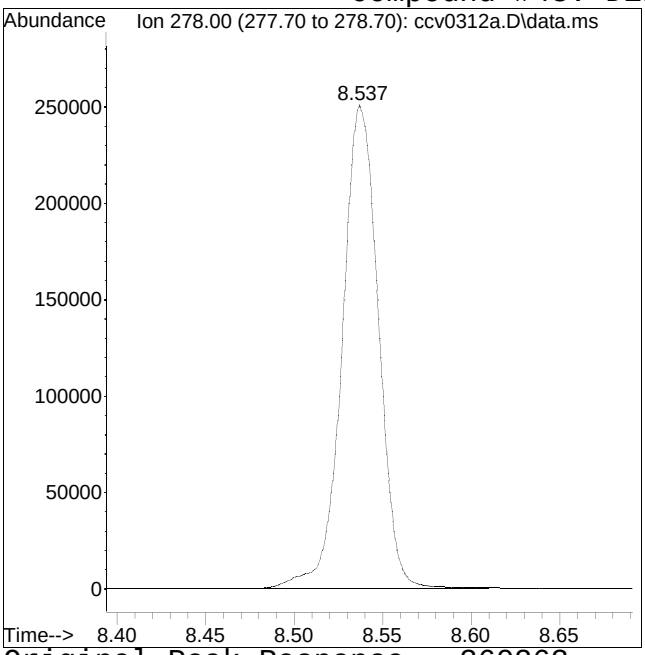
Manual Peak Response = 61418 M6

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

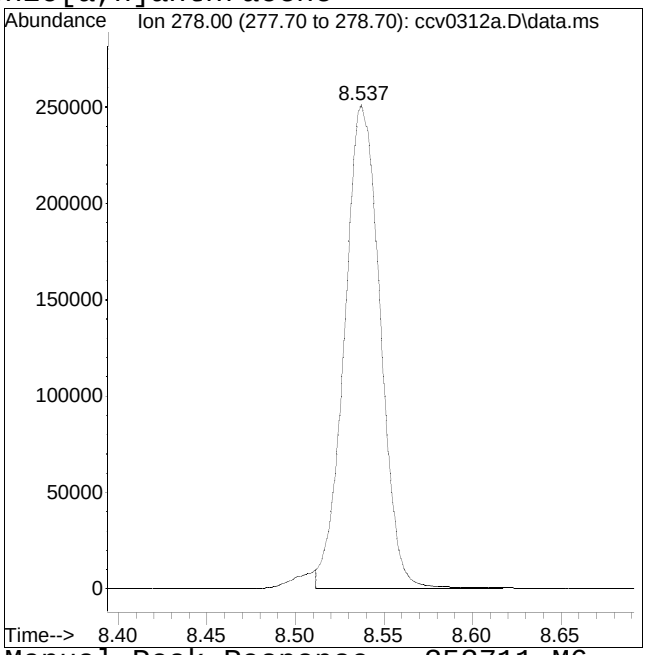
Manual Integration Report

Data Path : I:\8270SIM\sv119\250312RVTQ
Data File : ccv0312a.D
Date Inj'd : 3/12/2025 6:56 am
Sample : wg2039433-3,32,,ICV 11275
Method : SIM-RVT_241229_sv119.M
Operator : sv119:kmh
Instrument : SV119
Quant Date : 3/12/2025 7:11 am

Compound #43: Dibenzo[a,h]anthracene



Original Peak Response = 360263



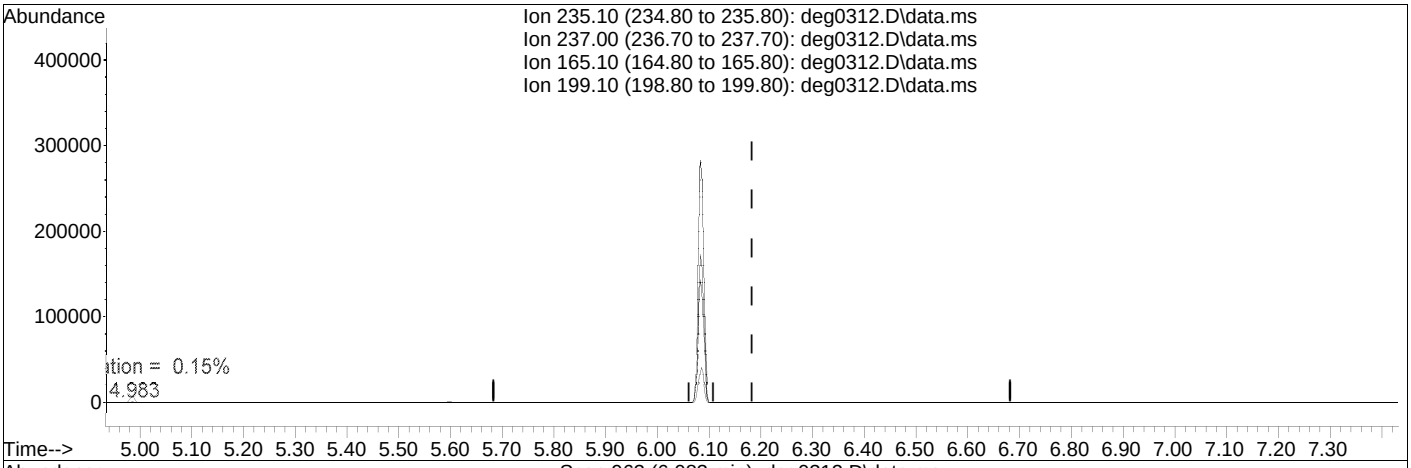
Manual Peak Response = 352711 M6

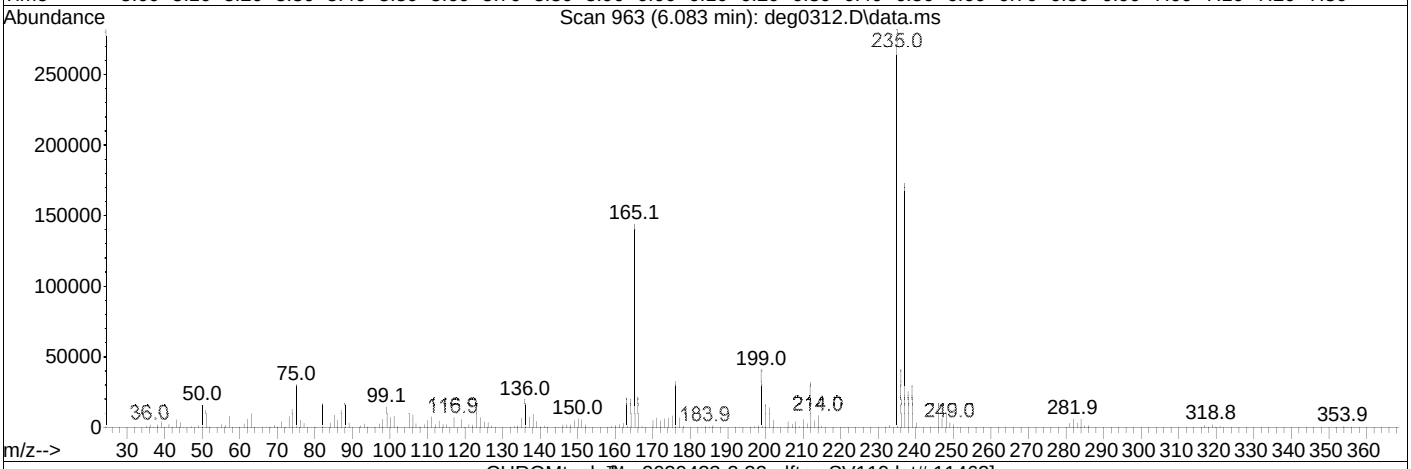
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\250312RVT\
Data File : deg0312.D
Acq On : 12 Mar 2025 06:22 am
Operator : sv119:kmh
Sample : wg2039433-2,32,,dftpp SV119 lot# 11462
Misc : wg2039433,,ical21826
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Mar 12 06:35:54 2025
Quant Method : I:\8270SIM\sv119\250312RVT\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jan 31 09:20:30 2025
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





CHROMtools [wg2039433-2,32,,dftpp SV119 lot# 11462]

(6) ddt (T)

6.083min (-0.100) 33.04

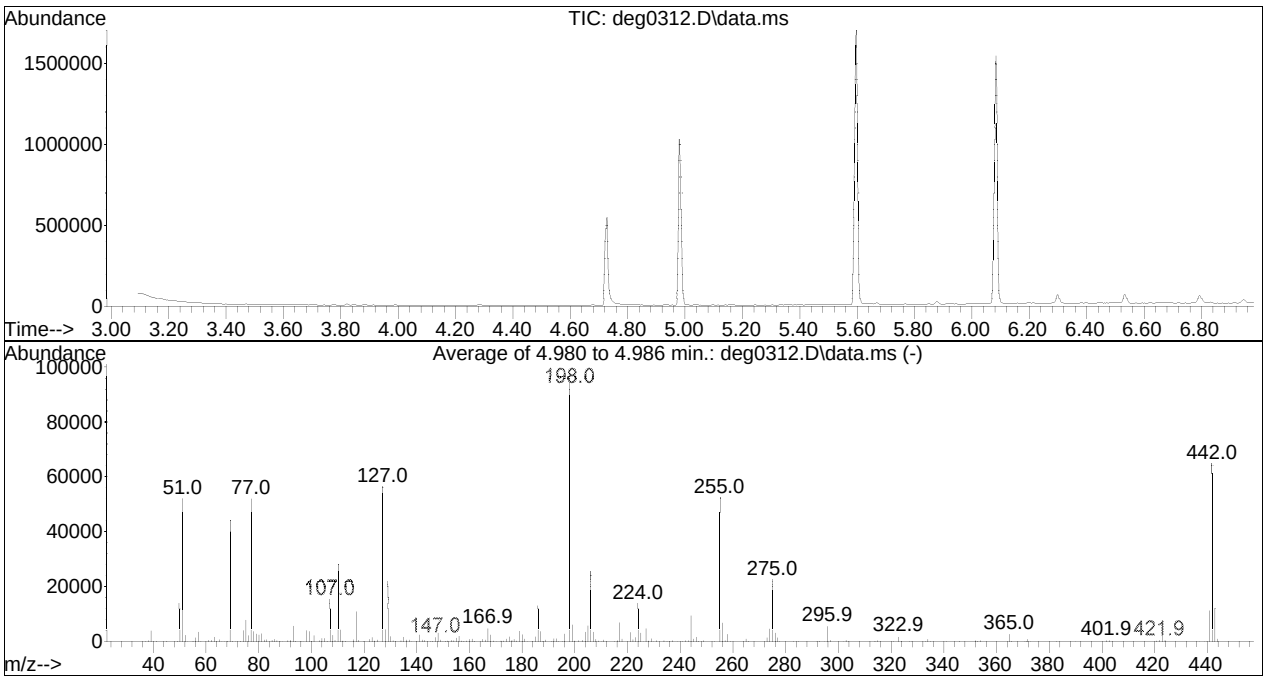
response 201404

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	62.31
165.10	53.30	50.58
199.10	17.10	14.40

Data Path : I:\8270SIM\sv119\250312RVT\
Data File : deg0312.D
Acq On : 12 Mar 2025 06:22 am
Operator : sv119:kmh
Sample : wg2039433-1,32,,dftpp SV119 lot# 11462
Misc : wg2039433,,ical21826
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270sim\sv119\250312RVT\SIM-RVT_241229_sv119.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Mar 12 07:11:48 2025



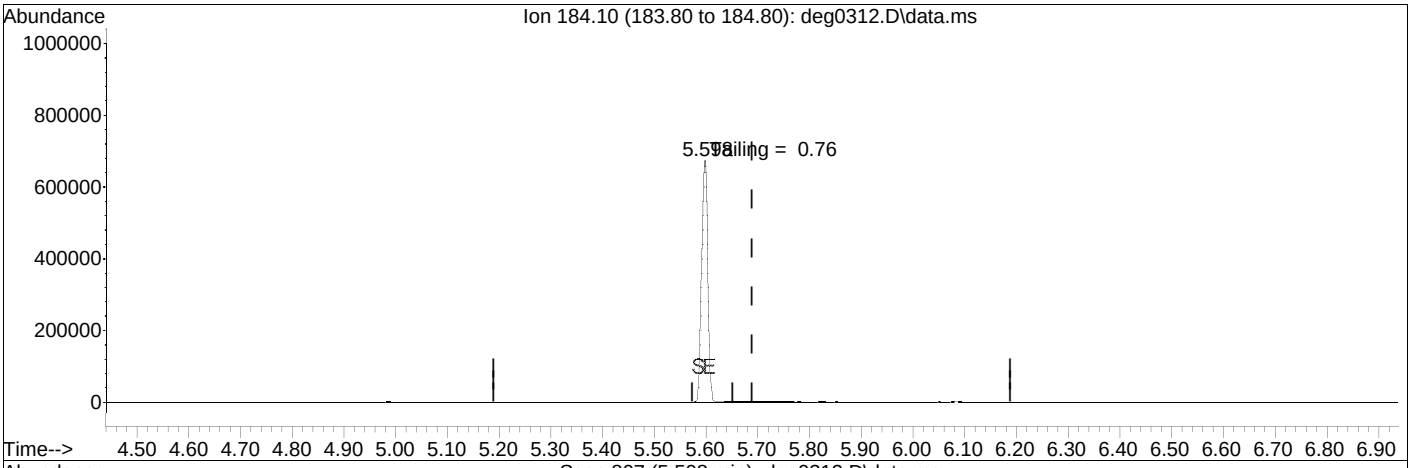
Spectrum Information: Average of 4.980 to 4.986 min.

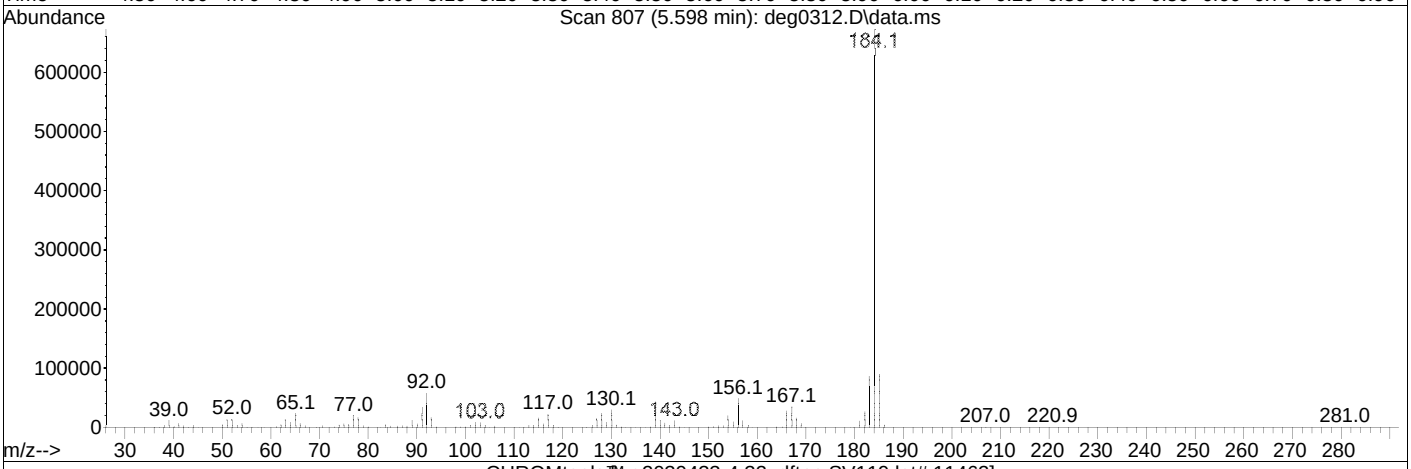
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	54.0	51928	PASS
68	69	0.00	2	0.9	391	PASS
69	69	100	100	100.0	44195	PASS
70	69	0.00	2	0.8	350	PASS
127	198	10	80	58.6	56352	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	96200	PASS
199	198	5	9	6.4	6160	PASS
275	198	10	60	23.2	22349	PASS
365	198	1	100	3.0	2850	PASS
441	442	0.01	24	17.2	11124	PASS
442	198	50	100	67.4	64824	PASS
443	442	15	24	18.9	12234	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\250312RVT\
Data File : deg0312.D
Acq On : 12 Mar 2025 06:22 am
Operator : sv119:kmh
Sample : wg2039433-4,32,,dftpp SV119 lot# 11462
Misc : wg2039433,,ical21826
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Mar 12 06:35:54 2025
Quant Method : I:\8270SIM\sv119\250312RVT\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jan 31 09:20:30 2025
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





CHROMtools [wg2039433-4,32,,dftpp SV119 lot# 11462]

(3) benzidine (T)

5.598min (-0.091) 49.44

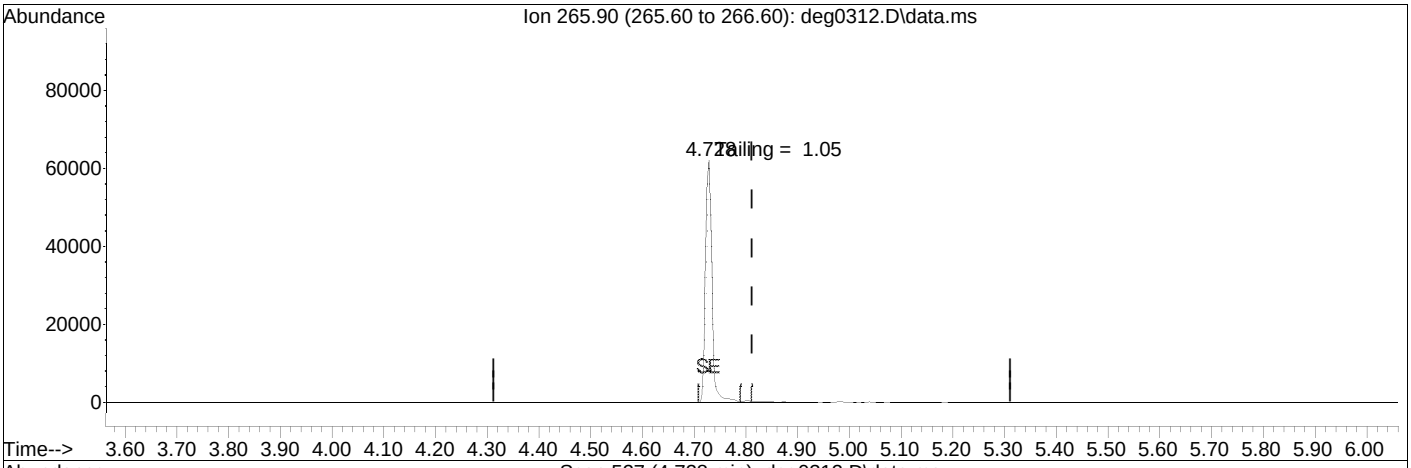
response 503316

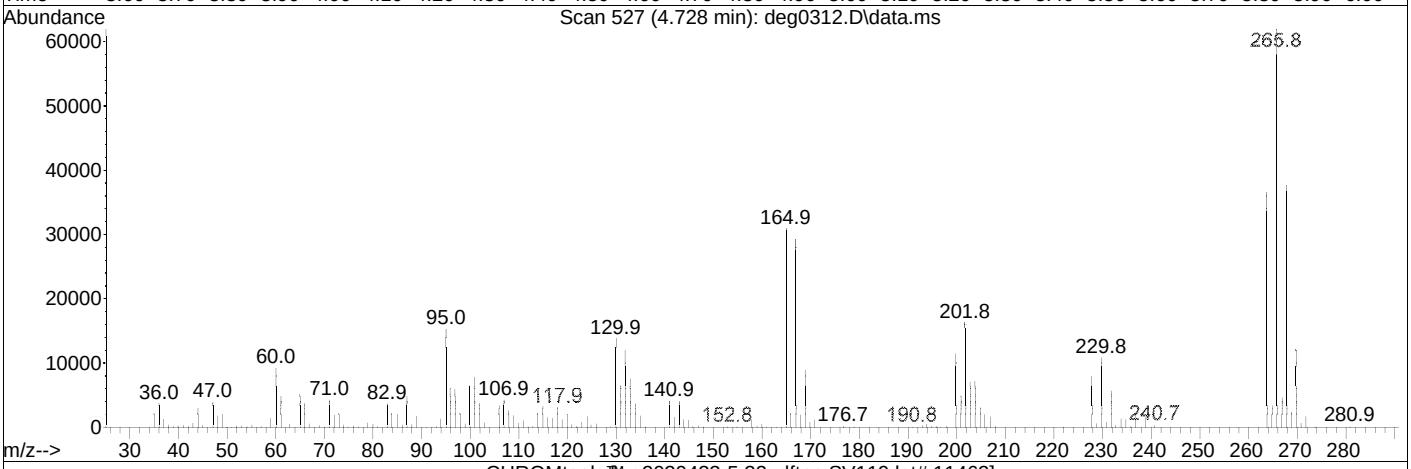
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\250312RVT\
Data File : deg0312.D
Acq On : 12 Mar 2025 06:22 am
Operator : sv119:kmh
Sample : wg2039433-5,32,,dftpp SV119 lot# 11462
Misc : wg2039433,,ical21826
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Mar 12 06:35:54 2025
Quant Method : I:\8270SIM\sv119\250312RVT\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jan 31 09:20:30 2025
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





CHROMtools [wg2039433-5,32,,dftpp SV119 lot# 11462]

(1) pentachlorophenol (T)

4.728min (-0.084) 23.66

response 49704

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV119	**Calibration Date**	: 03/11/25 09:51		
Lab File ID	: CCV0311B	**Init. Calib. Date(s)**	: 12/29/24	12/29/24	
Sample No	: WG2039073-3	**Init. Calib. Times**	: 13:37	16:09	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	107	0
2-Fluorophenol	1.072	1.095	.05	-2.1	20	108	0
Phenol-d6	1.338	1.336	.05	0.1	20	104	0
Bis(2-chloroethyl)ether	1.235	1.347	.05	-9.1	20	123	0
n-nitrosodi-n-propylamine	0.827	0.733	.05	11.4	20	93	0
Hexachloroethane	0.518	0.484	.05	6.6	20	104	0
Nitrobenzene-d5	1.297	1.153	.05	11.1	20	96	0
Naphthalene-d8	1	1	.05	0	20	107	0
Naphthalene	1.116	0.966	.05	13.4	20	98	0
Hexachlorobutadiene	0.196	0.159	.05	18.9	20	91	0
2-Methylnaphthalene	0.78	0.62	.05	20.5*	20	89	0
1-Methylnaphthalene	0.718	0.629	.05	12.4	20	97	0
2-Fluorobiphenyl	0.975	0.774	.05	20.6*	20	90	0
2-Chloronaphthalene	0.805	0.664	.05	17.5	20	92	0
2,6-Dinitrotoluene	0.198	0.162	.05	18.2	20	85	0
Acenaphthylene	1.247	1.107	.05	11.2	20	98	0
Acenaphthene-d10	1	1	.05	0	20	96	0
Acenaphthene	1.334	1.202	.05	9.9	20	90	0
2,4-Dinitrotoluene	0.424	0.399	.05	5.9	20	86	0
Fluorene	1.533	1.426	.05	7	20	91	0
2,4,6-Tribromophenol	0.175	0.168	.05	4	20	87	0
Phenanthrene-d10	1	1	.05	0	20	93	0
4,6-Dinitro-o-cresol	1000	718.086	.05	28.2*	20	71	0
Hexachlorobenzene	0.236	0.202	.05	14.4	20	86	0
Pentachlorophenol	1000	839.229	.05	16.1	20	79	0
Phenanthrene	1.17	1.036	.05	11.5	20	86	0
Anthracene	1.173	1.07	.05	8.8	20	88	0
Fluoranthene	1.463	1.247	.05	14.8	20	83	0
Pyrene	1.51	1.279	.05	15.3	20	83	0
4-Terphenyl-d14	0.992	0.771	.05	22.3*	20	75	0
Chrysene-d12	1	1	.05	0	20	83	0
Benzo[a]anthracene	1000	901.889	.05	9.8	20	75	0
3,3'-Dichlorobenzidine	1000	1067.563	.05	-6.8	20	98	0
Chrysene	1.377	1.183	.05	14.1	20	74	0
Bis(2-ethylhexyl)phthalate	0.714	0.772	.05	-8.1	20	86	0
Perylene-d12	1	1	.05	0	20	85	0
Benzo[b]fluoranthene	1.326	1.204	.05	9.2	20	77	0
Benzo[k]fluoranthene	1.307	1.172	.05	10.3	20	77	0
Benzo[a]pyrene	1.125	1.113	.05	1.1	20	82	0
Indeno[1,2,3-cd]pyrene	1.089	1.123	.05	-3.1	20	84	0
Dibenzo[a,h]anthracene	1.01	1.055	.05	-4.5	20	83	0
Benzo[g,h,i]perylene	1.036	1.079	.05	-4.2	20	86	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV119	**Calibration Date**	: 03/12/25 06:56		
Lab File ID	: CCV0312A	**Init. Calib. Date(s)**	: 12/29/24	12/29/24	
Sample No	: WG2039433-3	**Init. Calib. Times**	: 13:37	16:09	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	89	0
2-Fluorophenol	1.072	1.112	.05	-3.7	20	91	0
Phenol-d6	1.338	1.358	.05	-1.5	20	88	0
Bis(2-chloroethyl)ether	1.235	1.181	.05	4.4	20	90	0
n-nitrosodi-n-propylamine	0.827	0.829	.05	-0.2	20	88	0
Hexachloroethane	0.518	0.485	.05	6.4	20	86	0
Nitrobenzene-d5	1.297	1.208	.05	6.9	20	83	0
Naphthalene-d8	1	1	.05	0	20	92	0
Naphthalene	1.116	0.967	.05	13.4	20	85	0
Hexachlorobutadiene	0.196	0.153	.05	21.9*	20	75	0
2-Methylnaphthalene	0.78	0.625	.05	19.9	20	77	0
1-Methylnaphthalene	0.718	0.638	.05	11.1	20	85	0
2-Fluorobiphenyl	0.975	0.782	.05	19.8	20	78	0
2-Chloronaphthalene	0.805	0.674	.05	16.3	20	80	0
2,6-Dinitrotoluene	0.198	0.168	.05	15.2	20	76	0
Acenaphthylene	1.247	1.148	.05	7.9	20	88	0
Acenaphthene-d10	1	1	.05	0	20	86	0
Acenaphthene	1.334	1.194	.05	10.5	20	80	0
2,4-Dinitrotoluene	0.424	0.388	.05	8.5	20	75	0
Fluorene	1.533	1.423	.05	7.2	20	81	0
2,4,6-Tribromophenol	0.175	0.166	.05	5.1	20	77	0
Phenanthrene-d10	1	1	.05	0	20	84	0
4,6-Dinitro-o-cresol	1000	704.449	.05	29.6*	20	63	0
Hexachlorobenzene	0.236	0.192	.05	18.6	20	74	0
Pentachlorophenol	1000	649.4	.05	35.1*	20	55	0
Phenanthrene	1.17	1.015	.05	13.2	20	77	0
Anthracene	1.173	1.059	.05	9.7	20	79	0
Fluoranthene	1.463	1.267	.05	13.4	20	76	0
Pyrene	1.51	1.307	.05	13.4	20	77	0
4-Terphenyl-d14	0.992	0.805	.05	18.9	20	71	0
Chrysene-d12	1	1	.05	0	20	81	0
Benzo[a]anthracene	1000	908.038	.05	9.2	20	74	0
3,3'-Dichlorobenzidine	1000	1135.773	.05	-13.6	20	102	0
Chrysene	1.377	1.173	.05	14.8	20	72	0
Bis(2-ethylhexyl)phthalate	0.714	0.972	.05	-36.1*	20	106	0
Perylene-d12	1	1	.05	0	20	84	0
Benzo[b]fluoranthene	1.326	1.236	.05	6.8	20	78	0
Benzo[k]fluoranthene	1.307	1.211	.05	7.3	20	78	0
Benzo[a]pyrene	1.125	1.158	.05	-2.9	20	84	0
Indeno[1,2,3-cd]pyrene	1.089	1.165	.05	-7	20	86	0
Dibenzo[a,h]anthracene	1.01	1.076	.05	-6.5	20	83	0
Benzo[g,h,i]perylene	1.036	1.099	.05	-6.1	20	86	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV119	**Calibration Date**	: 03/13/25 06:38		
Lab File ID	: CCV0313	**Init. Calib. Date(s)**	: 12/29/24	12/29/24	
Sample No	: WG2039957-3	**Init. Calib. Times**	: 13:37	16:09	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	74	0
2-Fluorophenol	1.072	1.088	.05	-1.5	20	75	0
Phenol-d6	1.338	1.36	.05	-1.6	20	74	0
Bis(2-chloroethyl)ether	1.235	1.164	.05	5.7	20	74	0
n-nitrosodi-n-propylamine	0.827	0.817	.05	1.2	20	72	0
Hexachloroethane	0.518	0.483	.05	6.8	20	72	0
Nitrobenzene-d5	1.297	1.229	.05	5.2	20	71	0
Naphthalene-d8	1	1	.05	0	20	78	0
Naphthalene	1.116	0.962	.05	13.8	20	72	0
Hexachlorobutadiene	0.196	0.15	.05	23.5*	20	63	0
2-Methylnaphthalene	0.78	0.619	.05	20.6*	20	65	0
1-Methylnaphthalene	0.718	0.631	.05	12.1	20	72	0
2-Fluorobiphenyl	0.975	0.771	.05	20.9*	20	66	0
2-Chloronaphthalene	0.805	0.666	.05	17.3	20	67	0
2,6-Dinitrotoluene	0.198	0.167	.05	15.7	20	64	0
Acenaphthylene	1.247	1.124	.05	9.9	20	73	0
Acenaphthene-d10	1	1	.05	0	20	72	0
Acenaphthene	1.334	1.195	.05	10.4	20	67	0
2,4-Dinitrotoluene	0.424	0.392	.05	7.5	20	63	0
Fluorene	1.533	1.41	.05	8	20	67	0
2,4,6-Tribromophenol	0.175	0.156	.05	10.9	20	61	0
Phenanthrene-d10	1	1	.05	0	20	71	0
4,6-Dinitro-o-cresol	1000	737.689	.05	26.2*	20	56	0
Hexachlorobenzene	0.236	0.189	.05	19.9	20	61	0
Pentachlorophenol	1000	598.195	.05	40.2*	20	43	0
Phenanthrene	1.17	1.012	.05	13.5	20	65	0
Anthracene	1.173	1.044	.05	11	20	66	0
Fluoranthene	1.463	1.254	.05	14.3	20	64	0
Pyrene	1.51	1.306	.05	13.5	20	65	0
4-Terphenyl-d14	0.992	0.794	.05	20	20	59	0
Chrysene-d12	1	1	.05	0	20	69	0
Benzo[a]anthracene	1000	894.842	.05	10.5	20	62	0
3,3'-Dichlorobenzidine	1000	1078.126	.05	-7.8	20	83	0
Chrysene	1.377	1.17	.05	15	20	61	0
Bis(2-ethylhexyl)phthalate	0.714	0.76	.05	-6.4	20	71	0
Perylene-d12	1	1	.05	0	20	71	0
Benzo[b]fluoranthene	1.326	1.198	.05	9.7	20	64	0
Benzo[k]fluoranthene	1.307	1.185	.05	9.3	20	65	0
Benzo[a]pyrene	1.125	1.127	.05	-0.2	20	69	0
Indeno[1,2,3-cd]pyrene	1.089	1.147	.05	-5.3	20	72	0
Dibenzo[a,h]anthracene	1.01	1.066	.05	-5.5	20	70	0
Benzo[g,h,i]perylene	1.036	1.084	.05	-4.6	20	72	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV118	**Calibration Date**	: 03/13/25 08:33		
Lab File ID	: CCV0313A	**Init. Calib. Date(s)**	: 02/03/25	02/03/25	
Sample No	: WG2040034-3	**Init. Calib. Times**	: 15:47	18:20	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.01	0	20	139	0
2-Fluorophenol	1.223	1.072	.01	12.3	20	121	0
Phenol-d6	1.466	1.355	.01	7.6	20	127	0
Bis(2-chloroethyl)ether	1.301	1.229	.01	5.5	20	135	0
n-nitrosodi-n-propylamine	0.835	0.909	.01	-8.9	20	143	0
Hexachloroethane	0.544	0.533	.01	2	20	136	0
Nitrobenzene-d5	1.197	1.265	.01	-5.7	20	140	0
Naphthalene-d8	1	1	.01	0	20	140	0
Naphthalene	1.137	1.047	.01	7.9	20	133	0
Hexachlorobutadiene	0.204	0.197	.01	3.4	20	135	0
2-Methylnaphthalene	0.707	0.677	.01	4.2	20	135	0
1-Methylnaphthalene	0.719	0.693	.01	3.6	20	136	0
2-Fluorobiphenyl	0.876	0.858	.01	2.1	20	143	0
2-Chloronaphthalene	0.765	0.755	.01	1.3	20	138	0
2,6-Dinitrotoluene	0.17	0.191	.01	-12.4	20	145	0
Acenaphthylene	1.17	1.257	.01	-7.4	20	142	0
Acenaphthene-d10	1	1	.01	0	20	148	0
Acenaphthene	1.424	1.301	.01	8.6	20	138	0
2,4-Dinitrotoluene	0.411	0.447	.01	-8.8	20	146	0
Fluorene	1.566	1.515	.01	3.3	20	143	0
2,4,6-Tribromophenol	0.185	0.213	.01	-15.1	20	148	0
Phenanthrene-d10	1	1	.01	0	20	155	0
4,6-Dinitro-o-cresol	1000	799.402	.01	20.1*	20	133	0
Hexachlorobenzene	0.265	0.263	.01	0.8	20	156	0
Pentachlorophenol	1000	758.034	.01	24.2*	20	111	0
Phenanthrene	1.211	1.101	.01	9.1	20	143	0
Anthracene	1.202	1.162	.01	3.3	20	147	0
Fluoranthene	1.379	1.365	.01	1	20	152	0
Pyrene	1.427	1.399	.01	2	20	149	0
4-Terphenyl-d14	0.929	0.861	.01	7.3	20	146	0
Chrysene-d12	1	1	.01	0	20	161	0
Benzo[a]anthracene	0.423	0.375	.01	11.3	20	148	0
3,3'-Dichlorobenzidine	0.534	0.578	.01	-8.2	20	161	0
Chrysene	1.38	1.251	.01	9.3	20	146	0
Bis(2-ethylhexyl)phthalate	1000	1066.555	.01	-6.7	20	185	0
Perylene-d12	1	1	.01	0	20	165	0
Benzo[b]fluoranthene	1.316	1.251	.01	4.9	20	154	0
Benzo[k]fluoranthene	1.252	1.26	.01	-0.6	20	154	0
Benzo[a]pyrene	1.095	1.159	.01	-5.8	20	159	0
Indeno[1,2,3-cd]pyrene	0.971	1.035	.01	-6.6	20	161	0
Dibenzo[a,h]anthracene	0.937	0.996	.01	-6.3	20	155	0
Benzo[g,h,i]perylene	1.026	1.007	.01	1.9	20	150	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv119\250313RVT\
Data File : ccv0313.D
Acq On : 13 Mar 2025 06:38 am
Operator : sv119:rp
Sample : WG2039957-3,32,,ICV 11275 (0309)
Misc : WG2039957,,ical21826
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 13 06:53:24 2025
Quant Method : I:\8270SIM\sv119\250313RVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 06:54:20 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	74	0.00
2	T	N-Nitrosodimethylamine	0.000	0.746	0.0	0#	0.00
3	s	2-Fluorophenol	1.072	1.088	-1.5	75	0.00
4	s	Phenol-d6	1.338	1.360	-1.6	74	0.00
5	T	Bis(2-chloroethyl)ether	1.235	1.164	5.7	74	0.00
6	T	n-nitrosodi-n-propylamine	0.827	0.817	1.2	72	0.00
7	t	Hexachloroethane	0.518	0.483	6.8	72	0.00
8	s	Nitrobenzene-d5	1.297	1.229	5.2	71	0.00
9	i	Naphthalene-d8	1.000	1.000	0.0	78	0.00
10	t	Naphthalene	1.116	0.962	13.8	72	0.00
11	t	Hexachlorobutadiene	0.196	0.150	23.5#	63	0.00
12	t	2-Methylnaphthalene	0.780	0.619	20.6#	65	0.00
13	t	1-Methylnaphthalene	0.718	0.631	12.1	72	0.00
14	s	2-Fluorobiphenyl	0.975	0.771	20.9#	66	0.00
15	t	2-Chloronaphthalene	0.805	0.666	17.3	67	0.00
16	t	2,6-Dinitrotoluene	0.198	0.167	15.7	64	0.00
17	t	Acenaphthylene	1.247	1.124	9.9	73	0.00
18	i	Acenaphthene-d10	1.000	1.000	0.0	72	0.00
19	t	Acenaphthene	1.334	1.195	10.4	67	0.00
20	t	2,4-Dinitrotoluene	0.424	0.392	7.5	63	0.00
21	t	Fluorene	1.533	1.410	8.0	67	0.00
22	s	2,4,6-Tribromophenol	0.175	0.156	10.9	61	0.00
23	i	Phenanthrene-d10	1.000	1.000	0.0	71	0.00
24	T	4,6-Dinitro-o-cresol	*1000.000	737.689	26.2#	56	0.00
25	t	Hexachlorobenzene	0.236	0.189	19.9	61	0.00
26	t	Pentachlorophenol	*1000.000	598.195	40.2#	43	0.00
27	t	Phenanthrene	1.170	1.012	13.5	65	0.00
28	t	Anthracene	1.173	1.044	11.0	66	0.00
29	t	Fluoranthene	1.463	1.254	14.3	64	0.00
30	t	Pyrene	1.510	1.306	13.5	65	0.00
31	T	Benzidine	0.000	0.836	0.0	0#	0.00
32	s	4-Terphenyl-d14	0.992	0.794	20.0	59	0.00
33	i	Chrysene-d12	1.000	1.000	0.0	69	0.00
34	t	Benzo[a]anthracene	*1000.000	894.842	10.5	62	0.00
35	t	3,3'-Dichlorobenzidine	*1000.000	1078.126	-7.8	83	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv119\250313RVT\
Data File : ccv0313.D
Acq On : 13 Mar 2025 06:38 am
Operator : sv119:rp
Sample : WG2039957-3,32,,ICV 11275 (0309)
Misc : WG2039957,,ical21826
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 13 06:53:24 2025
Quant Method : I:\8270SIM\sv119\250313RVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 06:54:20 2025
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	t	Chrysene	1.377	1.170	15.0	61	0.00
37	T	Bis(2-ethylhexyl)phthalate	0.714	0.760	-6.4	71	0.00
38	i	Perylene-d12	1.000	1.000	0.0	71	0.00
39	t	Benzo[b]fluoranthene	1.326	1.198	9.7	64	0.00
40	t	Benzo[k]fluoranthene	1.307	1.185	9.3	65	0.00
41	t	Benzo[a]pyrene	1.125	1.127	-0.2	69	0.00
42	t	Indeno[1,2,3-cd]pyrene	1.089	1.147	-5.3	72	0.00
43	t	Dibenzo[a,h]anthracene	1.010	1.066	-5.5	70	0.00
44	t	Benzo[g,h,i]perylene	1.036	1.084	-4.6	72	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250313RVT\
Data File : ccv0313.D
Acq On : 13 Mar 2025 06:38 am
Operator : sv119:rp
Sample : WG2039957-3,32,,ICV 11275 (0309)
Misc : WG2039957,,ical21826
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 13 06:53:24 2025
Quant Method : I:\8270SIM\sv119\250313RVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 06:54:20 2025
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.173	152	226451	4000.000	ng/ml	0.00
9) Naphthalene-d8	2.835	136	898767	4000.000	ng/ml	0.00
18) Acenaphthene-d10	3.803	164	516819	4000.000	ng/ml	0.00
23) Phenanthrene-d10	4.639	188	1080335	4000.000	ng/ml	0.00
33) Chrysene-d12	6.195	240	1074571	4000.000	ng/ml	0.00
38) Perylene-d12	7.345	264	1109396	4000.000	ng/ml	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	1.614	112	61604	1015.313	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 50.77%			
4) Phenol-d6	2.022	99	76972	1016.407	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 50.82%			
8) Nitrobenzene-d5	2.458	82	69575	947.421	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 94.74%			
14) 2-Fluorobiphenyl	3.428	172	173280	790.656	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 79.07%			
22) 2,4,6-Tribromophenol	4.254	330	20141	892.913	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 44.65%			
32) 4-Terphenyl-d14	5.559	244	214388	799.938	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 79.99%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	1.163	74	42245	No Calib	#	
5) Bis(2-chloroethyl)ether	2.045	93	65895	942.731	ng/ml	89
6) n-nitrosodi-n-propylamine	2.378	70	46250	987.297	ng/ml	100
7) Hexachloroethane	2.429	117	27318	930.719	ng/ml	94
10) Naphthalene	2.845	128	216109	862.140	ng/ml	100
11) Hexachlorobutadiene	2.914	225	33677	763.429	ng/ml	100
12) 2-Methylnaphthalene	3.221	142	138973	793.368	ng/ml	98
13) 1-Methylnaphthalene	3.277	142	141799	879.158	ng/ml	98
15) 2-Chloronaphthalene	3.492	162	149718	827.569	ng/ml	93
16) 2,6-Dinitrotoluene	3.690	165	37514	841.430	ng/ml#	88
17) Acenaphthylene	3.723	152	252514	901.293	ng/ml	100
19) Acenaphthene	3.821	153	154447	896.033	ng/ml	94
20) 2,4-Dinitrotoluene	3.919	165	50655	923.839	ng/ml#	67
21) Fluorene	4.110	166	182159	919.834	ng/ml	96
24) 4,6-Dinitro-o-cresol	4.150	198	25897	737.689	ng/ml	99
25) Hexachlorobenzene	4.428	284	51038	801.473	ng/ml	96
26) Pentachlorophenol	4.550	266	18918	598.195	ng/ml	99
27) Phenanthrene	4.651	178	273325	865.299	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250313RVT\
Data File : ccv0313.D
Acq On : 13 Mar 2025 06:38 am
Operator : sv119:rp
Sample : WG2039957-3,32,,ICV 11275 (0309)
Misc : WG2039957,,ical21826
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 13 06:53:24 2025
Quant Method : I:\8270SIM\sv119\250313RVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 06:54:20 2025
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Anthracene	4.680	178	281947	890.272	ng/ml	99
29) Fluoranthene	5.334	202	338803	857.317	ng/ml	99
30) Pyrene	5.465	202	352625	864.467	ng/ml	100
31) Benzidine	5.418	184	225869	No Calib	#	
34) Benzo[a]anthracene	6.187	228	340922	894.842	ng/ml	99
35) 3,3'-Dichlorobenzidine	6.177	252	145881	1078.126	ng/ml	99
36) Chrysene	6.209	228	314275	849.427	ng/ml	100
37) Bis(2-ethylhexyl)phtha...	6.209	149	204203	1063.902	ng/ml	98
39) Benzo[b]fluoranthene	6.987	252	332343	903.908	ng/ml	100
40) Benzo[k]fluoranthene	7.011	252	328735	906.665	ng/ml	97
41) Benzo[a]pyrene	7.281	252	312655	1002.161	ng/ml	99
42) Indeno[1,2,3-cd]pyrene	8.507	276	318028	1052.950	ng/ml	99
43) Dibenzo[a,h]anthracene	8.536	278	295771M6	1055.600	ng/ml	
44) Benzo[g,h,i]perylene	8.833	276	300514	1045.370	ng/ml	99

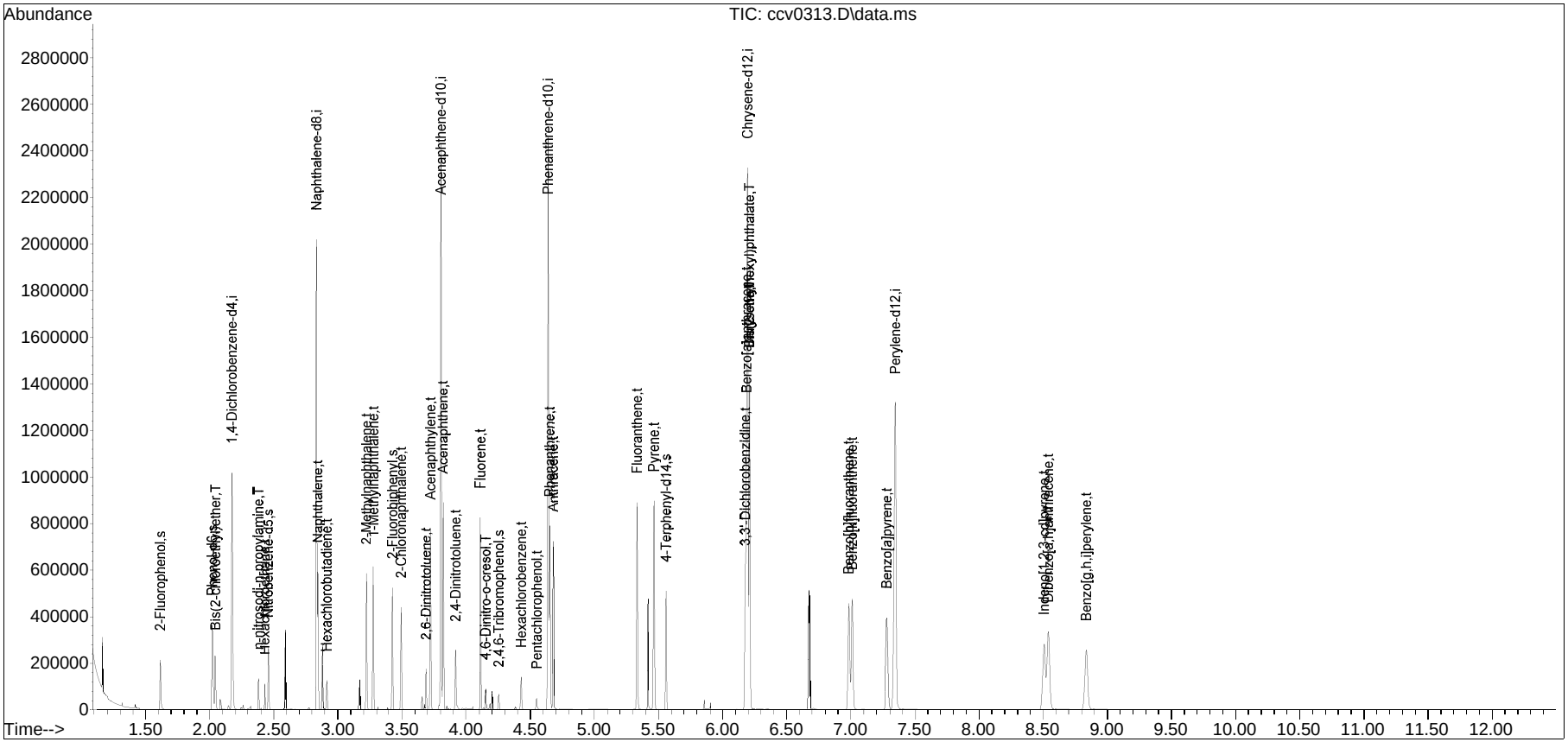
(#) = qualifier out of range (m) = manual integration (+) = signals summed

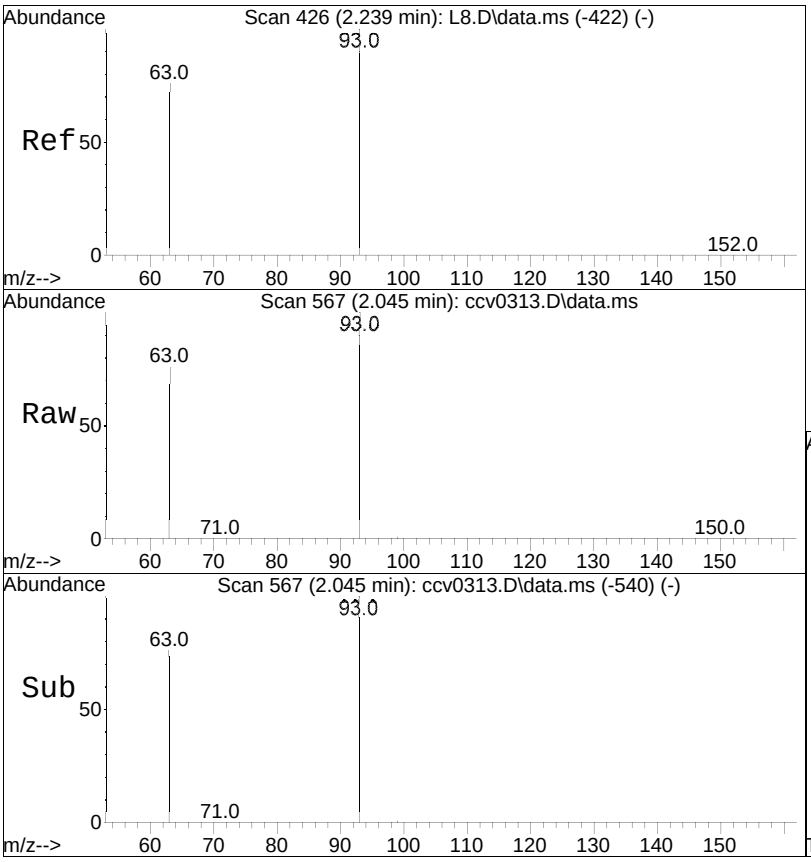
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250313RVT\
Data File : ccv0313.D
Acq On : 13 Mar 2025 06:38 am
Operator : sv119:rp
Sample : WG2039957-3,32,,ICV 11275 (0309)
Misc : WG2039957,,ical21826
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 13 06:53:24 2025
Quant Method : I:\8270SIM\sv119\250313RVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 06:54:20 2025
Response via : Initial Calibration

Sub List : Default - All compounds listed

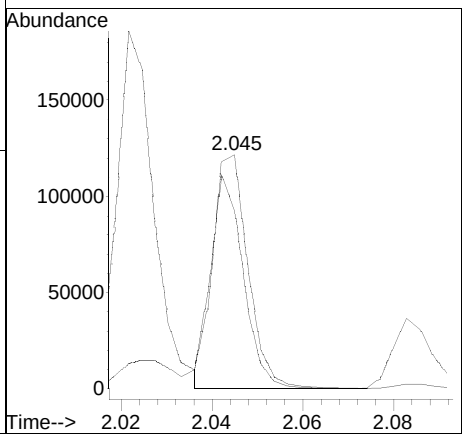


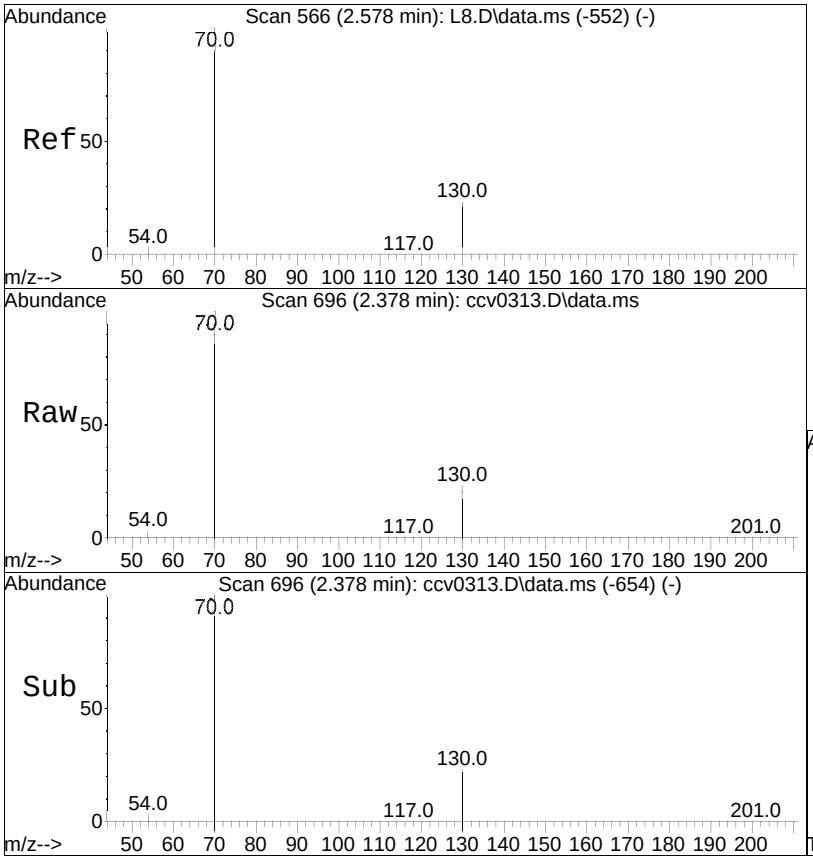


#5
Bis(2-chloroethyl)ether
Concen: 942.73 ng/ml
RT: 2.045 min Scan# 567
Delta R.T. 0.000 min
Lab File: ccv0313.D
Acq: 13 Mar 2025 06:38 am

Tgt Ion: 93 Resp: 65895

Ion	Ratio	Lower	Upper
93	100		
63	86.2	61.7	92.5

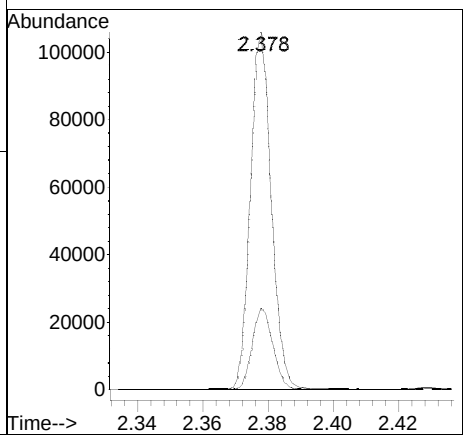


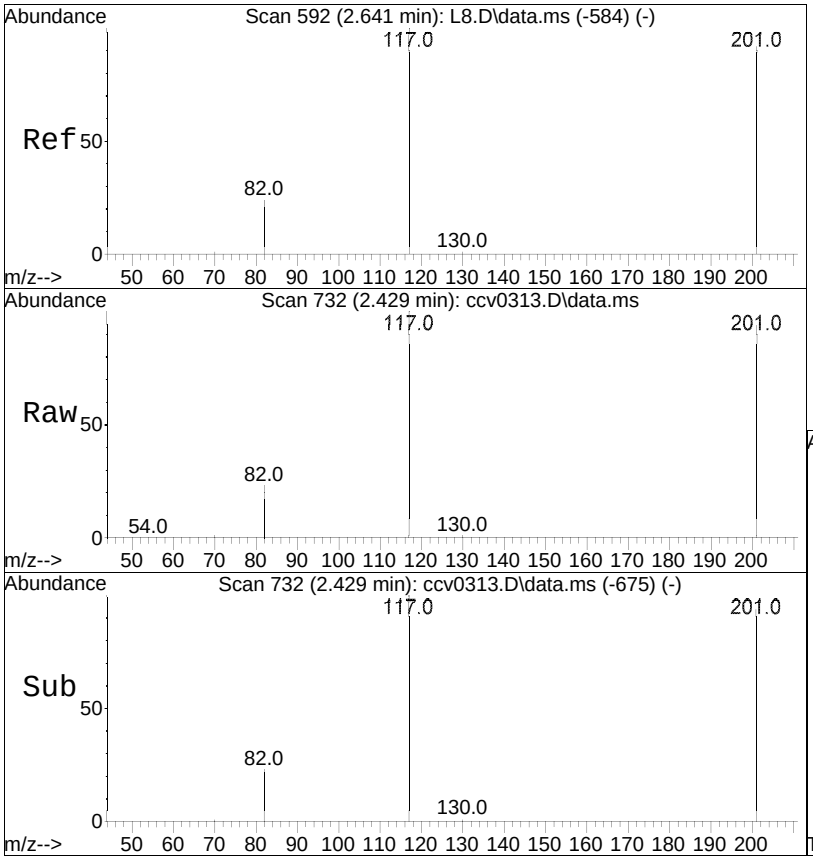


#6
n-nitrosodi-n-propylamine
Concen: 987.30 ng/ml
RT: 2.378 min Scan# 696
Delta R.T. 0.000 min
Lab File: ccv0313.D
Acq: 13 Mar 2025 06:38 am

Tgt Ion: 70 Resp: 46250

Ion	Ratio	Lower	Upper
70	100		
130	22.6	18.1	27.1

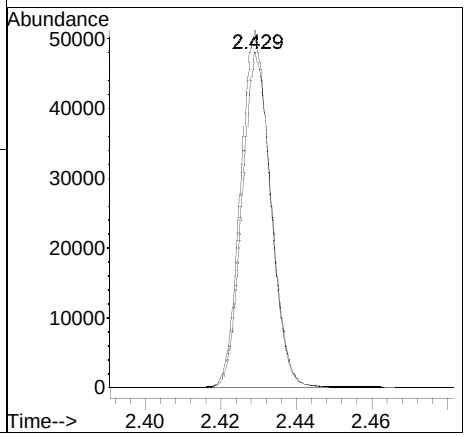


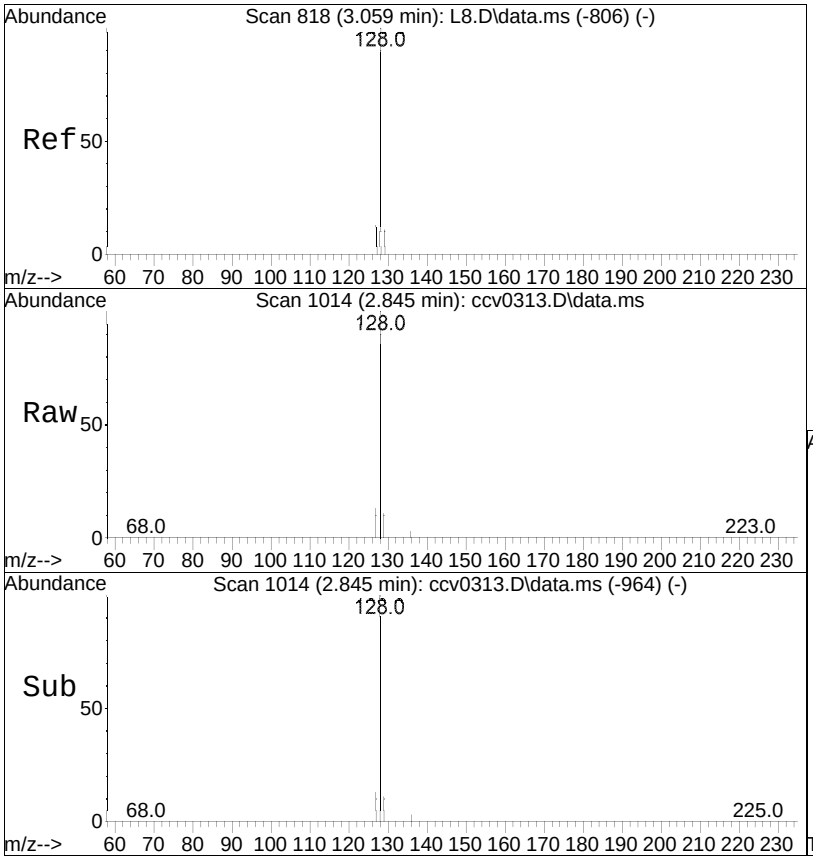


#7
Hexachloroethane
Concen: 930.72 ng/ml
RT: 2.429 min Scan# 732
Delta R.T. 0.000 min
Lab File: ccv0313.D
Acq: 13 Mar 2025 06:38 am

Tgt Ion:117 Resp: 27318

Ion	Ratio	Lower	Upper
117	100		
201	93.6	79.3	118.9

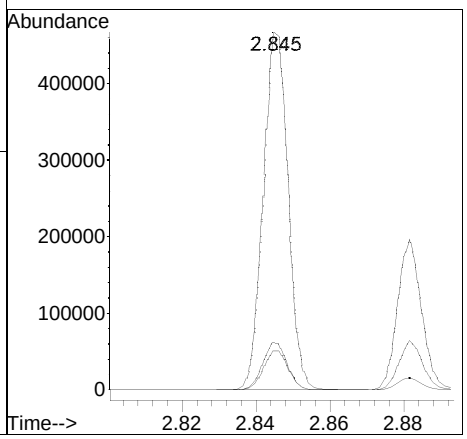


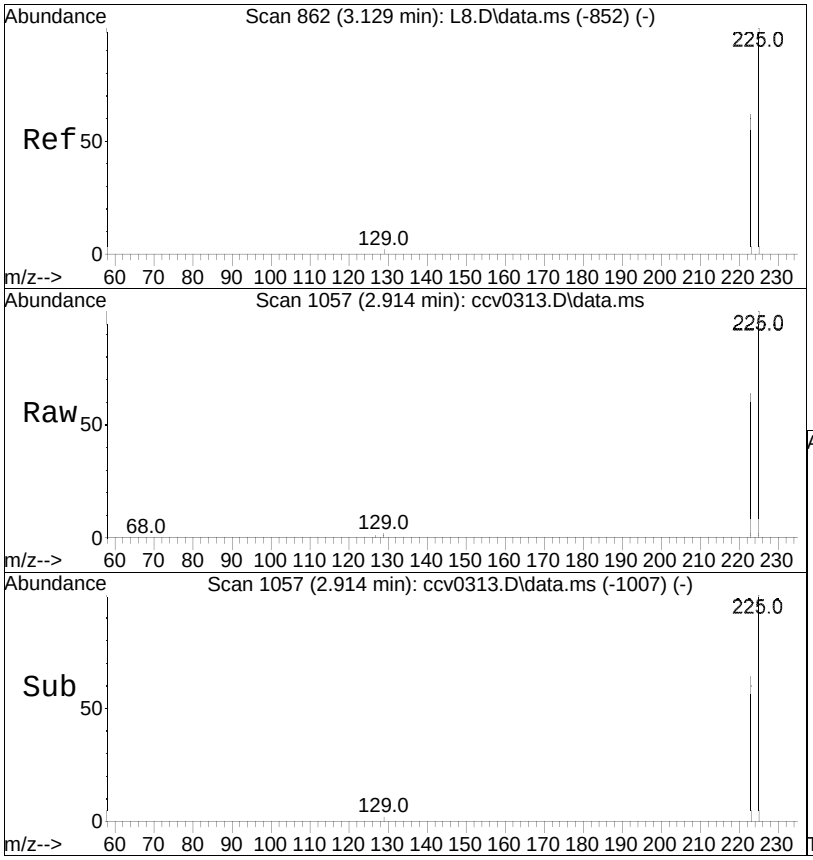


#10
Naphthalene
Concen: 862.14 ng/ml
RT: 2.845 min Scan# 1014
Delta R.T. 0.000 min
Lab File: ccv0313.D
Acq: 13 Mar 2025 06:38 am

Tgt Ion:128 Resp: 216109

Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.0	13.6
127	13.2	10.5	15.7

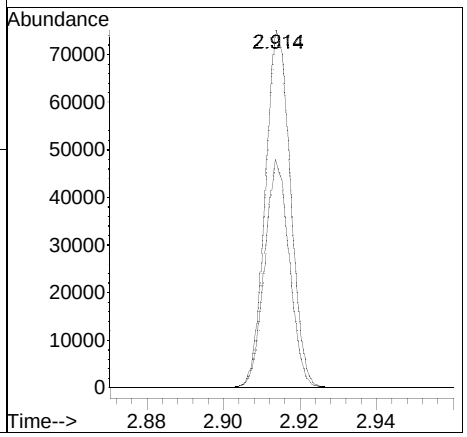


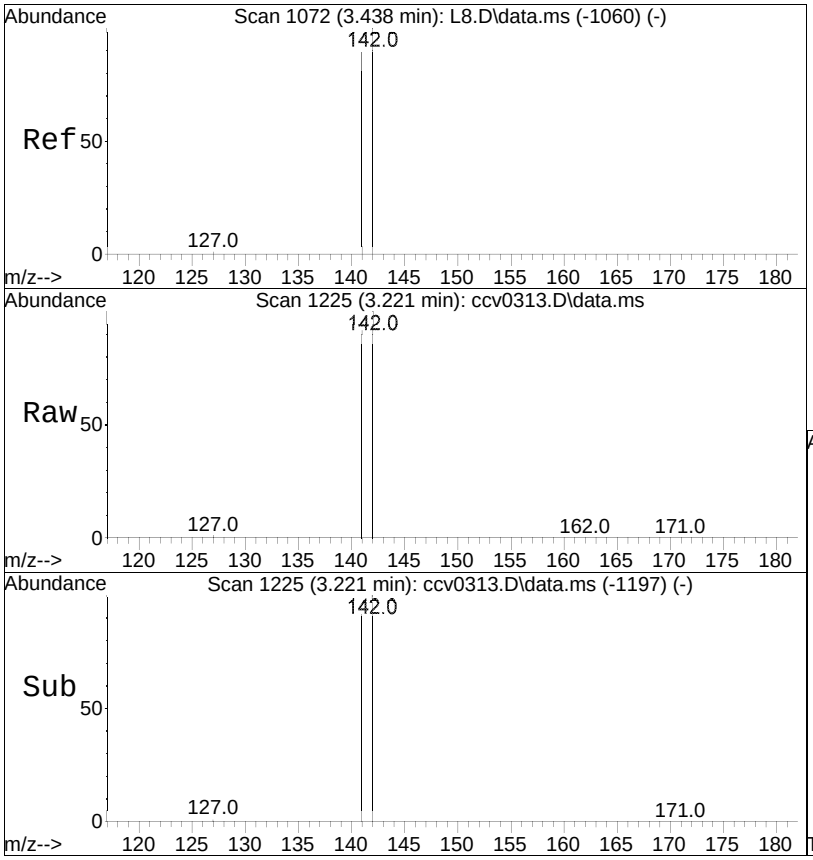


#11
Hexachlorobutadiene
Concen: 763.43 ng/ml
RT: 2.914 min Scan# 1057
Delta R.T. 0.000 min
Lab File: ccv0313.D
Acq: 13 Mar 2025 06:38 am

Tgt Ion:225 Resp: 33677

Ion	Ratio	Lower	Upper
225	100		
223	62.9	50.4	75.6

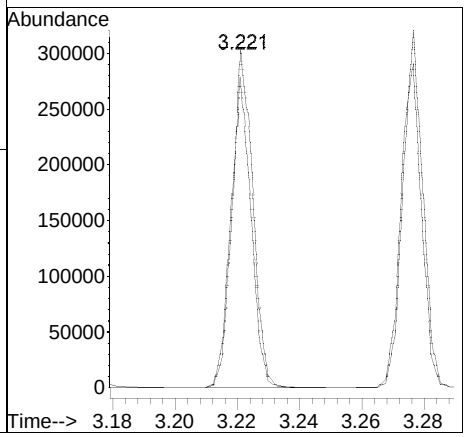


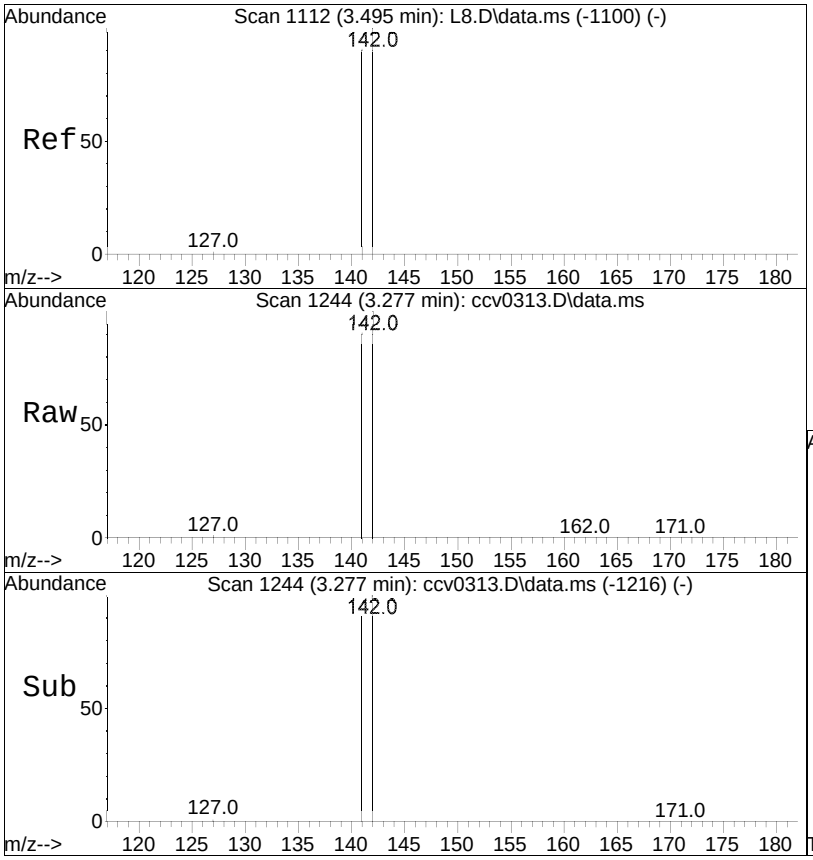


#12
2-Methylnaphthalene
Concen: 793.37 ng/ml
RT: 3.221 min Scan# 1225
Delta R.T. 0.000 min
Lab File: ccv0313.D
Acq: 13 Mar 2025 06:38 am

Tgt Ion:142 Resp: 138973

Ion	Ratio	Lower	Upper
142	100		
141	90.6	71.3	106.9

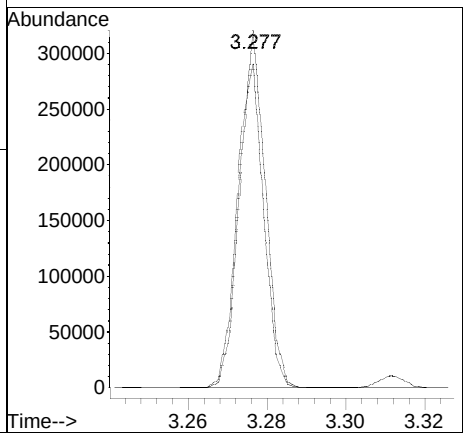


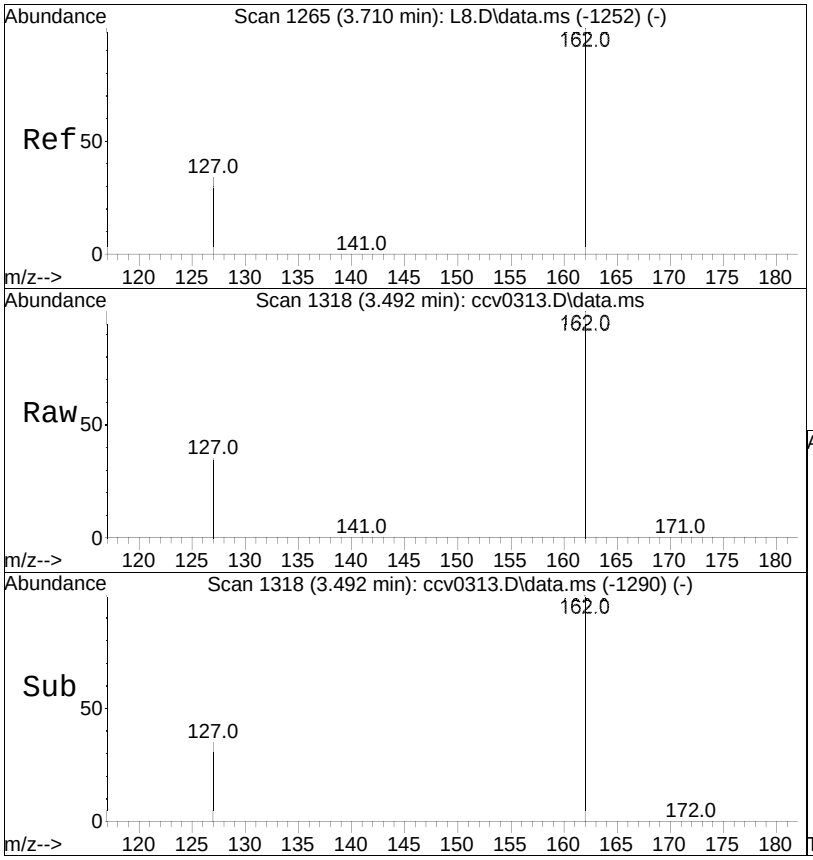


#13
1-Methylnaphthalene
Concen: 879.16 ng/ml
RT: 3.277 min Scan# 1244
Delta R.T. 0.000 min
Lab File: ccv0313.D
Acq: 13 Mar 2025 06:38 am

Tgt Ion:142 Resp: 141799

Ion	Ratio	Lower	Upper
142	100		
141	94.5	73.8	110.6

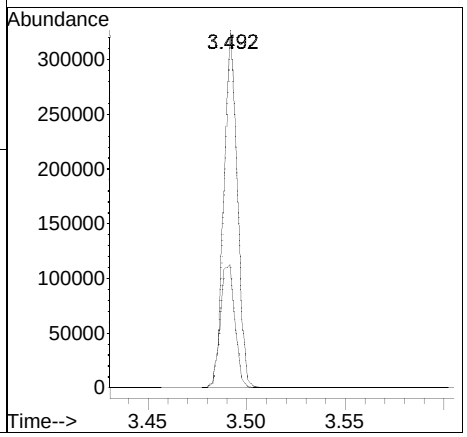


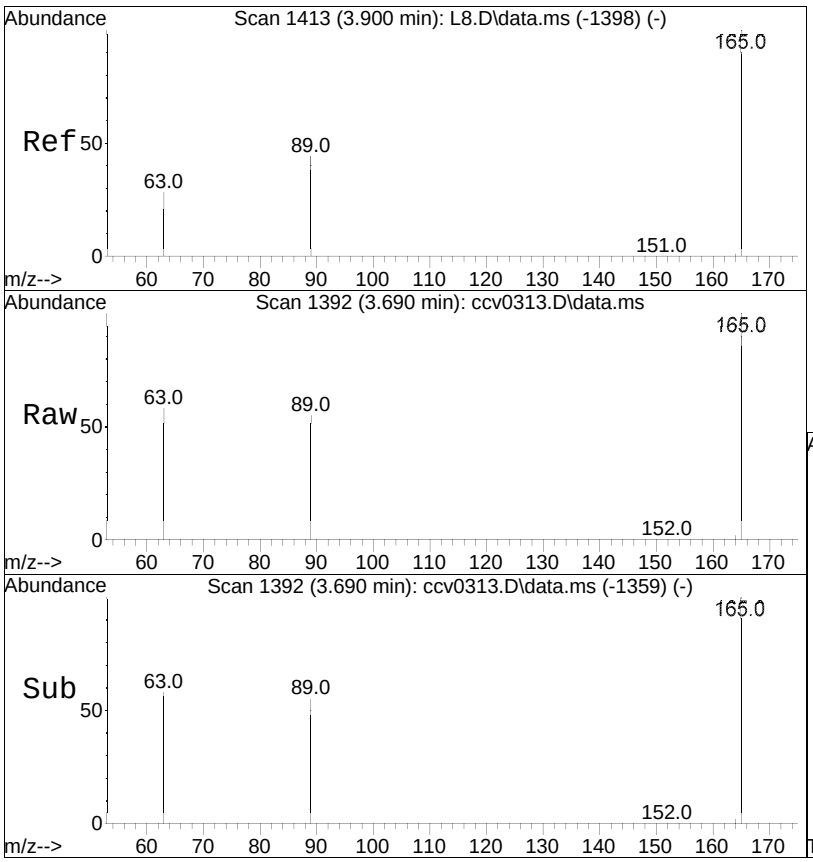


#15
2-Chloronaphthalene
Concen: 827.57 ng/ml
RT: 3.492 min Scan# 1318
Delta R.T. 0.000 min
Lab File: ccv0313.D
Acq: 13 Mar 2025 06:38 am

Tgt Ion:162 Resp: 149718

Ion	Ratio	Lower	Upper
162	100		
127	38.1	27.4	41.0

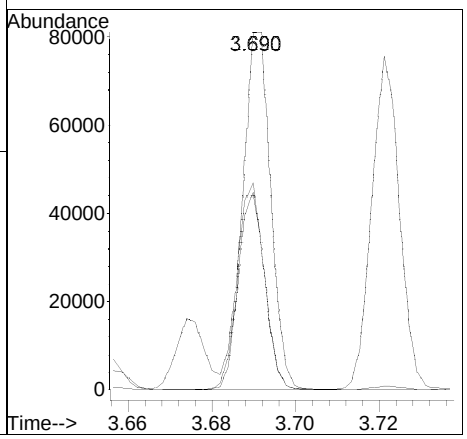


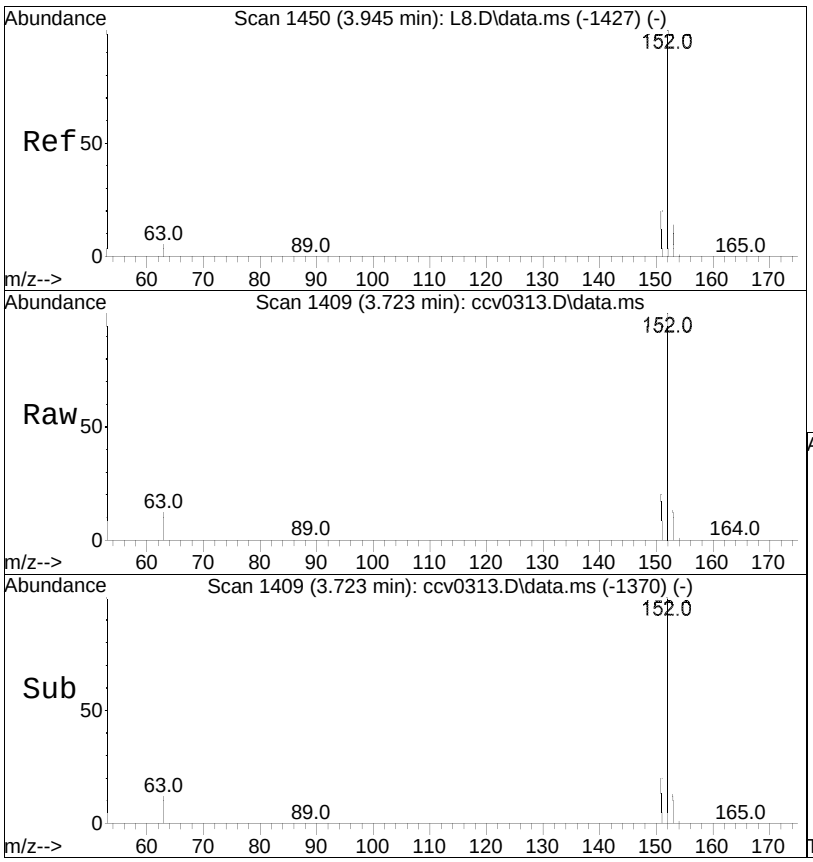


#16
2,6-Dinitrotoluene
Concen: 841.43 ng/ml
RT: 3.690 min Scan# 1392
Delta R.T. 0.000 min
Lab File: ccv0313.D
Acq: 13 Mar 2025 06:38 am

Tgt Ion:165 Resp: 37514

Ion	Ratio	Lower	Upper
165	100		
89	53.8	37.8	56.8
63	56.1	36.9	55.3#

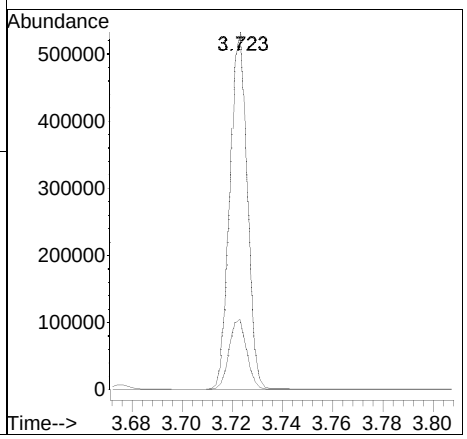


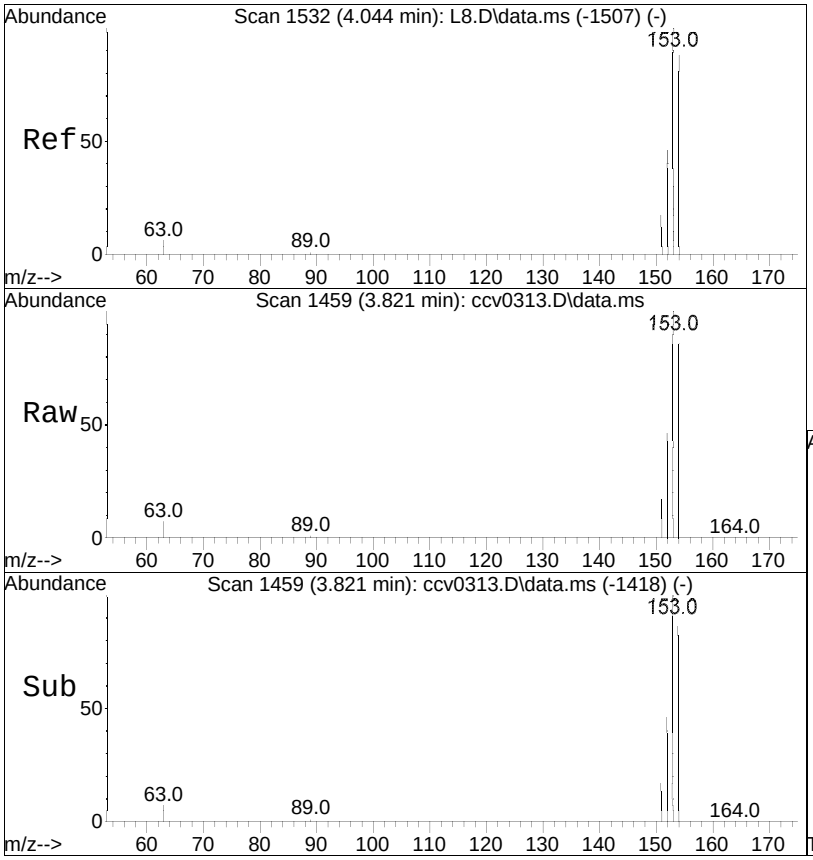


#17
Acenaphthylene
Concen: 901.29 ng/ml
RT: 3.723 min Scan# 1409
Delta R.T. 0.000 min
Lab File: ccv0313.D
Acq: 13 Mar 2025 06:38 am

Tgt Ion:152 Resp: 252514

Ion	Ratio	Lower	Upper
152	100		
151	20.1	15.9	23.9

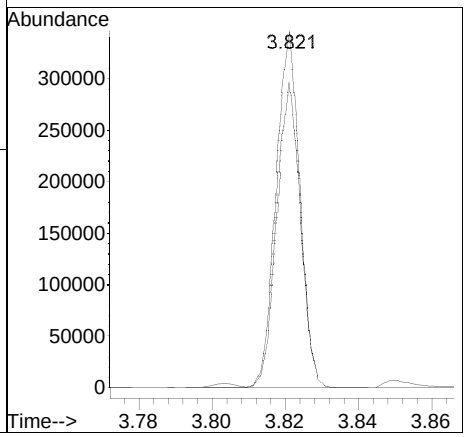


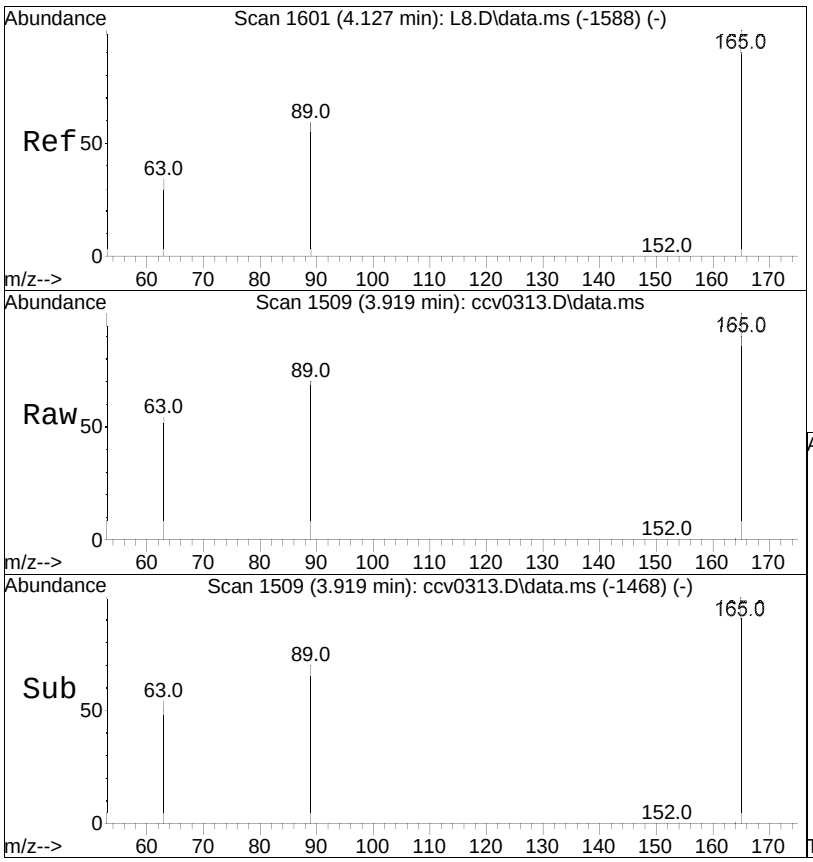


#19
Acenaphthene
Concen: 896.03 ng/ml
RT: 3.821 min Scan# 1459
Delta R.T. 0.000 min
Lab File: ccv0313.D
Acq: 13 Mar 2025 06:38 am

Tgt Ion:153 Resp: 154447

Ion	Ratio	Lower	Upper
153	100		
154	85.3	73.1	109.7

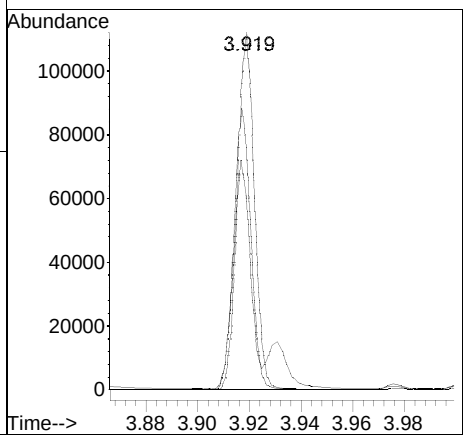


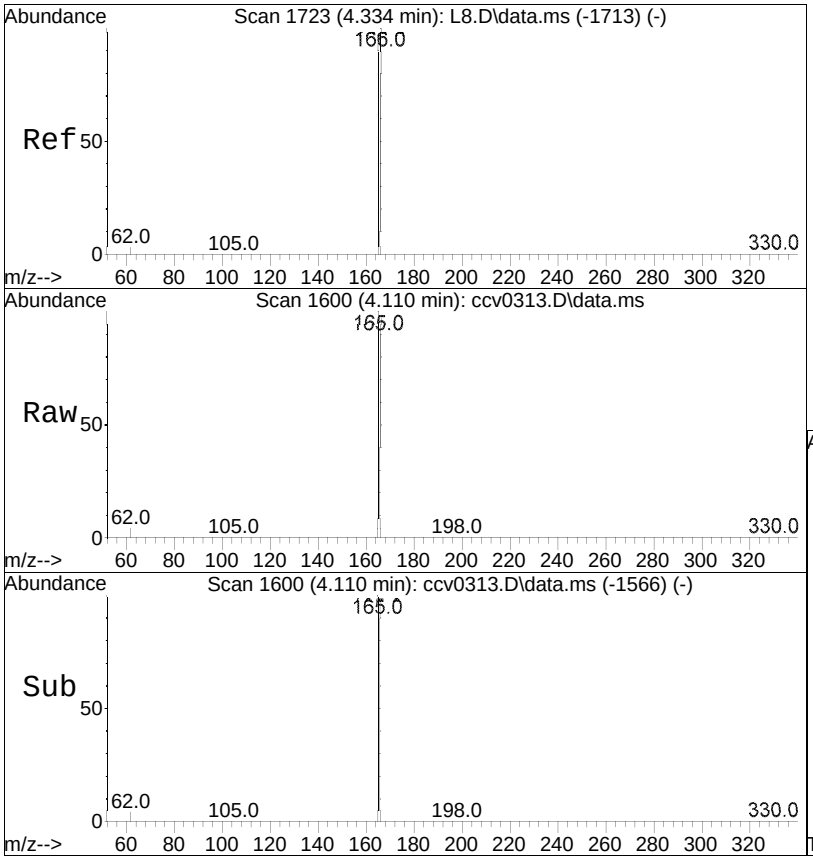


#20
2,4-Dinitrotoluene
Concen: 923.84 ng/ml
RT: 3.919 min Scan# 1509
Delta R.T. 0.000 min
Lab File: ccv0313.D
Acq: 13 Mar 2025 06:38 am

Tgt Ion:165 Resp: 50655

Ion	Ratio	Lower	Upper
165	100		
89	78.9	48.7	73.1#
63	64.5	28.6	42.8#

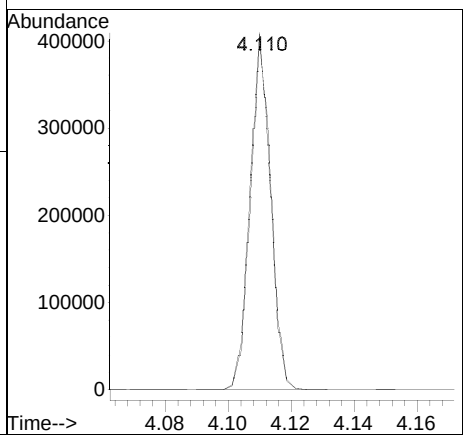


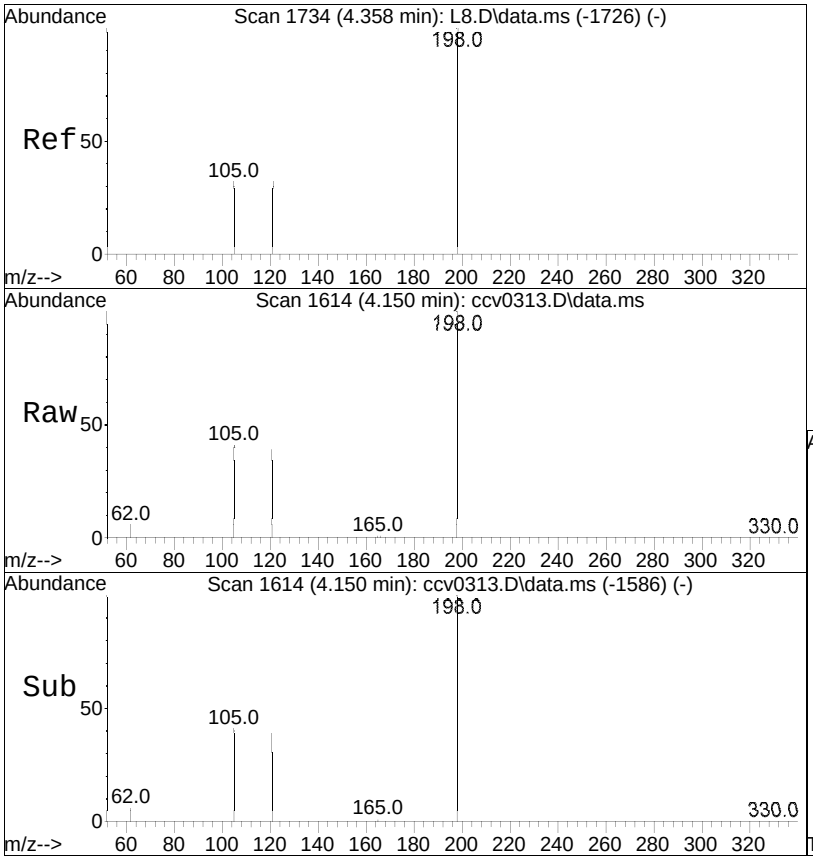


#21
Fluorene
Concen: 919.83 ng/ml
RT: 4.110 min Scan# 1600
Delta R.T. 0.000 min
Lab File: ccv0313.D
Acq: 13 Mar 2025 06:38 am

Tgt Ion:166 Resp: 182159

Ion	Ratio	Lower	Upper
166	100		
165	100.9	77.8	116.8

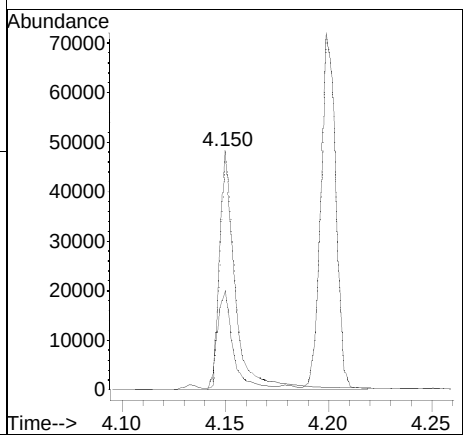


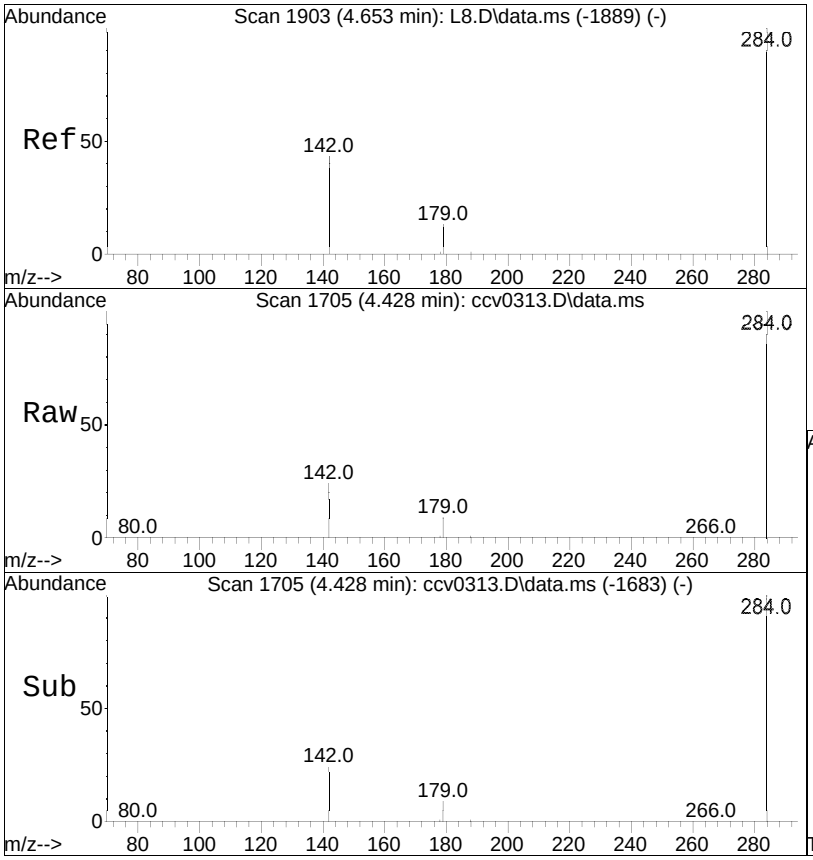


#24
4,6-Dinitro-o-cresol
Concen: 737.69 ng/ml
RT: 4.150 min Scan# 1614
Delta R.T. 0.000 min
Lab File: ccv0313.D
Acq: 13 Mar 2025 06:38 am

Tgt Ion:198 Resp: 25897

Ion	Ratio	Lower	Upper
198	100		
105	38.8	30.6	45.8

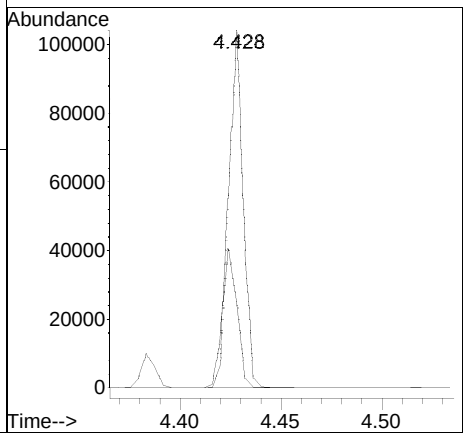


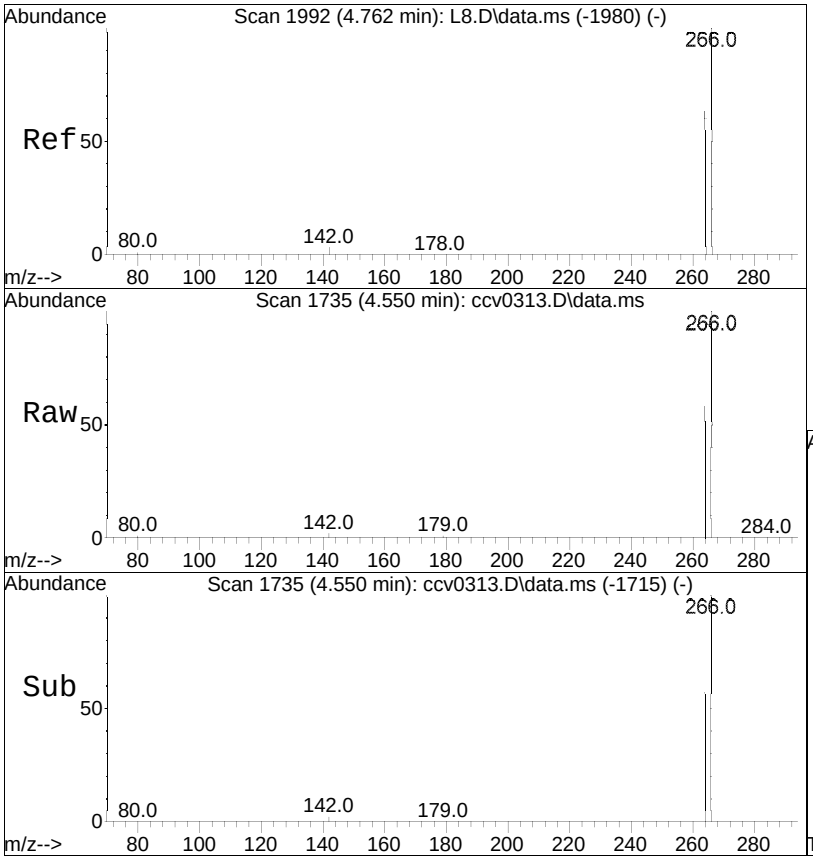


#25
Hexachlorobenzene
Concen: 801.47 ng/ml
RT: 4.428 min Scan# 1705
Delta R.T. 0.000 min
Lab File: ccv0313.D
Acq: 13 Mar 2025 06:38 am

Tgt Ion:284 Resp: 51038

Ion	Ratio	Lower	Upper
284	100		
142	40.0	33.8	50.6

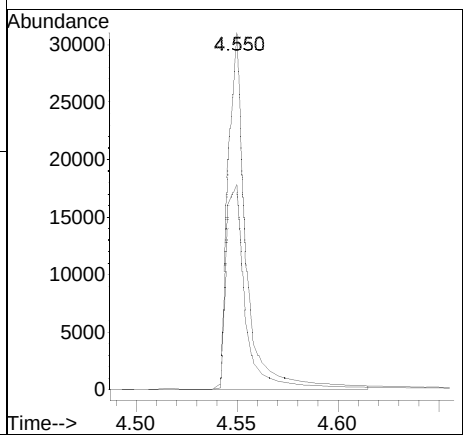


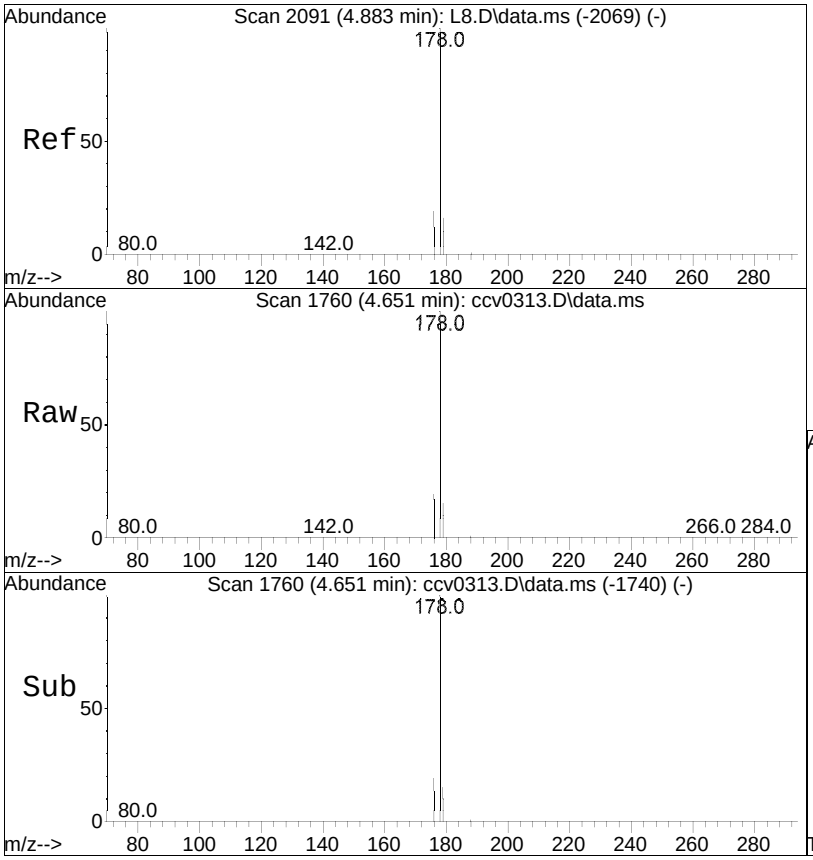


#26
Pentachlorophenol
Concen: 598.20 ng/ml
RT: 4.550 min Scan# 1735
Delta R.T. 0.000 min
Lab File: ccv0313.D
Acq: 13 Mar 2025 06:38 am

Tgt Ion:266 Resp: 18918

Ion	Ratio	Lower	Upper
266	100		
264	63.0	50.8	76.2

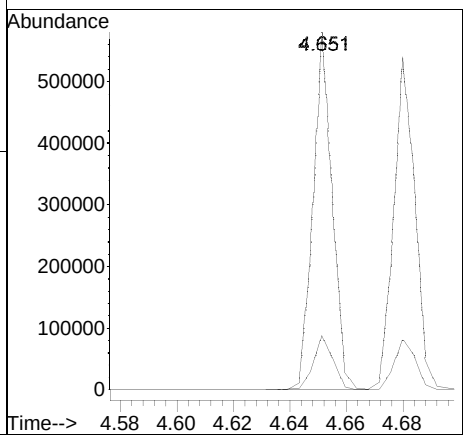


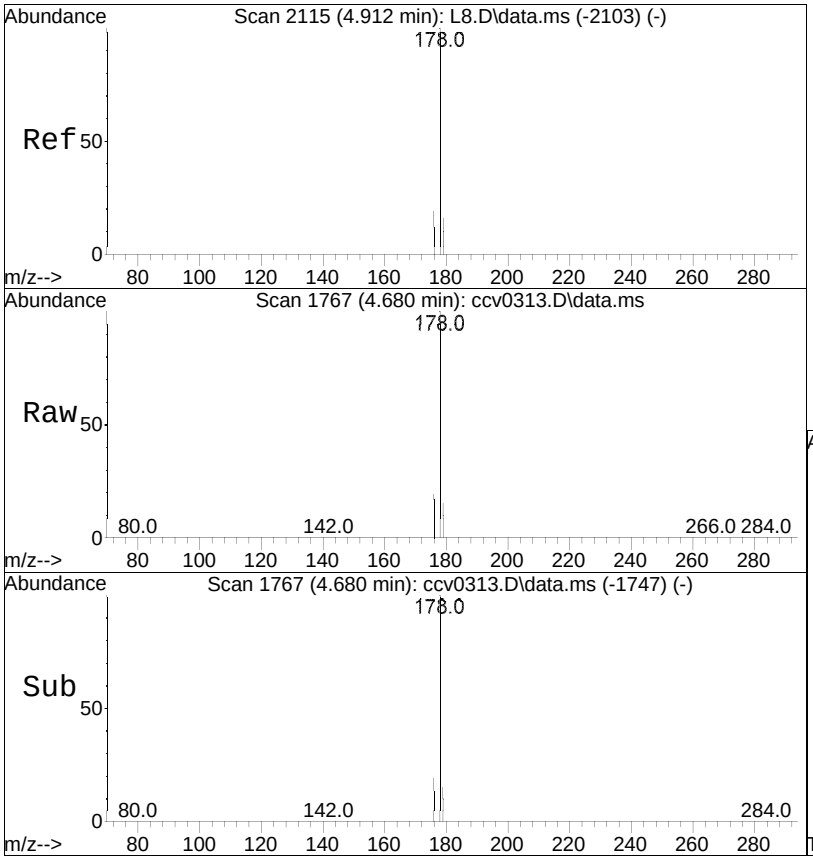


#27
Phenanthrene
Concen: 865.30 ng/ml
RT: 4.651 min Scan# 1760
Delta R.T. 0.000 min
Lab File: ccv0313.D
Acq: 13 Mar 2025 06:38 am

Tgt Ion:178 Resp: 273325

Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.8	19.2

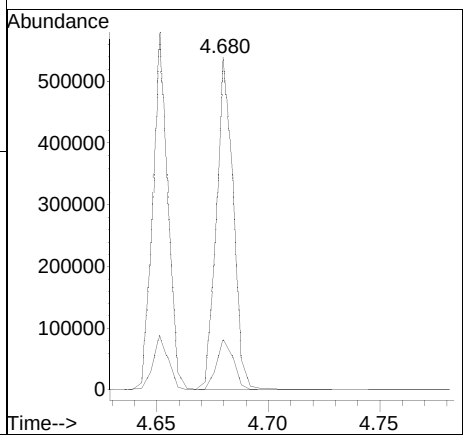


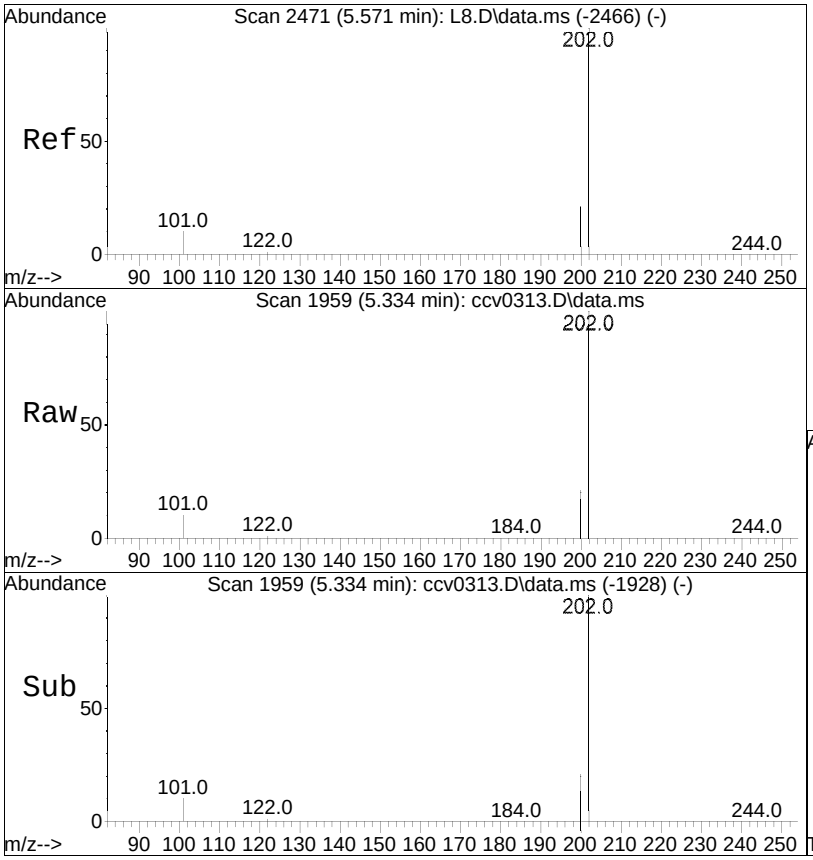


#28
Anthracene
Concen: 890.27 ng/ml
RT: 4.680 min Scan# 1767
Delta R.T. 0.000 min
Lab File: ccv0313.D
Acq: 13 Mar 2025 06:38 am

Tgt Ion:178 Resp: 281947

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.6	18.8

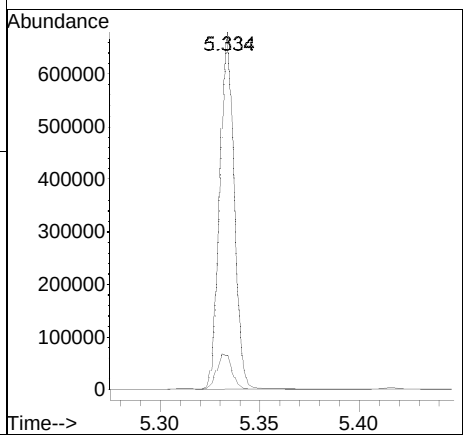


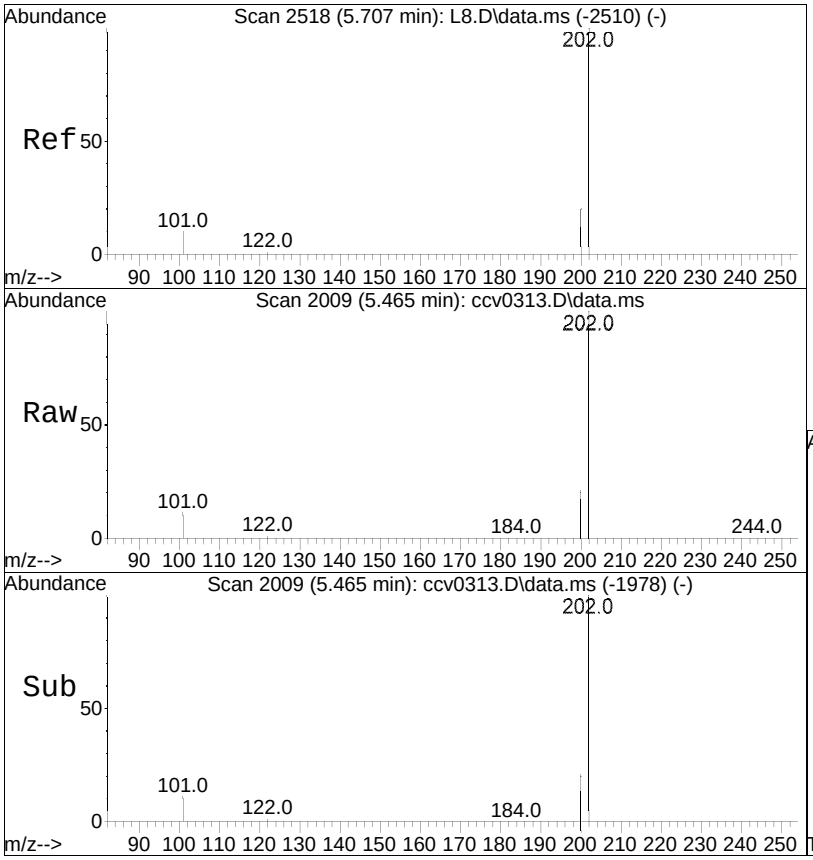


#29
Fluoranthene
Concen: 857.32 ng/ml
RT: 5.334 min Scan# 1959
Delta R.T. 0.000 min
Lab File: ccv0313.D
Acq: 13 Mar 2025 06:38 am

Tgt Ion:202 Resp: 338803

Ion	Ratio	Lower	Upper
202	100		
101	10.7	8.2	12.2

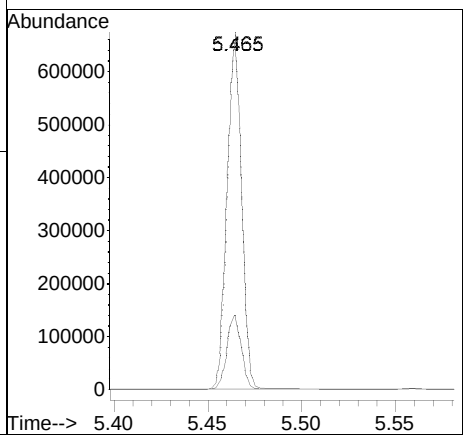


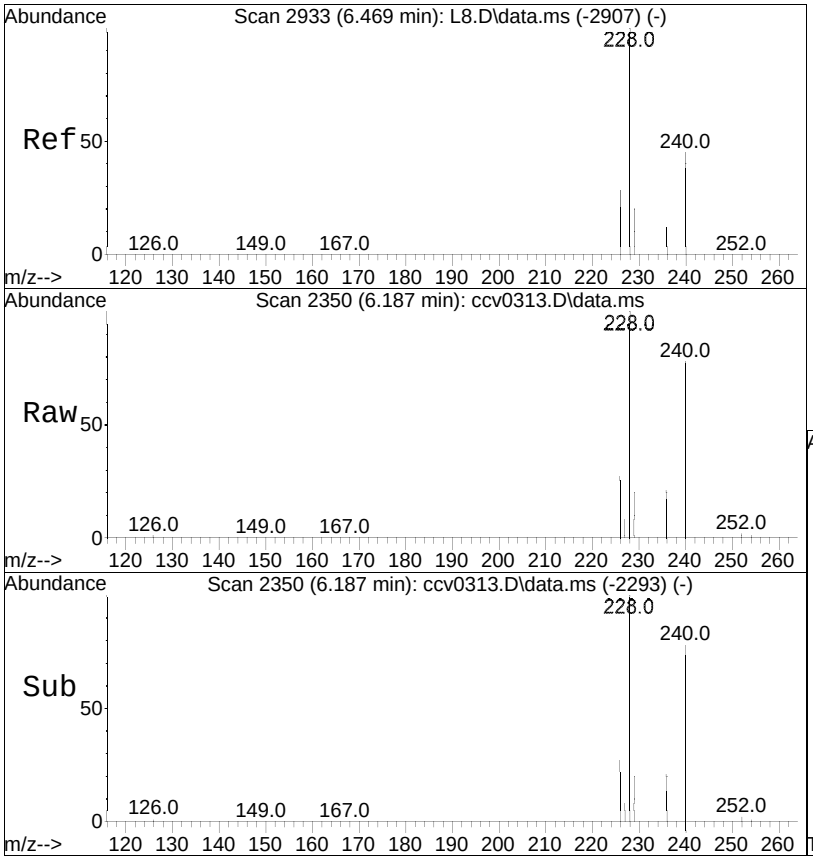


#30
Pyrene
Concen: 864.47 ng/ml
RT: 5.465 min Scan# 2009
Delta R.T. 0.000 min
Lab File: ccv0313.D
Acq: 13 Mar 2025 06:38 am

Tgt Ion:202 Resp: 352625

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.9	25.3

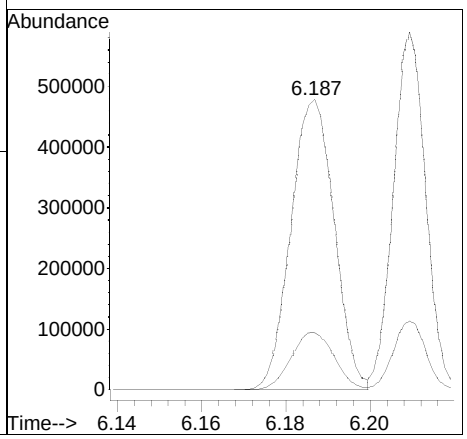


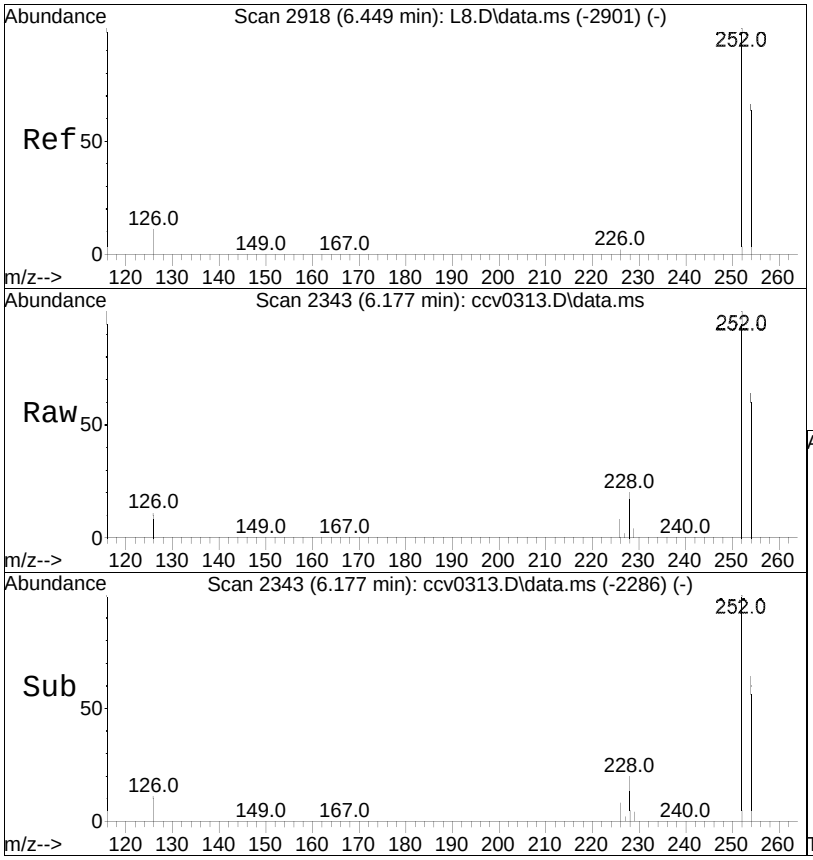


#34
Benzo[a]anthracene
Concen: 894.84 ng/ml
RT: 6.187 min Scan# 2350
Delta R.T. 0.000 min
Lab File: ccv0313.D
Acq: 13 Mar 2025 06:38 am

Tgt Ion:228 Resp: 340922

Ion	Ratio	Lower	Upper
228	100		
229	19.7	15.9	23.9

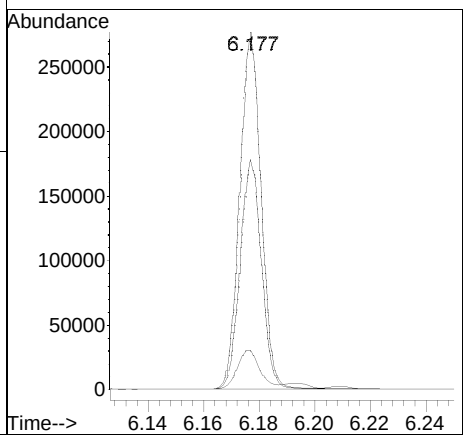


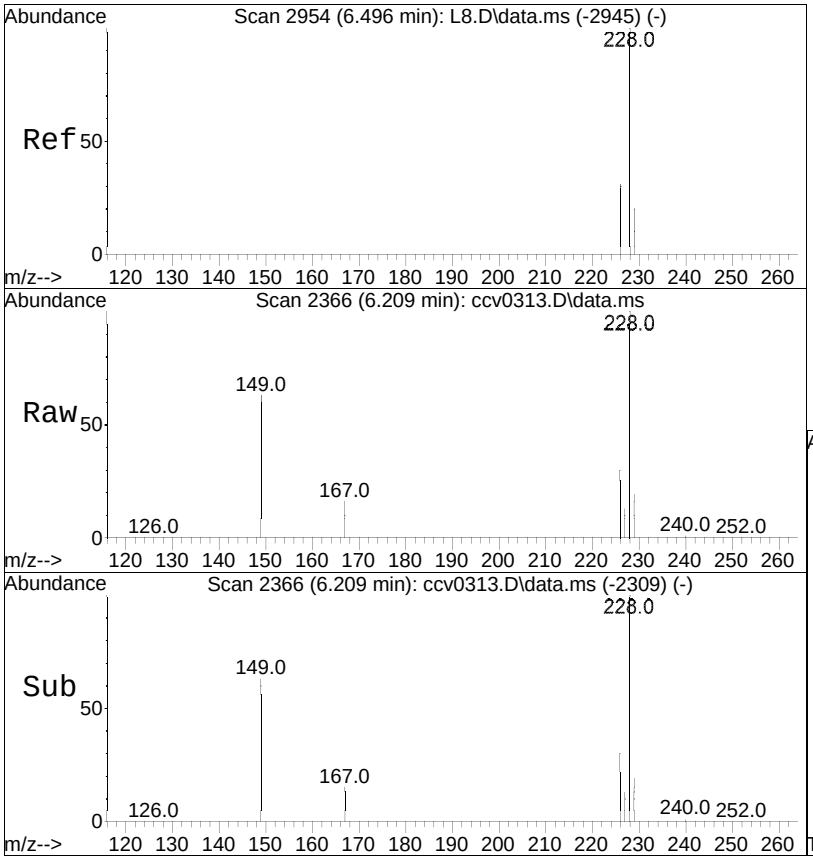


#35
3,3'-Dichlorobenzidine
Concen: 1078.13 ng/ml
RT: 6.177 min Scan# 2343
Delta R.T. 0.000 min
Lab File: ccv0313.D
Acq: 13 Mar 2025 06:38 am

Tgt Ion:252 Resp: 145881

Ion	Ratio	Lower	Upper
252	100		
126	11.9	8.6	13.0
254	64.5	51.8	77.8

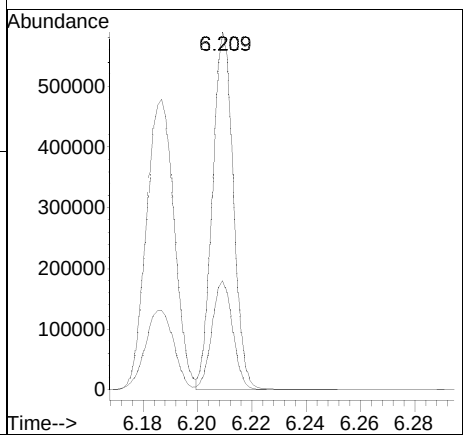


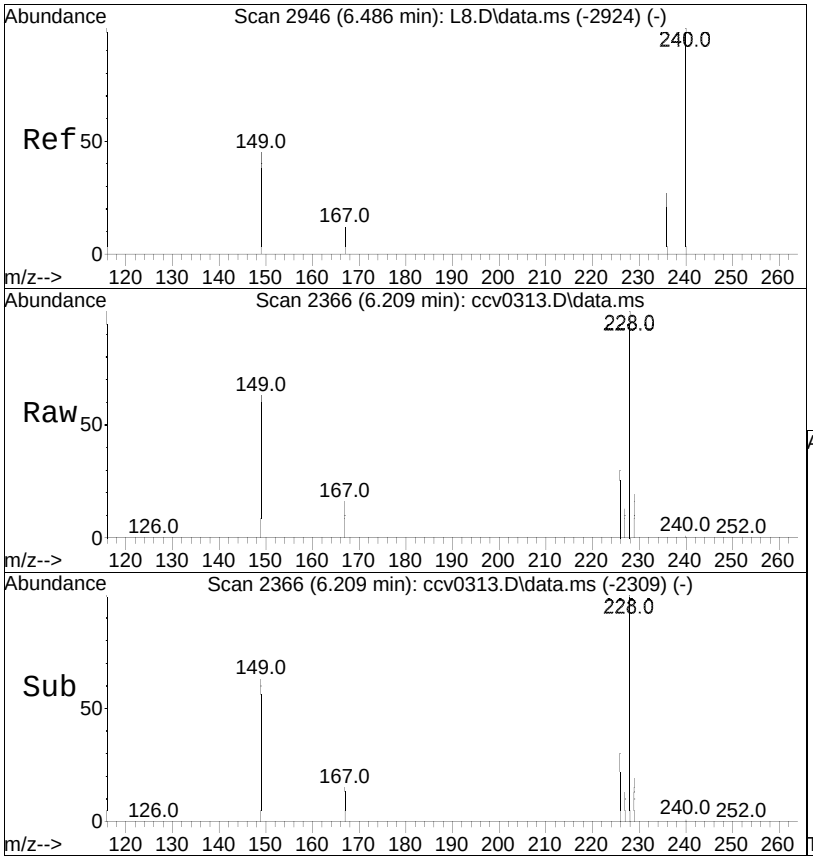


#36
Chrysene
Concen: 849.43 ng/ml
RT: 6.209 min Scan# 2366
Delta R.T. 0.000 min
Lab File: ccv0313.D
Acq: 13 Mar 2025 06:38 am

Tgt Ion:228 Resp: 314275

Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.4	36.6

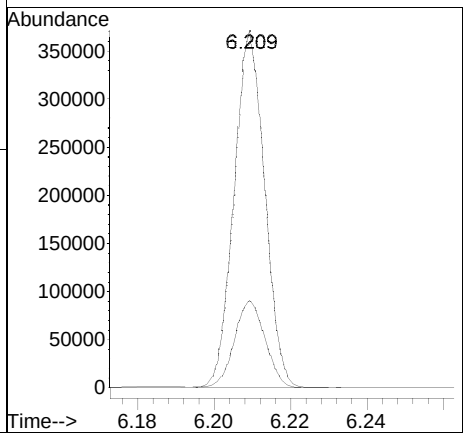


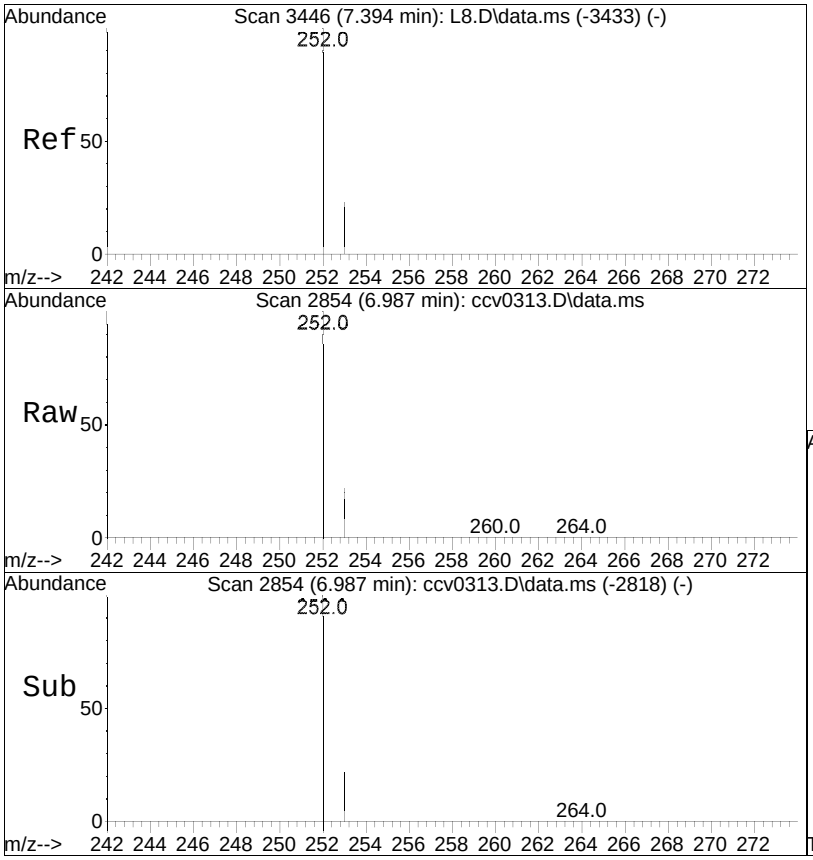


#37
Bis(2-ethylhexyl)phthalate
Concen: 1063.90 ng/ml
RT: 6.209 min Scan# 2366
Delta R.T. 0.000 min
Lab File: ccv0313.D
Acq: 13 Mar 2025 06:38 am

Tgt Ion:149 Resp: 204203

Ion	Ratio	Lower	Upper
149	100		
167	24.9	20.7	31.1

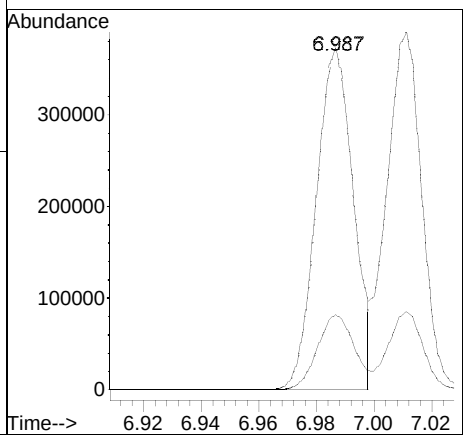


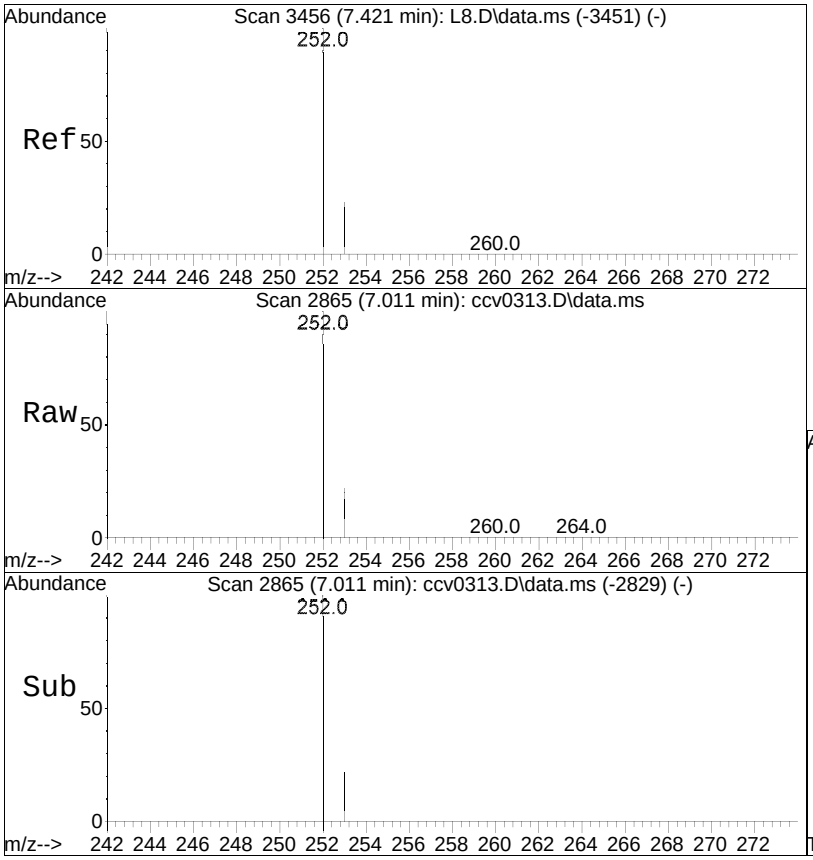


#39
Benzo[b]fluoranthene
Concen: 903.91 ng/ml
RT: 6.987 min Scan# 2854
Delta R.T. 0.000 min
Lab File: ccv0313.D
Acq: 13 Mar 2025 06:38 am

Tgt Ion:252 Resp: 332343

Ion	Ratio	Lower	Upper
252	100		
253	22.5	18.1	27.1

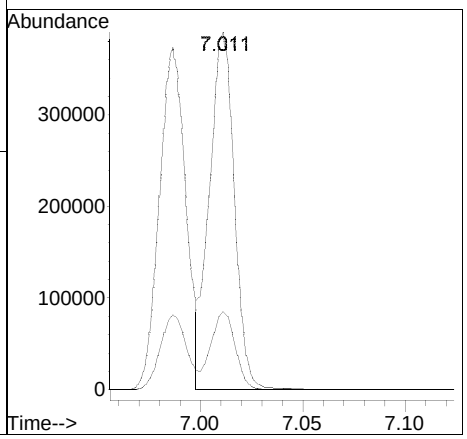


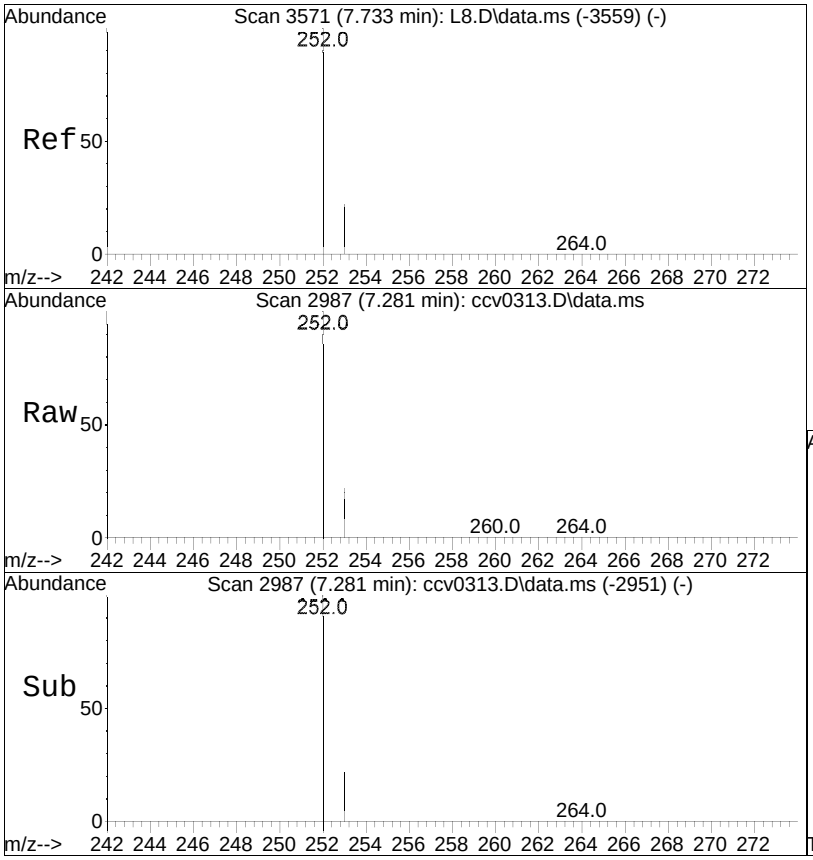


#40
Benzo[k]fluoranthene
Concen: 906.66 ng/ml
RT: 7.011 min Scan# 2865
Delta R.T. 0.000 min
Lab File: ccv0313.D
Acq: 13 Mar 2025 06:38 am

Tgt Ion:252 Resp: 328735

Ion	Ratio	Lower	Upper
252	100		
253	21.2	18.2	27.2

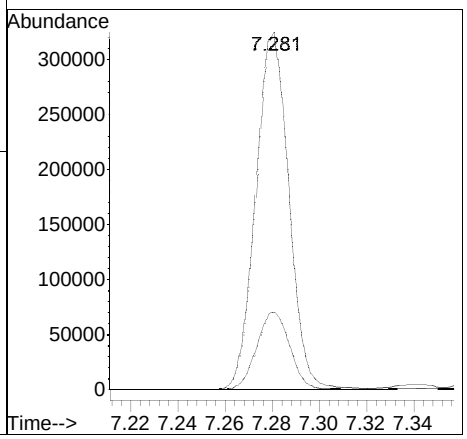


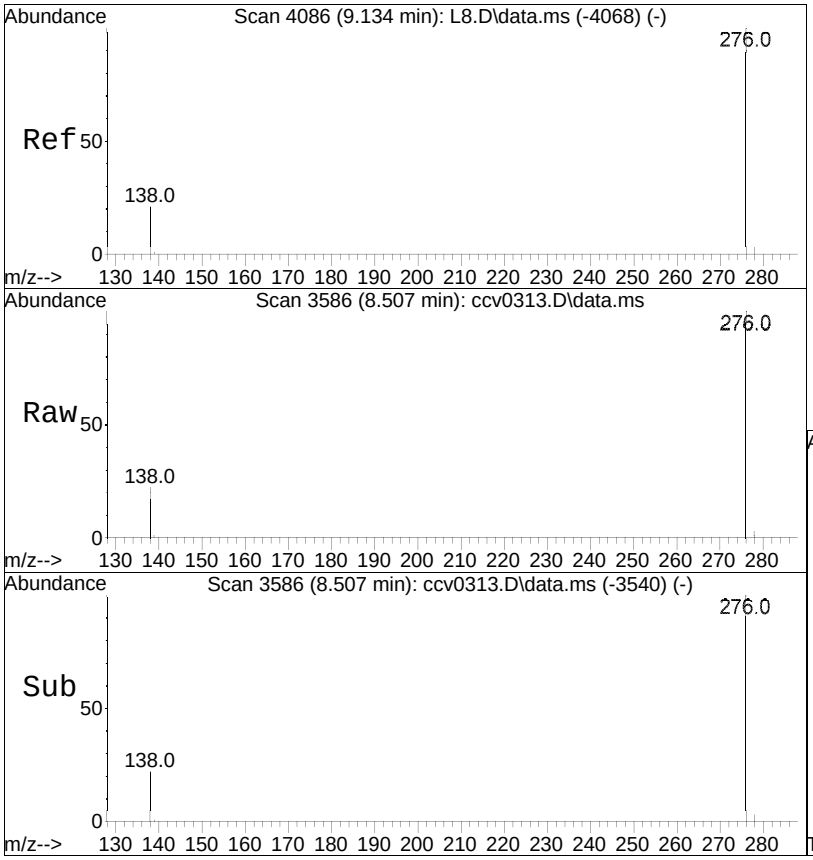


#41
Benzo[a]pyrene
Concen: 1002.16 ng/ml
RT: 7.281 min Scan# 2987
Delta R.T. 0.000 min
Lab File: ccv0313.D
Acq: 13 Mar 2025 06:38 am

Tgt Ion:252 Resp: 312655

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.9	26.9

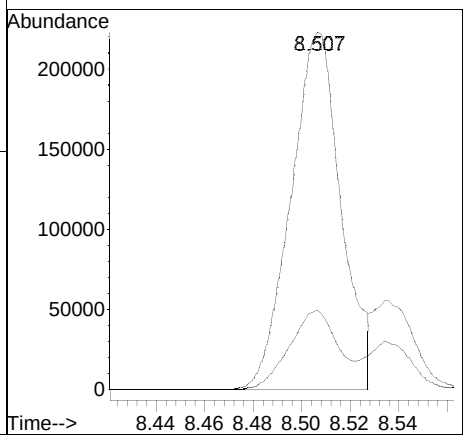


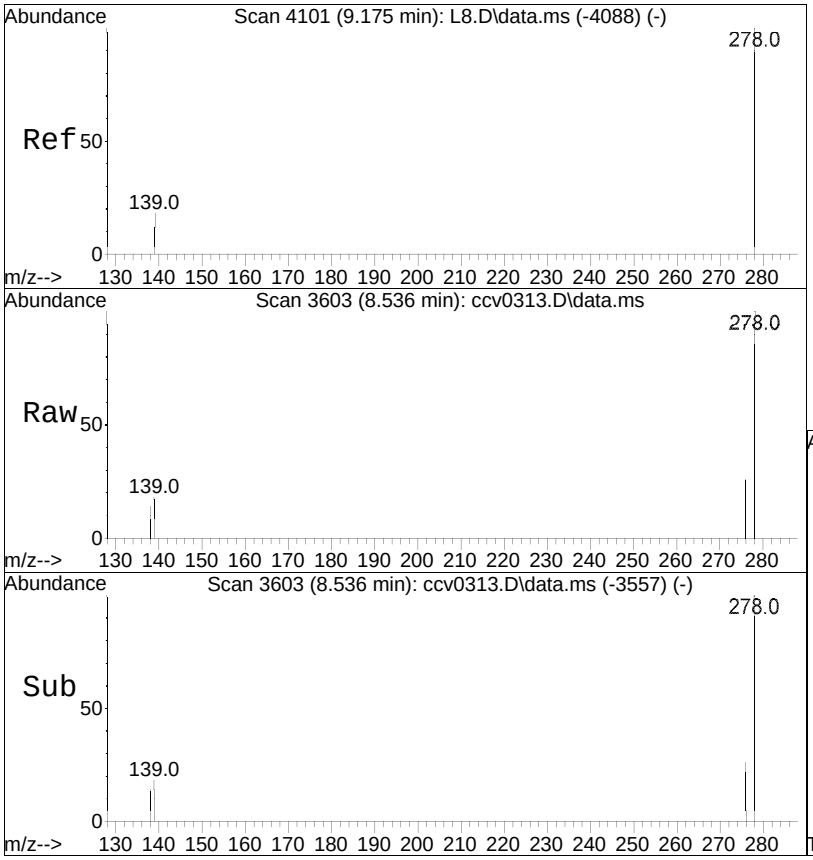


#42
Indeno[1,2,3-cd]pyrene
Concen: 1052.95 ng/ml
RT: 8.507 min Scan# 3586
Delta R.T. 0.000 min
Lab File: ccv0313.D
Acq: 13 Mar 2025 06:38 am

Tgt Ion:276 Resp: 318028

Ion	Ratio	Lower	Upper
276	100		
138	21.6	16.9	25.3

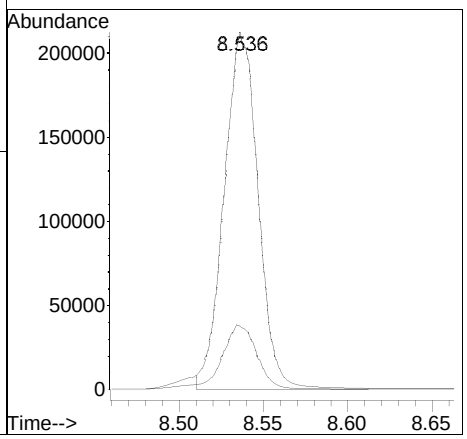


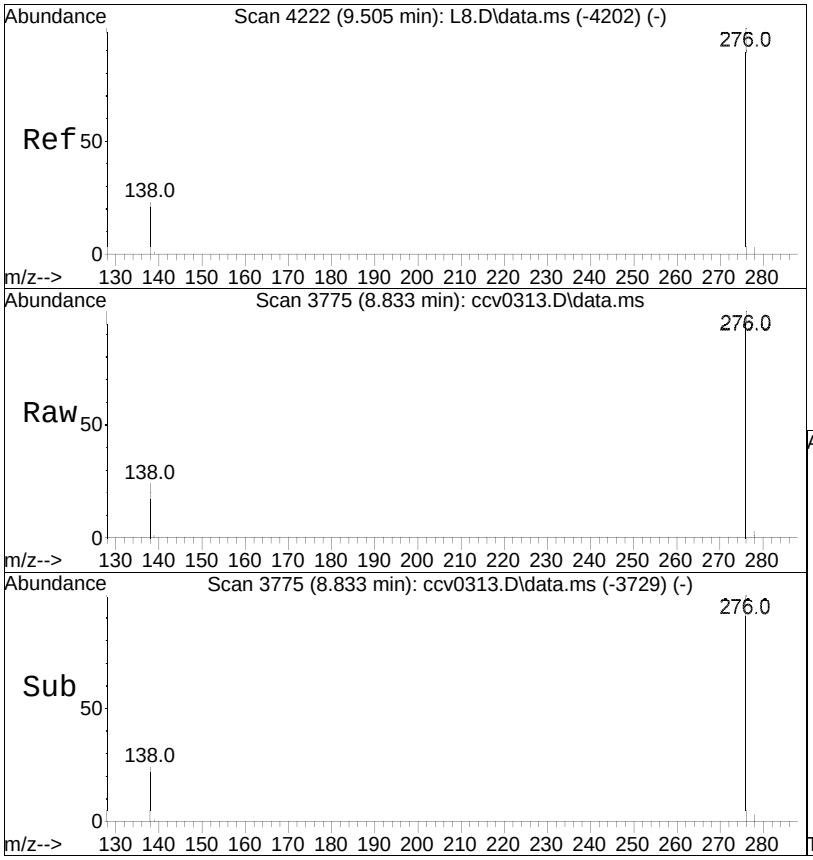


#43
Dibenzo[a,h]anthracene
Concen: 1055.60 ng/ml M6
RT: 8.536 min Scan# 3603
Delta R.T. 0.000 min
Lab File: ccv0313.D
Acq: 13 Mar 2025 06:38 am

Tgt Ion:278 Resp: 295771

Ion	Ratio	Lower	Upper
278	100		
139	18.9	14.6	22.0

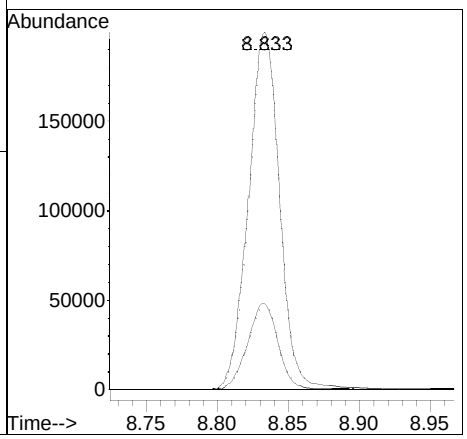




#44
Benzo[g,h,i]perylene
Concen: 1045.37 ng/ml
RT: 8.833 min Scan# 3775
Delta R.T. 0.000 min
Lab File: ccv0313.D
Acq: 13 Mar 2025 06:38 am

Tgt Ion:276 Resp: 300514

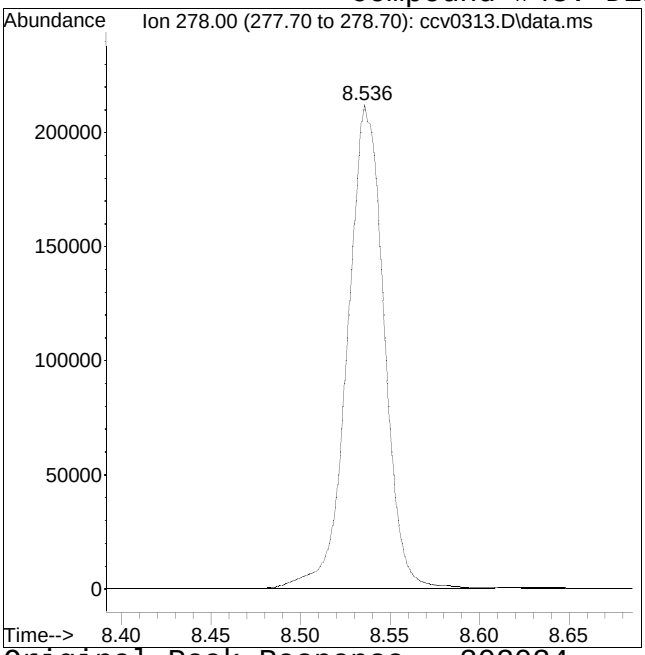
Ion	Ratio	Lower	Upper
276	100		
138	24.0	18.6	28.0



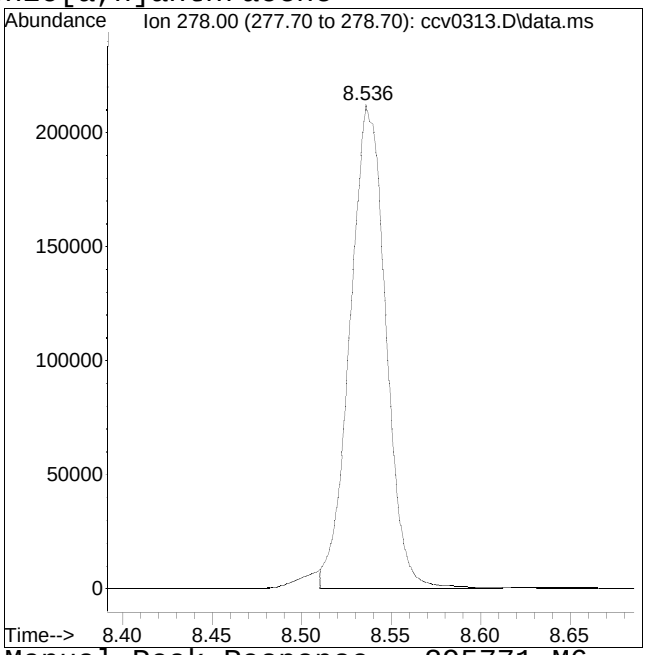
Manual Integration Report

Data Path : I:\8270SIM\sv119\250313RVTQMethod : SIM-RVT_241229_sv119.M
Data File : ccv0313.D Operator : sv119:rp
Date Inj'd : 3/13/2025 6:38 am Instrument : SV119
Sample : WG2039957-3,32,,ICV 11275 Quant Date : 3/13/2025 6:54 am

Compound #43: Dibenzo[a,h]anthracene



Original Peak Response = 302034



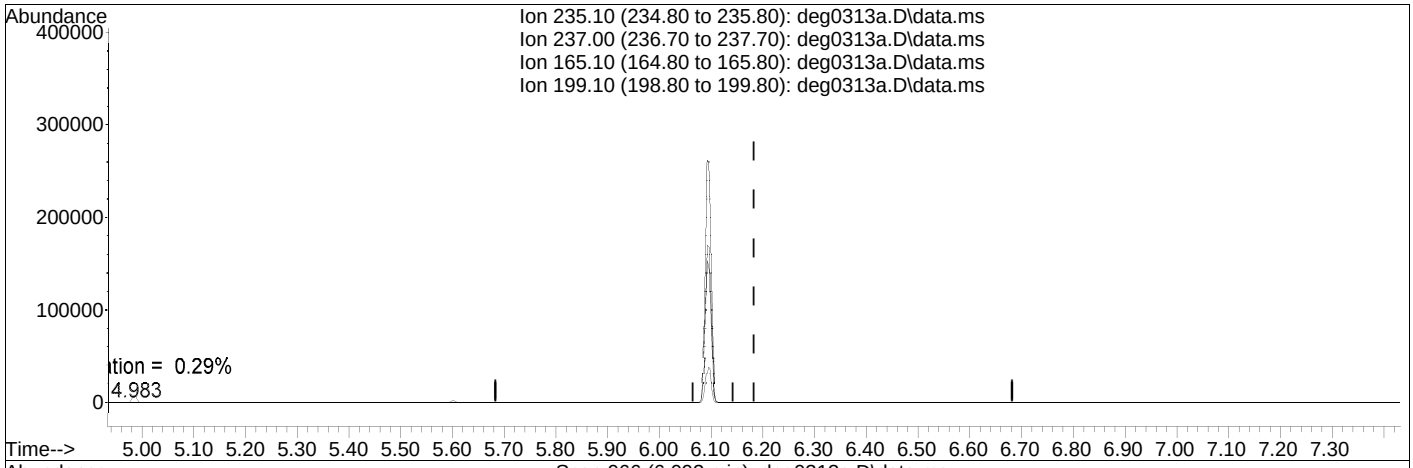
Manual Peak Response = 295771 M6

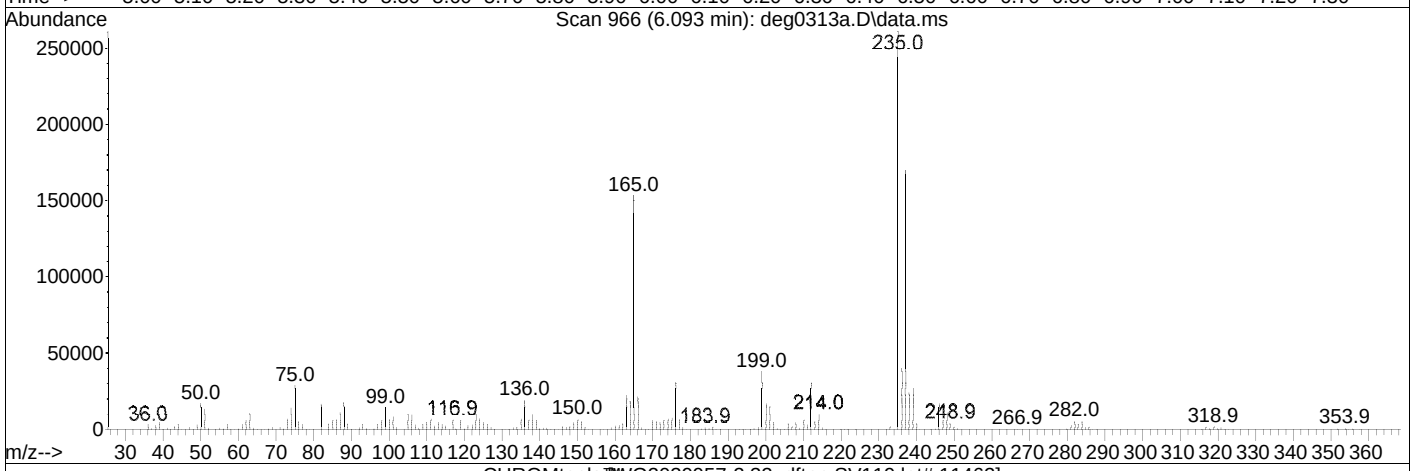
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\250313RVT\
Data File : deg0313a.D
Acq On : 13 Mar 2025 06:21 am
Operator : sv119:rp
Sample : WG2039957-2,32,,dftpp SV119 lot# 11462
Misc : WG2039957,,ical21826
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Mar 13 06:34:06 2025
Quant Method : I:\8270SIM\sv119\250313RVT\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jan 31 09:20:30 2025
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





CHROMtools [WG2039957-2,32,,dftpp SV119 lot# 11462]

(6) ddt (T)

6.093min (-0.090) 32.34

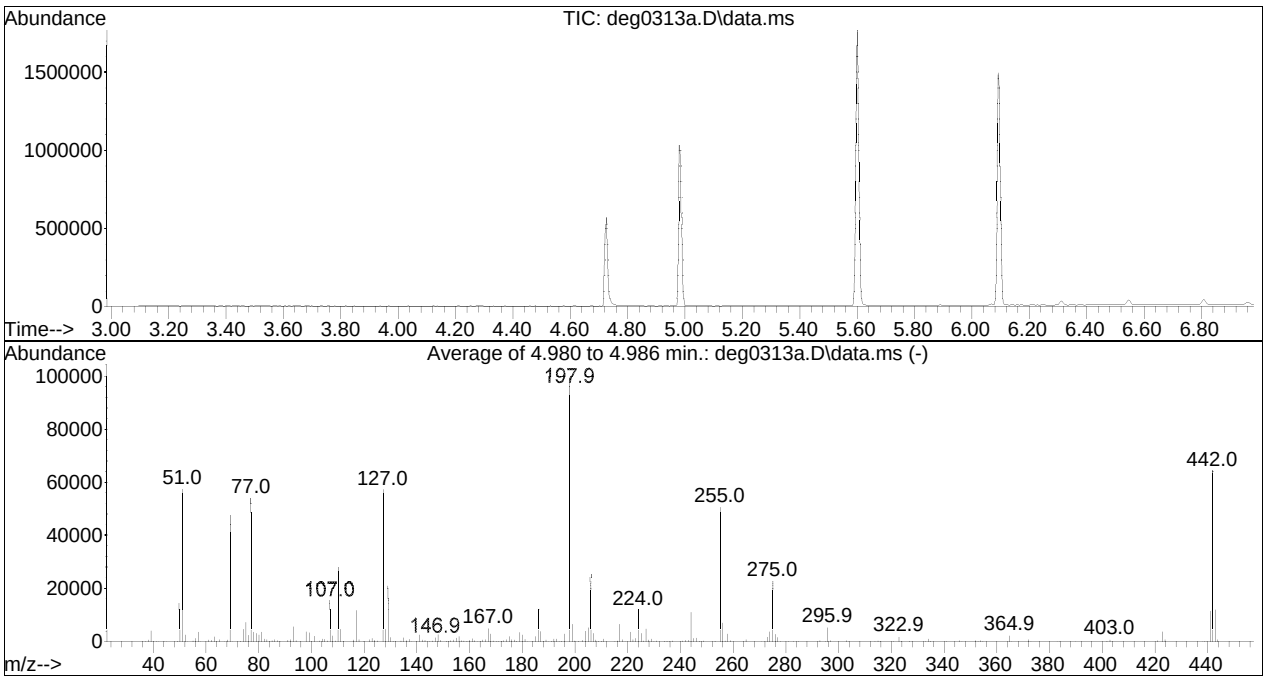
response 197126

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	65.60
165.10	53.30	57.41
199.10	17.10	14.53

Data Path : I:\8270SIM\sv119\250313RVT\
Data File : deg0313a.D
Acq On : 13 Mar 2025 06:21 am
Operator : sv119:rp
Sample : WG2039957-1,32,,dftpp SV119 lot# 11462
Misc : WG2039957,,ical21826
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\sv119\250313RVT\SIM-RVT_241229_sv119.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Mar 13 06:54:19 2025



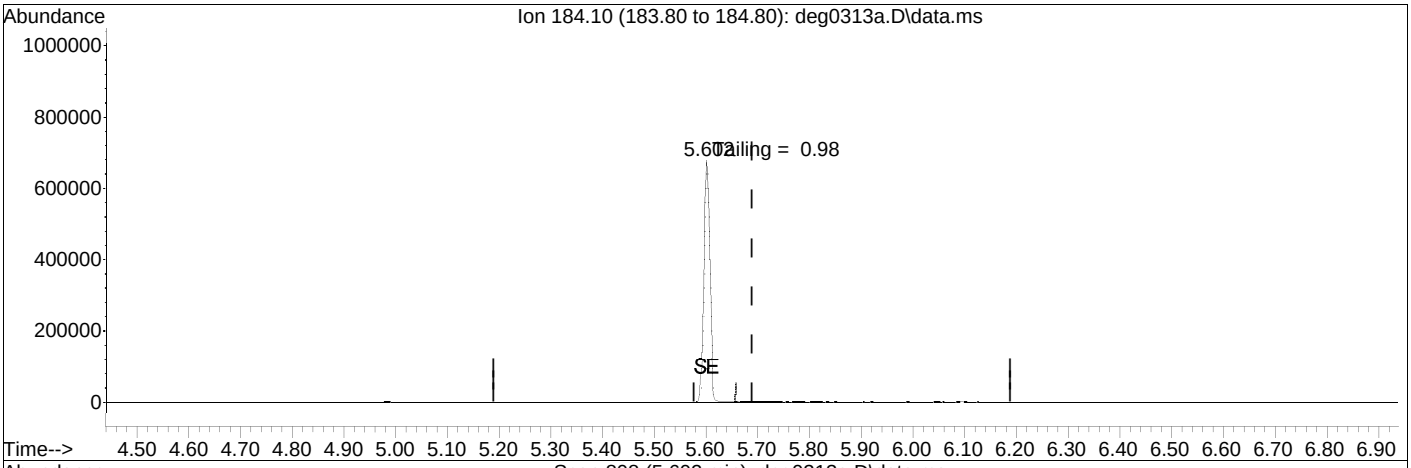
Spectrum Information: Average of 4.980 to 4.986 min.

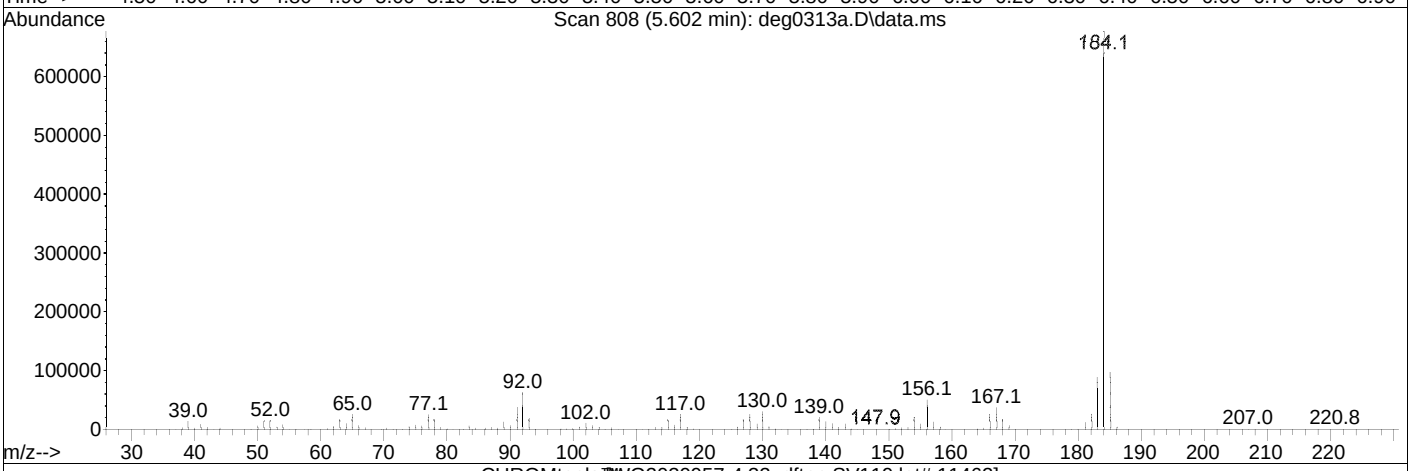
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	57.6	57312	PASS
68	69	0.00	2	1.8	829	PASS
69	69	100	100	100.0	47291	PASS
70	69	0.00	2	0.3	119	PASS
127	198	10	80	57.5	57181	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	99416	PASS
199	198	5	9	6.7	6647	PASS
275	198	10	60	22.8	22624	PASS
365	198	1	100	2.3	2304	PASS
441	442	0.01	24	17.7	11369	PASS
442	198	50	100	64.6	64224	PASS
443	442	15	24	18.5	11859	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\250313RVT\
Data File : deg0313a.D
Acq On : 13 Mar 2025 06:21 am
Operator : sv119:rp
Sample : WG2039957-4,32,,dftpp SV119 lot# 11462
Misc : WG2039957,,ical21826
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Mar 13 06:34:06 2025
Quant Method : I:\8270SIM\sv119\250313RVT\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jan 31 09:20:30 2025
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





CHROMtools [WG2039957-4,32,,dftpp SV119 lot# 11462]

(3) benzidine (T)

5.602min (-0.087) 50.15

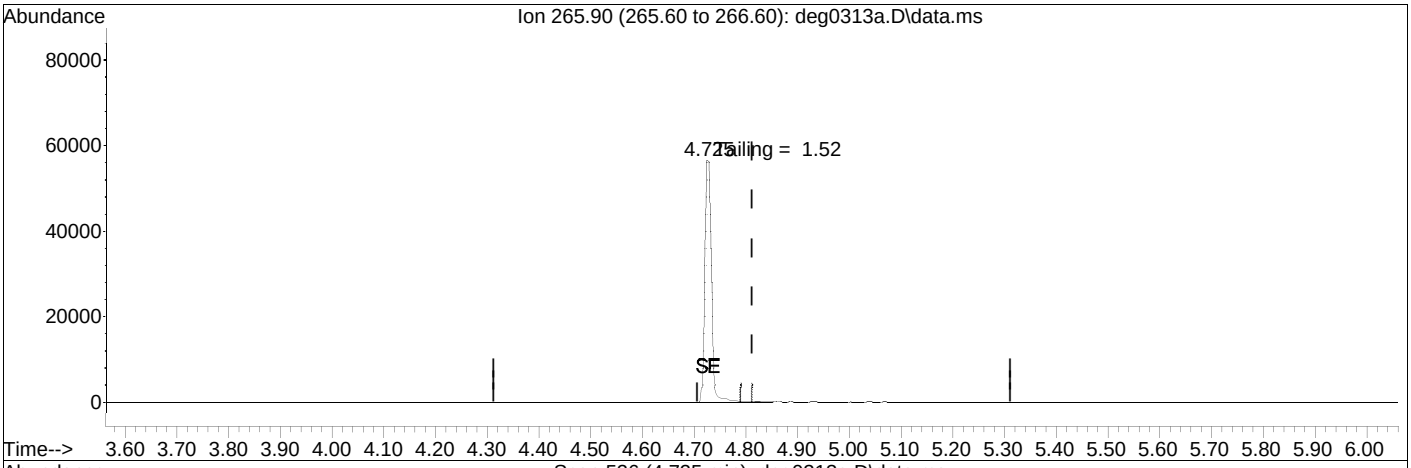
response 510484

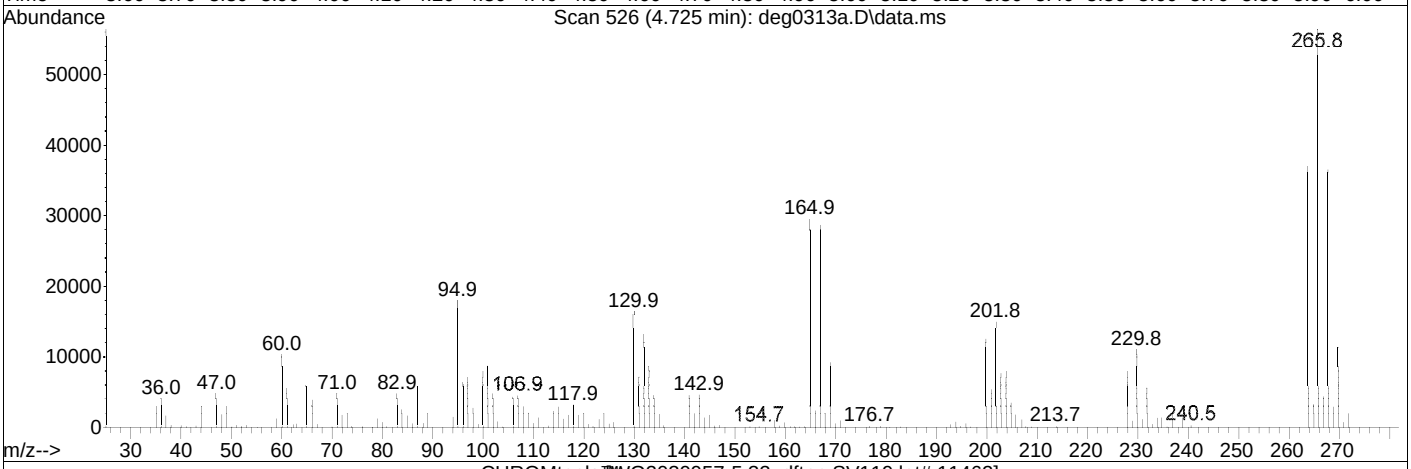
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\250313RVT\
Data File : deg0313a.D
Acq On : 13 Mar 2025 06:21 am
Operator : sv119:rp
Sample : WG2039957-5,32,,dftpp SV119 lot# 11462
Misc : WG2039957,,ical21826
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Mar 13 06:34:06 2025
Quant Method : I:\8270SIM\sv119\250313RVT\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jan 31 09:20:30 2025
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





CHROMtools [WG2039957-5,32,,dftpp SV119 lot# 11462]

(1) pentachlorophenol (T)

4.725min (-0.087) 21.94

response 46082

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV119	**Calibration Date**	: 03/11/25 09:51		
Lab File ID	: CCV0311B	**Init. Calib. Date(s)**	: 12/29/24	12/29/24	
Sample No	: WG2039073-3	**Init. Calib. Times**	: 13:37	16:09	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	107	0
2-Fluorophenol	1.072	1.095	.05	-2.1	20	108	0
Phenol-d6	1.338	1.336	.05	0.1	20	104	0
Bis(2-chloroethyl)ether	1.235	1.347	.05	-9.1	20	123	0
n-nitrosodi-n-propylamine	0.827	0.733	.05	11.4	20	93	0
Hexachloroethane	0.518	0.484	.05	6.6	20	104	0
Nitrobenzene-d5	1.297	1.153	.05	11.1	20	96	0
Naphthalene-d8	1	1	.05	0	20	107	0
Naphthalene	1.116	0.966	.05	13.4	20	98	0
Hexachlorobutadiene	0.196	0.159	.05	18.9	20	91	0
2-Methylnaphthalene	0.78	0.62	.05	20.5*	20	89	0
1-Methylnaphthalene	0.718	0.629	.05	12.4	20	97	0
2-Fluorobiphenyl	0.975	0.774	.05	20.6*	20	90	0
2-Chloronaphthalene	0.805	0.664	.05	17.5	20	92	0
2,6-Dinitrotoluene	0.198	0.162	.05	18.2	20	85	0
Acenaphthylene	1.247	1.107	.05	11.2	20	98	0
Acenaphthene-d10	1	1	.05	0	20	96	0
Acenaphthene	1.334	1.202	.05	9.9	20	90	0
2,4-Dinitrotoluene	0.424	0.399	.05	5.9	20	86	0
Fluorene	1.533	1.426	.05	7	20	91	0
2,4,6-Tribromophenol	0.175	0.168	.05	4	20	87	0
Phenanthrene-d10	1	1	.05	0	20	93	0
4,6-Dinitro-o-cresol	1000	718.086	.05	28.2*	20	71	0
Hexachlorobenzene	0.236	0.202	.05	14.4	20	86	0
Pentachlorophenol	1000	839.229	.05	16.1	20	79	0
Phenanthrene	1.17	1.036	.05	11.5	20	86	0
Anthracene	1.173	1.07	.05	8.8	20	88	0
Fluoranthene	1.463	1.247	.05	14.8	20	83	0
Pyrene	1.51	1.279	.05	15.3	20	83	0
4-Terphenyl-d14	0.992	0.771	.05	22.3*	20	75	0
Chrysene-d12	1	1	.05	0	20	83	0
Benzo[a]anthracene	1000	901.889	.05	9.8	20	75	0
3,3'-Dichlorobenzidine	1000	1067.563	.05	-6.8	20	98	0
Chrysene	1.377	1.183	.05	14.1	20	74	0
Bis(2-ethylhexyl)phthalate	0.714	0.772	.05	-8.1	20	86	0
Perylene-d12	1	1	.05	0	20	85	0
Benzo[b]fluoranthene	1.326	1.204	.05	9.2	20	77	0
Benzo[k]fluoranthene	1.307	1.172	.05	10.3	20	77	0
Benzo[a]pyrene	1.125	1.113	.05	1.1	20	82	0
Indeno[1,2,3-cd]pyrene	1.089	1.123	.05	-3.1	20	84	0
Dibenzo[a,h]anthracene	1.01	1.055	.05	-4.5	20	83	0
Benzo[g,h,i]perylene	1.036	1.079	.05	-4.2	20	86	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV119	**Calibration Date**	: 03/12/25 06:56		
Lab File ID	: CCV0312A	**Init. Calib. Date(s)**	: 12/29/24	12/29/24	
Sample No	: WG2039433-3	**Init. Calib. Times**	: 13:37	16:09	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	89	0
2-Fluorophenol	1.072	1.112	.05	-3.7	20	91	0
Phenol-d6	1.338	1.358	.05	-1.5	20	88	0
Bis(2-chloroethyl)ether	1.235	1.181	.05	4.4	20	90	0
n-nitrosodi-n-propylamine	0.827	0.829	.05	-0.2	20	88	0
Hexachloroethane	0.518	0.485	.05	6.4	20	86	0
Nitrobenzene-d5	1.297	1.208	.05	6.9	20	83	0
Naphthalene-d8	1	1	.05	0	20	92	0
Naphthalene	1.116	0.967	.05	13.4	20	85	0
Hexachlorobutadiene	0.196	0.153	.05	21.9*	20	75	0
2-Methylnaphthalene	0.78	0.625	.05	19.9	20	77	0
1-Methylnaphthalene	0.718	0.638	.05	11.1	20	85	0
2-Fluorobiphenyl	0.975	0.782	.05	19.8	20	78	0
2-Chloronaphthalene	0.805	0.674	.05	16.3	20	80	0
2,6-Dinitrotoluene	0.198	0.168	.05	15.2	20	76	0
Acenaphthylene	1.247	1.148	.05	7.9	20	88	0
Acenaphthene-d10	1	1	.05	0	20	86	0
Acenaphthene	1.334	1.194	.05	10.5	20	80	0
2,4-Dinitrotoluene	0.424	0.388	.05	8.5	20	75	0
Fluorene	1.533	1.423	.05	7.2	20	81	0
2,4,6-Tribromophenol	0.175	0.166	.05	5.1	20	77	0
Phenanthrene-d10	1	1	.05	0	20	84	0
4,6-Dinitro-o-cresol	1000	704.449	.05	29.6*	20	63	0
Hexachlorobenzene	0.236	0.192	.05	18.6	20	74	0
Pentachlorophenol	1000	649.4	.05	35.1*	20	55	0
Phenanthrene	1.17	1.015	.05	13.2	20	77	0
Anthracene	1.173	1.059	.05	9.7	20	79	0
Fluoranthene	1.463	1.267	.05	13.4	20	76	0
Pyrene	1.51	1.307	.05	13.4	20	77	0
4-Terphenyl-d14	0.992	0.805	.05	18.9	20	71	0
Chrysene-d12	1	1	.05	0	20	81	0
Benzo[a]anthracene	1000	908.038	.05	9.2	20	74	0
3,3'-Dichlorobenzidine	1000	1135.773	.05	-13.6	20	102	0
Chrysene	1.377	1.173	.05	14.8	20	72	0
Bis(2-ethylhexyl)phthalate	0.714	0.972	.05	-36.1*	20	106	0
Perylene-d12	1	1	.05	0	20	84	0
Benzo[b]fluoranthene	1.326	1.236	.05	6.8	20	78	0
Benzo[k]fluoranthene	1.307	1.211	.05	7.3	20	78	0
Benzo[a]pyrene	1.125	1.158	.05	-2.9	20	84	0
Indeno[1,2,3-cd]pyrene	1.089	1.165	.05	-7	20	86	0
Dibenzo[a,h]anthracene	1.01	1.076	.05	-6.5	20	83	0
Benzo[g,h,i]perylene	1.036	1.099	.05	-6.1	20	86	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV119	**Calibration Date**	: 03/13/25 06:38		
Lab File ID	: CCV0313	**Init. Calib. Date(s)**	: 12/29/24	12/29/24	
Sample No	: WG2039957-3	**Init. Calib. Times**	: 13:37	16:09	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	74	0
2-Fluorophenol	1.072	1.088	.05	-1.5	20	75	0
Phenol-d6	1.338	1.36	.05	-1.6	20	74	0
Bis(2-chloroethyl)ether	1.235	1.164	.05	5.7	20	74	0
n-nitrosodi-n-propylamine	0.827	0.817	.05	1.2	20	72	0
Hexachloroethane	0.518	0.483	.05	6.8	20	72	0
Nitrobenzene-d5	1.297	1.229	.05	5.2	20	71	0
Naphthalene-d8	1	1	.05	0	20	78	0
Naphthalene	1.116	0.962	.05	13.8	20	72	0
Hexachlorobutadiene	0.196	0.15	.05	23.5*	20	63	0
2-Methylnaphthalene	0.78	0.619	.05	20.6*	20	65	0
1-Methylnaphthalene	0.718	0.631	.05	12.1	20	72	0
2-Fluorobiphenyl	0.975	0.771	.05	20.9*	20	66	0
2-Chloronaphthalene	0.805	0.666	.05	17.3	20	67	0
2,6-Dinitrotoluene	0.198	0.167	.05	15.7	20	64	0
Acenaphthylene	1.247	1.124	.05	9.9	20	73	0
Acenaphthene-d10	1	1	.05	0	20	72	0
Acenaphthene	1.334	1.195	.05	10.4	20	67	0
2,4-Dinitrotoluene	0.424	0.392	.05	7.5	20	63	0
Fluorene	1.533	1.41	.05	8	20	67	0
2,4,6-Tribromophenol	0.175	0.156	.05	10.9	20	61	0
Phenanthrene-d10	1	1	.05	0	20	71	0
4,6-Dinitro-o-cresol	1000	737.689	.05	26.2*	20	56	0
Hexachlorobenzene	0.236	0.189	.05	19.9	20	61	0
Pentachlorophenol	1000	598.195	.05	40.2*	20	43	0
Phenanthrene	1.17	1.012	.05	13.5	20	65	0
Anthracene	1.173	1.044	.05	11	20	66	0
Fluoranthene	1.463	1.254	.05	14.3	20	64	0
Pyrene	1.51	1.306	.05	13.5	20	65	0
4-Terphenyl-d14	0.992	0.794	.05	20	20	59	0
Chrysene-d12	1	1	.05	0	20	69	0
Benzo[a]anthracene	1000	894.842	.05	10.5	20	62	0
3,3'-Dichlorobenzidine	1000	1078.126	.05	-7.8	20	83	0
Chrysene	1.377	1.17	.05	15	20	61	0
Bis(2-ethylhexyl)phthalate	0.714	0.76	.05	-6.4	20	71	0
Perylene-d12	1	1	.05	0	20	71	0
Benzo[b]fluoranthene	1.326	1.198	.05	9.7	20	64	0
Benzo[k]fluoranthene	1.307	1.185	.05	9.3	20	65	0
Benzo[a]pyrene	1.125	1.127	.05	-0.2	20	69	0
Indeno[1,2,3-cd]pyrene	1.089	1.147	.05	-5.3	20	72	0
Dibenzo[a,h]anthracene	1.01	1.066	.05	-5.5	20	70	0
Benzo[g,h,i]perylene	1.036	1.084	.05	-4.6	20	72	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV118	**Calibration Date**	: 03/13/25 08:33		
Lab File ID	: CCV0313A	**Init. Calib. Date(s)**	: 02/03/25	02/03/25	
Sample No	: WG2040034-3	**Init. Calib. Times**	: 15:47	18:20	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.01	0	20	139	0
2-Fluorophenol	1.223	1.072	.01	12.3	20	121	0
Phenol-d6	1.466	1.355	.01	7.6	20	127	0
Bis(2-chloroethyl)ether	1.301	1.229	.01	5.5	20	135	0
n-nitrosodi-n-propylamine	0.835	0.909	.01	-8.9	20	143	0
Hexachloroethane	0.544	0.533	.01	2	20	136	0
Nitrobenzene-d5	1.197	1.265	.01	-5.7	20	140	0
Naphthalene-d8	1	1	.01	0	20	140	0
Naphthalene	1.137	1.047	.01	7.9	20	133	0
Hexachlorobutadiene	0.204	0.197	.01	3.4	20	135	0
2-Methylnaphthalene	0.707	0.677	.01	4.2	20	135	0
1-Methylnaphthalene	0.719	0.693	.01	3.6	20	136	0
2-Fluorobiphenyl	0.876	0.858	.01	2.1	20	143	0
2-Chloronaphthalene	0.765	0.755	.01	1.3	20	138	0
2,6-Dinitrotoluene	0.17	0.191	.01	-12.4	20	145	0
Acenaphthylene	1.17	1.257	.01	-7.4	20	142	0
Acenaphthene-d10	1	1	.01	0	20	148	0
Acenaphthene	1.424	1.301	.01	8.6	20	138	0
2,4-Dinitrotoluene	0.411	0.447	.01	-8.8	20	146	0
Fluorene	1.566	1.515	.01	3.3	20	143	0
2,4,6-Tribromophenol	0.185	0.213	.01	-15.1	20	148	0
Phenanthrene-d10	1	1	.01	0	20	155	0
4,6-Dinitro-o-cresol	1000	799.402	.01	20.1*	20	133	0
Hexachlorobenzene	0.265	0.263	.01	0.8	20	156	0
Pentachlorophenol	1000	758.034	.01	24.2*	20	111	0
Phenanthrene	1.211	1.101	.01	9.1	20	143	0
Anthracene	1.202	1.162	.01	3.3	20	147	0
Fluoranthene	1.379	1.365	.01	1	20	152	0
Pyrene	1.427	1.399	.01	2	20	149	0
4-Terphenyl-d14	0.929	0.861	.01	7.3	20	146	0
Chrysene-d12	1	1	.01	0	20	161	0
Benzo[a]anthracene	0.423	0.375	.01	11.3	20	148	0
3,3'-Dichlorobenzidine	0.534	0.578	.01	-8.2	20	161	0
Chrysene	1.38	1.251	.01	9.3	20	146	0
Bis(2-ethylhexyl)phthalate	1000	1066.555	.01	-6.7	20	185	0
Perylene-d12	1	1	.01	0	20	165	0
Benzo[b]fluoranthene	1.316	1.251	.01	4.9	20	154	0
Benzo[k]fluoranthene	1.252	1.26	.01	-0.6	20	154	0
Benzo[a]pyrene	1.095	1.159	.01	-5.8	20	159	0
Indeno[1,2,3-cd]pyrene	0.971	1.035	.01	-6.6	20	161	0
Dibenzo[a,h]anthracene	0.937	0.996	.01	-6.3	20	155	0
Benzo[g,h,i]perylene	1.026	1.007	.01	1.9	20	150	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\SV118\250313aRVT\
Data File : ccv0313a.D
Acq On : 13 Mar 2025 08:33 am
Operator : SV118:rp
Sample : WG2040034-3,32,,ICV 11275 (0309)
Misc : WG2040034,,ical21963
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 13 08:47:31 2025
Quant Method : I:\8270SIM\SV118\250313aRVT\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 08:48:27 2025
Response via : Initial Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	139	0.00
2	T	N-Nitrosodimethylamine	0.000	0.771	0.0	0#	0.00
3	s	2-Fluorophenol	1.223	1.072	12.3	121	0.00
4	s	Phenol-d6	1.466	1.355	7.6	127	0.00
5	T	Bis(2-chloroethyl)ether	1.301	1.229	5.5	135	0.00
6	T	n-nitrosodi-n-propylamine	0.835	0.909	-8.9	143	0.00
7	t	Hexachloroethane	0.544	0.533	2.0	136	0.00
8	s	Nitrobenzene-d5	1.197	1.265	-5.7	140	0.00
9	i	Naphthalene-d8	1.000	1.000	0.0	140	0.00
10	t	Naphthalene	1.137	1.047	7.9	133	0.00
11	t	Hexachlorobutadiene	0.204	0.197	3.4	135	0.00
12	t	2-Methylnaphthalene	0.707	0.677	4.2	135	0.00
13	t	1-Methylnaphthalene	0.719	0.693	3.6	136	0.00
14	s	2-Fluorobiphenyl	0.876	0.858	2.1	143	0.00
15	t	2-Chloronaphthalene	0.765	0.755	1.3	138	0.00
16	t	2,6-Dinitrotoluene	0.170	0.191	-12.4	145	0.00
17	t	Acenaphthylene	1.170	1.257	-7.4	142	0.00
18	i	Acenaphthene-d10	1.000	1.000	0.0	148	0.00
19	t	Acenaphthene	1.424	1.301	8.6	138	0.00
20	t	2,4-Dinitrotoluene	0.411	0.447	-8.8	146	0.00
21	t	Fluorene	1.566	1.515	3.3	143	0.00
22	s	2,4,6-Tribromophenol	0.185	0.213	-15.1	148	0.00
23	i	Phenanthrene-d10	1.000	1.000	0.0	155	0.00
24	T	4,6-Dinitro-o-cresol	*1000.000	799.402	20.1#	133	0.00
25	t	Hexachlorobenzene	0.265	0.263	0.8	156	0.00
26	t	Pentachlorophenol	*1000.000	758.034	24.2#	111	0.00
27	t	Phenanthrene	1.211	1.101	9.1	143	0.00
28	t	Anthracene	1.202	1.162	3.3	147	0.00
29	t	Fluoranthene	1.379	1.365	1.0	152	0.00
30	t	Pyrene	1.427	1.399	2.0	149	0.00
31	T	Benzidine	0.000	0.852	0.0	0#	0.00
32	s	4-Terphenyl-d14	0.929	0.861	7.3	146	0.00
33	i	Chrysene-d12	1.000	1.000	0.0	161	0.00
34	t	Benzo[a]anthracene	0.423	0.375	11.3	148	0.00
35	t	3,3'-Dichlorobenzidine	0.534	0.578	-8.2	161	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\SV118\250313aRVT\
Data File : ccv0313a.D
Acq On : 13 Mar 2025 08:33 am
Operator : SV118:rp
Sample : WG2040034-3,32,,ICV 11275 (0309)
Misc : WG2040034,,ical21963
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 13 08:47:31 2025
Quant Method : I:\8270SIM\SV118\250313aRVT\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 08:48:27 2025
Response via : Initial Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	t	Chrysene	1.380	1.251	9.3	146	0.00
37	T	Bis(2-ethylhexyl)phthalate	*1000.000	1066.555	-6.7	185	0.00
38	i	Perylene-d12	1.000	1.000	0.0	165	0.00
39	t	Benzo[b]fluoranthene	1.316	1.251	4.9	154	0.00
40	t	Benzo[k]fluoranthene	1.252	1.260	-0.6	154	0.00
41	t	Benzo[a]pyrene	1.095	1.159	-5.8	159	0.00
42	t	Indeno[1,2,3-cd]pyrene	0.971	1.035	-6.6	161	0.00
43	t	Dibenzo[a,h]anthracene	0.937	0.996	-6.3	155	0.00
44	t	Benzo[g,h,i]perylene	1.026	1.007	1.9	150	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250313aRVT\
Data File : ccv0313a.D
Acq On : 13 Mar 2025 08:33 am
Operator : SV118:rp
Sample : WG2040034-3,32,,ICV 11275 (0309)
Misc : WG2040034,,ical21963
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 13 08:47:31 2025
Quant Method : I:\8270SIM\SV118\250313aRVT\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 08:48:27 2025
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.262	152	659004	4000.000	ng/ml	0.00
9) Naphthalene-d8	2.923	136	2453700	4000.000	ng/ml	0.00
18) Acenaphthene-d10	3.897	164	1463630	4000.000	ng/ml	0.00
23) Phenanthrene-d10	4.737	188	3051028	4000.000	ng/ml	0.00
33) Chrysene-d12	6.287	240	3008661	4000.000	ng/ml	0.00
38) Perylene-d12	7.523	264	3049927M4	4000.000	ng/ml	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	1.673	112	176566	876.195	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 43.81%			
4) Phenol-d6	2.076	99	223262	924.654	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 46.23%			
8) Nitrobenzene-d5	2.541	82	208467	1057.311	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 105.73%			
14) 2-Fluorobiphenyl	3.517	172	526312	979.560	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 97.96%			
22) 2,4,6-Tribromophenol	4.341	330	78026	1152.434	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 57.62%			
32) 4-Terphenyl-d14	5.647	244	656489	926.239	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 92.62%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	1.219	74	126992	No Calib #		
5) Bis(2-chloroethyl)ether	2.127	93	202526	944.659	ng/ml	96
6) n-nitrosodi-n-propylamine	2.462	70	149728	1089.014	ng/ml	98
7) Hexachloroethane	2.520	117	87835	979.447	ng/ml	99
10) Naphthalene	2.934	128	642343	921.287	ng/ml	100
11) Hexachlorobutadiene	3.005	225	120967	968.913	ng/ml	100
12) 2-Methylnaphthalene	3.309	142	415290	957.248	ng/ml	99
13) 1-Methylnaphthalene	3.367	142	425360	964.698	ng/ml	99
15) 2-Chloronaphthalene	3.582	162	462950	986.273	ng/ml	99
16) 2,6-Dinitrotoluene	3.775	165	117202	1120.664	ng/ml	97
17) Acenaphthylene	3.813	152	771233	1074.525	ng/ml	100
19) Acenaphthene	3.914	153	476133	913.817	ng/ml	99
20) 2,4-Dinitrotoluene	4.003	165	163517	1086.954	ng/ml	96
21) Fluorene	4.203	166	554422	967.808	ng/ml	100
24) 4,6-Dinitro-o-cresol	4.234	198	76619	799.402	ng/ml	95
25) Hexachlorobenzene	4.523	284	200872	994.069	ng/ml	99
26) Pentachlorophenol	4.632	266	76948	758.034	ng/ml	99
27) Phenanthrene	4.747	178	839792	909.117	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250313aRVT\
Data File : ccv0313a.D
Acq On : 13 Mar 2025 08:33 am
Operator : SV118:rp
Sample : WG2040034-3,32,,ICV 11275 (0309)
Misc : WG2040034,,ical21963
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 13 08:47:31 2025
Quant Method : I:\8270SIM\SV118\250313aRVT\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 08:48:27 2025
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Anthracene	4.776	178	886650	967.047	ng/ml	100
29) Fluoranthene	5.429	202	1041403	989.868	ng/ml	97
30) Pyrene	5.558	202	1067050	980.055	ng/ml	100
31) Benzidine	5.505	184	649829	No Calib	#	
34) Benzo[a]anthracene	6.276	226	281751	886.278	ng/ml#	98
35) 3,3'-Dichlorobenzidine	6.262	252	434988	1082.327	ng/ml	100
36) Chrysene	6.303	228	941241	906.773	ng/ml#	100
37) Bis(2-ethylhexyl)phtha...	6.298	149	762179	1066.555	ng/ml	100
39) Benzo[b]fluoranthene	7.134	252	954114	950.738	ng/ml	100
40) Benzo[k]fluoranthene	7.160	252	960464	1005.869	ng/ml	100
41) Benzo[a]pyrene	7.452	252	883815	1058.372	ng/ml	100
42) Indeno[1,2,3-cd]pyrene	8.768	276	789223	1066.182	ng/ml	95
43) Dibenzo[a,h]anthracene	8.804	278	759643M6	1062.988	ng/ml	
44) Benzo[g,h,i]perylene	9.121	276	767991	981.868	ng/ml	95

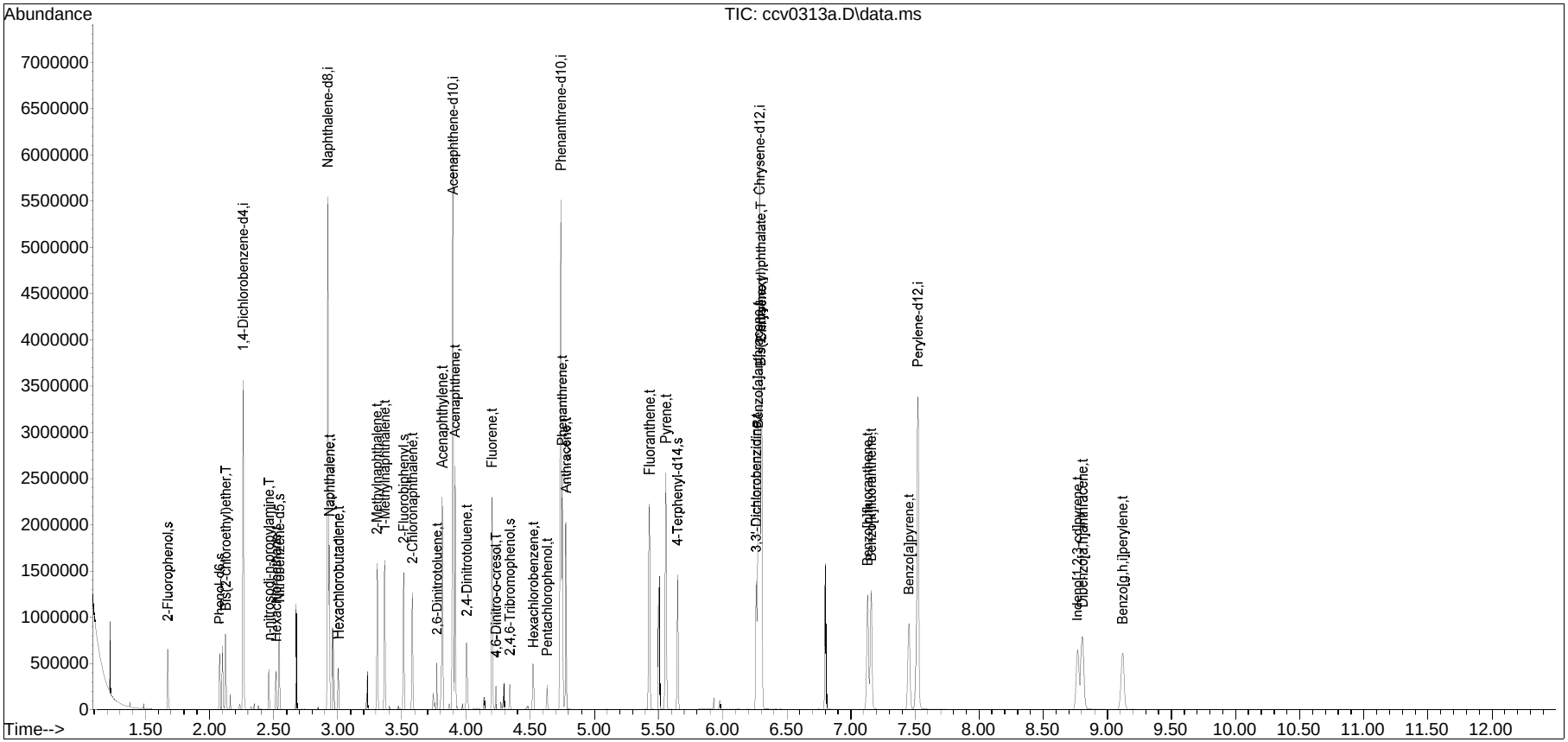
(#) = qualifier out of range (m) = manual integration (+) = signals summed

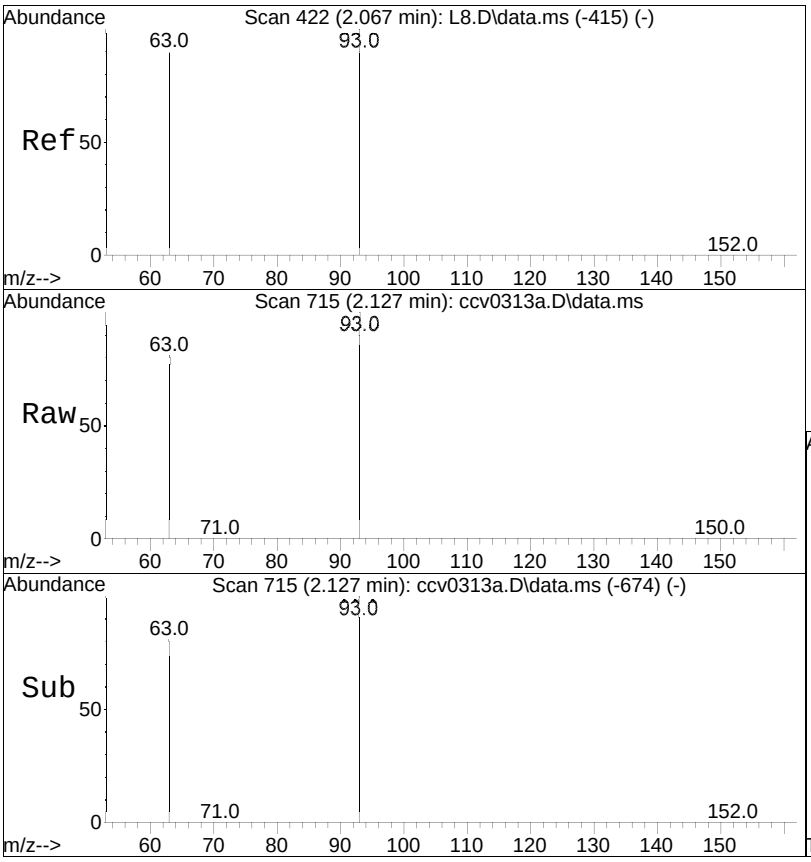
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV118\250313aRVT\
Data File : ccv0313a.D
Acq On : 13 Mar 2025 08:33 am
Operator : SV118:rp
Sample : WG2040034-3,32,,ICV 11275 (0309)
Misc : WG2040034,,ical21963
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 13 08:47:31 2025
Quant Method : I:\8270SIM\SV118\250313aRVT\SIM-RVT_250203sv118.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Mar 13 08:48:27 2025
Response via : Initial Calibration

Sub List : Default - All compounds listed

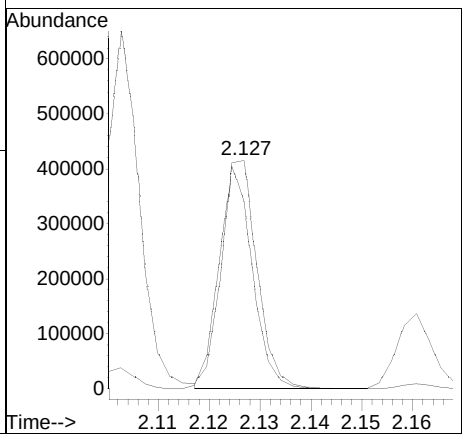


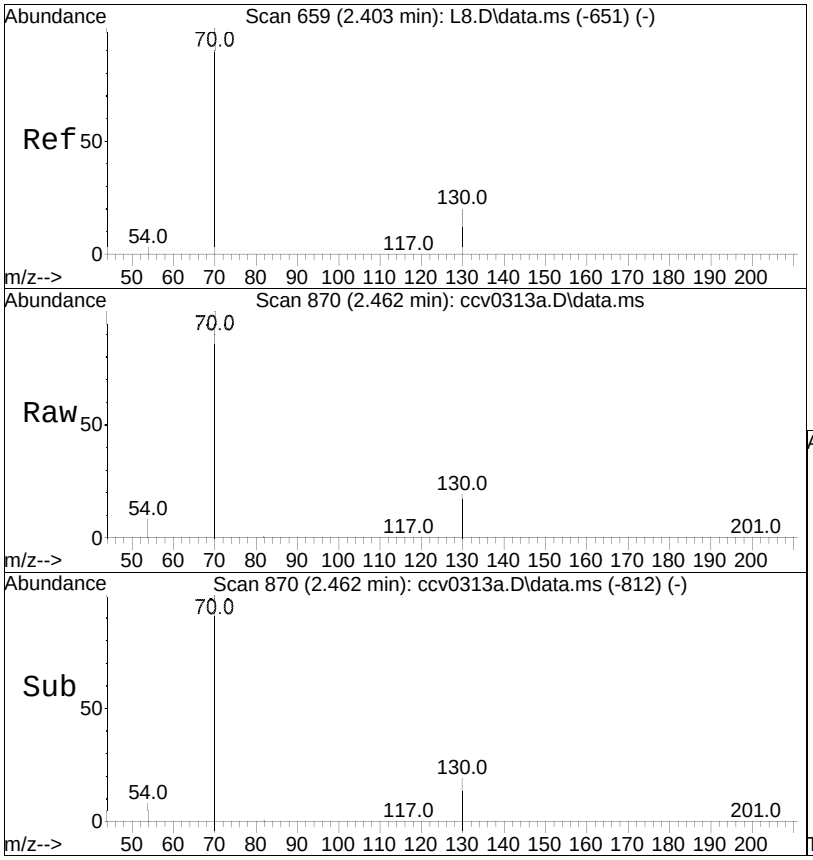


#5
Bis(2-chloroethyl)ether
Concen: 944.66 ng/ml
RT: 2.127 min Scan# 715
Delta R.T. 0.000 min
Lab File: ccv0313a.D
Acq: 13 Mar 2025 08:33 am

Tgt Ion: 93 Resp: 202526

Ion	Ratio	Lower	Upper
93	100		
63	91.1	70.2	105.4

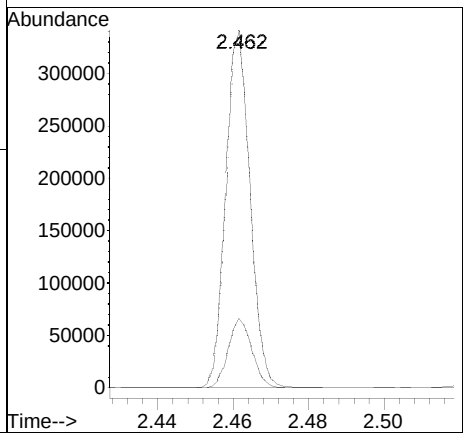


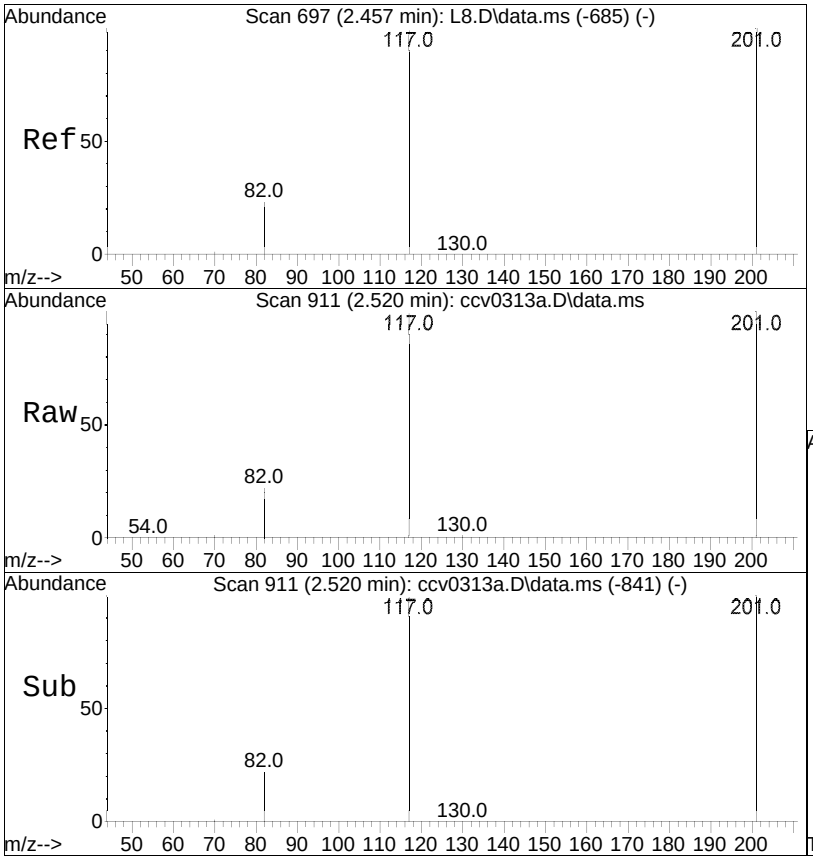


#6
n-nitrosodi-n-propylamine
Concen: 1089.01 ng/ml
RT: 2.462 min Scan# 870
Delta R.T. 0.000 min
Lab File: ccv0313a.D
Acq: 13 Mar 2025 08:33 am

Tgt Ion: 70 Resp: 149728

Ion	Ratio	Lower	Upper
70	100		
130	19.2	16.2	24.4

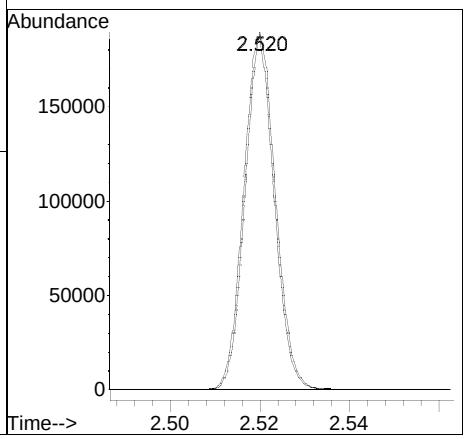


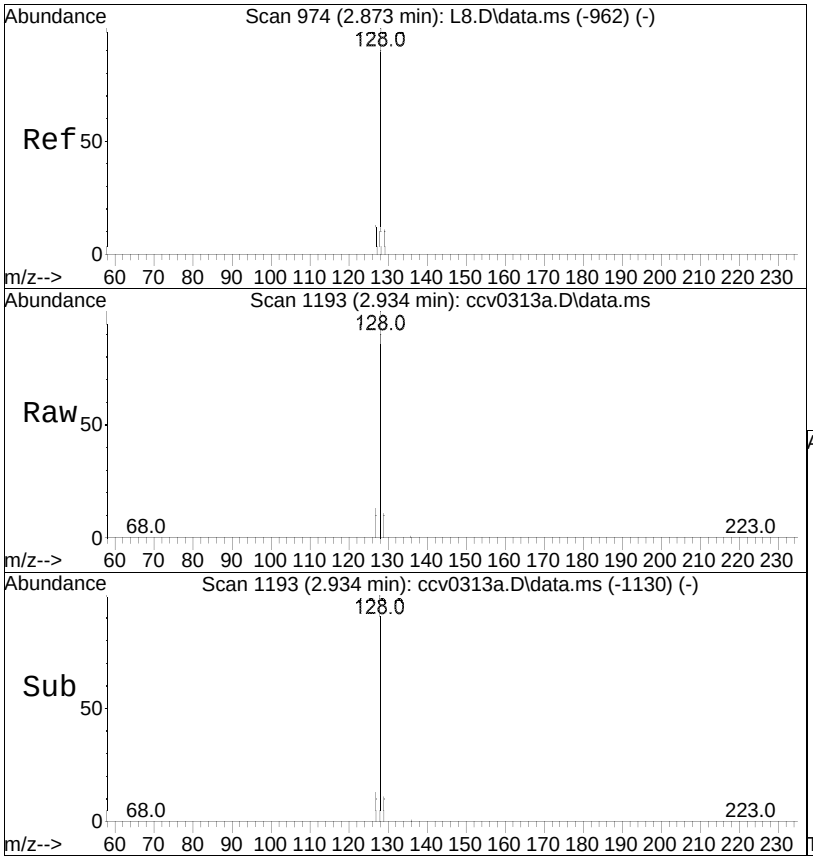


#7
Hexachloroethane
Concen: 979.45 ng/ml
RT: 2.520 min Scan# 911
Delta R.T. 0.000 min
Lab File: ccv0313a.D
Acq: 13 Mar 2025 08:33 am

Tgt Ion:117 Resp: 87835

Ion	Ratio	Lower	Upper
117	100		
201	99.9	80.5	120.7

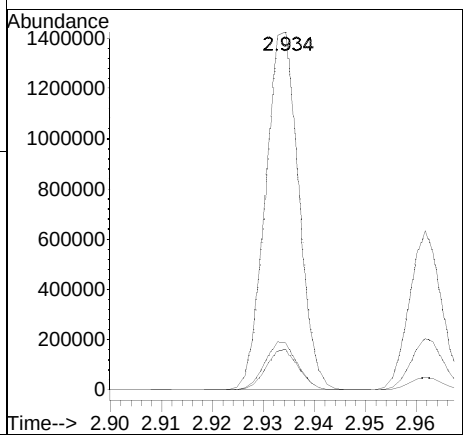


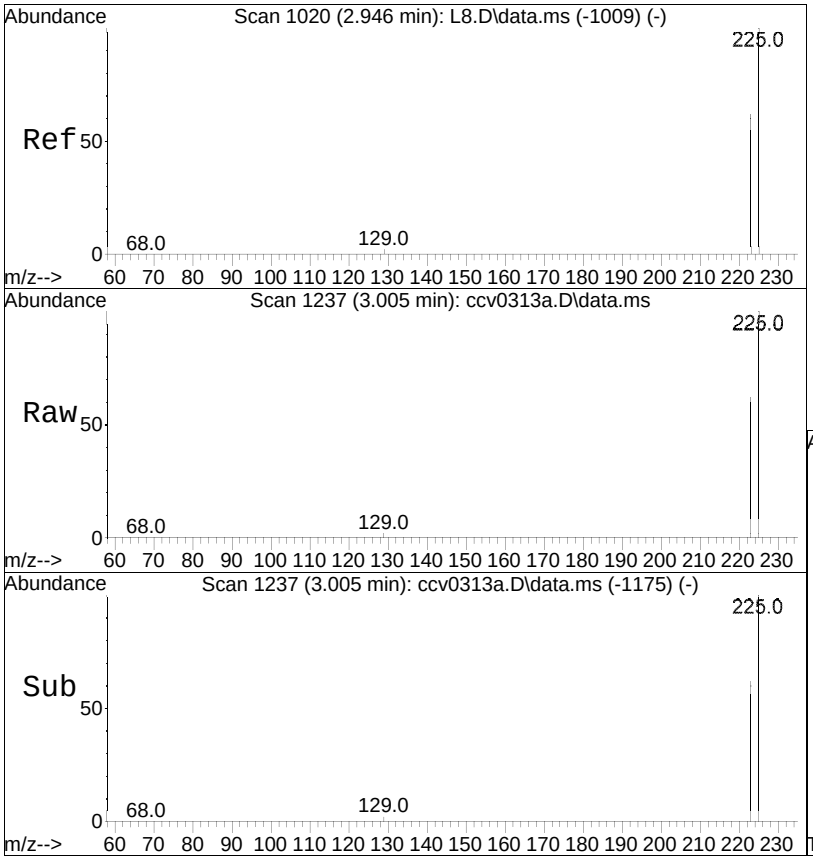


#10
Naphthalene
Concen: 921.29 ng/ml
RT: 2.934 min Scan# 1193
Delta R.T. 0.000 min
Lab File: ccv0313a.D
Acq: 13 Mar 2025 08:33 am

Tgt Ion:128 Resp: 642343

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.9	13.3
127	13.2	10.6	15.8

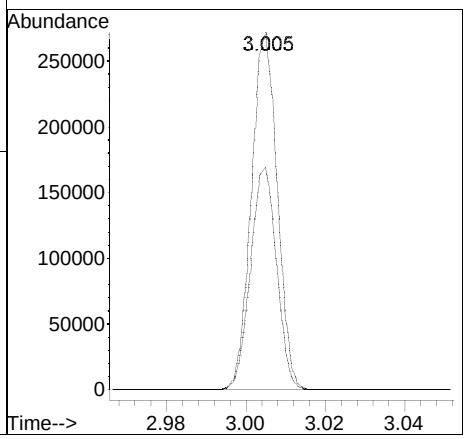


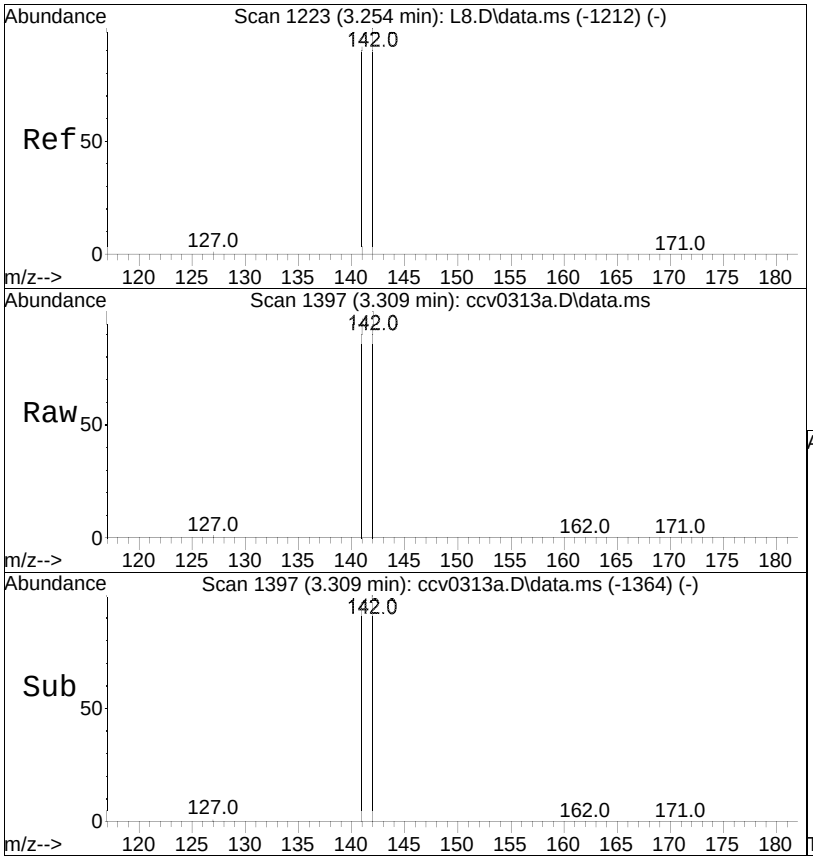


#11
Hexachlorobutadiene
Concen: 968.91 ng/ml
RT: 3.005 min Scan# 1237
Delta R.T. 0.000 min
Lab File: ccv0313a.D
Acq: 13 Mar 2025 08:33 am

Tgt Ion:225 Resp: 120967

Ion	Ratio	Lower	Upper
225	100		
223	62.7	50.2	75.2

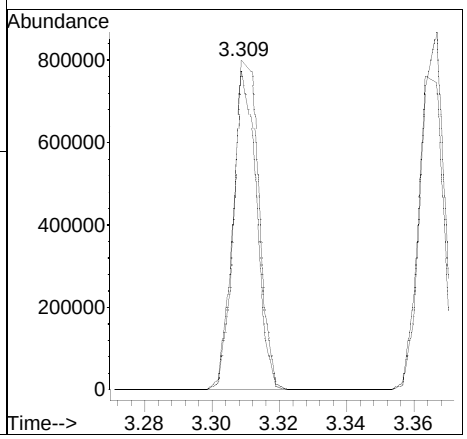


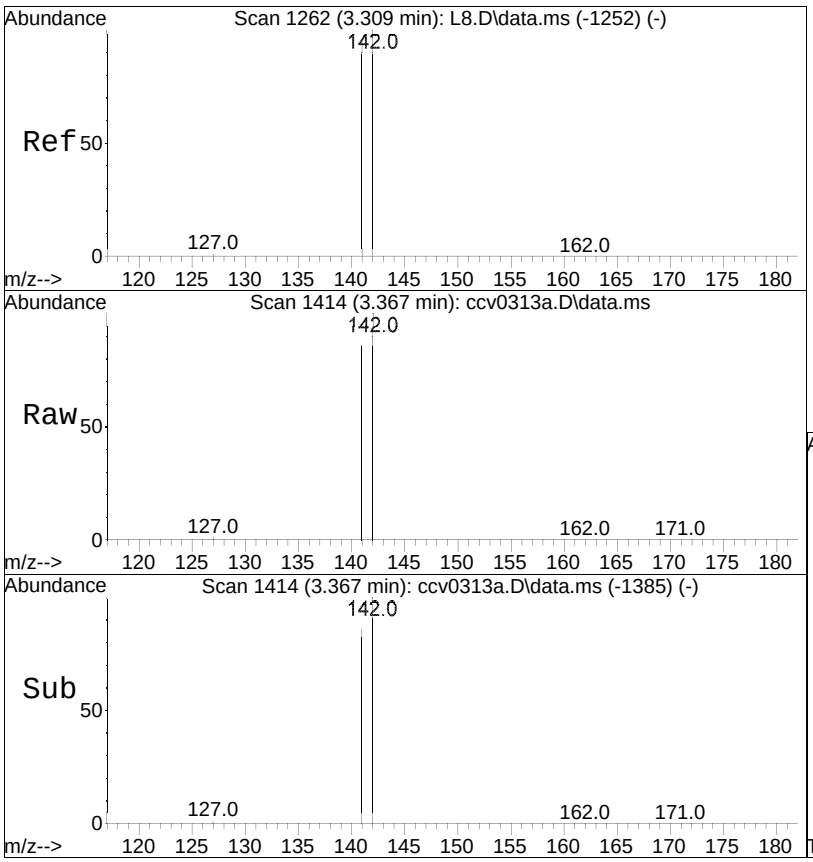


#12
2-Methylnaphthalene
Concen: 957.25 ng/ml
RT: 3.309 min Scan# 1397
Delta R.T. 0.000 min
Lab File: ccv0313a.D
Acq: 13 Mar 2025 08:33 am

Tgt Ion:142 Resp: 415290

Ion	Ratio	Lower	Upper
142	100		
141	90.9	73.4	110.2

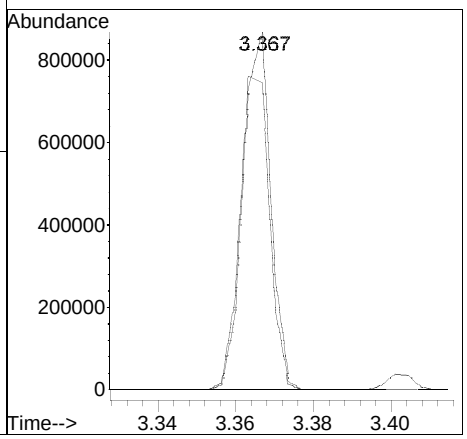


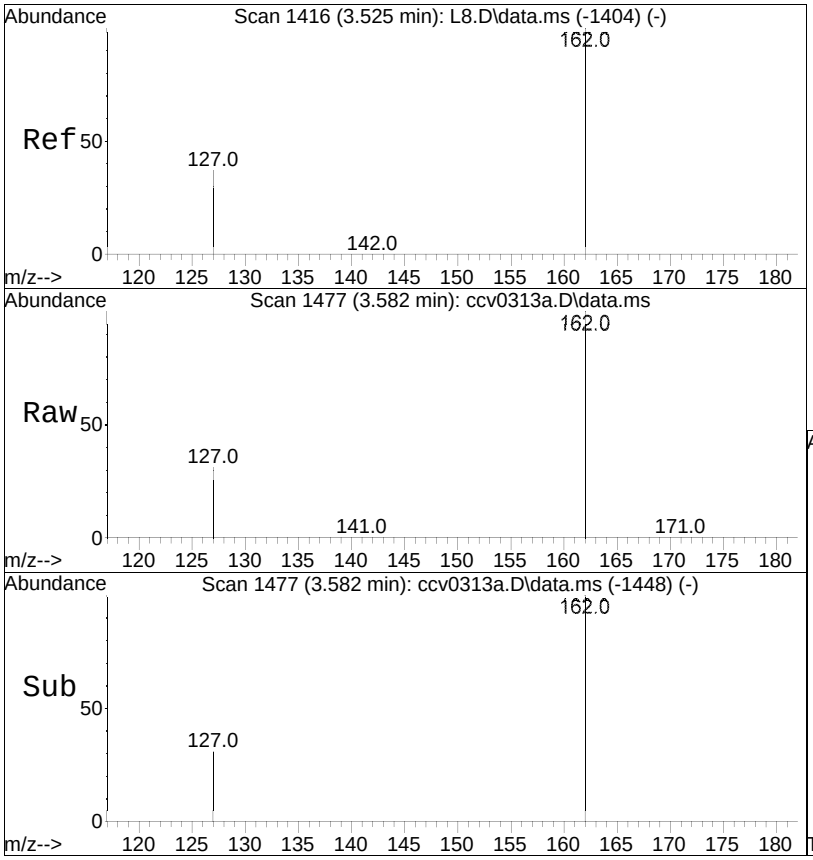


#13
1-Methylnaphthalene
Concen: 964.70 ng/ml
RT: 3.367 min Scan# 1414
Delta R.T. 0.000 min
Lab File: ccv0313a.D
Acq: 13 Mar 2025 08:33 am

Tgt Ion:142 Resp: 425360

Ion	Ratio	Lower	Upper
142	100		
141	94.0	76.0	114.0

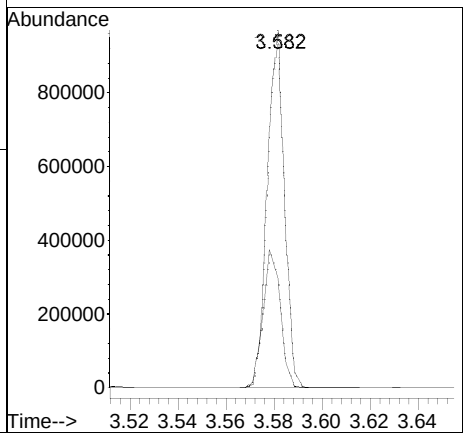


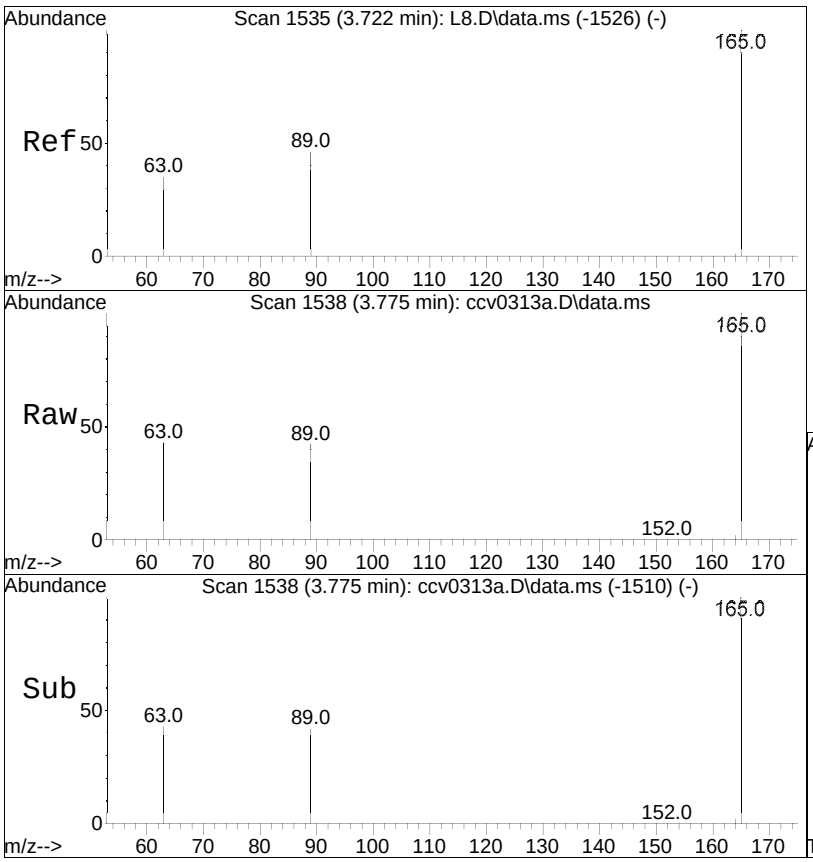


#15
2-Chloronaphthalene
Concen: 986.27 ng/ml
RT: 3.582 min Scan# 1477
Delta R.T. 0.000 min
Lab File: ccv0313a.D
Acq: 13 Mar 2025 08:33 am

Tgt Ion:162 Resp: 462950

Ion	Ratio	Lower	Upper
162	100		
127	39.4	31.0	46.6

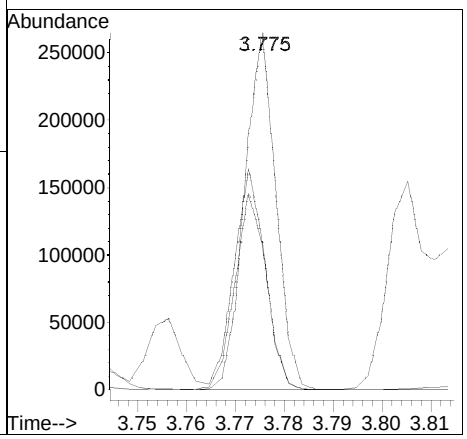


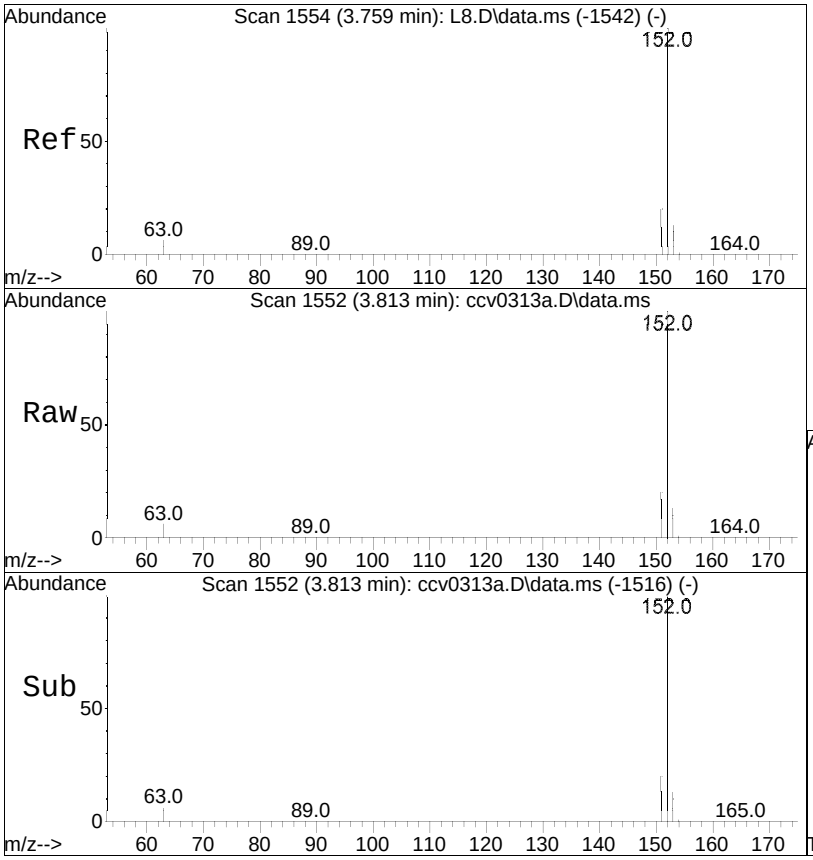


#16
2,6-Dinitrotoluene
Concen: 1120.66 ng/ml
RT: 3.775 min Scan# 1538
Delta R.T. 0.000 min
Lab File: ccv0313a.D
Acq: 13 Mar 2025 08:33 am

Tgt Ion:165 Resp: 117202

Ion	Ratio	Lower	Upper
165	100		
89	55.7	43.2	64.8
63	61.3	46.4	69.6

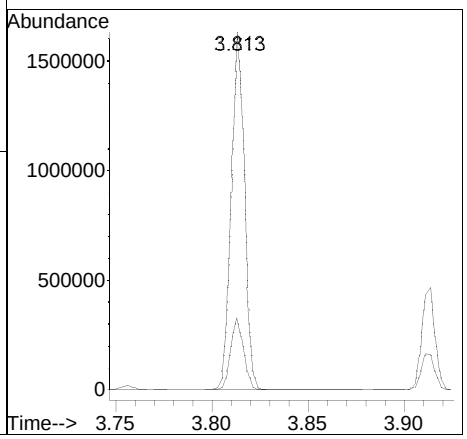


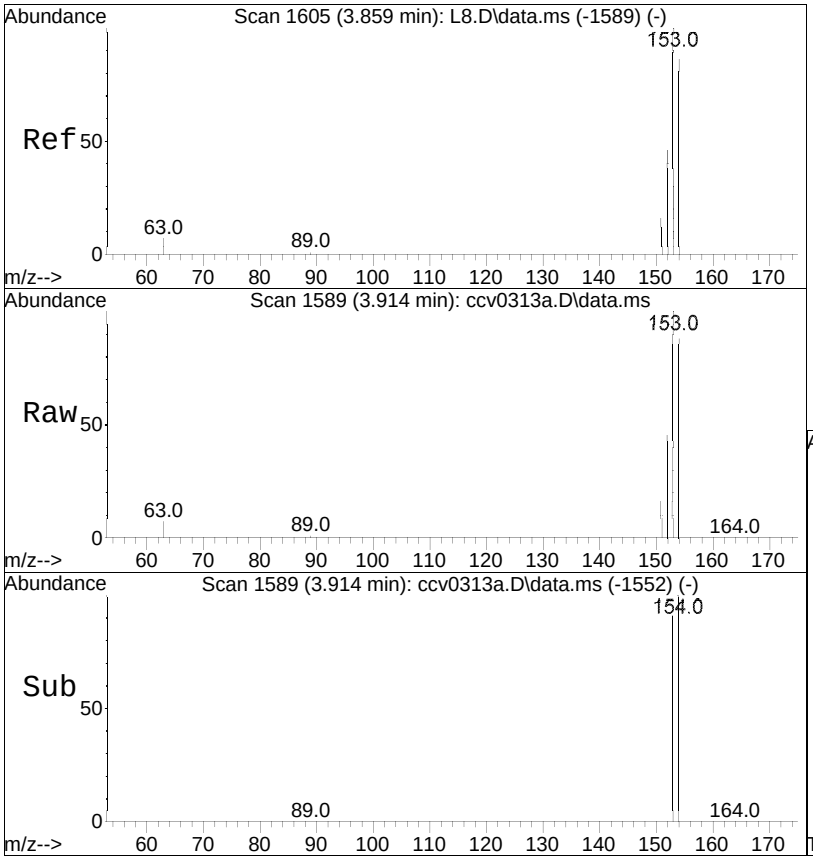


#17
Acenaphthylene
Concen: 1074.53 ng/ml
RT: 3.813 min Scan# 1552
Delta R.T. 0.000 min
Lab File: ccv0313a.D
Acq: 13 Mar 2025 08:33 am

Tgt Ion:152 Resp: 771233

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.0	24.0

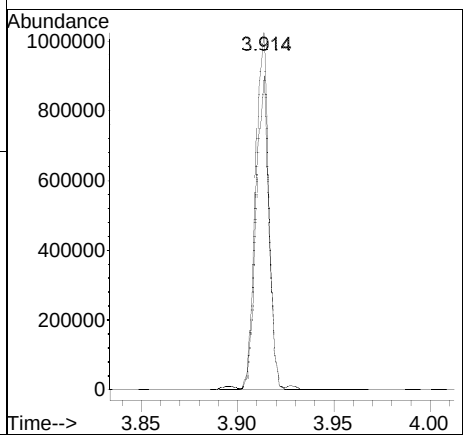


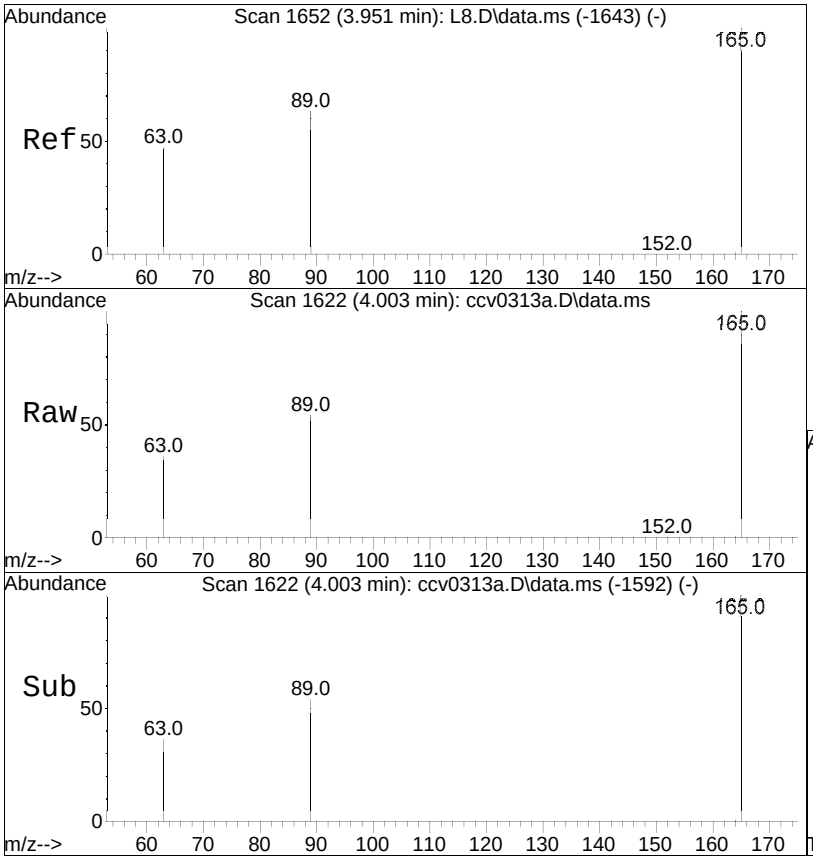


#19
Acenaphthene
Concen: 913.82 ng/ml
RT: 3.914 min Scan# 1589
Delta R.T. 0.000 min
Lab File: ccv0313a.D
Acq: 13 Mar 2025 08:33 am

Tgt Ion:153 Resp: 476133

Ion	Ratio	Lower	Upper
153	100		
154	84.3	67.9	101.9

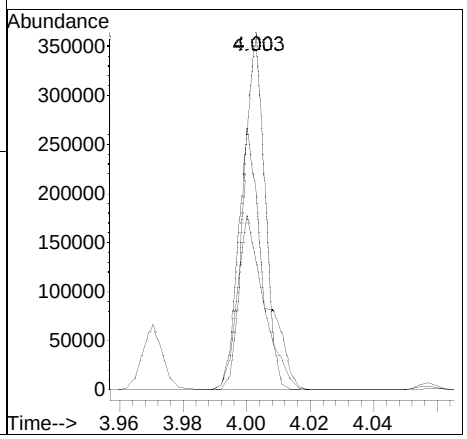


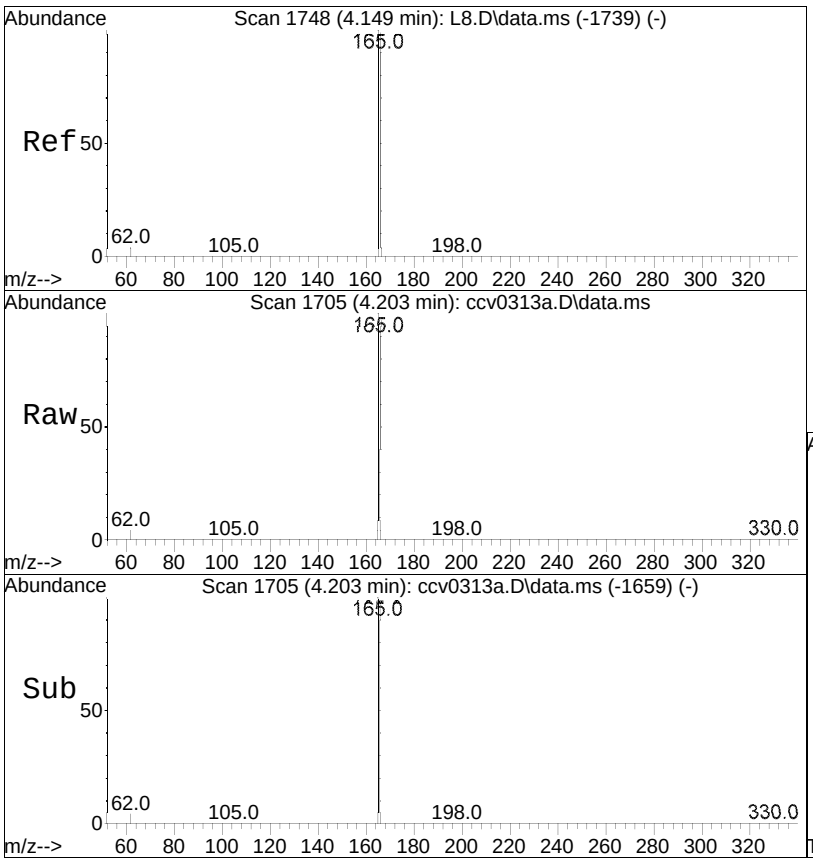


#20
2,4-Dinitrotoluene
Concen: 1086.95 ng/ml
RT: 4.003 min Scan# 1622
Delta R.T. 0.000 min
Lab File: ccv0313a.D
Acq: 13 Mar 2025 08:33 am

Tgt Ion:165 Resp: 163517

Ion	Ratio	Lower	Upper
165	100		
89	83.1	63.9	95.9
63	69.3	53.0	79.6

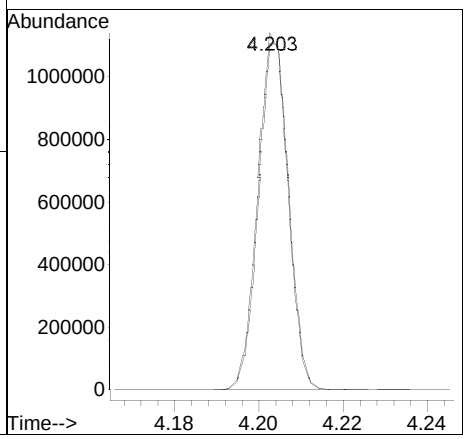


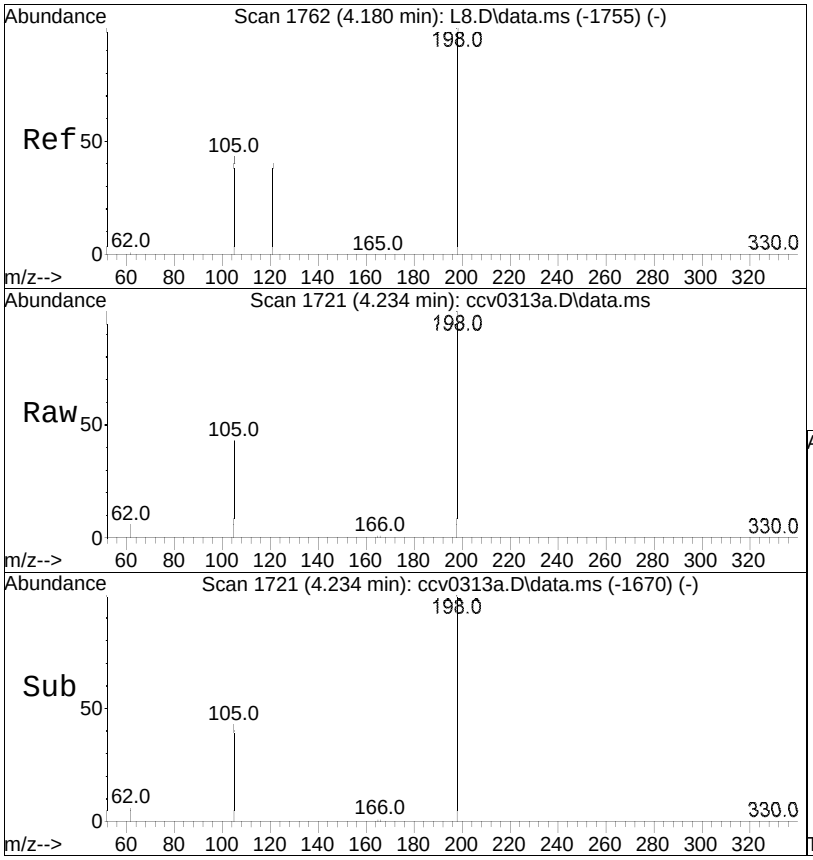


#21
Fluorene
Concen: 967.81 ng/ml
RT: 4.203 min Scan# 1705
Delta R.T. 0.000 min
Lab File: ccv0313a.D
Acq: 13 Mar 2025 08:33 am

Tgt Ion:166 Resp: 554422

Ion	Ratio	Lower	Upper
166	100		
165	101.5	81.3	121.9

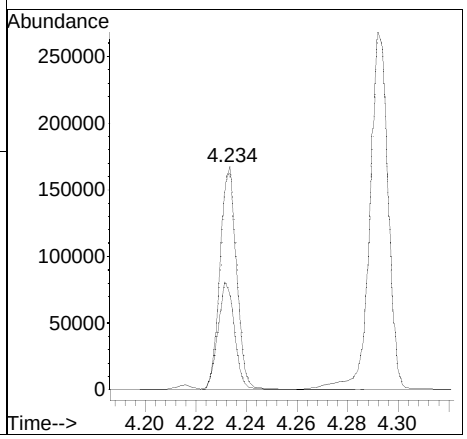


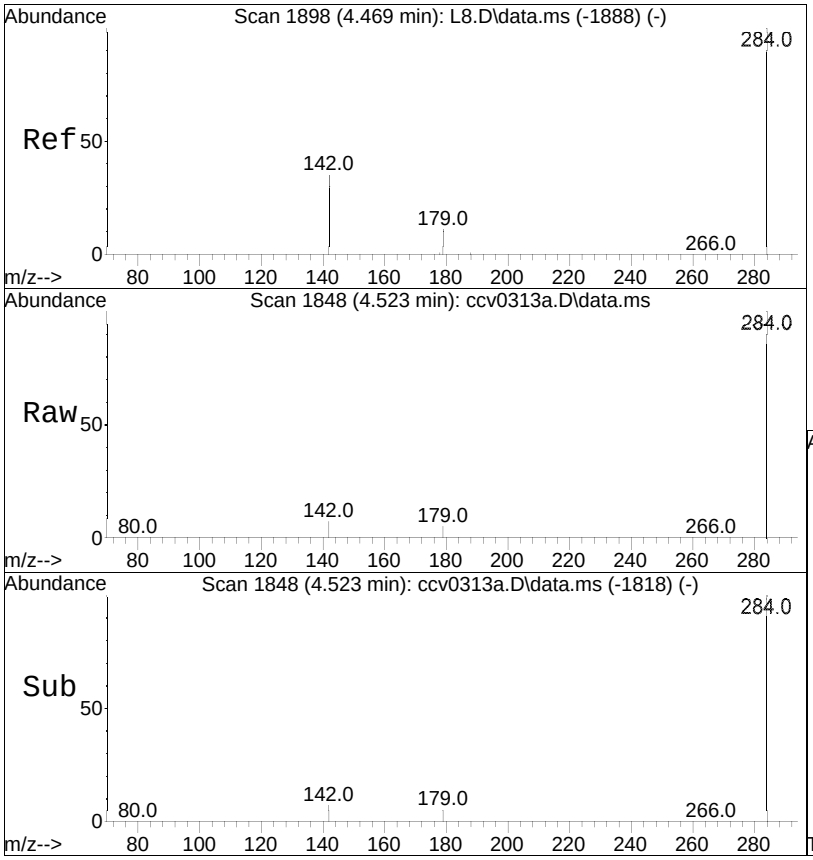


#24
4,6-Dinitro-o-cresol
Concen: 799.40 ng/ml
RT: 4.234 min Scan# 1721
Delta R.T. 0.000 min
Lab File: ccv0313a.D
Acq: 13 Mar 2025 08:33 am

Tgt Ion:198 Resp: 76619

Ion	Ratio	Lower	Upper
198	100		
105	47.9	35.5	53.3

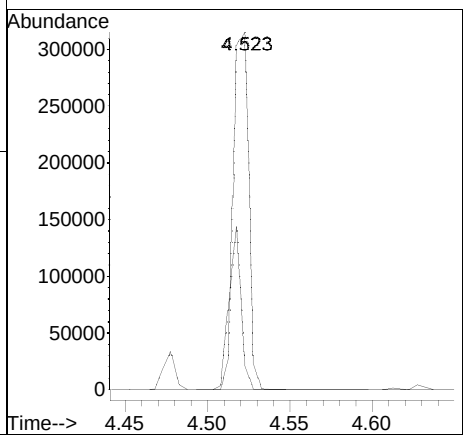


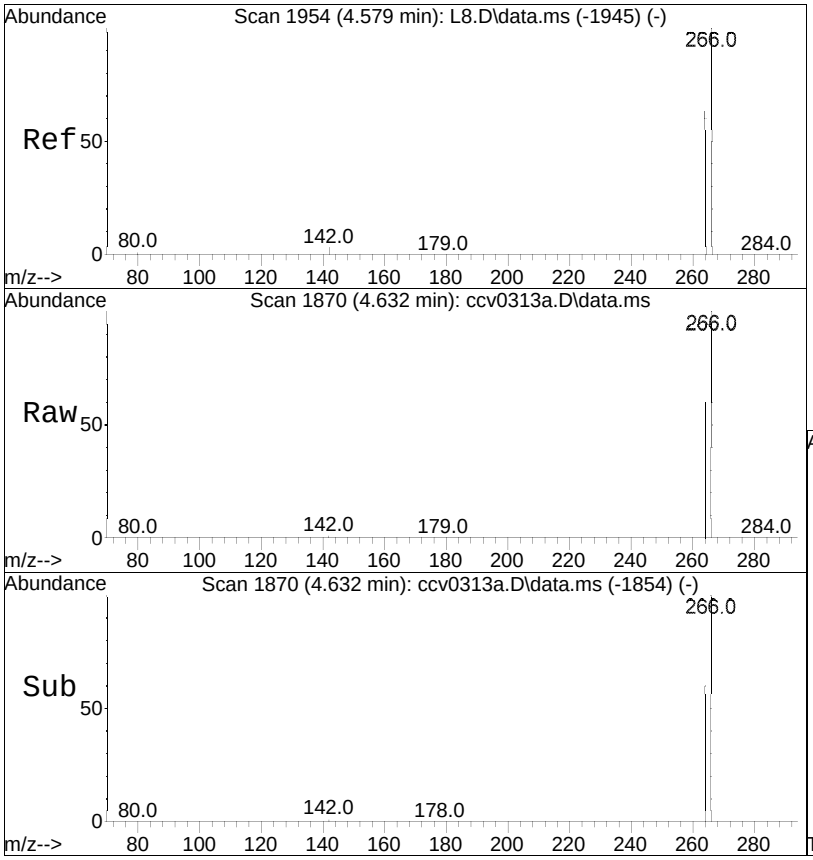


#25
Hexachlorobenzene
Concen: 994.07 ng/ml
RT: 4.523 min Scan# 1848
Delta R.T. 0.000 min
Lab File: ccv0313a.D
Acq: 13 Mar 2025 08:33 am

Tgt Ion:284 Resp: 200872

Ion	Ratio	Lower	Upper
284	100		
142	35.9	29.0	43.4

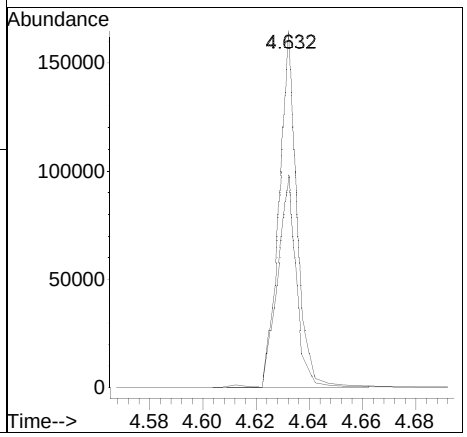


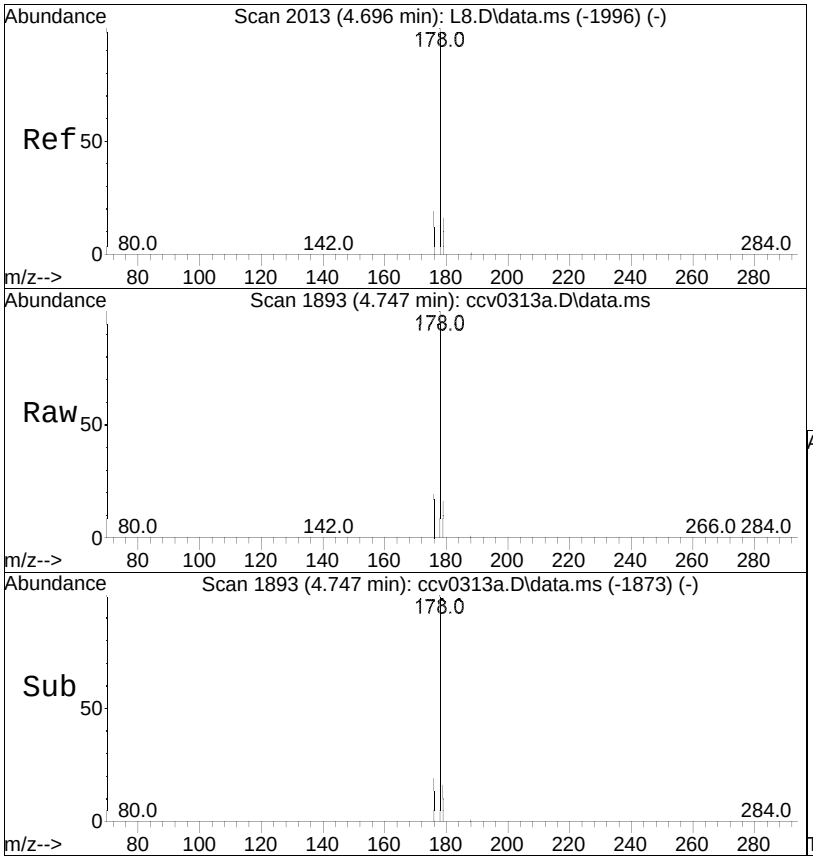


#26
Pentachlorophenol
Concen: 758.03 ng/ml
RT: 4.632 min Scan# 1870
Delta R.T. 0.000 min
Lab File: ccv0313a.D
Acq: 13 Mar 2025 08:33 am

Tgt Ion:266 Resp: 76948

Ion	Ratio	Lower	Upper
266	100		
264	62.5	50.3	75.5

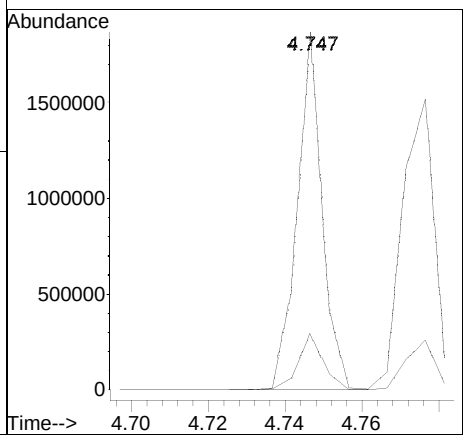


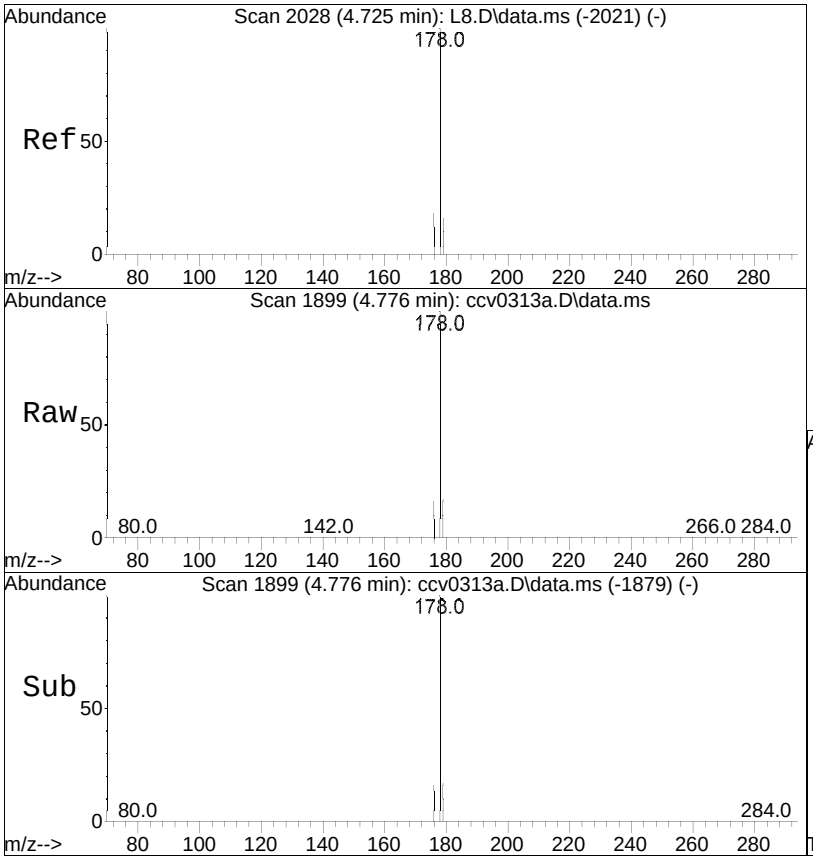


#27
Phenanthrene
Concen: 909.12 ng/ml
RT: 4.747 min Scan# 1893
Delta R.T. 0.000 min
Lab File: ccv0313a.D
Acq: 13 Mar 2025 08:33 am

Tgt Ion:178 Resp: 839792

Ion	Ratio	Lower	Upper
178	100		
179	15.9	12.6	18.8

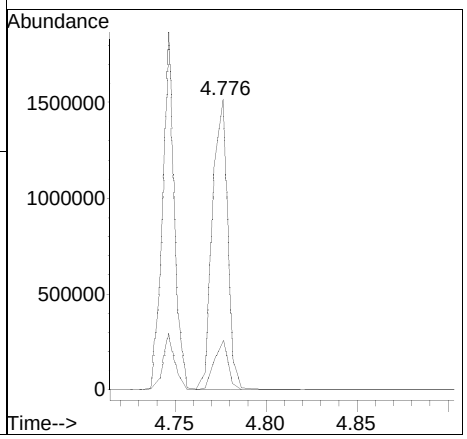


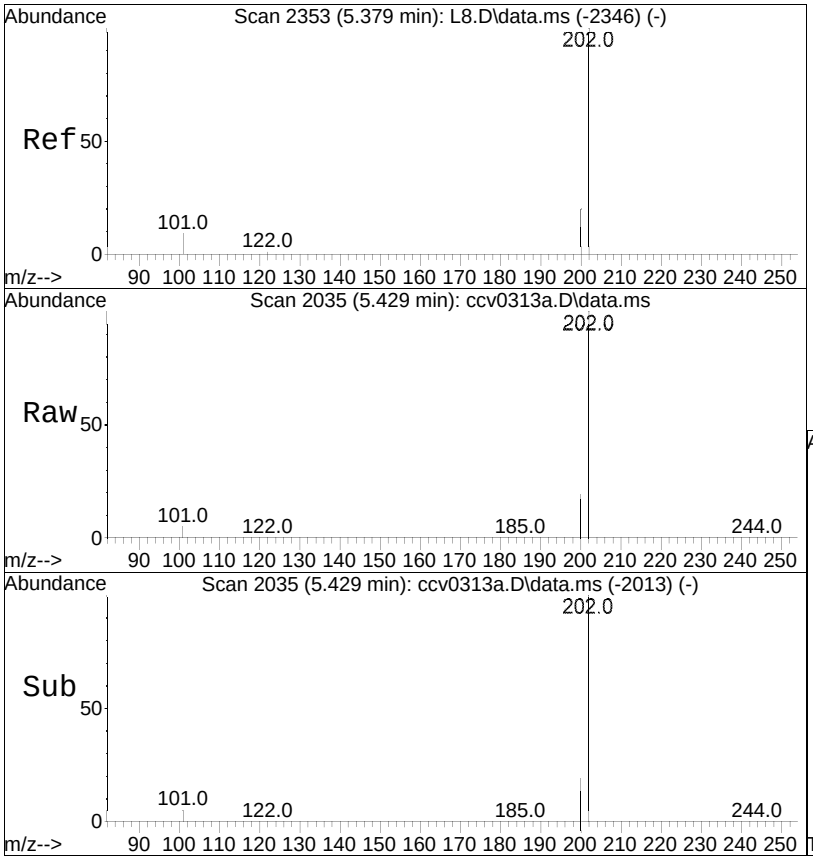


#28
Anthracene
Concen: 967.05 ng/ml
RT: 4.776 min Scan# 1899
Delta R.T. 0.000 min
Lab File: ccv0313a.D
Acq: 13 Mar 2025 08:33 am

Tgt Ion:178 Resp: 886650

Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.4	18.6

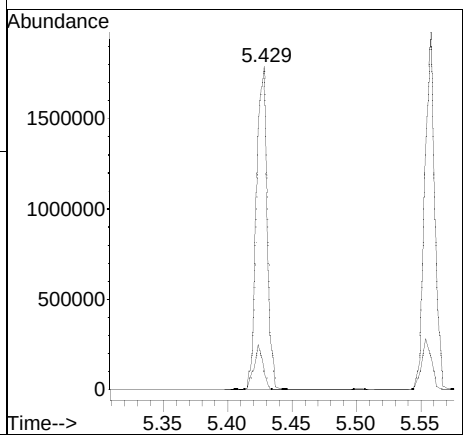


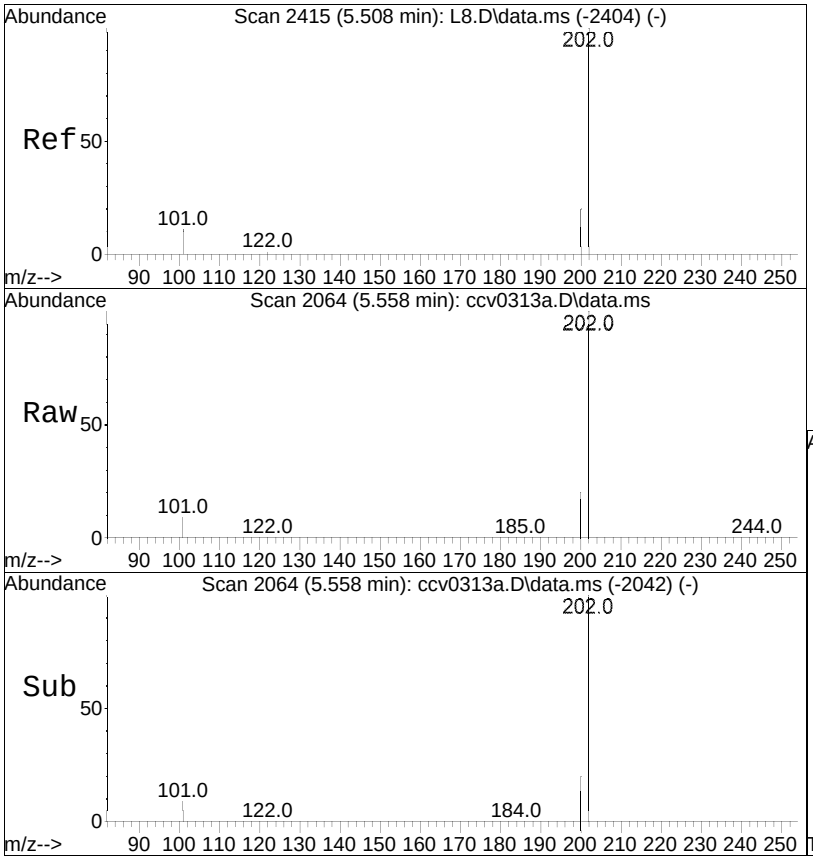


#29
Fluoranthene
Concen: 989.87 ng/ml
RT: 5.429 min Scan# 2035
Delta R.T. 0.000 min
Lab File: ccv0313a.D
Acq: 13 Mar 2025 08:33 am

Tgt Ion:202 Resp: 1041403

Ion	Ratio	Lower	Upper
202	100		
101	12.0	8.8	13.2

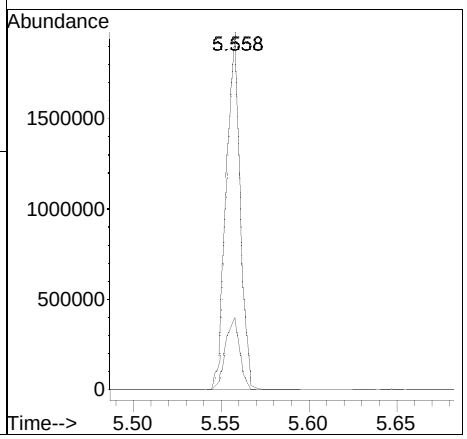


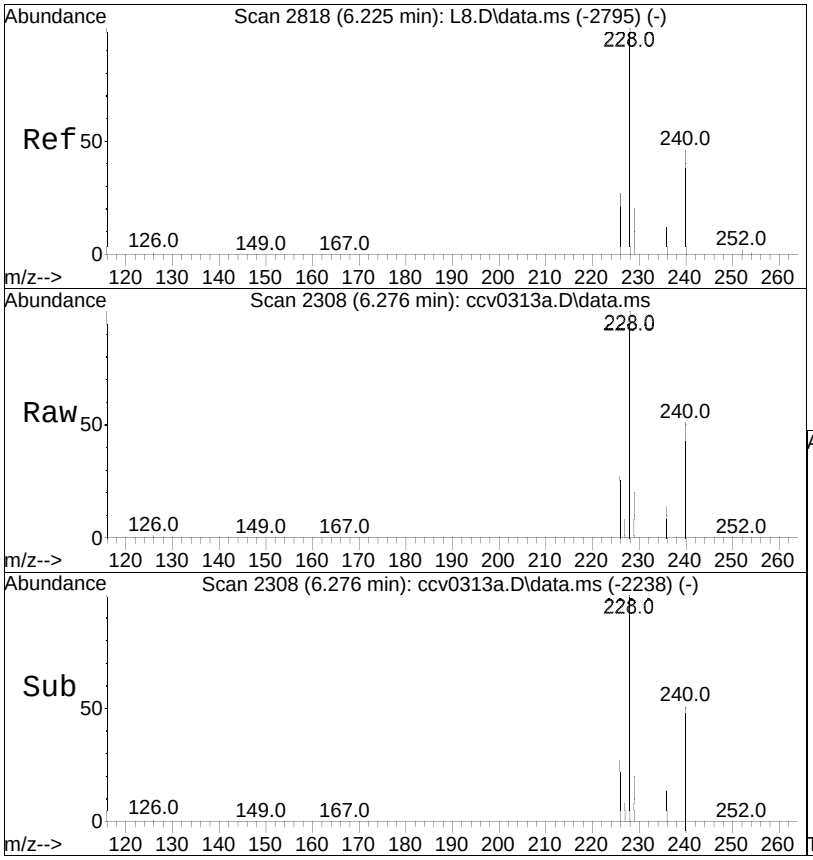


#30
Pyrene
Concen: 980.05 ng/ml
RT: 5.558 min Scan# 2064
Delta R.T. 0.000 min
Lab File: ccv0313a.D
Acq: 13 Mar 2025 08:33 am

Tgt Ion:202 Resp: 1067050

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.9	25.3

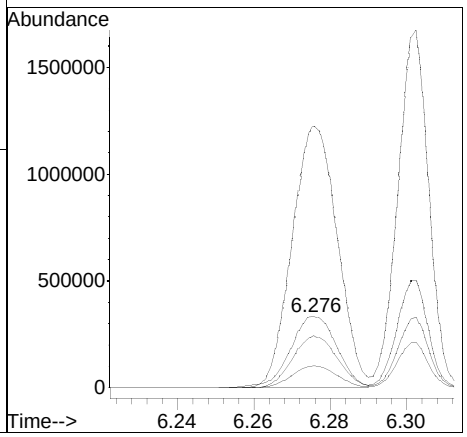


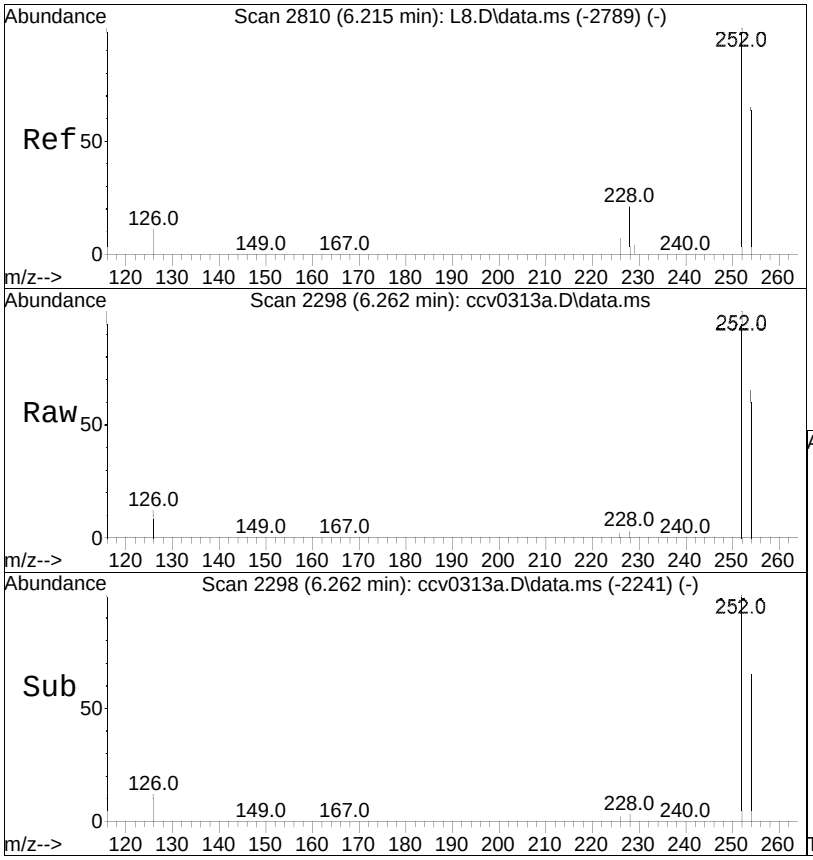


#34
Benzo[a]anthracene
Concen: 886.28 ng/ml
RT: 6.276 min Scan# 2308
Delta R.T. 0.000 min
Lab File: ccv0313a.D
Acq: 13 Mar 2025 08:33 am

Tgt Ion:226 Resp: 281751

Ion	Ratio	Lower	Upper
226	100		
227	30.0	0.0	0.0#
228	356.0	288.7	433.1
229	69.9	56.8	85.2

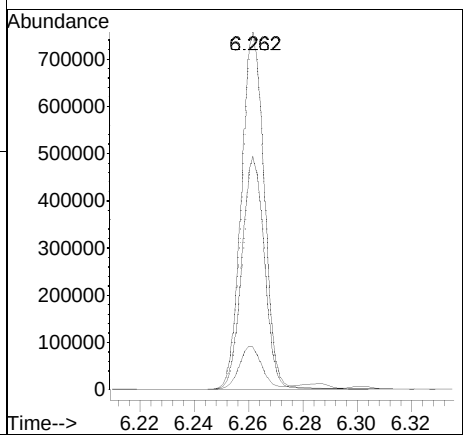


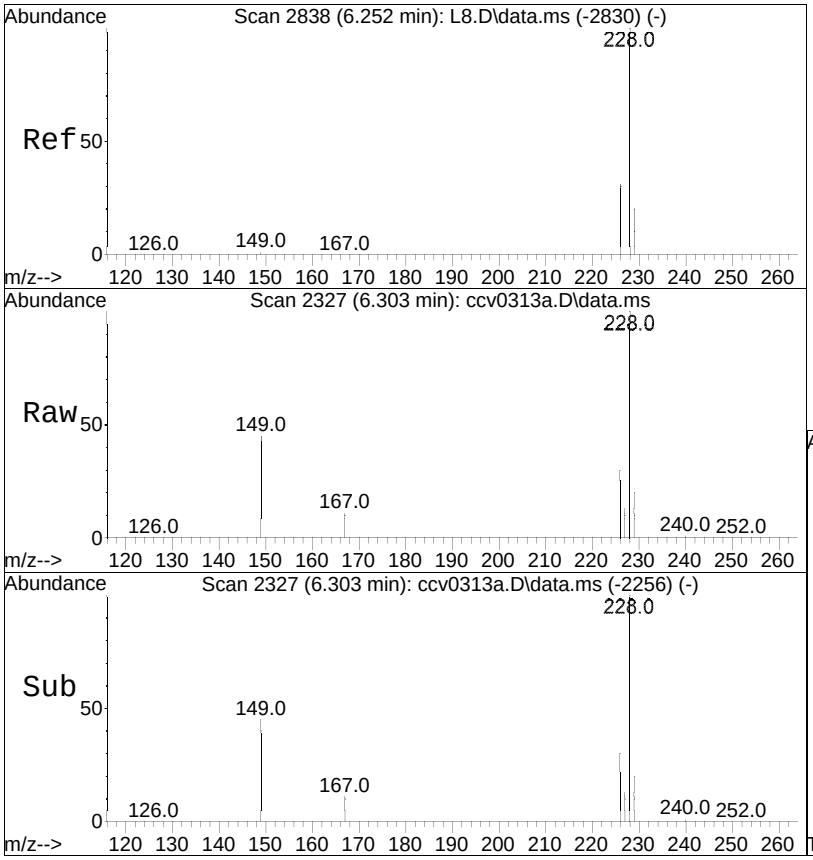


#35
3,3'-Dichlorobenzidine
Concen: 1082.33 ng/ml
RT: 6.262 min Scan# 2298
Delta R.T. 0.000 min
Lab File: ccv0313a.D
Acq: 13 Mar 2025 08:33 am

Tgt Ion:252 Resp: 434988

Ion	Ratio	Lower	Upper
252	100		
126	12.3	9.5	14.3
254	64.7	51.5	77.3

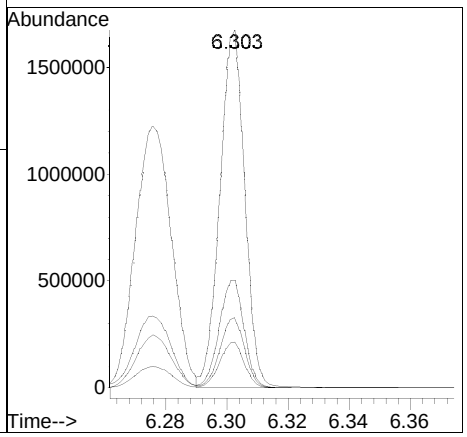


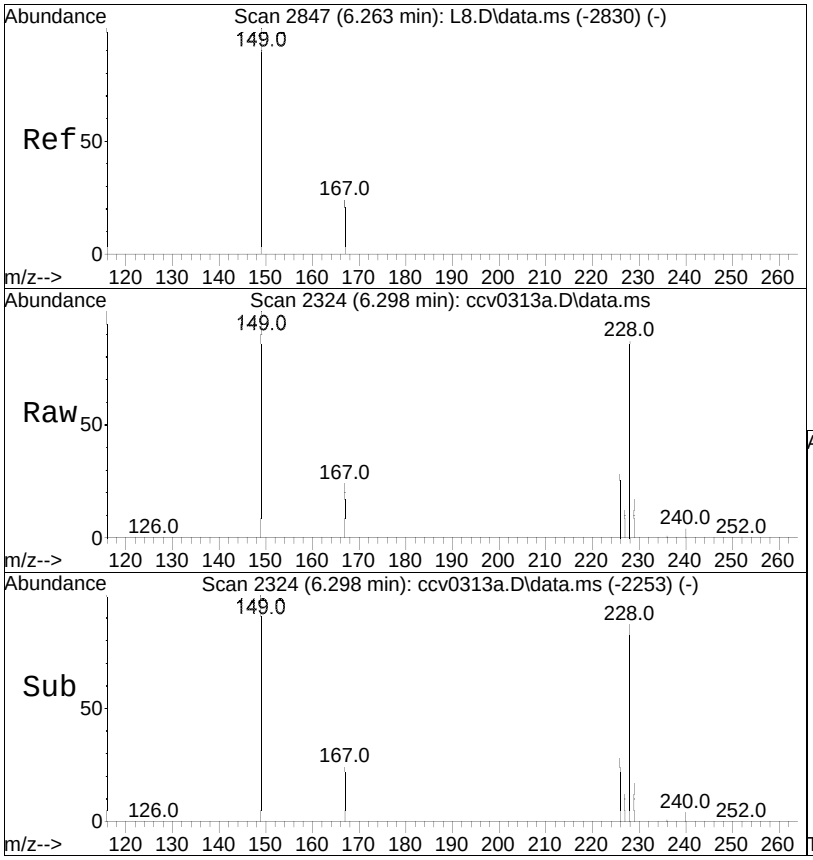


#36
Chrysene
Concen: 906.77 ng/ml
RT: 6.303 min Scan# 2327
Delta R.T. 0.000 min
Lab File: ccv0313a.D
Acq: 13 Mar 2025 08:33 am

Tgt Ion:228 Resp: 941241

Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.4	36.6
227	12.7	0.0	0.0#
229	19.6	15.6	23.4

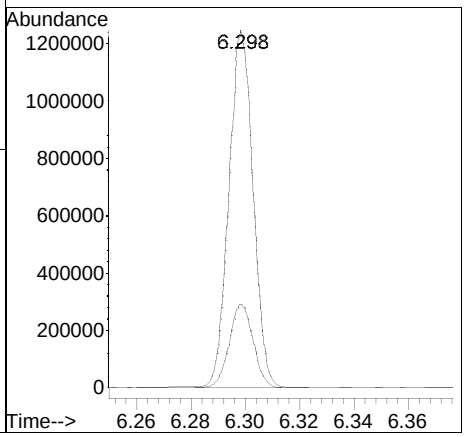


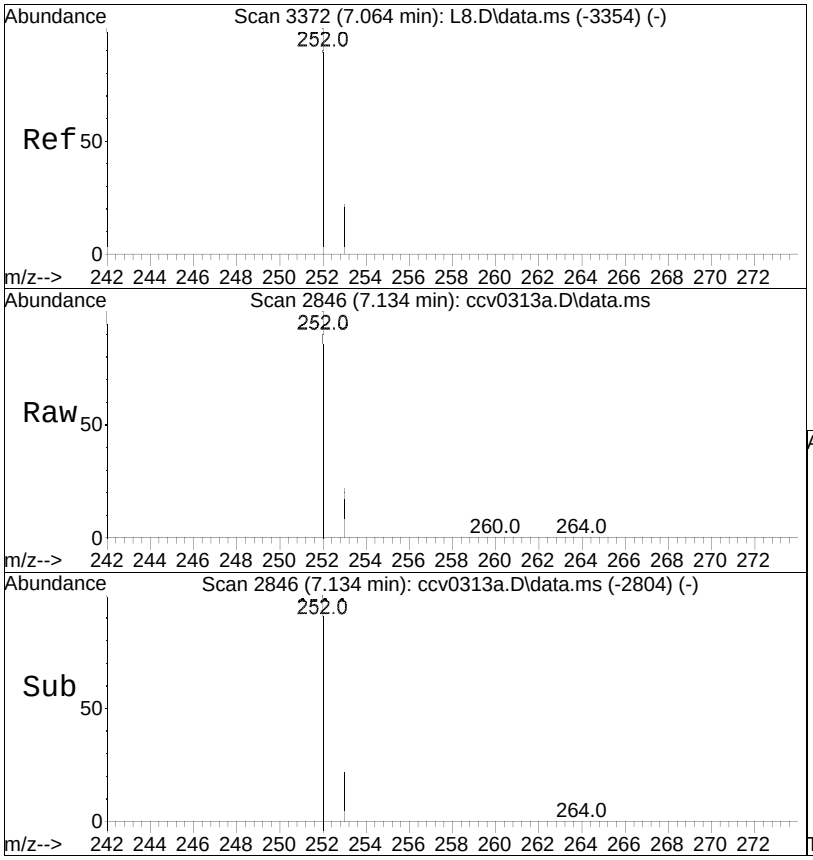


#37
Bis(2-ethylhexyl)phthalate
Concen: 1066.56 ng/ml
RT: 6.298 min Scan# 2324
Delta R.T. 0.000 min
Lab File: ccv0313a.D
Acq: 13 Mar 2025 08:33 am

Tgt Ion:149 Resp: 762179

Ion	Ratio	Lower	Upper
149	100		
167	23.4	18.6	27.8

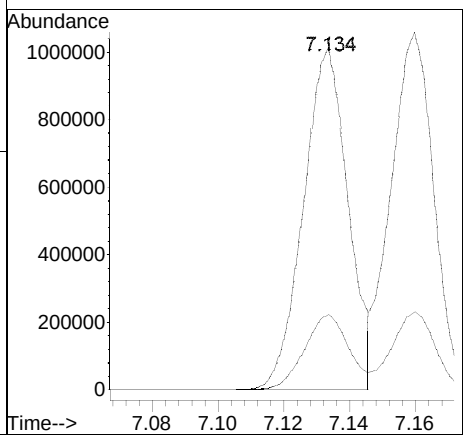


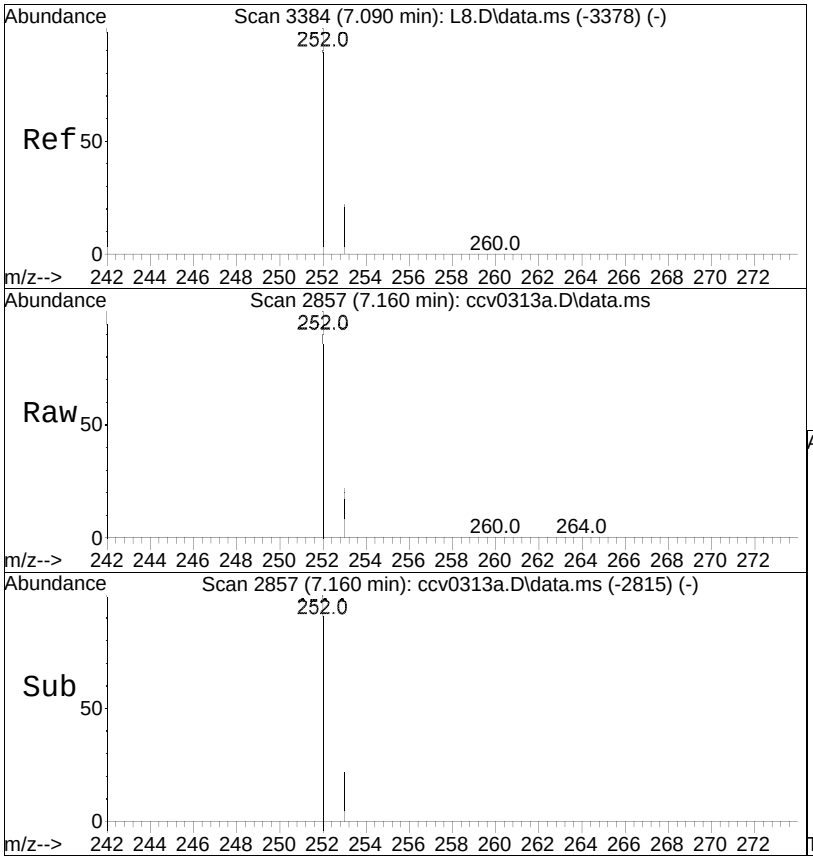


#39
Benzo[b]fluoranthene
Concen: 950.74 ng/ml
RT: 7.134 min Scan# 2846
Delta R.T. 0.000 min
Lab File: ccv0313a.D
Acq: 13 Mar 2025 08:33 am

Tgt Ion:252 Resp: 954114

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.4	26.2

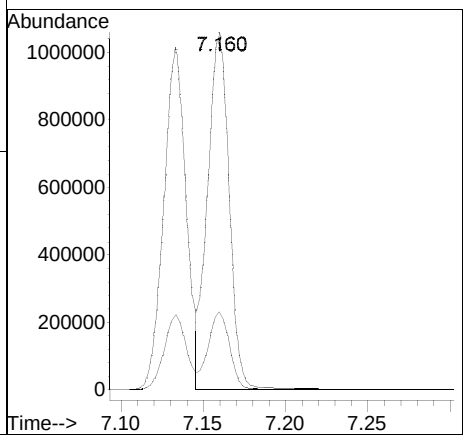


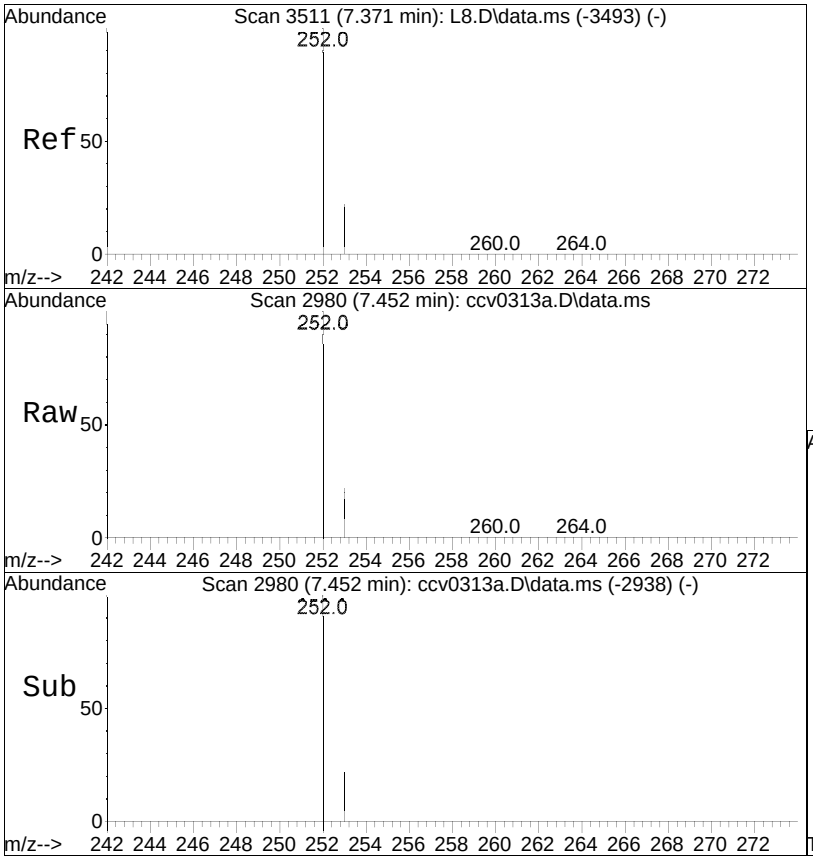


#40
Benzo[k]fluoranthene
Concen: 1005.87 ng/ml
RT: 7.160 min Scan# 2857
Delta R.T. 0.000 min
Lab File: ccv0313a.D
Acq: 13 Mar 2025 08:33 am

Tgt Ion:252 Resp: 960464

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.6	26.4

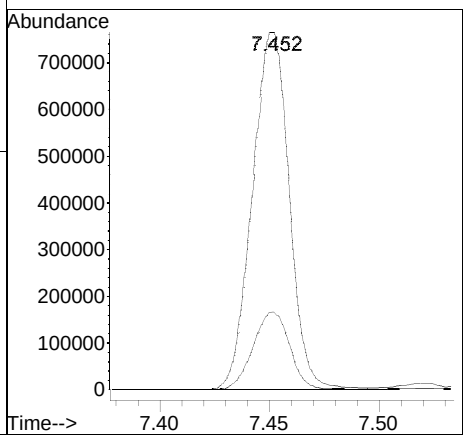


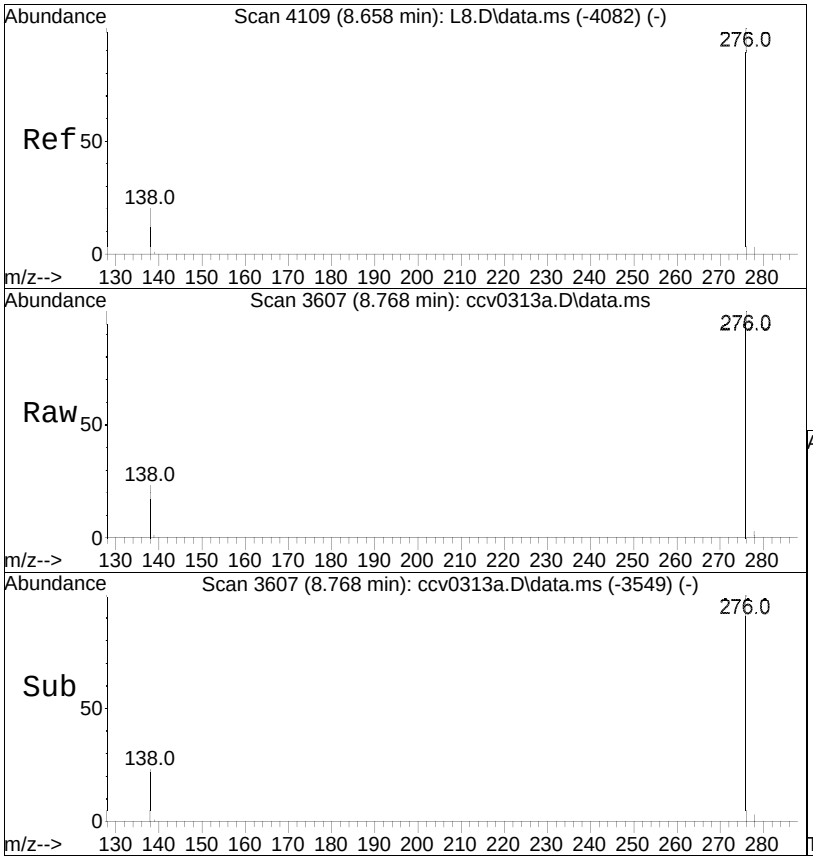


#41
Benzo[a]pyrene
Concen: 1058.37 ng/ml
RT: 7.452 min Scan# 2980
Delta R.T. 0.000 min
Lab File: ccv0313a.D
Acq: 13 Mar 2025 08:33 am

Tgt Ion:252 Resp: 883815

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.0

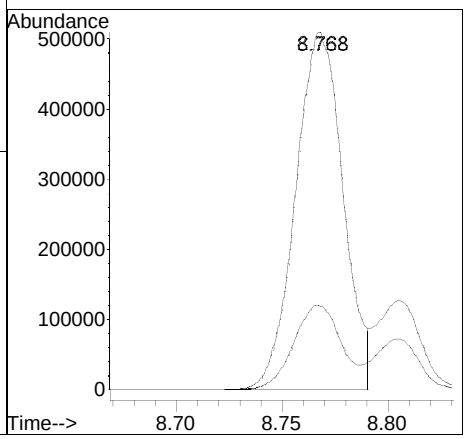


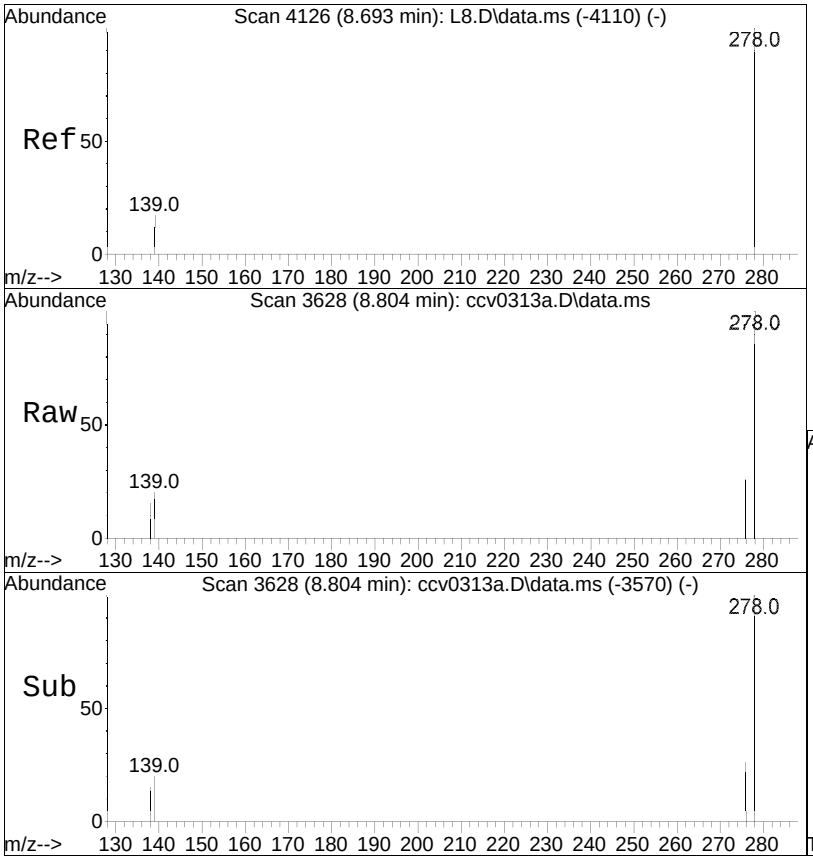


#42
Indeno[1,2,3-cd]pyrene
Concen: 1066.18 ng/ml
RT: 8.768 min Scan# 3607
Delta R.T. 0.000 min
Lab File: ccv0313a.D
Acq: 13 Mar 2025 08:33 am

Tgt Ion:276 Resp: 789223

Ion	Ratio	Lower	Upper
276	100		
138	23.8	17.0	25.4

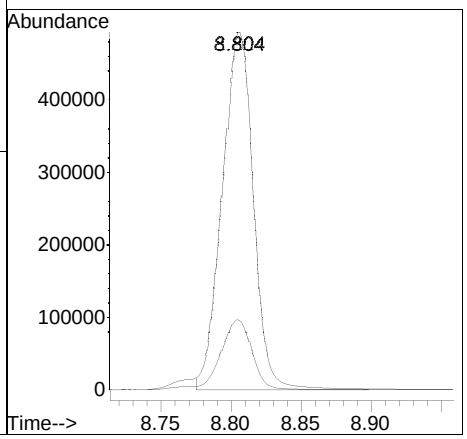


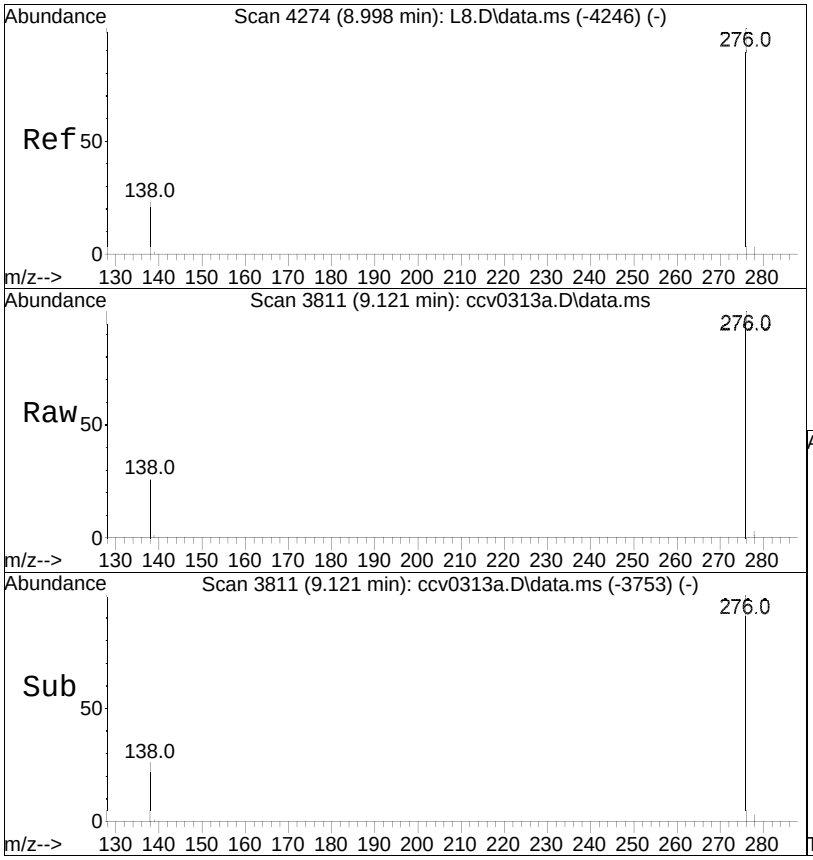


#43
Dibenzo[a,h]anthracene
Concen: 1062.99 ng/ml M6
RT: 8.804 min Scan# 3628
Delta R.T. 0.000 min
Lab File: ccv0313a.D
Acq: 13 Mar 2025 08:33 am

Tgt Ion:278 Resp: 759643

Ion	Ratio	Lower	Upper
278	100		
139	20.0	13.9	20.9

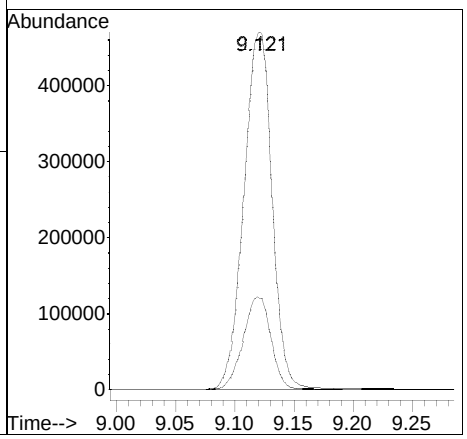




#44
Benzo[g,h,i]perylene
Concen: 981.87 ng/ml
RT: 9.121 min Scan# 3811
Delta R.T. 0.000 min
Lab File: ccv0313a.D
Acq: 13 Mar 2025 08:33 am

Tgt Ion:276 Resp: 767991

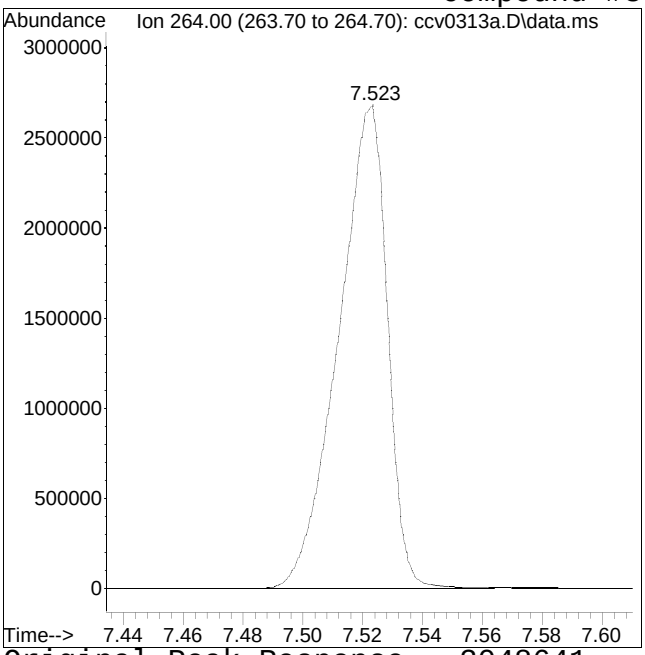
Ion	Ratio	Lower	Upper
276	100		
138	25.7	18.7	28.1



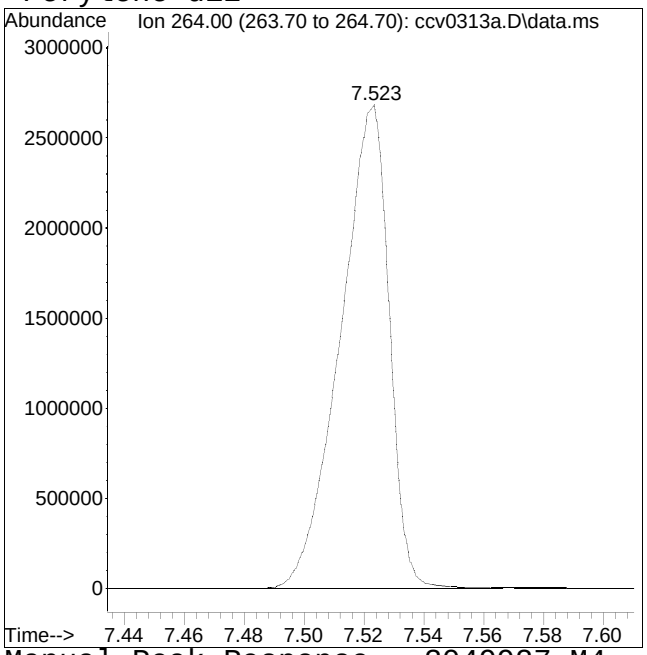
Manual Integration Report

Data Path : I:\8270SIM\SV118\250313aRVQMethod : SIM-RVT_250203sv118.M
Data File : ccv0313a.D Operator : SV118:rp
Date Inj'd : 3/13/2025 8:33 am Instrument : SV118
Sample : WG2040034-3,32,,ICV 11275 Quant Date : 3/13/2025 8:48 am

Compound #38: Perylene-d12



Original Peak Response = 3048641



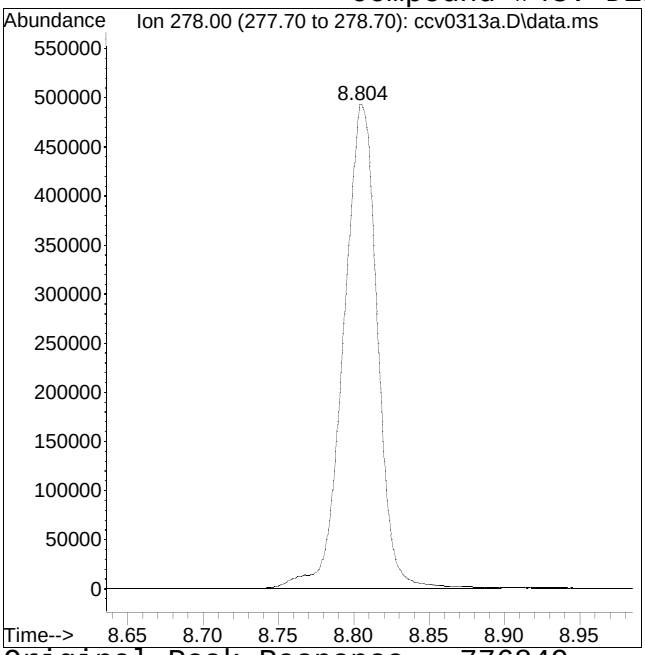
Manual Peak Response = 3049927 M4

M4 = Poor automated baseline construction.

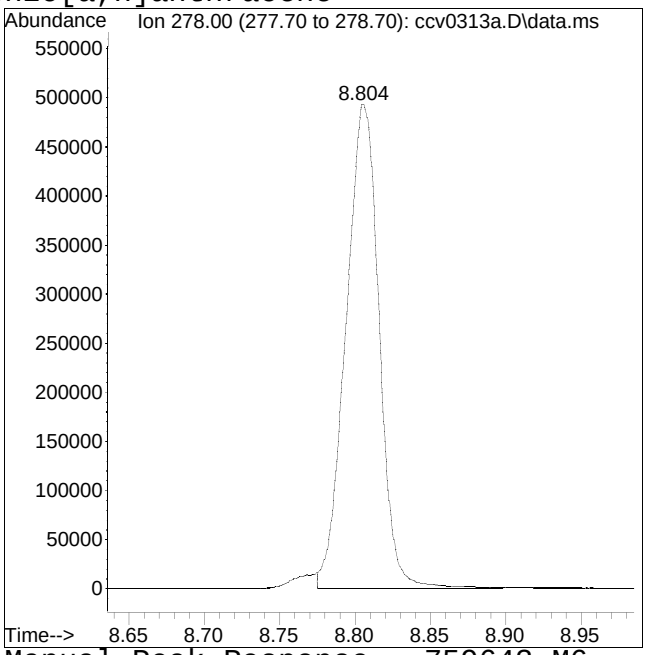
Manual Integration Report

Data Path : I:\8270SIM\SV118\250313aRVQMethod : SIM-RVT_250203sv118.M
Data File : ccv0313a.D Operator : SV118:rp
Date Inj'd : 3/13/2025 8:33 am Instrument : SV118
Sample : WG2040034-3,32,,ICV 11275 Quant Date : 3/13/2025 8:48 am

Compound #43: Dibenzo[a,h]anthracene



Original Peak Response = 776849



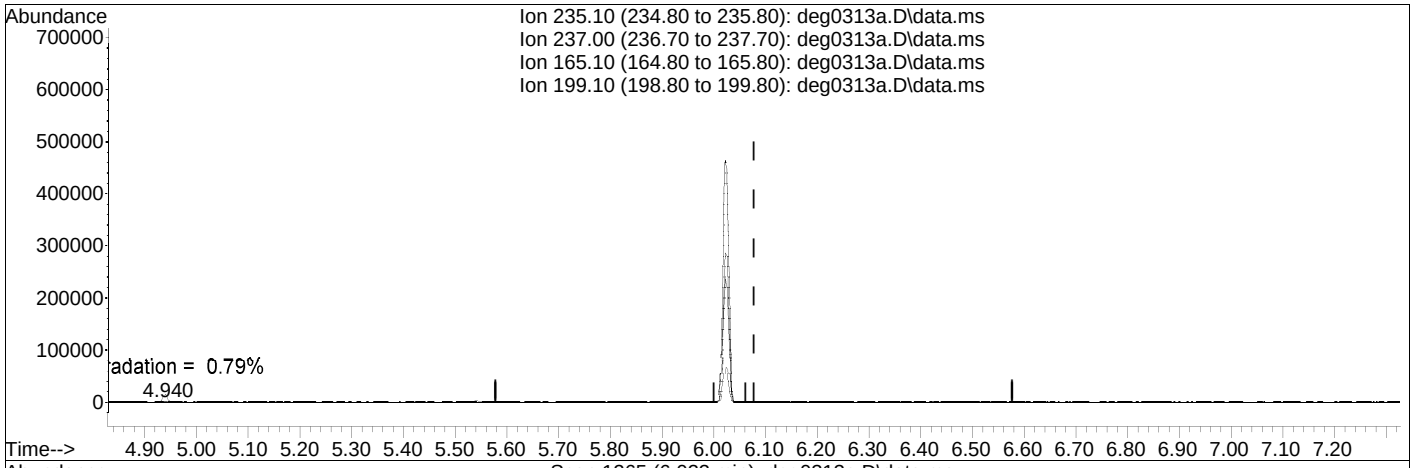
Manual Peak Response = 759643 M6

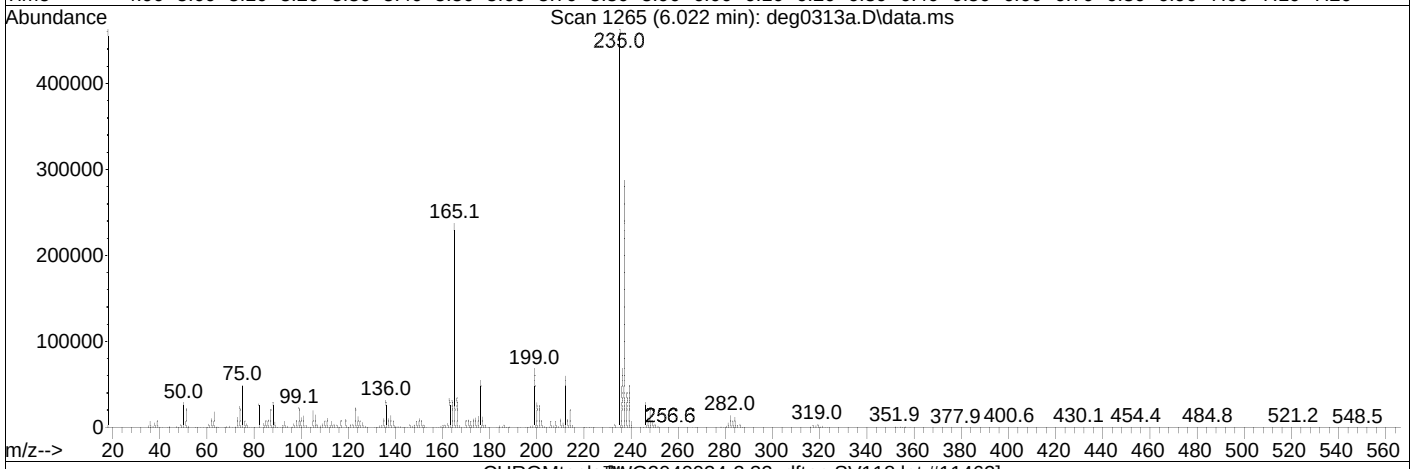
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV118\250313aRVT\
Data File : deg0313a.D
Acq On : 13 Mar 2025 08:16 am
Operator : SV118:rp
Sample : WG2040034-2,32,,dftpp SV118 lot #11462
Misc : WG2040034,,ical21963
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Mar 13 08:28:47 2025
Quant Method : I:\8270SIM\SV118\250313aRVT\dftppsv118.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Mar 01 15:18:24 2025
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





CHROMtools [WG2040034-2,32,,dftpp SV118 lot #11462]

(6) ddt (T)

6.022min (-0.056) 55.02

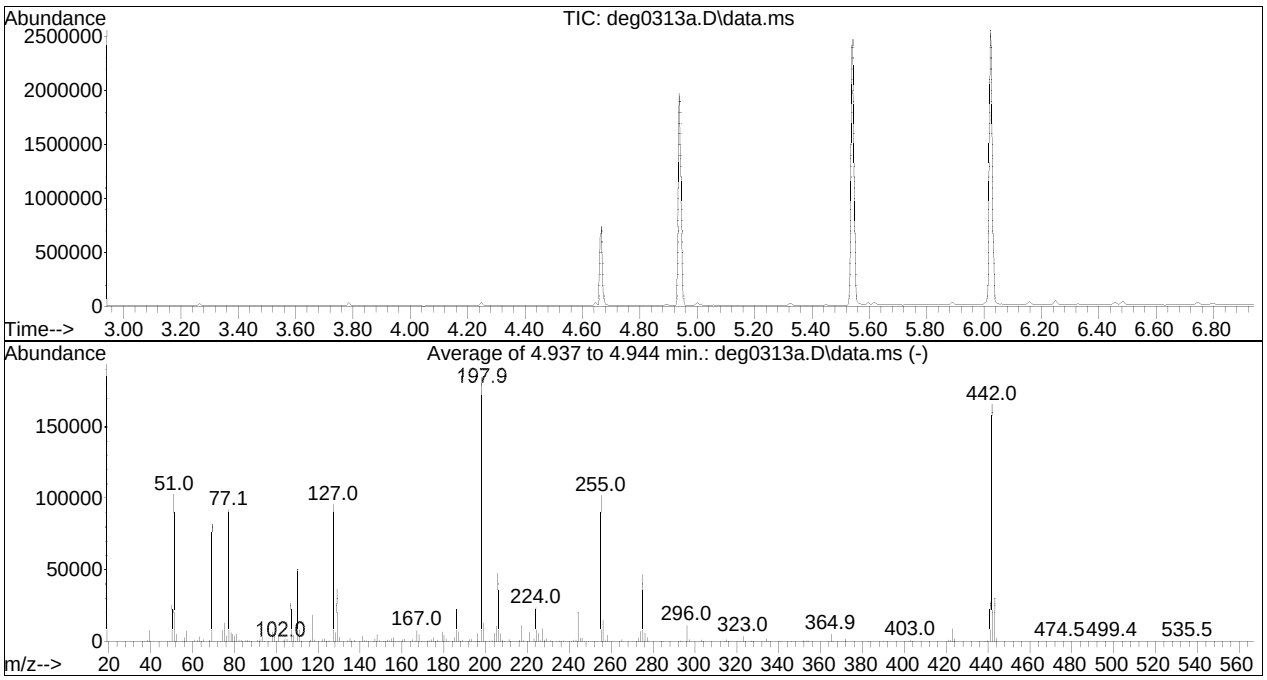
response 335404

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	62.19
165.10	53.30	50.36
199.10	17.10	14.62

Data Path : I:\8270SIM\SV118\250313aRVT\
Data File : deg0313a.D
Acq On : 13 Mar 2025 08:16 am
Operator : SV118:rp
Sample : WG2040034-1,32,,dftpp SV118 lot #11462
Misc : WG2040034,,ical21963
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\SV118\250313aRVT\SIM-RVT_250203sv118.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Mar 13 08:48:25 2025



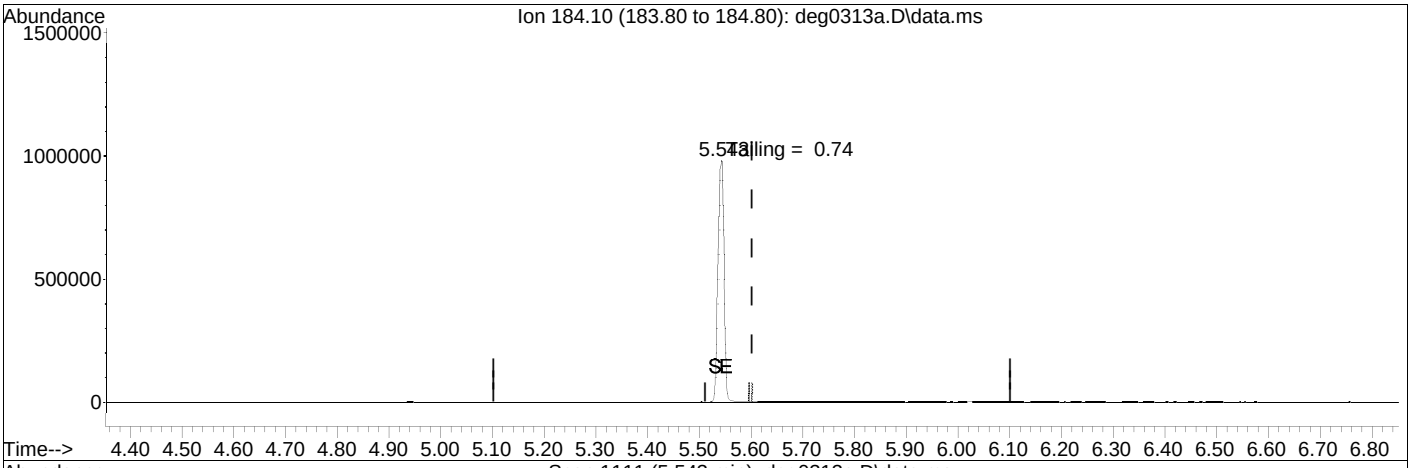
Spectrum Information: Average of 4.937 to 4.944 min.

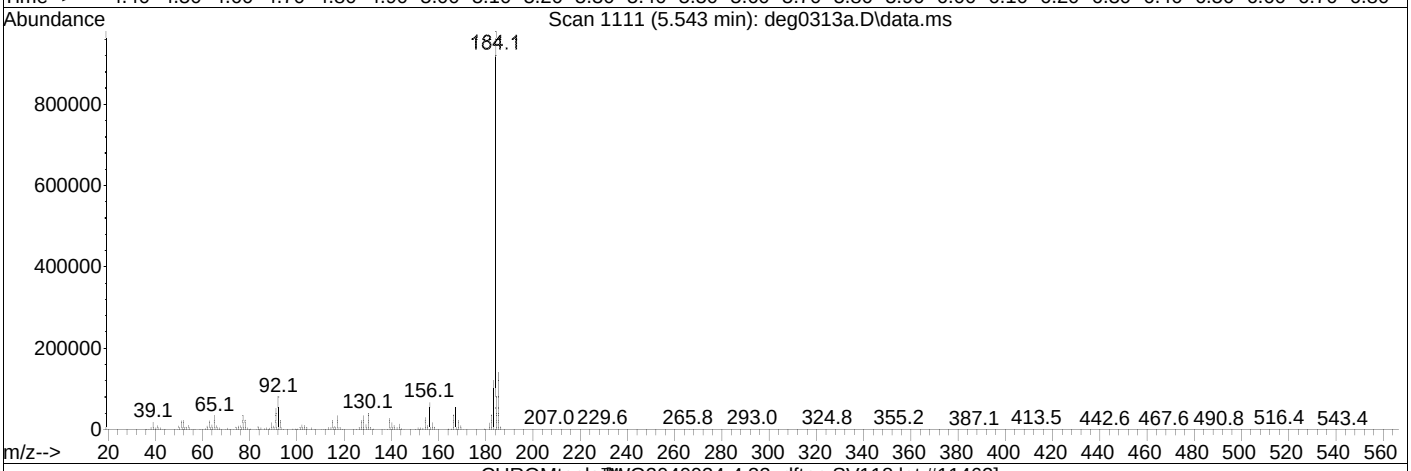
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	55.6	102575	PASS
68	69	0.00	2	1.7	1365	PASS
69	69	100	100	100.0	81827	PASS
70	69	0.00	2	0.4	298	PASS
127	198	10	80	51.8	95529	PASS
197	198	0.00	2	0.3	591	PASS
198	198	100	100	100.0	184443	PASS
199	198	5	9	6.8	12602	PASS
275	198	10	60	25.2	46533	PASS
365	198	1	100	2.9	5343	PASS
441	442	0.01	24	16.7	27696	PASS
442	198	50	100	89.9	165770	PASS
443	442	15	24	18.3	30258	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV118\250313aRVT\
Data File : deg0313a.D
Acq On : 13 Mar 2025 08:16 am
Operator : SV118:rp
Sample : WG2040034-4,32,,dftpp SV118 lot #11462
Misc : WG2040034,,ical21963
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Mar 13 08:28:47 2025
Quant Method : I:\8270SIM\SV118\250313aRVT\dftppsv118.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Mar 01 15:18:24 2025
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





CHROMtools [WG2040034-4,32,,dftpp SV118 lot #11462]

(3) benzidine (T)

5.543min (-0.059) 71.31

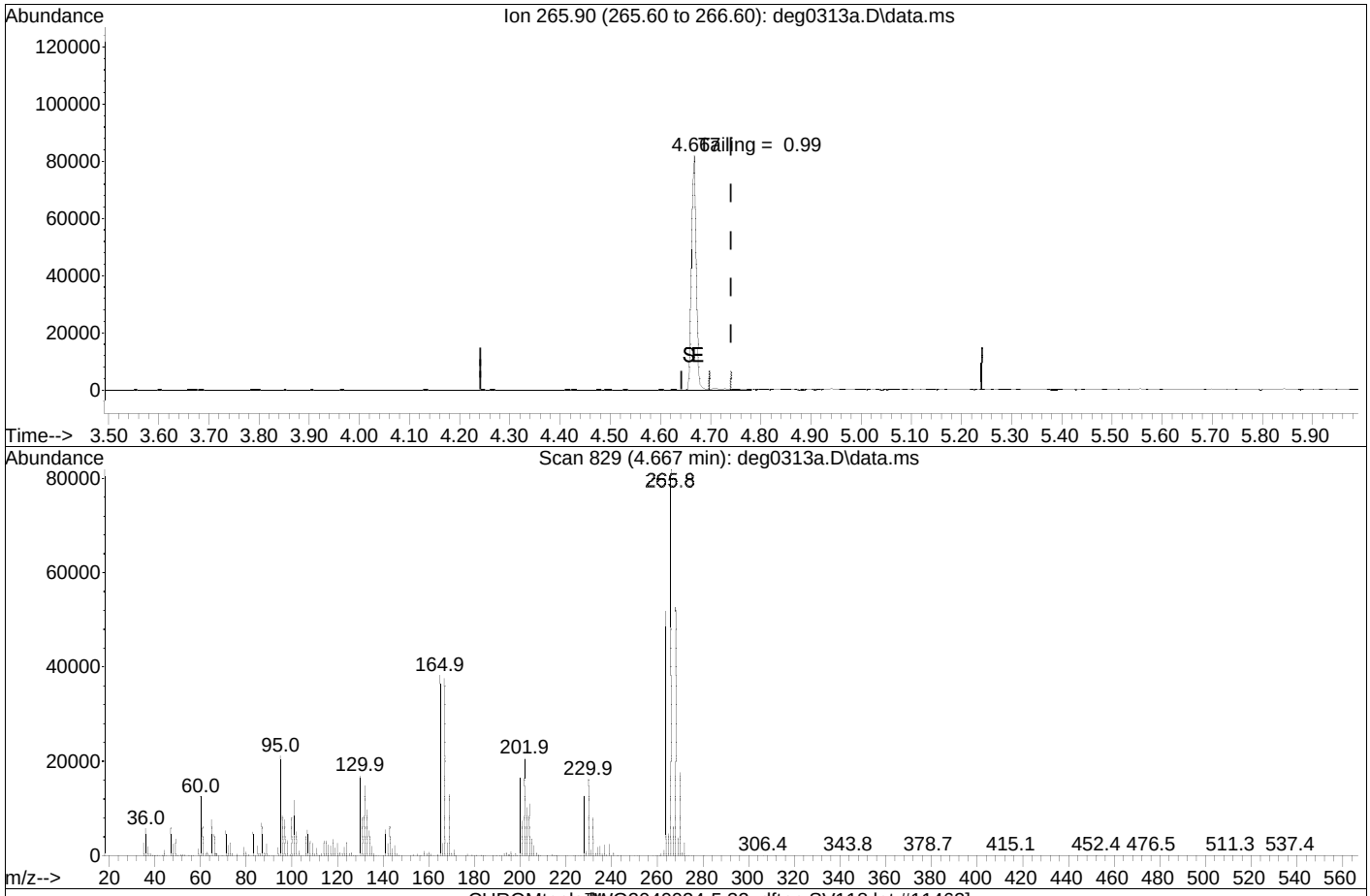
response 725987

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV118\250313aRVT\
Data File : deg0313a.D
Acq On : 13 Mar 2025 08:16 am
Operator : SV118:rp
Sample : WG2040034-5,32,,dftpp SV118 lot #11462
Misc : WG2040034,,ical21963
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Mar 13 08:28:47 2025
Quant Method : I:\8270SIM\SV118\250313aRVT\dftppsv118.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Mar 01 15:18:24 2025
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



CHROMtools [WG2040034-5,32,,dftpp SV118 lot #11462]

(1) pentachlorophenol (T)

4.667min (-0.074) 24.69

response 51865

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Semivolatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250311bRVT\
Data File : 038209-1.D
Acq On : 11 Mar 2025 05:13 pm
Operator : sv119:rp
Sample : WG2038209-1,32,,kmh
Misc : WG2039073,WG2038209,ical21826
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Mar 11 18:38:20 2025
Quant Method : I:\8270sim\sv119\250311bRVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 11 12:33:32 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250311bRVT\ccv0311b.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.214	152	367147	4000.000	ng/ml	0.00
Standard Area 1 = 325676			Recovery = 112.73%			
9) Naphthalene-d8	2.863	136	1403293	4000.000	ng/ml	0.00
Standard Area 1 = 1225929			Recovery = 114.47%			
18) Acenaphthene-d10	3.829	164	769884	4000.000	ng/ml	0.00
Standard Area 1 = 688151			Recovery = 111.88%			
23) Phenanthrene-d10	4.666	188	1377388	4000.000	ng/ml	0.00
Standard Area 1 = 1410915			Recovery = 97.62%			
33) Chrysene-d12	6.246	240	1236844	4000.000	ng/ml	0.00
Standard Area 1 = 1283861			Recovery = 96.34%			
38) Perylene-d12	7.436	264	1309895	4000.000	ng/ml	0.00
Standard Area 1 = 1327611			Recovery = 98.67%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.687	112	80083	814.078	ng/ml	0.03
Spiked Amount 2000.000	Range 15 - 110		Recovery = 40.70%			
4) Phenol-d6	2.086	99	77264M3	629.284	ng/ml	0.05
Spiked Amount 2000.000	Range 15 - 110		Recovery = 31.46%			
8) Nitrobenzene-d5	2.492	82	98916	830.789	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 83.08%			
14) 2-Fluorobiphenyl	3.452	172	252130	736.822	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 73.68%			
22) 2,4,6-Tribromophenol	4.283	330	44667	1329.315	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 66.47%			
32) 4-Terphenyl-d14	5.597	244	253780	742.703	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 74.27%			
Target Compounds						Qvalue
5) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
7) Hexachloroethane	0.000		0	N.D.	d	
10) Naphthalene	0.000		0	N.D.	d	
11) Hexachlorobutadiene	0.000		0	N.D.	d	
12) 2-Methylnaphthalene	0.000		0	N.D.	d	
15) 2-Chloronaphthalene	0.000		0	N.D.	d	
17) Acenaphthylene	0.000		0	N.D.	d	
19) Acenaphthene	0.000		0	N.D.	d	
21) Fluorene	0.000		0	N.D.	d	

Data Path : I:\8270SIM\sv119\250311bRVT\
Data File : 038209-1.D
Acq On : 11 Mar 2025 05:13 pm
Operator : sv119:rp
Sample : WG2038209-1,32,,kmh
Misc : WG2039073,WG2038209,ical21826
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Mar 11 18:38:20 2025
Quant Method : I:\8270sim\sv119\250311bRVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 11 12:33:32 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250311bRVT\ccv0311b.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Hexachlorobenzene	4.455	284	159	1.958	ng/ml	87
26) Pentachlorophenol	0.000		0	N.D.	d	
27) Phenanthrene	0.000		0	N.D.	d	
28) Anthracene	0.000		0	N.D.	d	
29) Fluoranthene	0.000		0	N.D.	d	
30) Pyrene	0.000		0	N.D.	d	
34) Benzo[a]anthracene	0.000		0	N.D.	d	
36) Chrysene	0.000		0	N.D.	d	
39) Benzo[b]fluoranthene	0.000		0	N.D.	d	
40) Benzo[k]fluoranthene	0.000		0	N.D.	d	
41) Benzo[a]pyrene	0.000		0	N.D.	d	
42) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
43) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
44) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

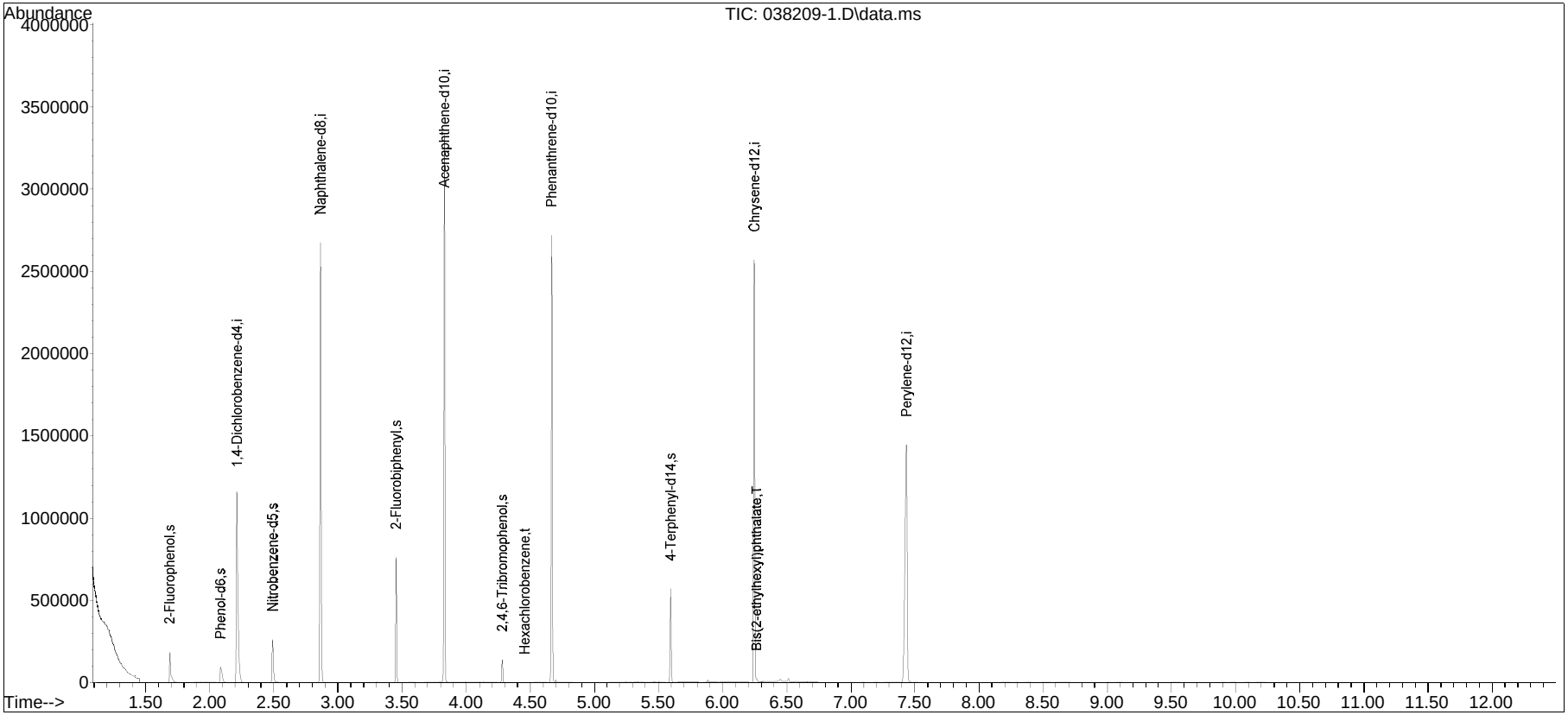
(#) = qualifier out of range (m) = manual integration (+) = signals summed

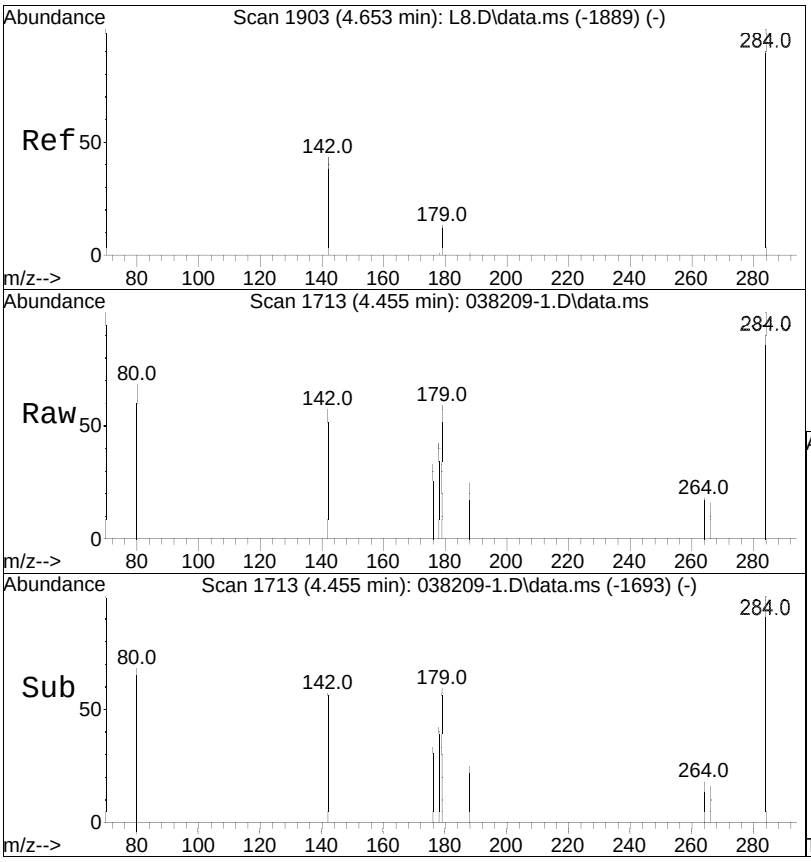
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250311bRVT\
Data File : 038209-1.D
Acq On : 11 Mar 2025 05:13 pm
Operator : sv119:rp
Sample : WG2038209-1,32,,kmh
Misc : WG2039073,WG2038209,ical21826
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Mar 11 18:38:20 2025
Quant Method : I:\8270sim\sv119\250311bRVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 11 12:33:32 2025
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedT\ccv0311b.D•

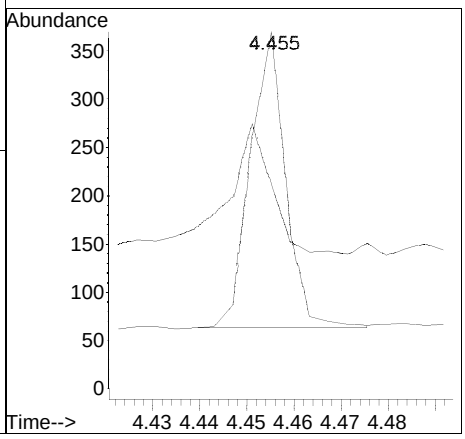




#25
Hexachlorobenzene
Concen: 1.96 ng/ml
RT: 4.455 min Scan# 1713
Delta R.T. -0.002 min
Lab File: 038209-1.D
Acq: 11 Mar 2025 05:13 pm

Tgt Ion:284 Resp: 159

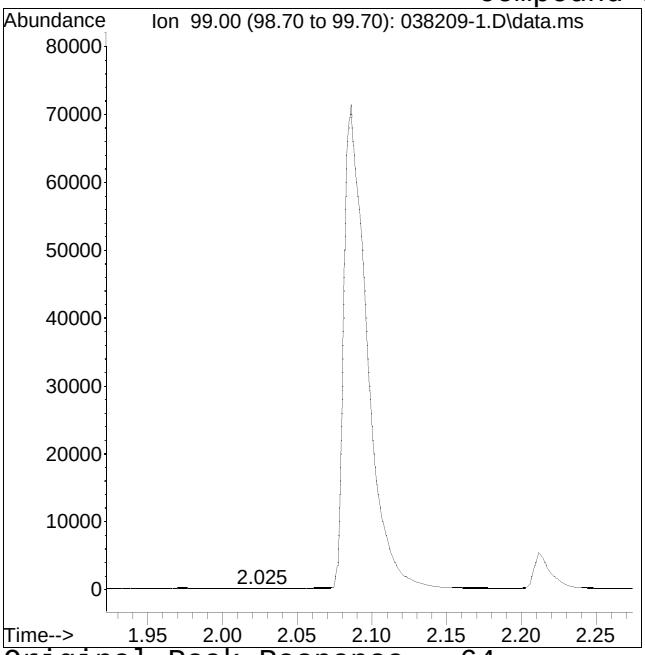
Ion	Ratio	Lower	Upper
284	100		
142	50.3	33.8	50.6



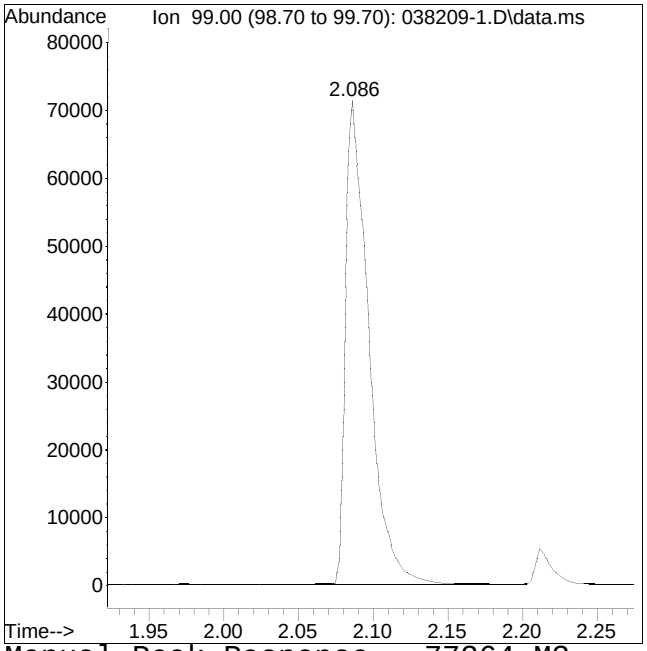
Manual Integration Report

Data Path : I:\8270SIM\sv119\250311bRVQMethod : SIM-RVT_241229_sv119.M
Data File : 038209-1.D Operator : sv119:rp
Date Inj'd : 3/11/2025 5:13 pm Instrument : SV119
Sample : WG2038209-1,32,,kmh Quant Date : 3/11/2025 5:27 pm

Compound #4: Phenol-d6



Original Peak Response = 64



Manual Peak Response = 77264 M3

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250311bRVT\
Data File : 038209-2.D
Acq On : 11 Mar 2025 04:39 pm
Operator : sv119:rp
Sample : WG2038209-2,32,,kmh
Misc : WG2039073,WG2038209,ical21826
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Mar 11 18:42:54 2025
Quant Method : I:\8270sim\sv119\250311bRVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 11 12:33:32 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250311bRVT\ccv0311b.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.214	152	355330	4000.000	ng/ml	0.00
Standard Area 1 = 325676			Recovery = 109.11%			
9) Naphthalene-d8	2.862	136	1377596	4000.000	ng/ml	0.00
Standard Area 1 = 1225929			Recovery = 112.37%			
18) Acenaphthene-d10	3.831	164	713764	4000.000	ng/ml	0.00
Standard Area 1 = 688151			Recovery = 103.72%			
23) Phenanthrene-d10	4.669	188	1240963	4000.000	ng/ml	0.00
Standard Area 1 = 1410915			Recovery = 87.95%			
33) Chrysene-d12	6.251	240	979906	4000.000	ng/ml	0.00
Standard Area 1 = 1283861			Recovery = 76.32%			
38) Perylene-d12	7.442	264	1187399	4000.000	ng/ml	0.00
Standard Area 1 = 1327611			Recovery = 89.44%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.693	112	120758	1268.380	ng/ml	0.04
Spiked Amount 2000.000	Range 15 - 110		Recovery = 63.42%			
4) Phenol-d6	2.086	99	105744M3	889.883	ng/ml	0.05
Spiked Amount 2000.000	Range 15 - 110		Recovery = 44.49%			
8) Nitrobenzene-d5	2.492	82	121717	1056.291	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 105.63%			
14) 2-Fluorobiphenyl	3.451	172	294285	876.057	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 87.61%			
22) 2,4,6-Tribromophenol	4.282	330	58135	1866.163	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 93.31%			
32) 4-Terphenyl-d14	5.598	244	262136	851.495	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 85.15%			
Target Compounds						Qvalue
5) Bis(2-chloroethyl)ether	2.086	93	243029	2215.827	ng/ml	96
7) Hexachloroethane	2.460	117	53070	1152.288	ng/ml	96
10) Naphthalene	2.874	128	630640	1641.390	ng/ml	100
11) Hexachlorobutadiene	2.941	225	86332	1276.828	ng/ml	100
12) 2-Methylnaphthalene	3.248	142	389886	1452.136	ng/ml	98
15) 2-Chloronaphthalene	3.518	162	432486	1559.652	ng/ml#	86
17) Acenaphthylene	3.749	152	739397	1721.803	ng/ml	99
19) Acenaphthene	3.847	153	450388	1891.974	ng/ml	94
21) Fluorene	4.139	166	529674	1936.650	ng/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250311bRVT\
Data File : 038209-2.D
Acq On : 11 Mar 2025 04:39 pm
Operator : sv119:rp
Sample : WG2038209-2,32,,kmh
Misc : WG2039073,WG2038209,ical21826
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Mar 11 18:42:54 2025
Quant Method : I:\8270sim\sv119\250311bRVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 11 12:33:32 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250311bRVT\ccv0311b.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Hexachlorobenzene	4.454	284	153115	2093.209	ng/ml	95
26) Pentachlorophenol	4.583	266	75824	1947.978	ng/ml	100
27) Phenanthrene	4.681	178	730253	2012.610	ng/ml	99
28) Anthracene	4.709	178	740794	2036.350	ng/ml	100
29) Fluoranthene	5.370	202	828926	1826.037	ng/ml	98
30) Pyrene	5.504	202	837748	1787.921	ng/ml	100
34) Benzo[a]anthracene	6.243	228	759675	2197.866	ng/ml	100
36) Chrysene	6.267	228	695513	2061.446	ng/ml	100
39) Benzo[b]fluoranthene	7.073	252	868733	2207.566	ng/ml	98
40) Benzo[k]fluoranthene	7.097	252	774116	1994.788	ng/ml	99
41) Benzo[a]pyrene	7.380	252	774006	2317.962	ng/ml	99
42) Indeno[1,2,3-cd]pyrene	8.641	276	919196	2843.415	ng/ml	97
43) Dibenzo[a,h]anthracene	8.672	278	815411M6	2719.006	ng/ml	
44) Benzo[g,h,i]perylene	8.976	276	851348	2766.958	ng/ml	97

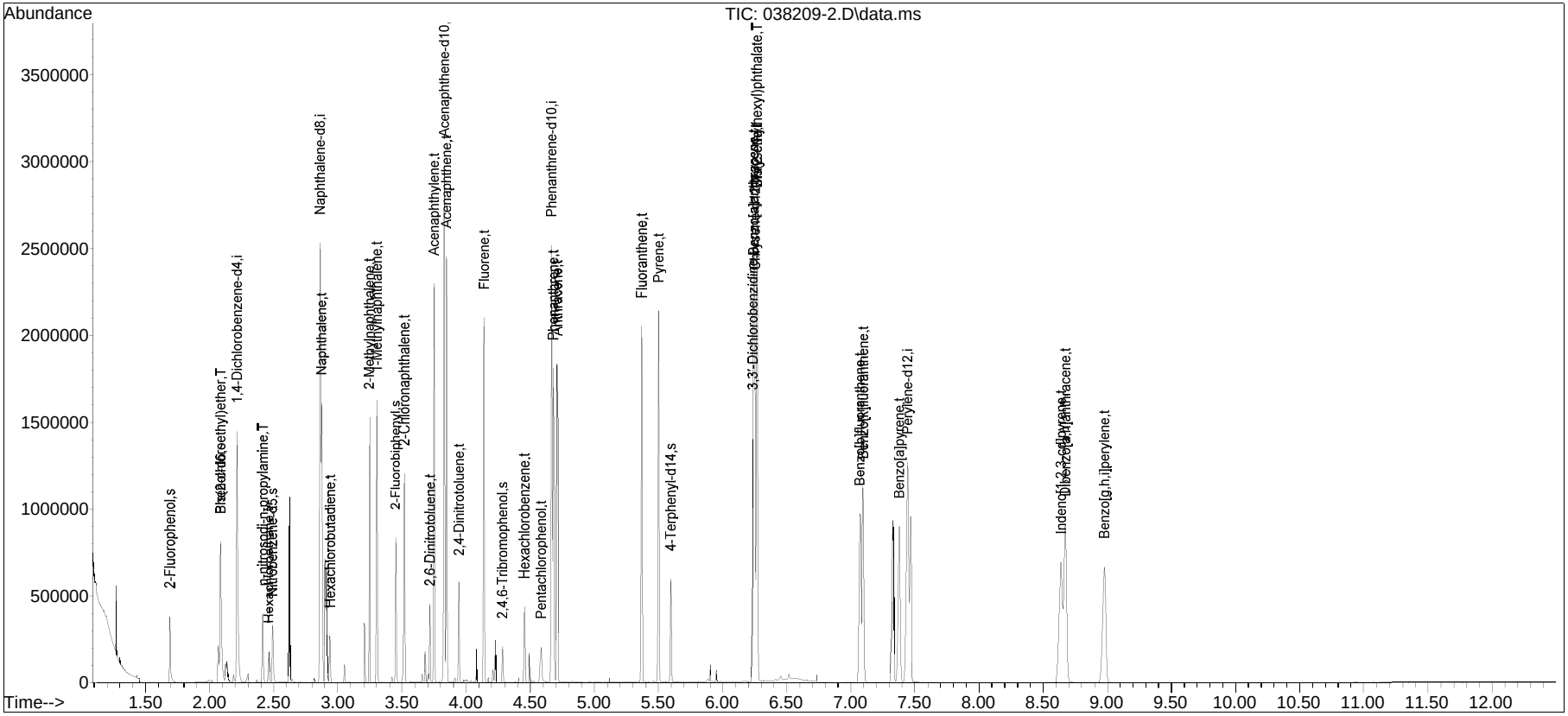
(#) = qualifier out of range (m) = manual integration (+) = signals summed

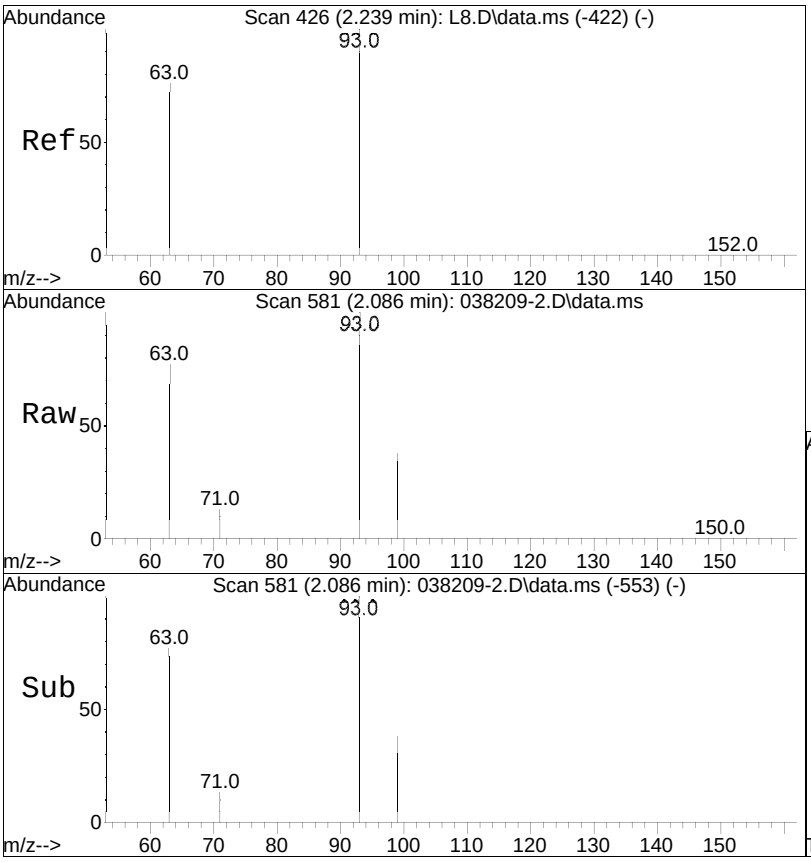
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250311bRVT\
Data File : 038209-2.D
Acq On : 11 Mar 2025 04:39 pm
Operator : sv119:rp
Sample : WG2038209-2,32,,kmh
Misc : WG2039073,WG2038209,ical21826
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Mar 11 18:42:54 2025
Quant Method : I:\8270sim\sv119\250311bRVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 11 12:33:32 2025
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedT\ccv0311b.D•

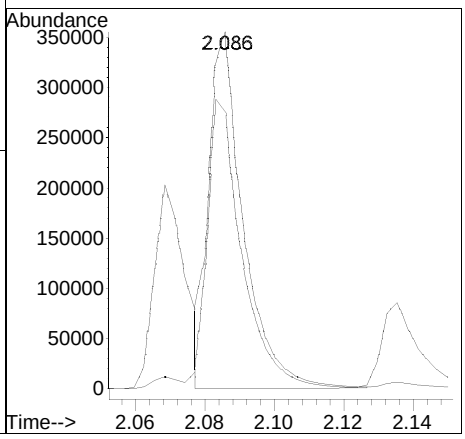


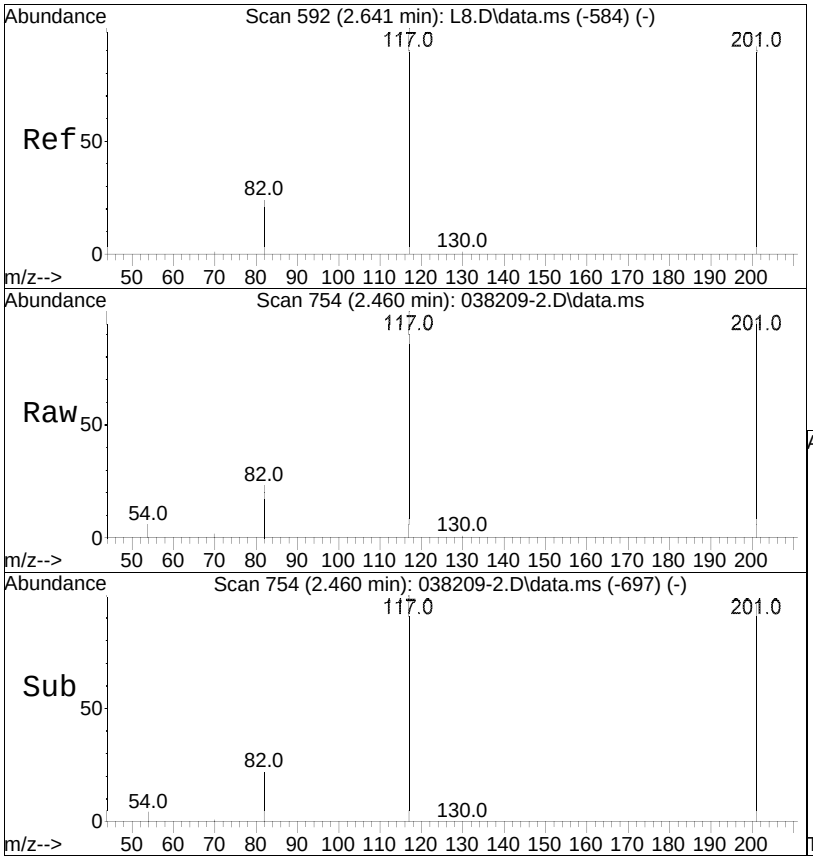


#5
Bis(2-chloroethyl)ether
Concen: 2215.83 ng/ml
RT: 2.086 min Scan# 581
Delta R.T. 0.003 min
Lab File: 038209-2.D
Acq: 11 Mar 2025 04:39 pm

Tgt Ion: 93 Resp: 243029

Ion	Ratio	Lower	Upper
93	100		
63	80.8	61.7	92.5

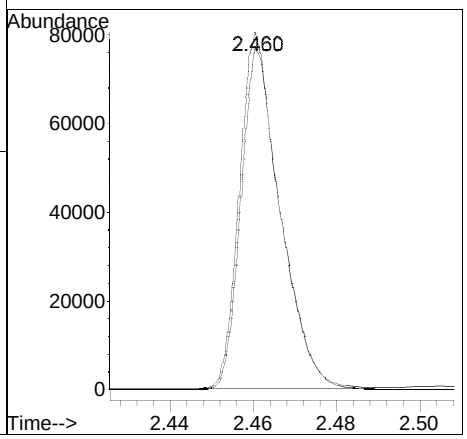


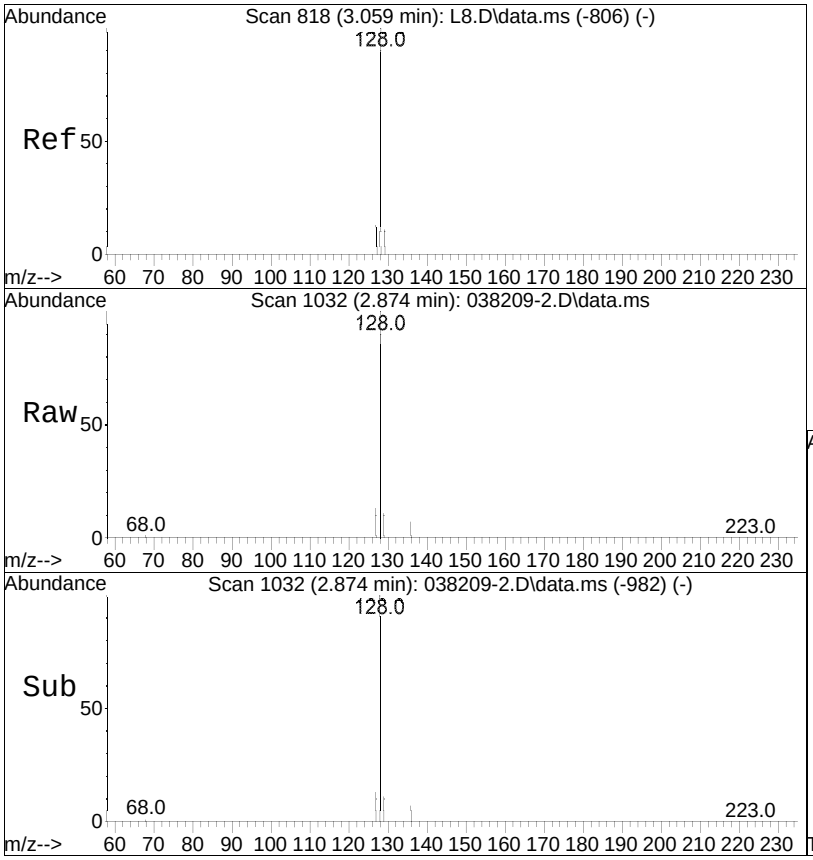


#7
Hexachloroethane
Concen: 1152.29 ng/ml
RT: 2.460 min Scan# 754
Delta R.T. -0.000 min
Lab File: 038209-2.D
Acq: 11 Mar 2025 04:39 pm

Tgt Ion:117 Resp: 53070

Ion	Ratio	Lower	Upper
117	100		
201	95.4	79.3	118.9

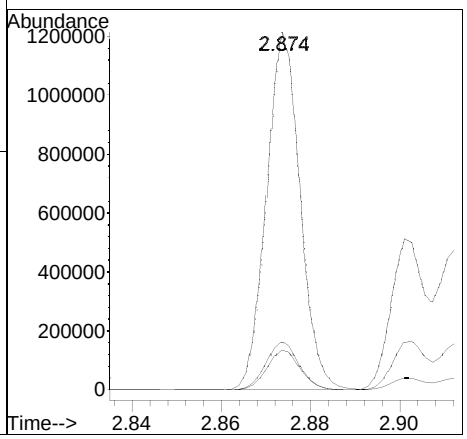


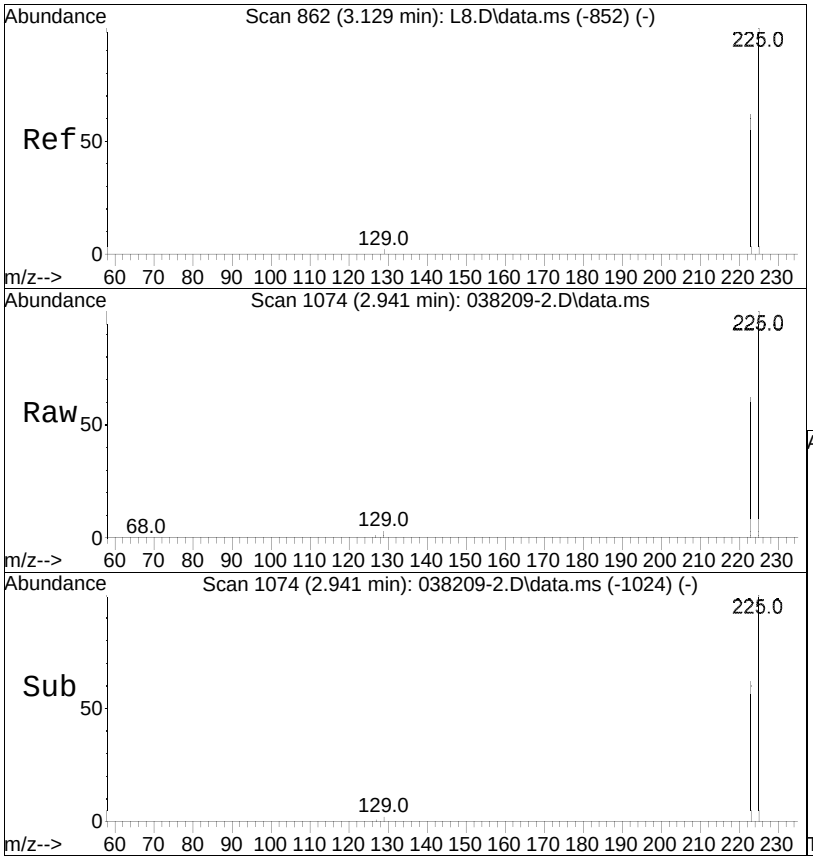


#10
Naphthalene
Concen: 1641.39 ng/ml
RT: 2.874 min Scan# 1032
Delta R.T. -0.000 min
Lab File: 038209-2.D
Acq: 11 Mar 2025 04:39 pm

Tgt Ion:128 Resp: 630640

Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.0	13.6
127	13.3	10.5	15.7

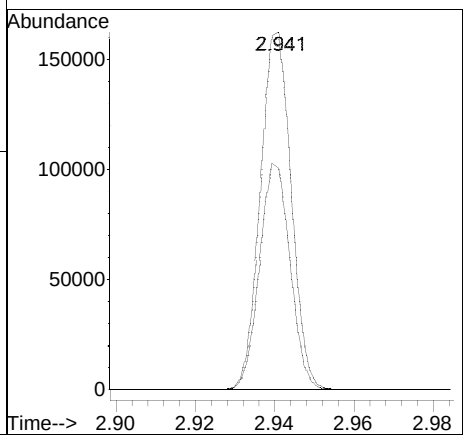


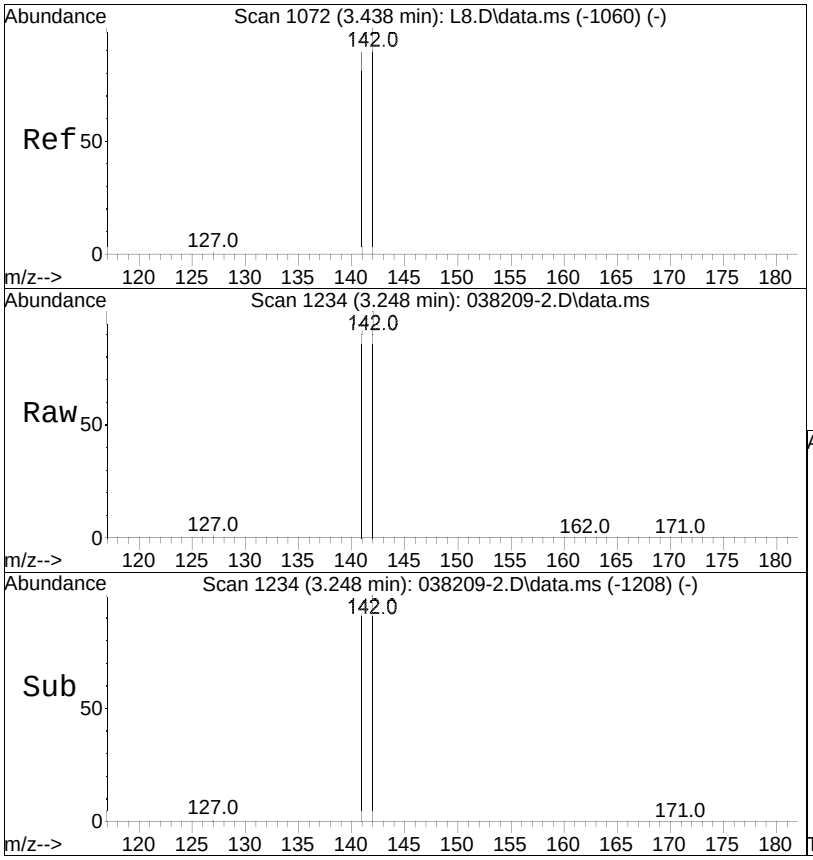


#11
Hexachlorobutadiene
Concen: 1276.83 ng/ml
RT: 2.941 min Scan# 1074
Delta R.T. -0.000 min
Lab File: 038209-2.D
Acq: 11 Mar 2025 04:39 pm

Tgt Ion:225 Resp: 86332

Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.4	75.6

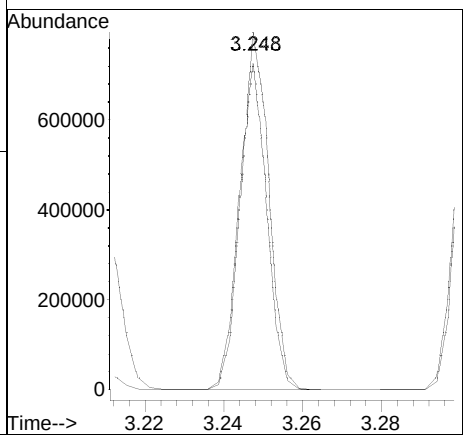


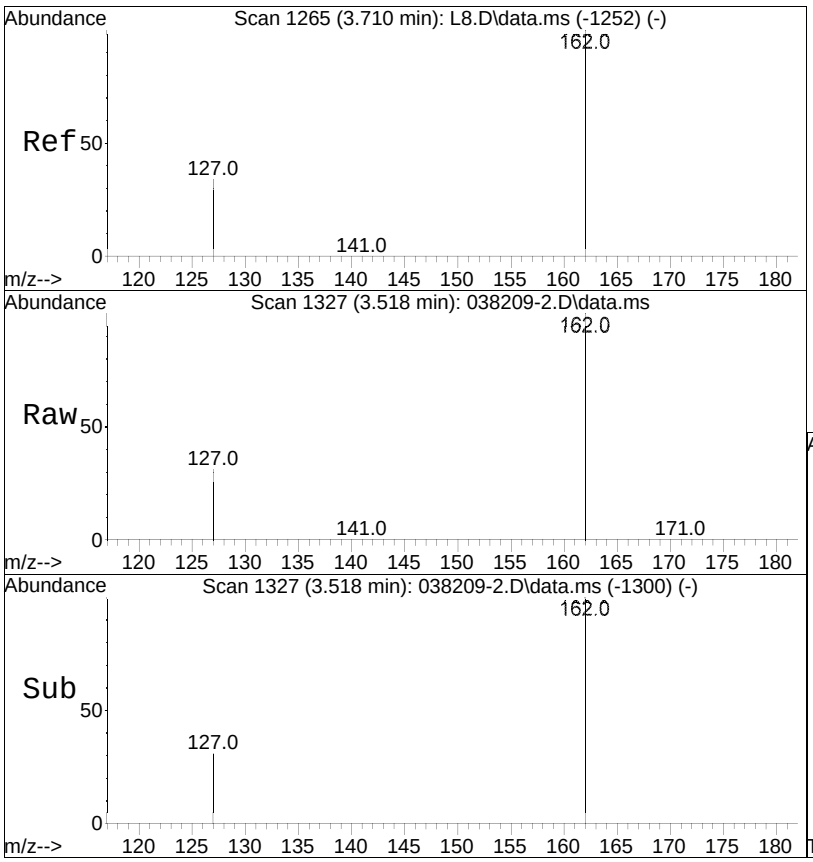


#12
2-Methylnaphthalene
Concen: 1452.14 ng/ml
RT: 3.248 min Scan# 1234
Delta R.T. -0.003 min
Lab File: 038209-2.D
Acq: 11 Mar 2025 04:39 pm

Tgt Ion:142 Resp: 389886

Ion	Ratio	Lower	Upper
142	100		
141	90.8	71.3	106.9

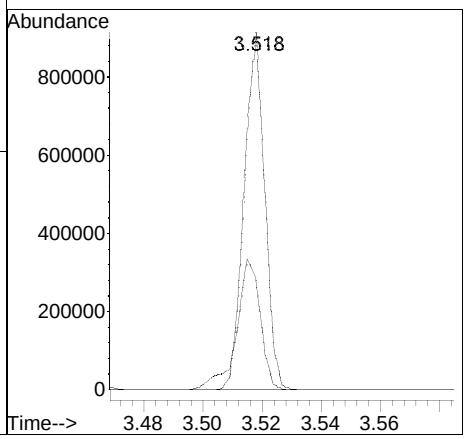


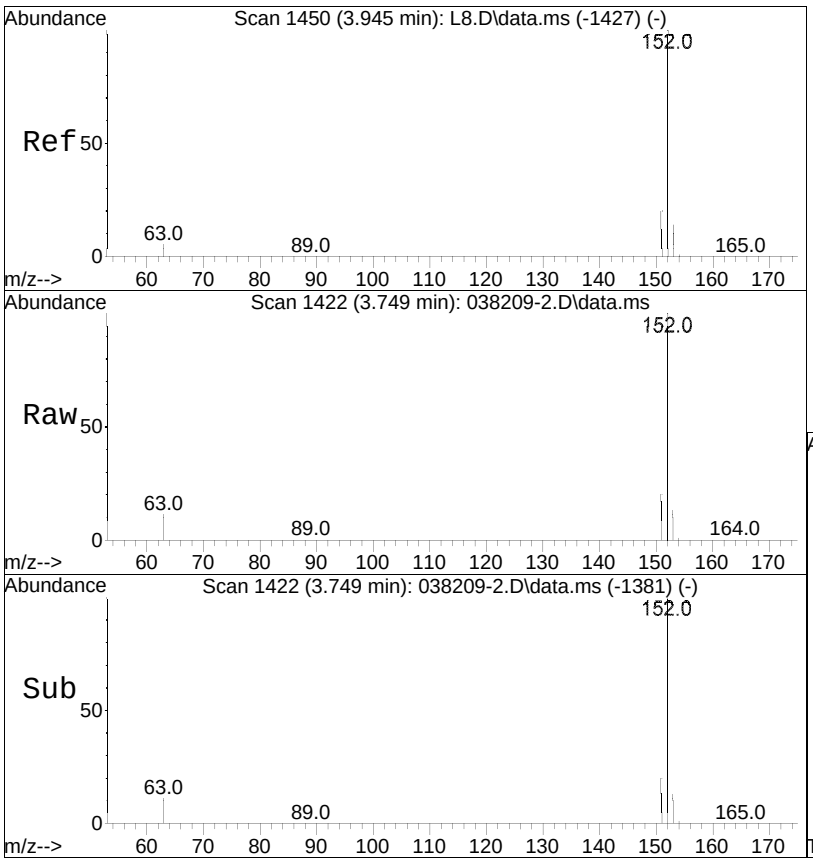


#15
2-Chloronaphthalene
Concen: 1559.65 ng/ml
RT: 3.518 min Scan# 1327
Delta R.T. -0.000 min
Lab File: 038209-2.D
Acq: 11 Mar 2025 04:39 pm

Tgt Ion:162 Resp: 432486

Ion	Ratio	Lower	Upper
162	100		
127	42.5	27.4	41.0#

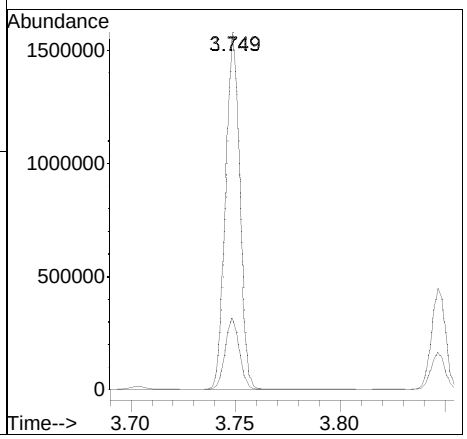


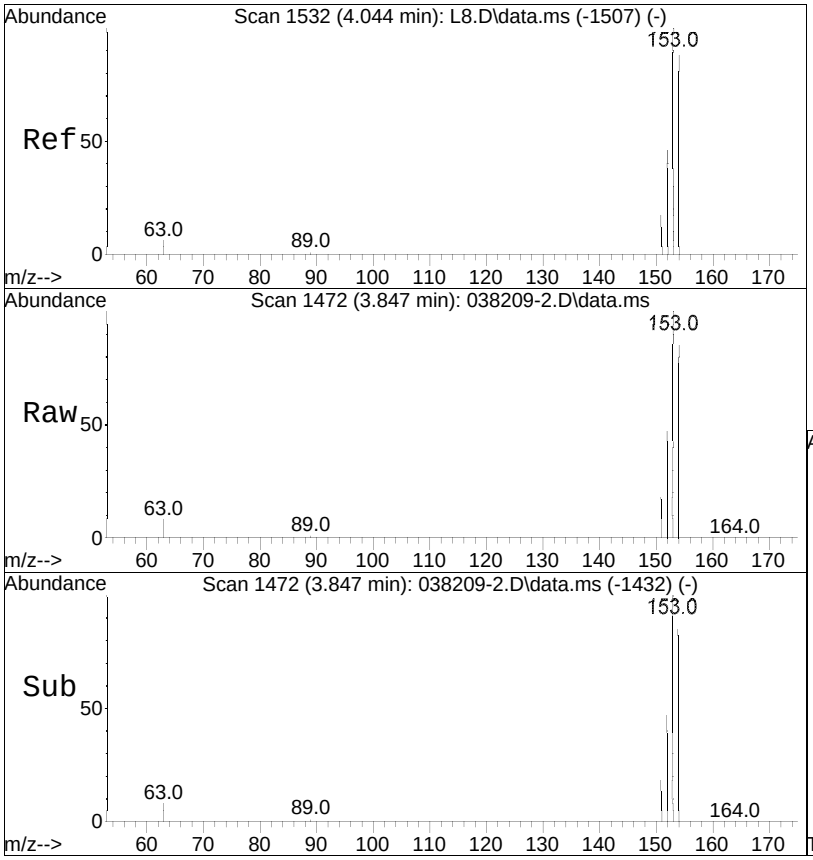


#17
Acenaphthylene
Concen: 1721.80 ng/ml
RT: 3.749 min Scan# 1422
Delta R.T. -0.000 min
Lab File: 038209-2.D
Acq: 11 Mar 2025 04:39 pm

Tgt Ion:152 Resp: 739397

Ion	Ratio	Lower	Upper
152	100		
151	20.2	15.9	23.9

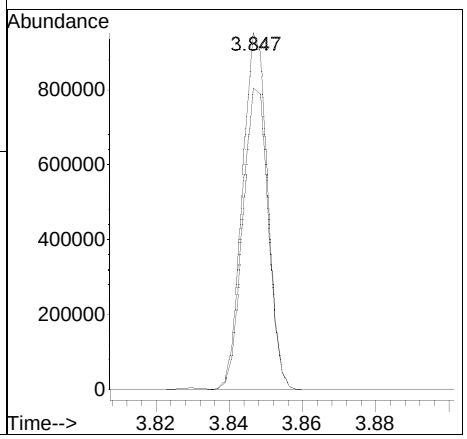


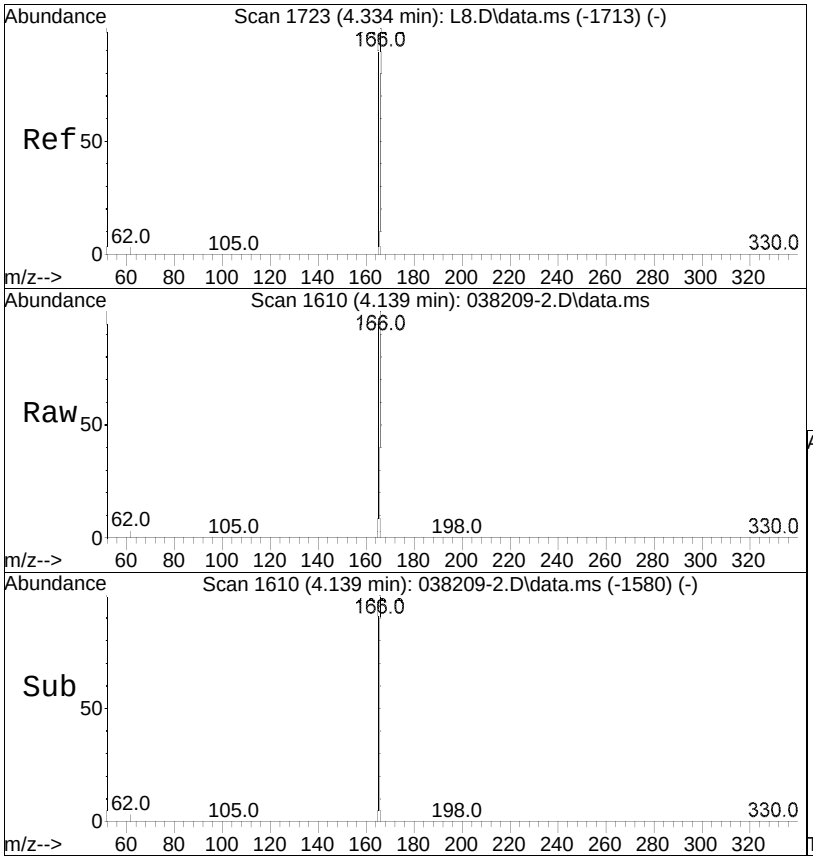


#19
Acenaphthene
Concen: 1891.97 ng/ml
RT: 3.847 min Scan# 1472
Delta R.T. -0.002 min
Lab File: 038209-2.D
Acq: 11 Mar 2025 04:39 pm

Tgt Ion:153 Resp: 450388

Ion	Ratio	Lower	Upper
153	100		
154	85.5	73.1	109.7

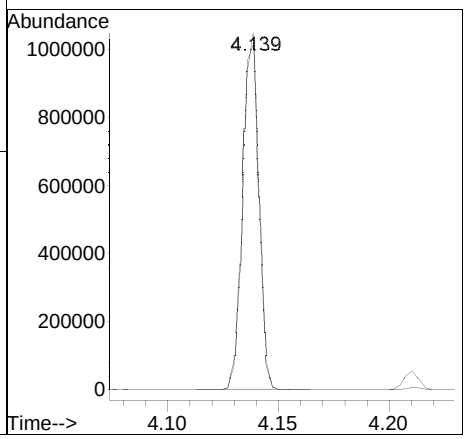


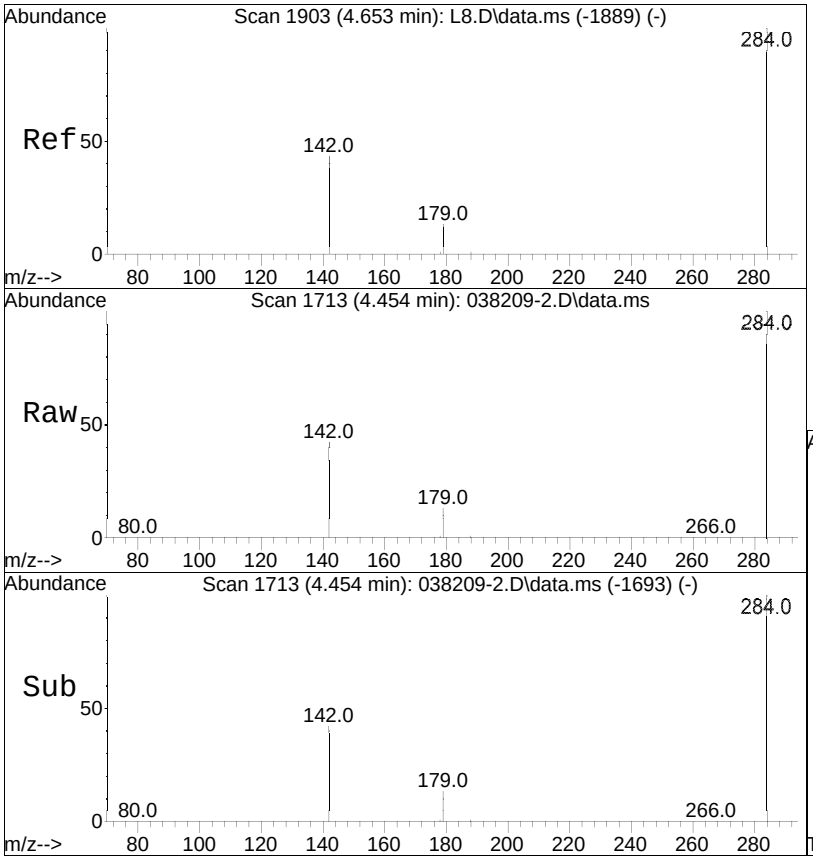


#21
Fluorene
Concen: 1936.65 ng/ml
RT: 4.139 min Scan# 1610
Delta R.T. -0.000 min
Lab File: 038209-2.D
Acq: 11 Mar 2025 04:39 pm

Tgt Ion:166 Resp: 529674

Ion	Ratio	Lower	Upper
166	100		
165	99.6	77.8	116.8

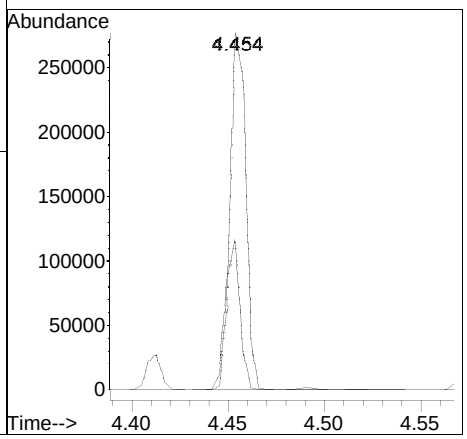


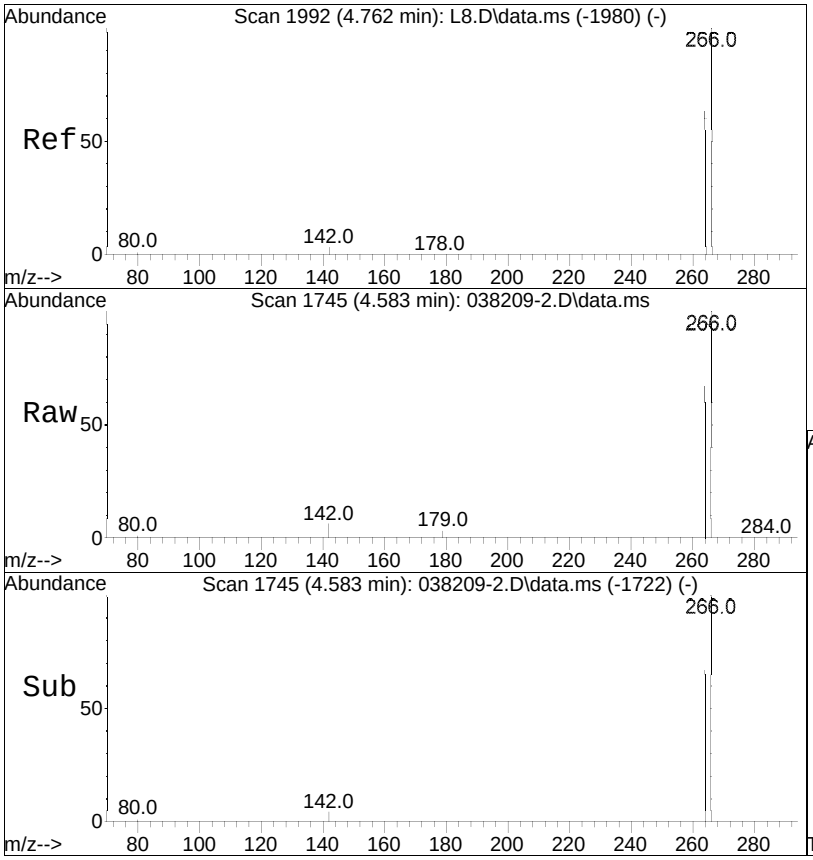


#25
Hexachlorobenzene
Concen: 2093.21 ng/ml
RT: 4.454 min Scan# 1713
Delta R.T. -0.004 min
Lab File: 038209-2.D
Acq: 11 Mar 2025 04:39 pm

Tgt Ion:284 Resp: 153115

Ion	Ratio	Lower	Upper
284	100		
142	39.0	33.8	50.6

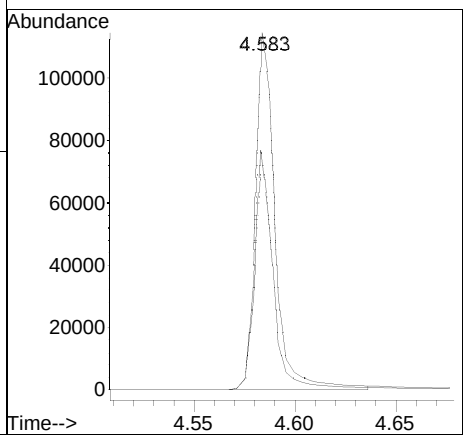


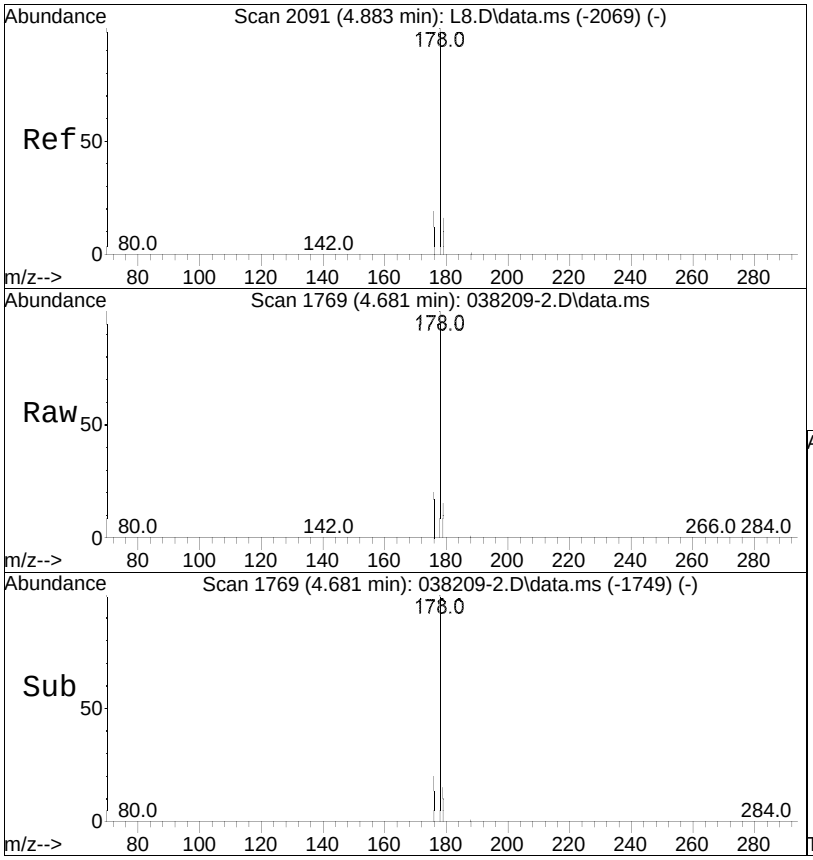


#26
Pentachlorophenol
Concen: 1947.98 ng/ml
RT: 4.583 min Scan# 1745
Delta R.T. 0.012 min
Lab File: 038209-2.D
Acq: 11 Mar 2025 04:39 pm

Tgt Ion:266 Resp: 75824

Ion	Ratio	Lower	Upper
266	100		
264	63.5	50.8	76.2

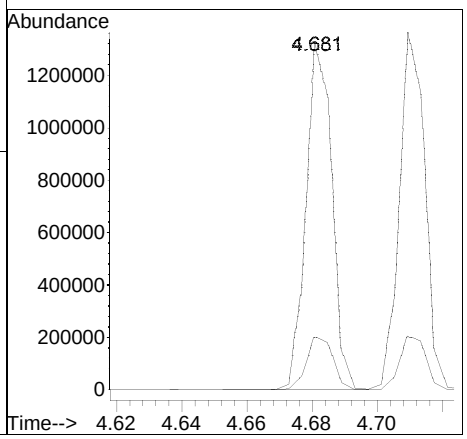


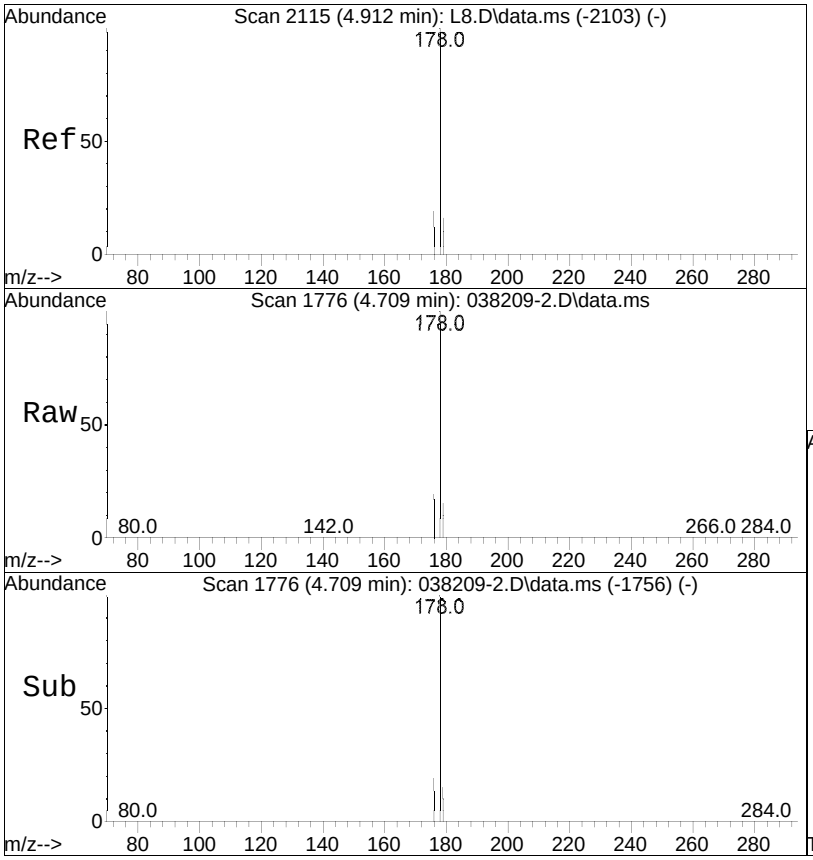


#27
Phenanthrene
Concen: 2012.61 ng/ml
RT: 4.681 min Scan# 1769
Delta R.T. -0.000 min
Lab File: 038209-2.D
Acq: 11 Mar 2025 04:39 pm

Tgt Ion:178 Resp: 730253

Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.8	19.2

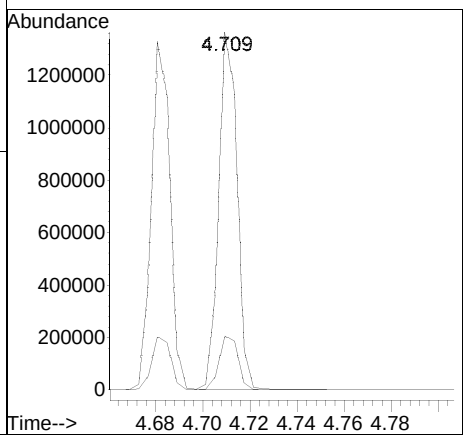


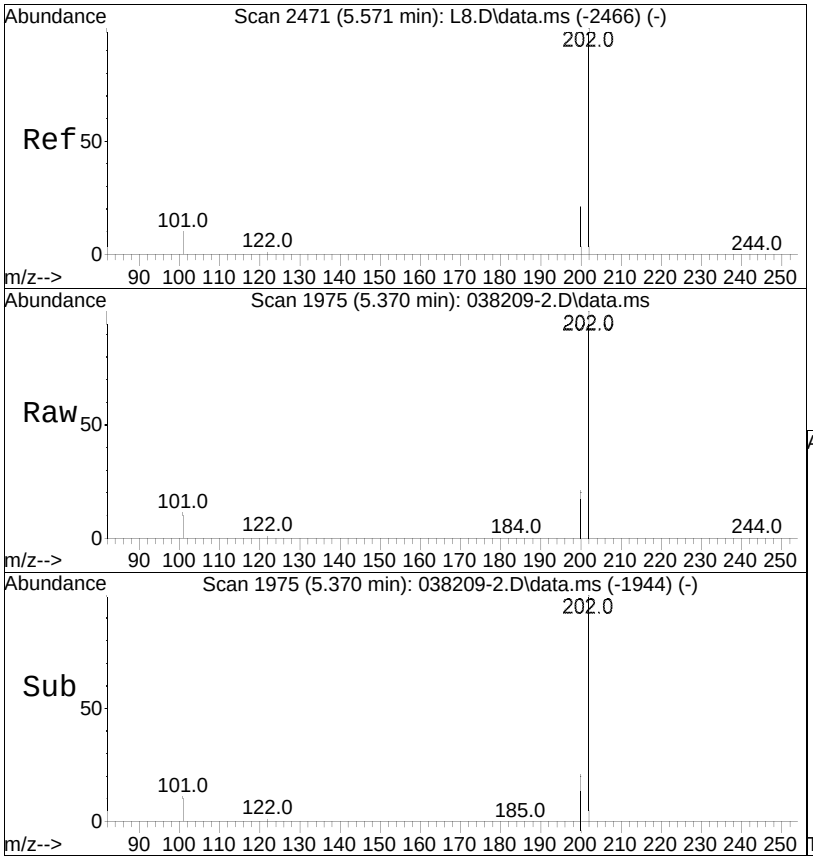


#28
Anthracene
Concen: 2036.35 ng/ml
RT: 4.709 min Scan# 1776
Delta R.T. -0.000 min
Lab File: 038209-2.D
Acq: 11 Mar 2025 04:39 pm

Tgt Ion:178 Resp: 740794

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.6	18.8

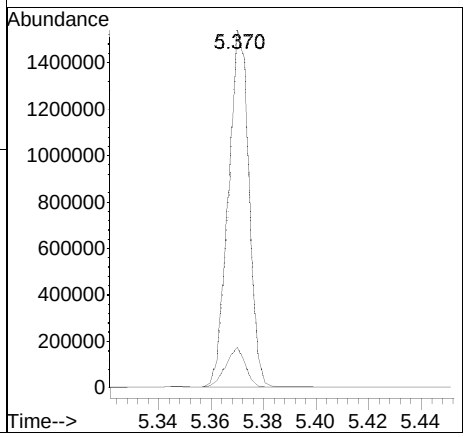


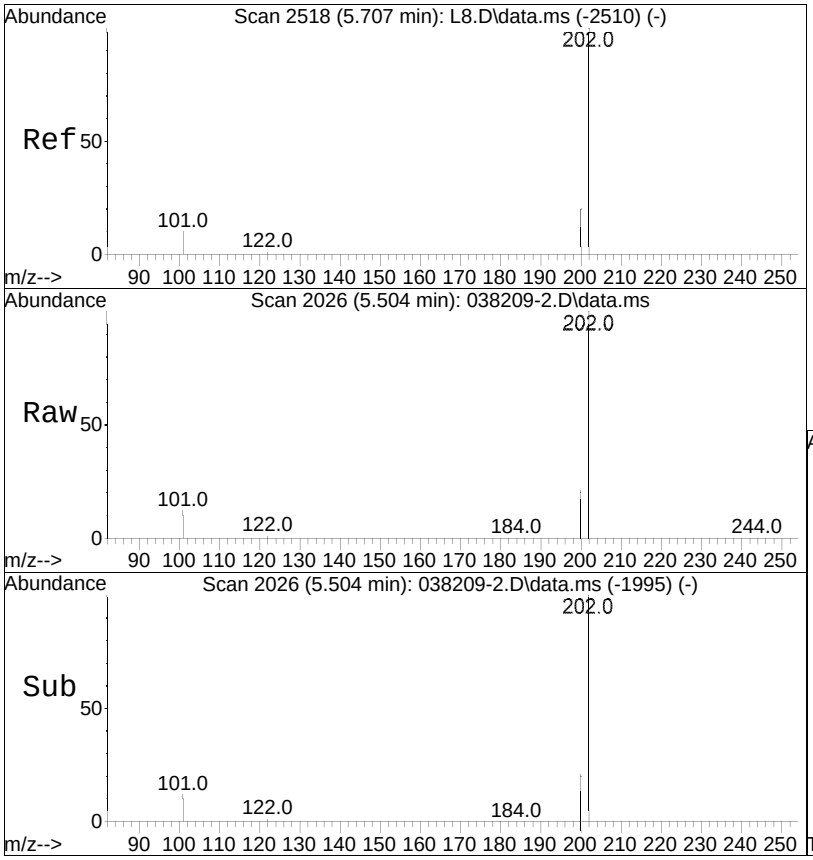


#29
Fluoranthene
Concen: 1826.04 ng/ml
RT: 5.370 min Scan# 1975
Delta R.T. -0.000 min
Lab File: 038209-2.D
Acq: 11 Mar 2025 04:39 pm

Tgt Ion:202 Resp: 828926

Ion	Ratio	Lower	Upper
202	100		
101	10.9	8.2	12.2

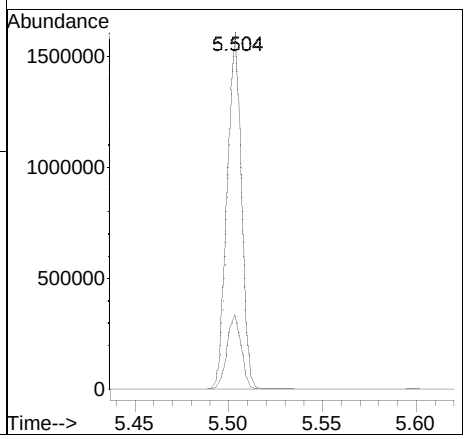


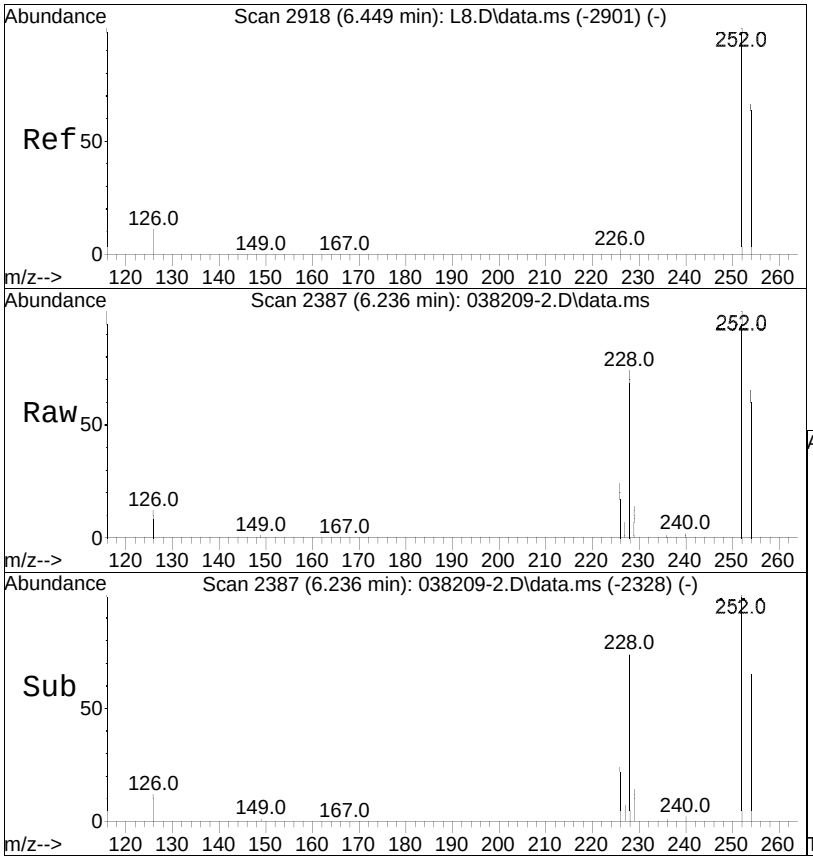


#30
Pyrene
Concen: 1787.92 ng/ml
RT: 5.504 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 038209-2.D
Acq: 11 Mar 2025 04:39 pm

Tgt Ion:202 Resp: 837748

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.9	25.3

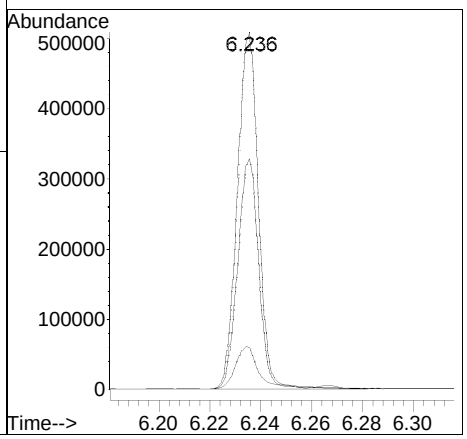


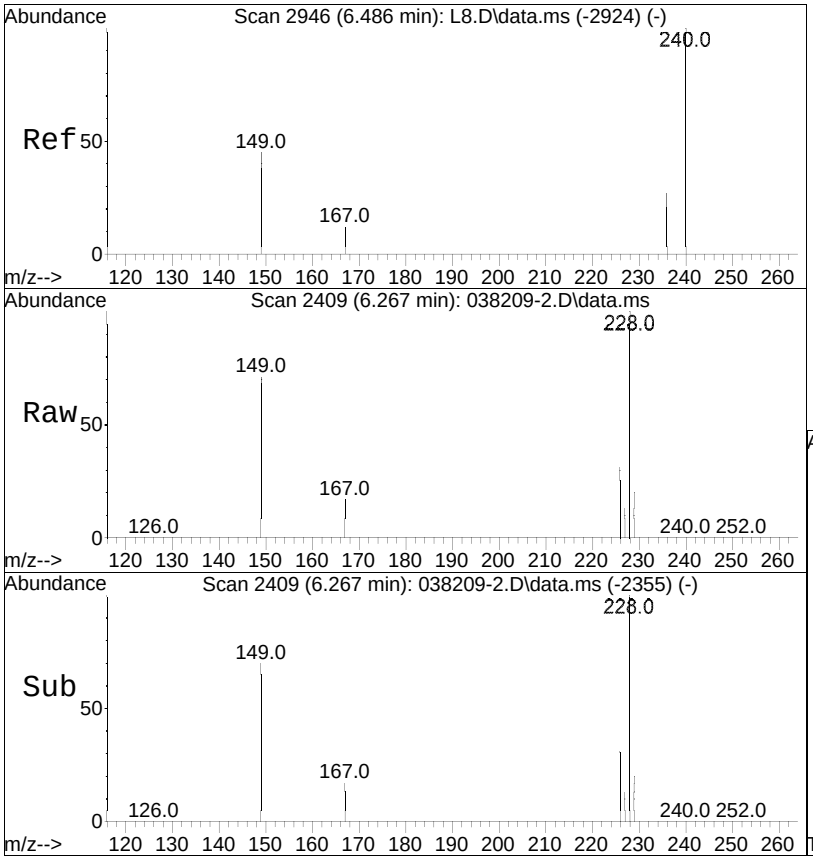


#35
3,3'-Dichlorobenzidine
Concen: 2305.77 ng/ml
RT: 6.236 min Scan# 2387
Delta R.T. 0.003 min
Lab File: 038209-2.D
Acq: 11 Mar 2025 04:39 pm

Tgt Ion:252 Resp: 288404

Ion	Ratio	Lower	Upper
252	100		
126	13.3	8.6	13.0#
254	64.6	51.8	77.8

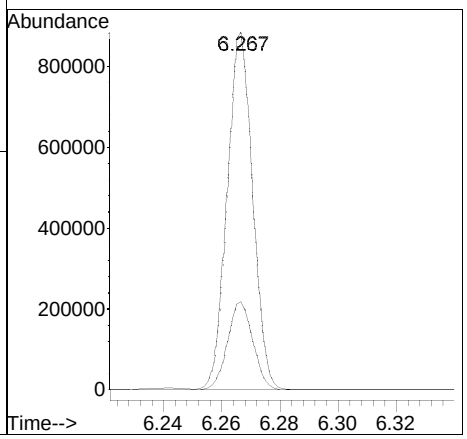


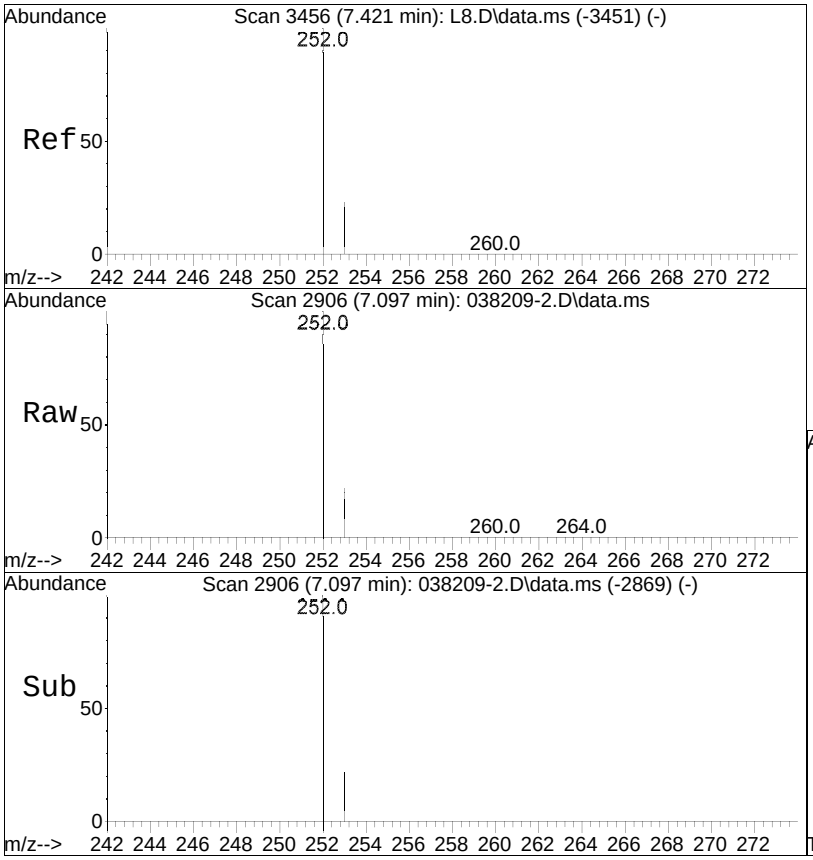


#37
Bis(2-ethylhexyl)phthalate
Concen: 3031.86 ng/ml
RT: 6.267 min Scan# 2409
Delta R.T. -0.004 min
Lab File: 038209-2.D
Acq: 11 Mar 2025 04:39 pm

Tgt Ion:149 Resp: 530663

Ion	Ratio	Lower	Upper
149	100		
167	24.6	20.7	31.1

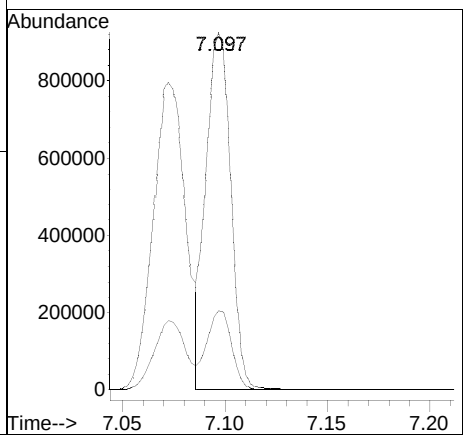


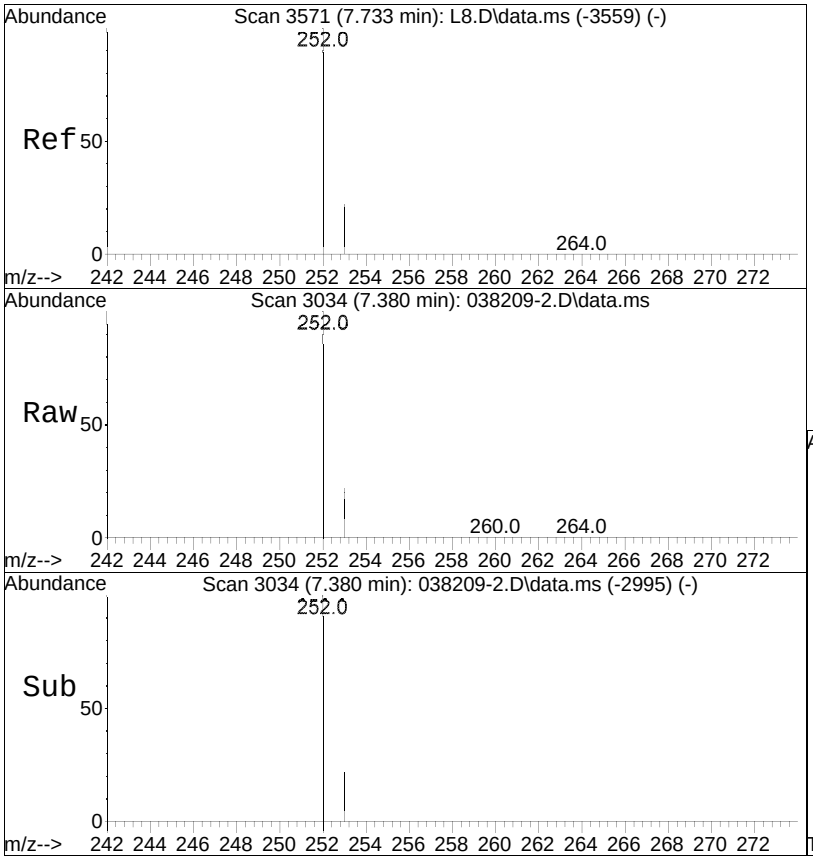


#40
Benzo[k]fluoranthene
Concen: 1994.79 ng/ml
RT: 7.097 min Scan# 2906
Delta R.T. 0.002 min
Lab File: 038209-2.D
Acq: 11 Mar 2025 04:39 pm

Tgt Ion:252 Resp: 774116

Ion	Ratio	Lower	Upper
252	100		
253	22.2	18.2	27.2

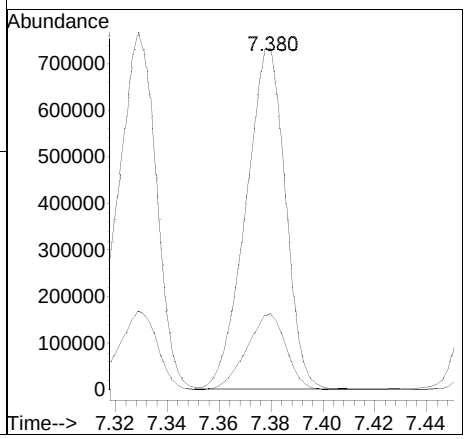


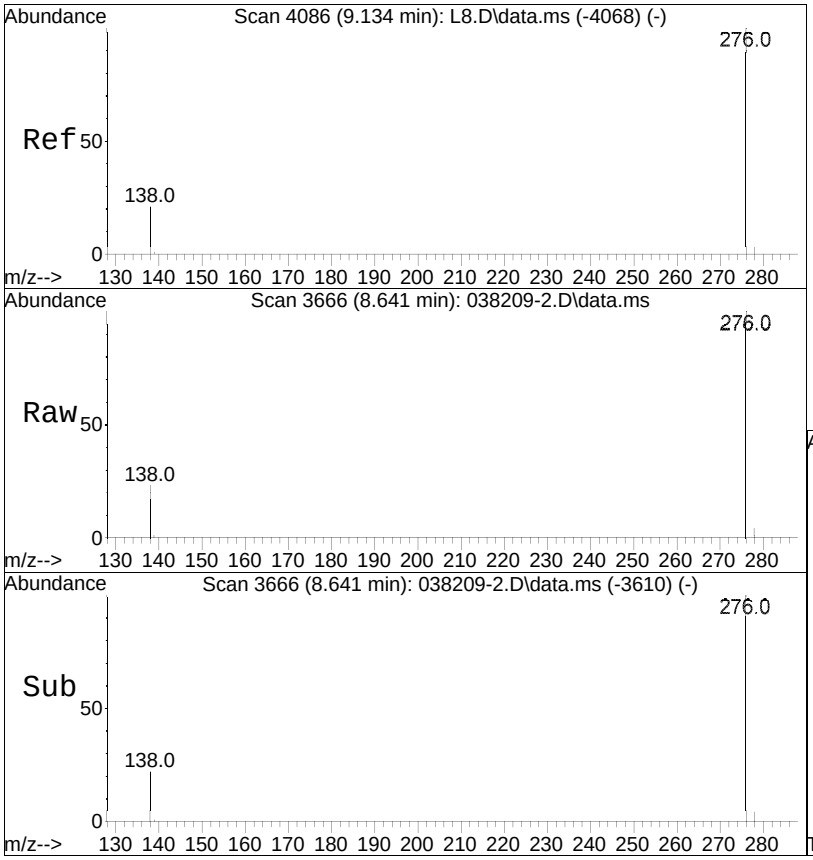


#41
Benzo[a]pyrene
Concen: 2317.96 ng/ml
RT: 7.380 min Scan# 3034
Delta R.T. 0.007 min
Lab File: 038209-2.D
Acq: 11 Mar 2025 04:39 pm

Tgt Ion:252 Resp: 774006

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.9	26.9

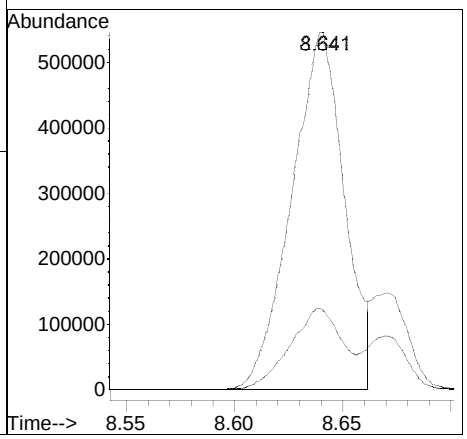


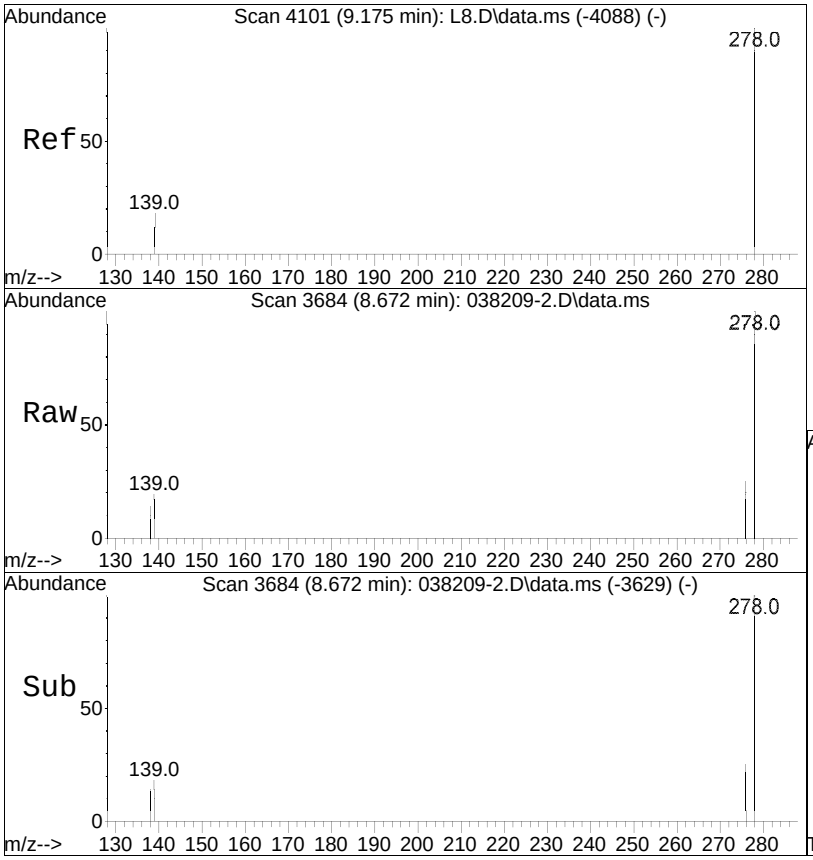


#42
Indeno[1,2,3-cd]pyrene
Concen: 2843.42 ng/ml
RT: 8.641 min Scan# 3666
Delta R.T. 0.017 min
Lab File: 038209-2.D
Acq: 11 Mar 2025 04:39 pm

Tgt Ion:276 Resp: 919196

Ion	Ratio	Lower	Upper
276	100		
138	22.5	16.9	25.3

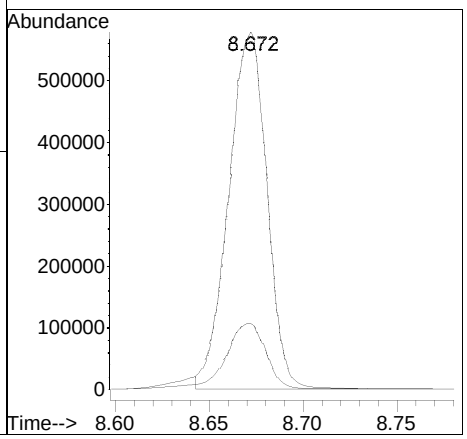


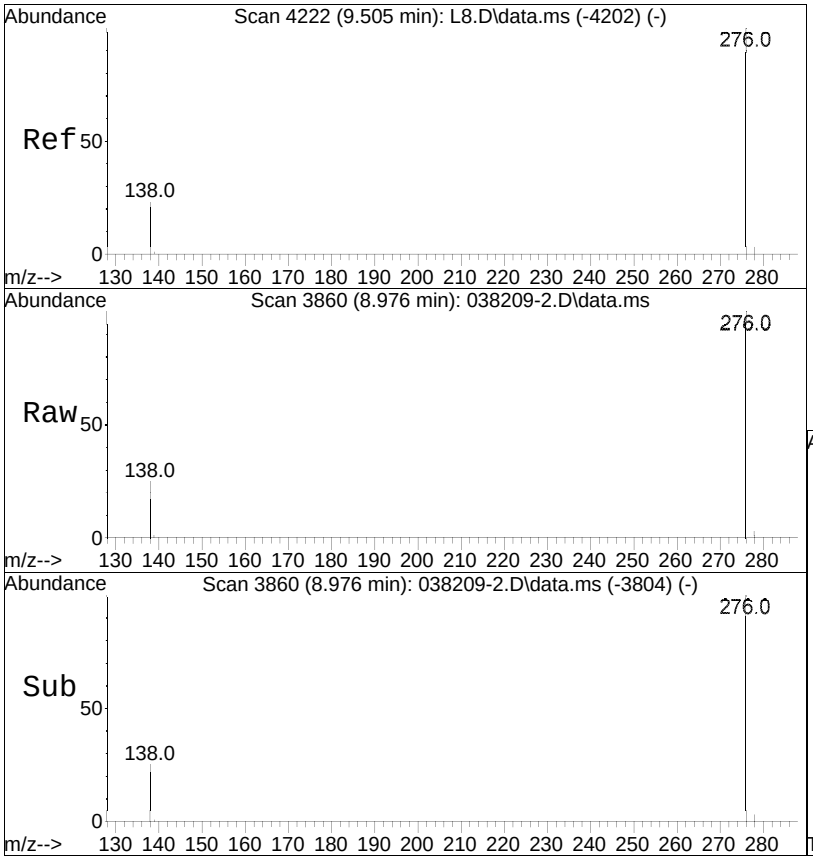


#43
Dibenzo[a,h]anthracene
Concen: 2719.01 ng/ml M6
RT: 8.672 min Scan# 3684
Delta R.T. 0.016 min
Lab File: 038209-2.D
Acq: 11 Mar 2025 04:39 pm

Tgt Ion:278 Resp: 815411

Ion	Ratio	Lower	Upper
278	100		
139	19.6	14.6	22.0

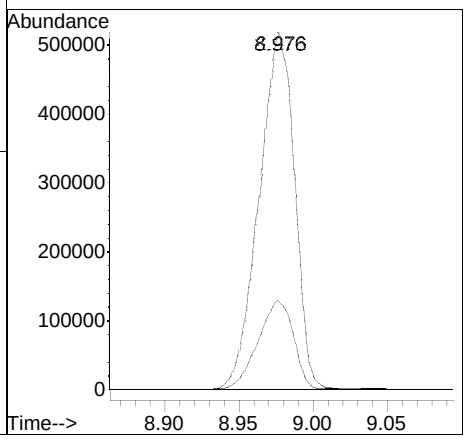




#44
Benzo[g,h,i]perylene
Concen: 2766.96 ng/ml
RT: 8.976 min Scan# 3860
Delta R.T. 0.017 min
Lab File: 038209-2.D
Acq: 11 Mar 2025 04:39 pm

Tgt Ion:276 Resp: 851348

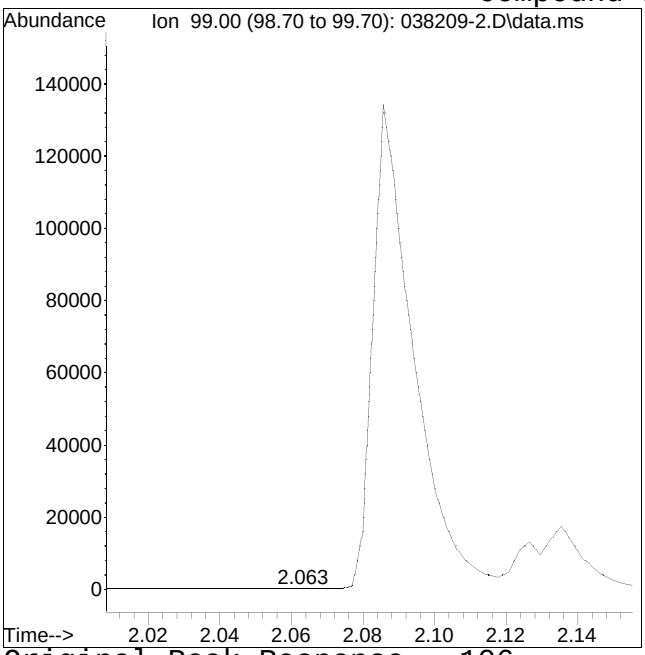
Ion	Ratio	Lower	Upper
276	100		
138	25.0	18.6	28.0



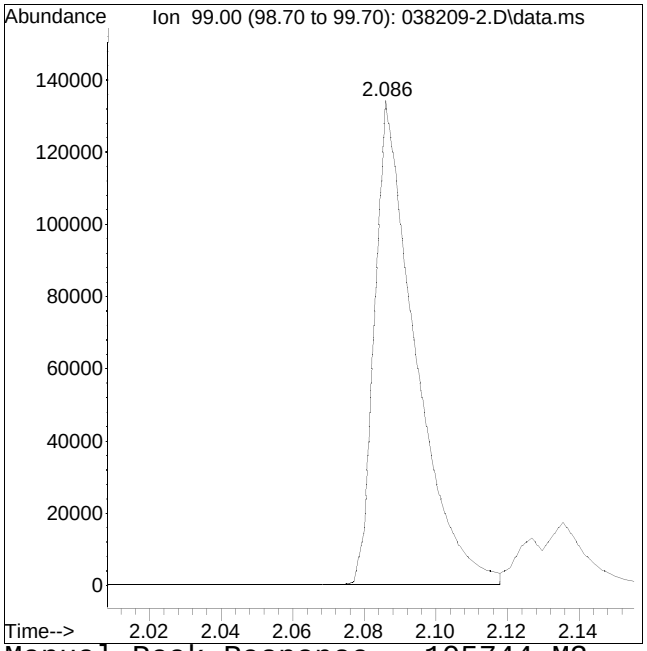
Manual Integration Report

Data Path : I:\8270SIM\sv119\250311bRVQMethod : SIM-RVT_241229_sv119.M
Data File : 038209-2.D Operator : sv119:rp
Date Inj'd : 3/11/2025 4:39 pm Instrument : SV119
Sample : WG2038209-2,32,,kmh Quant Date : 3/11/2025 4:53 pm

Compound #4: Phenol-d6



Original Peak Response = 106



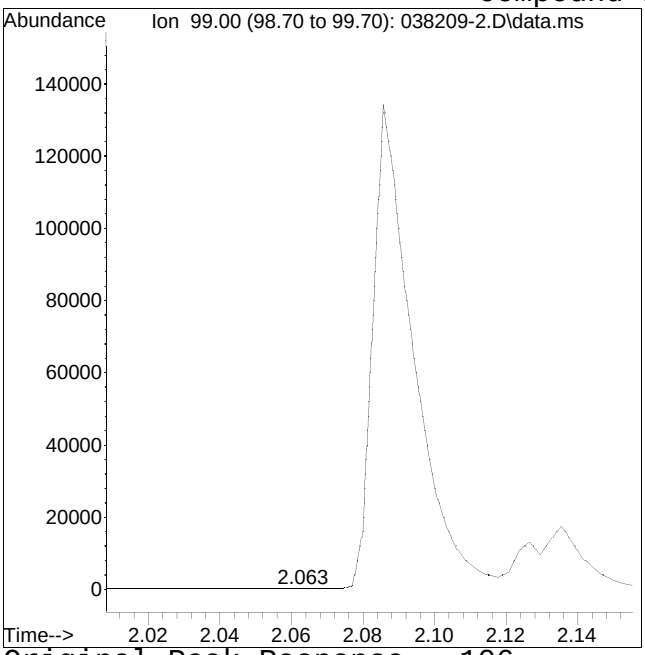
Manual Peak Response = 105744 M3

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

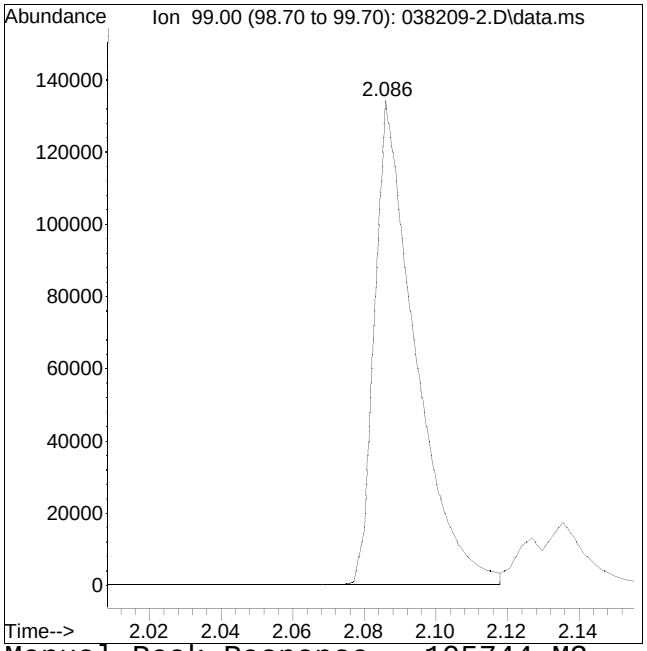
Manual Integration Report

Data Path : I:\8270SIM\sv119\250311bRVQMethod : SIM-RVT_241229_sv119.M
Data File : 038209-2.D Operator : sv119:rp
Date Inj'd : 3/11/2025 4:39 pm Instrument : SV119
Sample : WG2038209-2,32,,kmh Quant Date : 3/11/2025 4:53 pm

Compound #4: Phenol-d6



Original Peak Response = 106



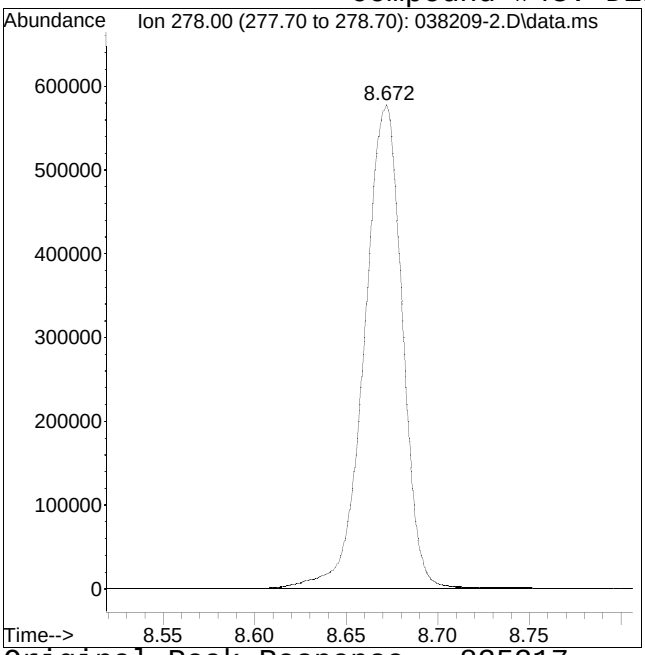
Manual Peak Response = 105744 M3

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

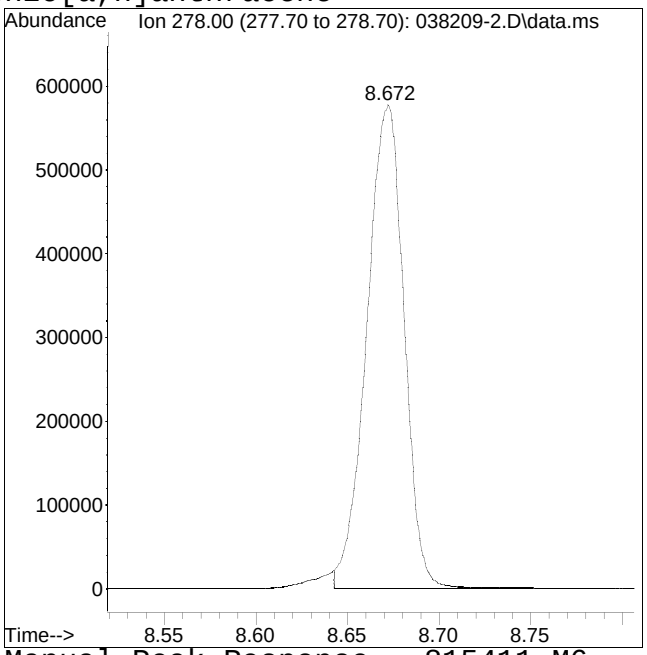
Manual Integration Report

Data Path : I:\8270SIM\sv119\250311bRVQMethod : SIM-RVT_241229_sv119.M
Data File : 038209-2.D Operator : sv119:rp
Date Inj'd : 3/11/2025 4:39 pm Instrument : SV119
Sample : WG2038209-2,32,,kmh Quant Date : 3/11/2025 4:53 pm

Compound #43: Dibenzo[a,h]anthracene



Original Peak Response = 835317



Manual Peak Response = 815411 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250311bRVT\
Data File : 038209-3.D
Acq On : 11 Mar 2025 04:56 pm
Operator : sv119:rp
Sample : WG2038209-3,32,,kmh
Misc : WG2039073,WG2038209,ical21826
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Mar 11 18:44:44 2025
Quant Method : I:\8270sim\sv119\250311bRVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 11 12:33:32 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250311bRVT\ccv0311b.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.214	152	344875	4000.000	ng/ml	0.00
Standard Area 1 = 325676			Recovery = 105.90%			
9) Naphthalene-d8	2.862	136	1342455	4000.000	ng/ml	0.00
Standard Area 1 = 1225929			Recovery = 109.51%			
18) Acenaphthene-d10	3.829	164	716499	4000.000	ng/ml	0.00
Standard Area 1 = 688151			Recovery = 104.12%			
23) Phenanthrene-d10	4.669	188	1260790	4000.000	ng/ml	0.00
Standard Area 1 = 1410915			Recovery = 89.36%			
33) Chrysene-d12	6.250	240	991344	4000.000	ng/ml	0.00
Standard Area 1 = 1283861			Recovery = 77.22%			
38) Perylene-d12	7.439	264	1213055	4000.000	ng/ml	0.00
Standard Area 1 = 1327611			Recovery = 91.37%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.691	112	113187	1224.899	ng/ml	0.04
Spiked Amount 2000.000	Range 15 - 110		Recovery = 61.24%			
4) Phenol-d6	2.086	99	99225M3	860.337	ng/ml	0.05
Spiked Amount 2000.000	Range 15 - 110		Recovery = 43.02%			
8) Nitrobenzene-d5	2.492	82	113746	1017.041	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 101.70%			
14) 2-Fluorobiphenyl	3.451	172	286402	874.908	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 87.49%			
22) 2,4,6-Tribromophenol	4.282	330	60947	1948.961	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 97.45%			
32) 4-Terphenyl-d14	5.598	244	250904	802.193	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 80.22%			
Target Compounds						Qvalue
5) Bis(2-chloroethyl)ether	2.086	93	227542	2137.516	ng/ml	97
7) Hexachloroethane	2.460	117	48473	1084.382	ng/ml	96
10) Naphthalene	2.874	128	585795	1564.581	ng/ml	100
11) Hexachlorobutadiene	2.941	225	77750	1180.003	ng/ml	100
12) 2-Methylnaphthalene	3.247	142	375408	1434.813	ng/ml	99
15) 2-Chloronaphthalene	3.518	162	420459	1555.971	ng/ml#	85
17) Acenaphthylene	3.749	152	732777	1751.055	ng/ml	99
19) Acenaphthene	3.846	153	435299	1821.608	ng/ml	94
21) Fluorene	4.139	166	529361	1928.118	ng/ml	97

Data Path : I:\8270SIM\sv119\250311bRVT\
Data File : 038209-3.D
Acq On : 11 Mar 2025 04:56 pm
Operator : sv119:rp
Sample : WG2038209-3,32,,kmh
Misc : WG2039073,WG2038209,ical21826
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Mar 11 18:44:44 2025
Quant Method : I:\8270sim\sv119\250311bRVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 11 12:33:32 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250311bRVT\ccv0311b.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Hexachlorobenzene	4.454	284	151169	2034.106	ng/ml	95
26) Pentachlorophenol	4.583	266	76925	1945.450	ng/ml	100
27) Phenanthrene	4.681	178	742093	2013.078	ng/ml	99
28) Anthracene	4.709	178	747214	2021.697	ng/ml	100
29) Fluoranthene	5.370	202	806920	1749.607	ng/ml	98
30) Pyrene	5.503	202	813296	1708.439	ng/ml	100
34) Benzo[a]anthracene	6.243	228	758729	2169.703	ng/ml	100
36) Chrysene	6.265	228	695001	2036.161	ng/ml	100
39) Benzo[b]fluoranthene	7.070	252	842740	2096.222	ng/ml	99
40) Benzo[k]fluoranthene	7.095	252	789051	1990.270	ng/ml	99
41) Benzo[a]pyrene	7.375	252	775984	2274.736	ng/ml	99
42) Indeno[1,2,3-cd]pyrene	8.637	276	896257	2713.819	ng/ml	96
43) Dibenzo[a,h]anthracene	8.670	278	799979M6	2611.130	ng/ml	
44) Benzo[g,h,i]perylene	8.975	276	831257	2644.521	ng/ml	96

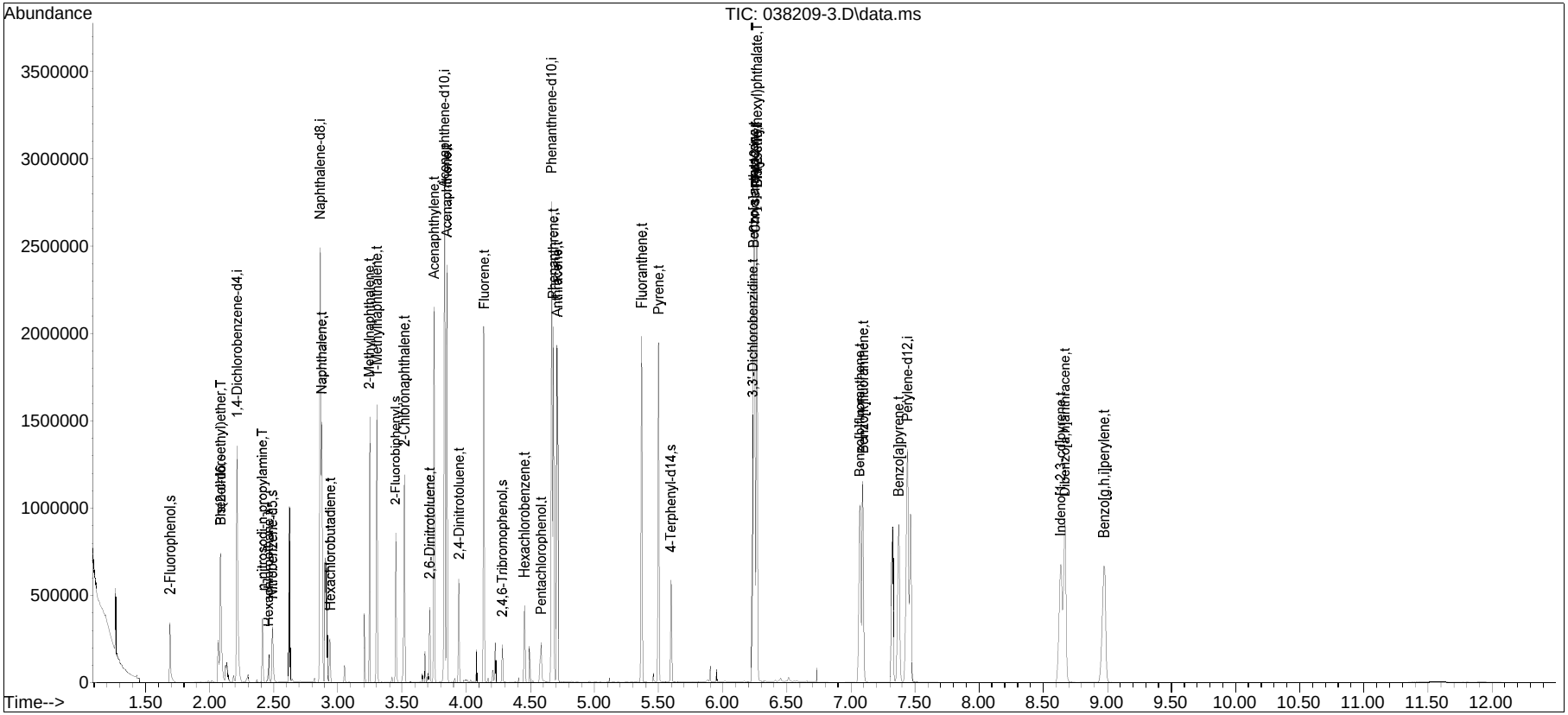
(#) = qualifier out of range (m) = manual integration (+) = signals summed

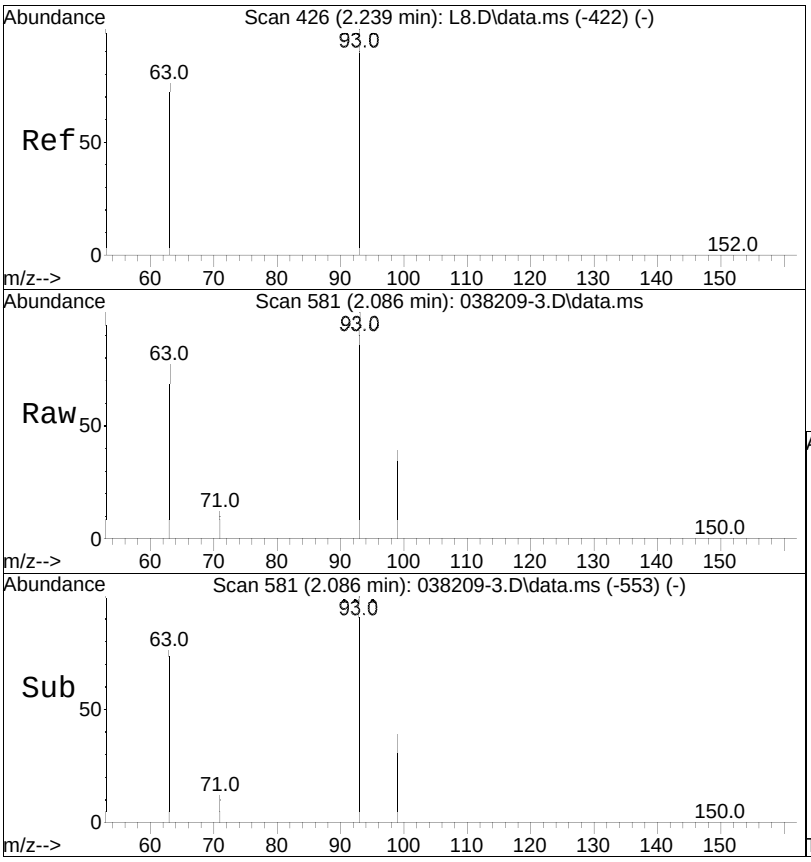
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250311bRVT\
Data File : 038209-3.D
Acq On : 11 Mar 2025 04:56 pm
Operator : sv119:rp
Sample : WG2038209-3,32,,kmh
Misc : WG2039073,WG2038209,ical21826
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Mar 11 18:44:44 2025
Quant Method : I:\8270sim\sv119\250311bRVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 11 12:33:32 2025
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedT\ccv0311b.D•

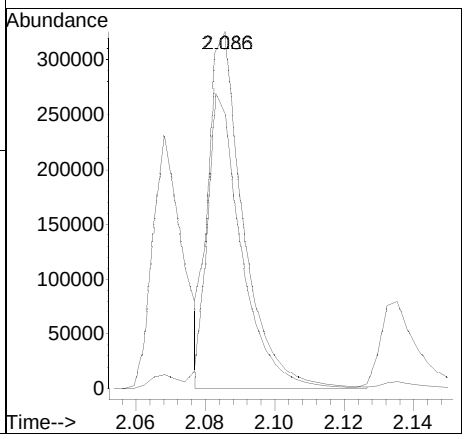


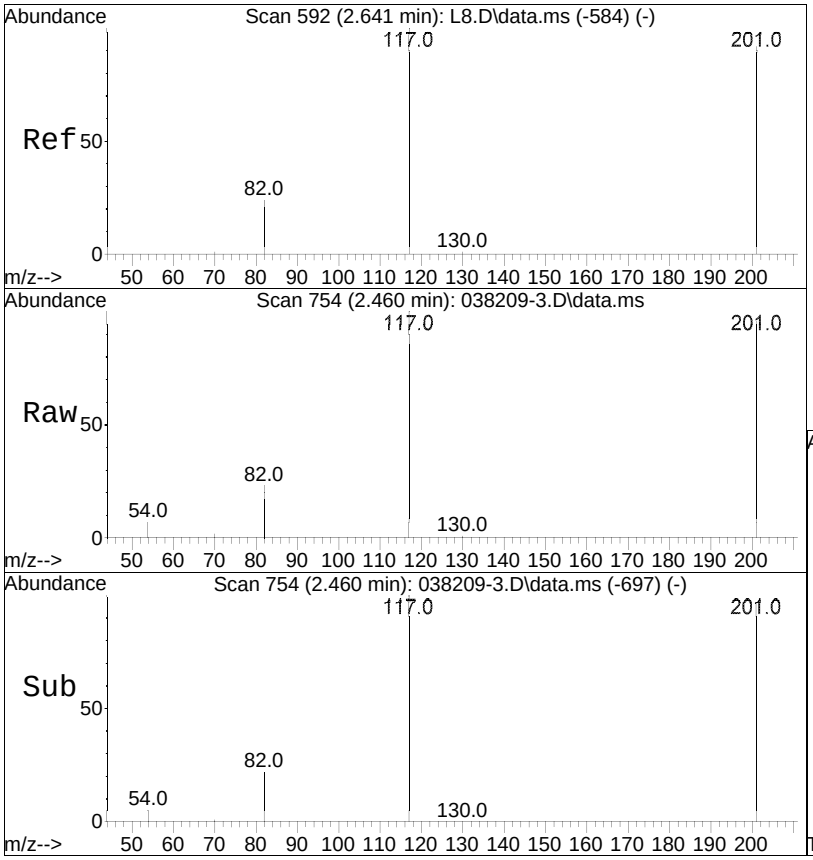


#5
Bis(2-chloroethyl)ether
Concen: 2137.52 ng/ml
RT: 2.086 min Scan# 581
Delta R.T. 0.003 min
Lab File: 038209-3.D
Acq: 11 Mar 2025 04:56 pm

Tgt Ion: 93 Resp: 227542

Ion	Ratio	Lower	Upper
93	100		
63	79.9	61.7	92.5

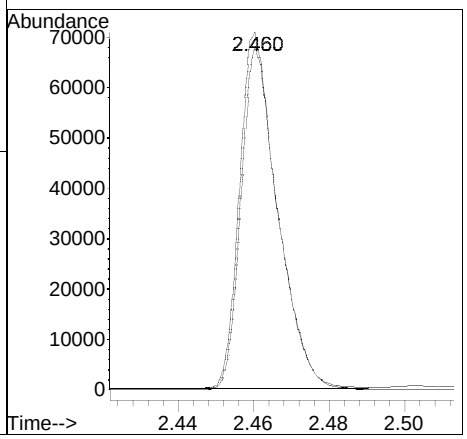


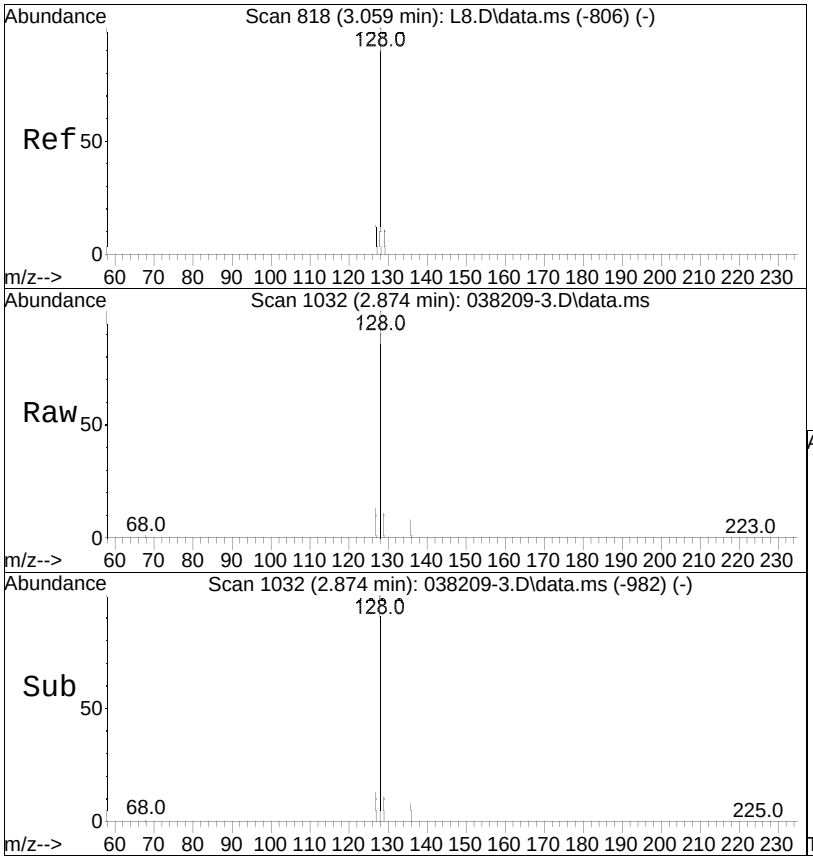


#7
Hexachloroethane
Concen: 1084.38 ng/ml
RT: 2.460 min Scan# 754
Delta R.T. -0.000 min
Lab File: 038209-3.D
Acq: 11 Mar 2025 04:56 pm

Tgt Ion:117 Resp: 48473

Ion	Ratio	Lower	Upper
117	100		
201	94.9	79.3	118.9

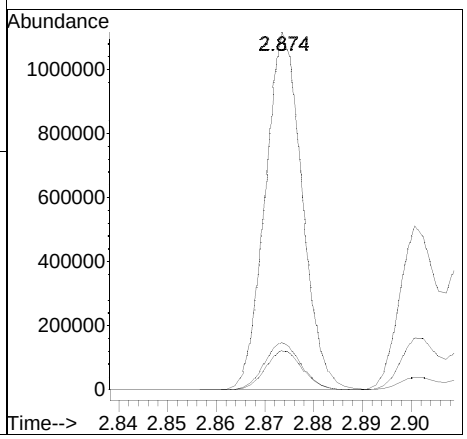


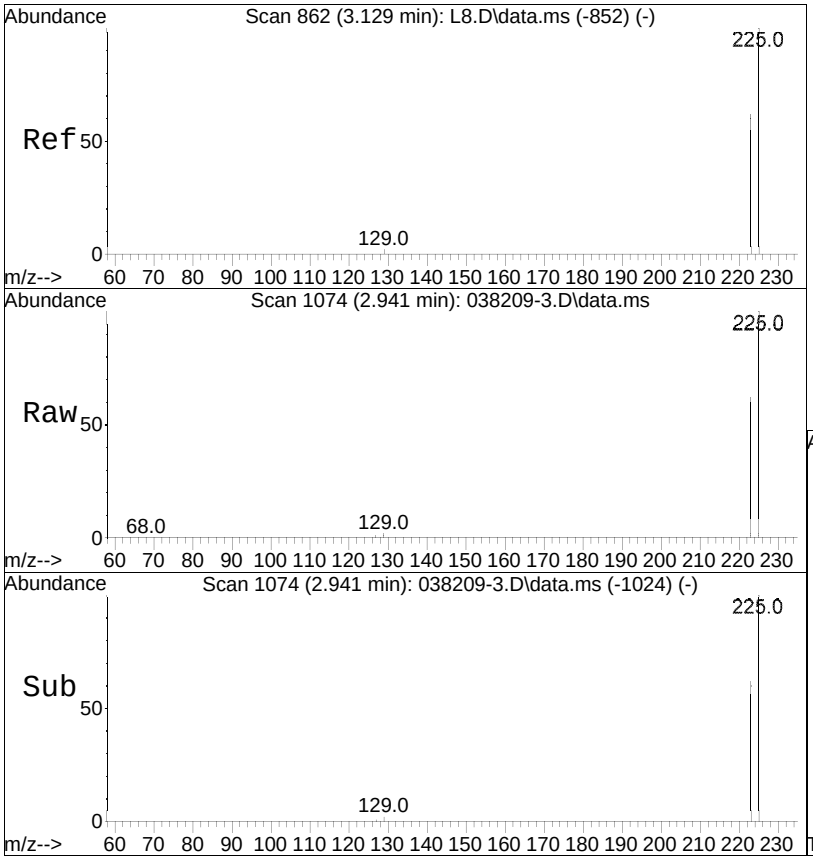


#10
Naphthalene
Concen: 1564.58 ng/ml
RT: 2.874 min Scan# 1032
Delta R.T. -0.000 min
Lab File: 038209-3.D
Acq: 11 Mar 2025 04:56 pm

Tgt Ion:128 Resp: 585795

Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.0	13.6
127	13.3	10.5	15.7

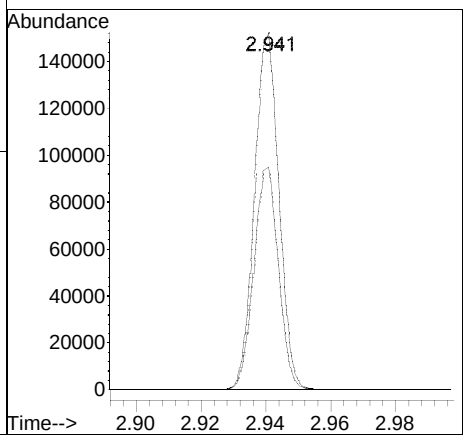


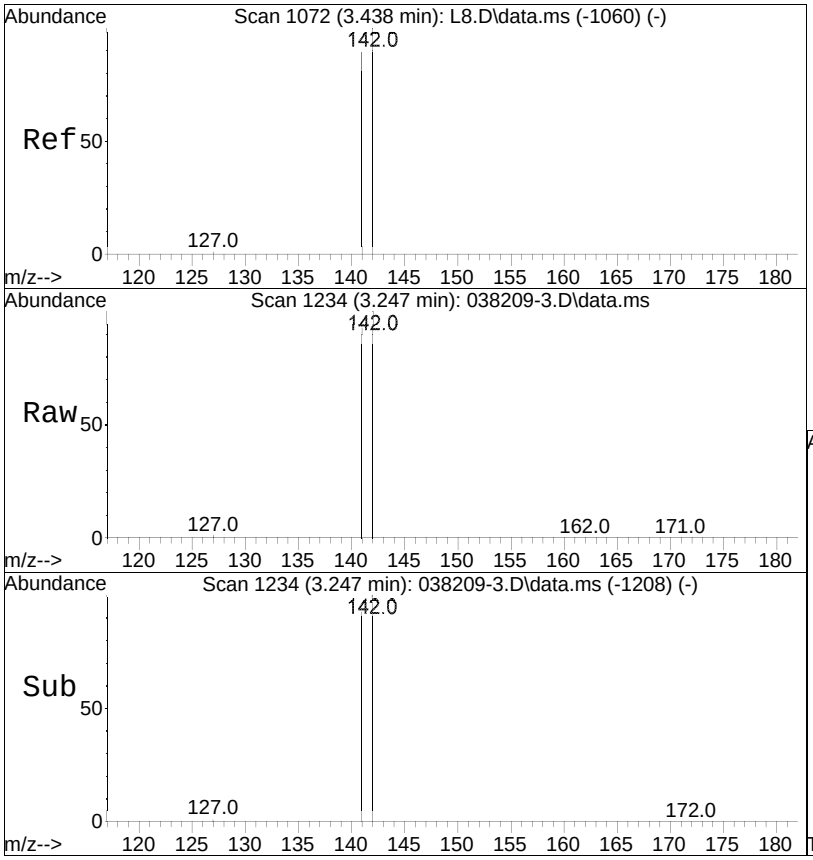


#11
Hexachlorobutadiene
Concen: 1180.00 ng/ml
RT: 2.941 min Scan# 1074
Delta R.T. -0.000 min
Lab File: 038209-3.D
Acq: 11 Mar 2025 04:56 pm

Tgt Ion:225 Resp: 77750

Ion	Ratio	Lower	Upper
225	100		
223	62.9	50.4	75.6

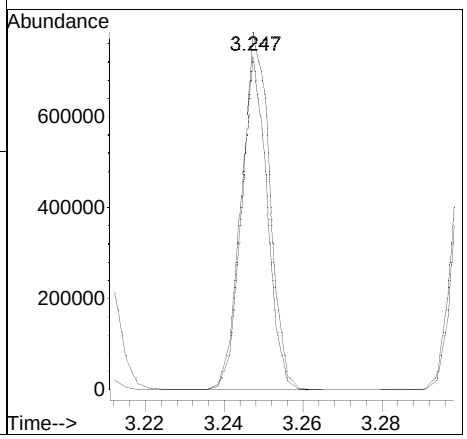


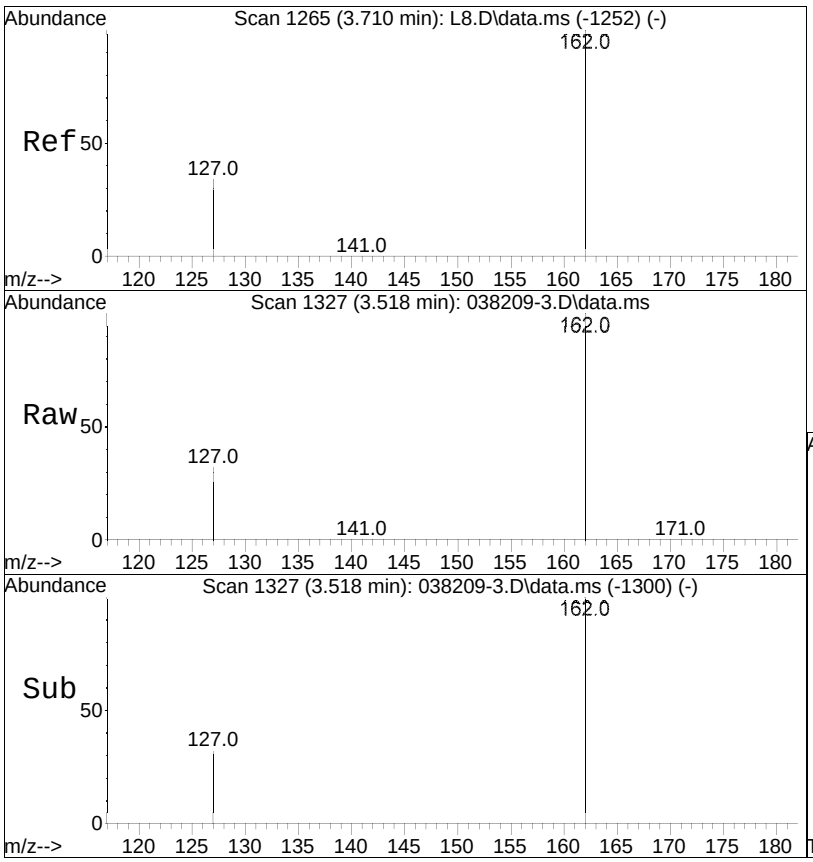


#12
2-Methylnaphthalene
Concen: 1434.81 ng/ml
RT: 3.247 min Scan# 1234
Delta R.T. -0.003 min
Lab File: 038209-3.D
Acq: 11 Mar 2025 04:56 pm

Tgt Ion:142 Resp: 375408

Ion	Ratio	Lower	Upper
142	100		
141	90.3	71.3	106.9

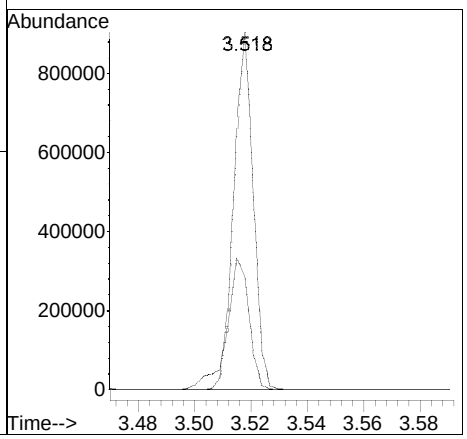


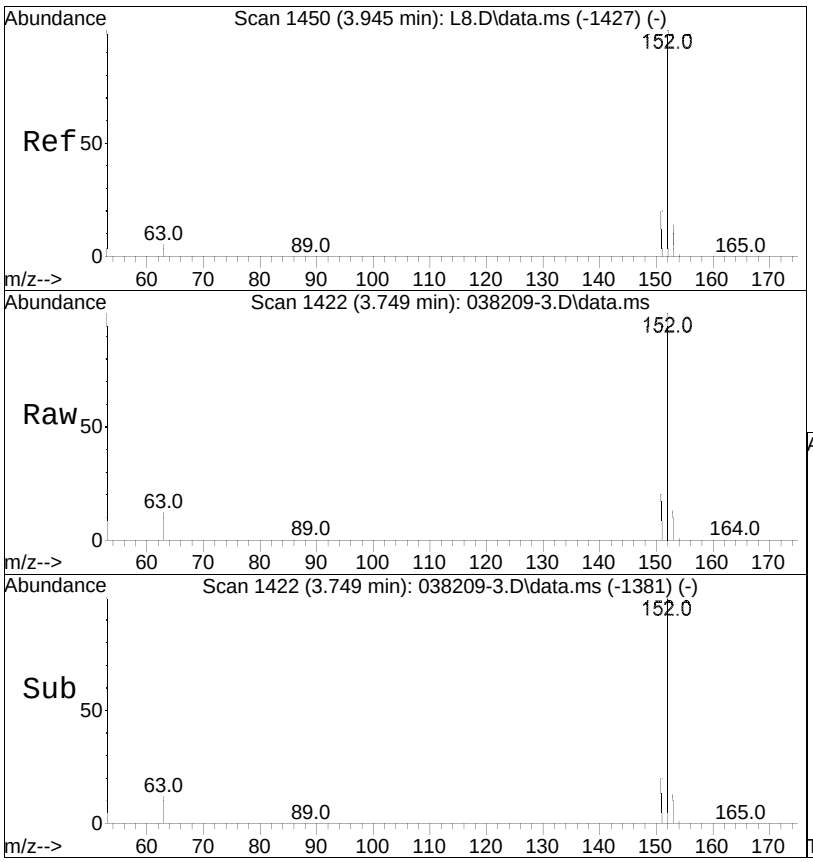


#15
2-Chloronaphthalene
Concen: 1555.97 ng/ml
RT: 3.518 min Scan# 1327
Delta R.T. -0.000 min
Lab File: 038209-3.D
Acq: 11 Mar 2025 04:56 pm

Tgt Ion:162 Resp: 420459

Ion	Ratio	Lower	Upper
162	100		
127	42.7	27.4	41.0#

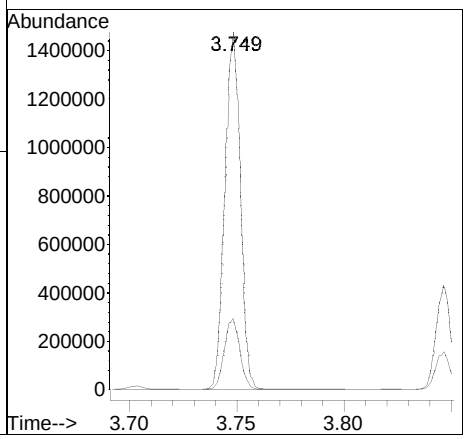


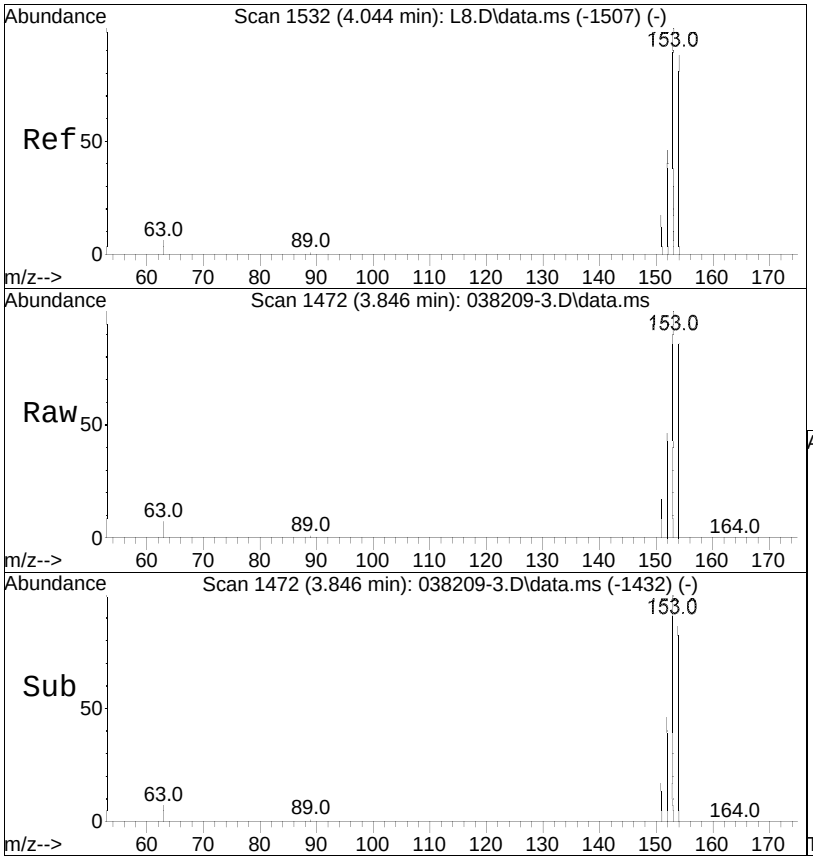


#17
Acenaphthylene
Concen: 1751.05 ng/ml
RT: 3.749 min Scan# 1422
Delta R.T. -0.000 min
Lab File: 038209-3.D
Acq: 11 Mar 2025 04:56 pm

Tgt Ion:152 Resp: 732777

Ion	Ratio	Lower	Upper
152	100		
151	20.2	15.9	23.9

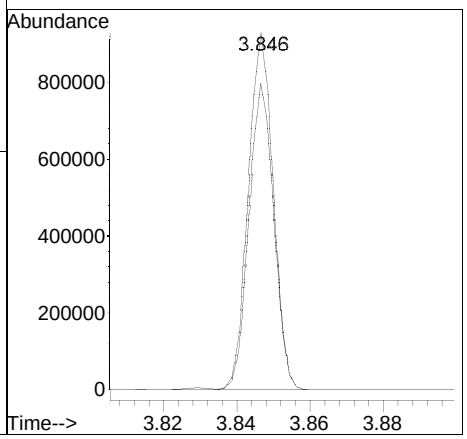


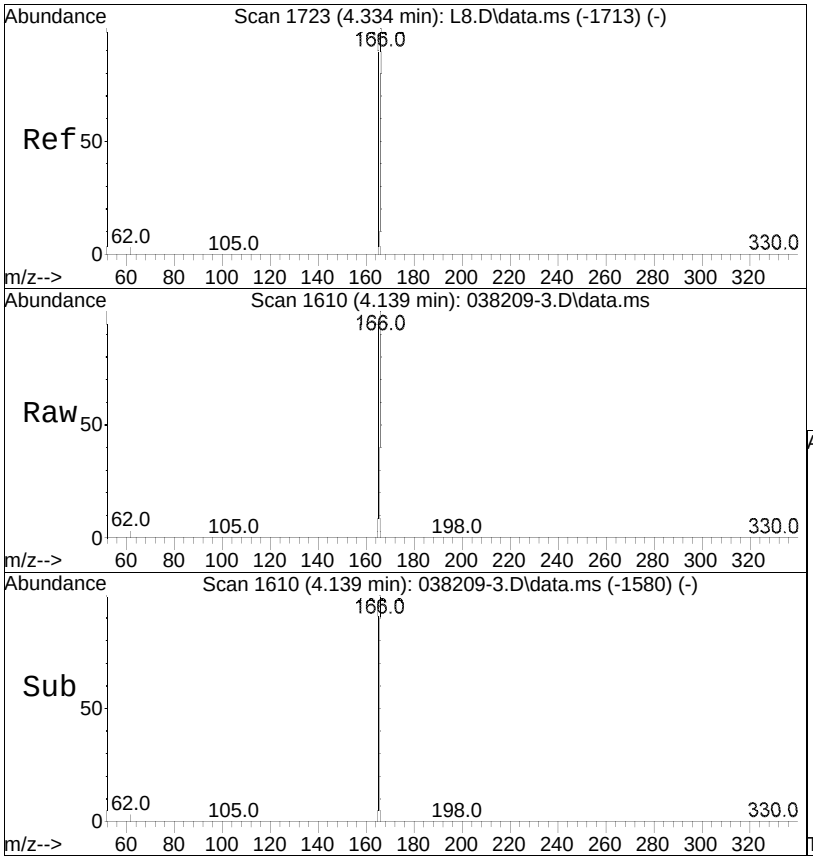


#19
Acenaphthene
Concen: 1821.61 ng/ml
RT: 3.846 min Scan# 1472
Delta R.T. -0.002 min
Lab File: 038209-3.D
Acq: 11 Mar 2025 04:56 pm

Tgt Ion:153 Resp: 435299

Ion	Ratio	Lower	Upper
153	100		
154	85.6	73.1	109.7

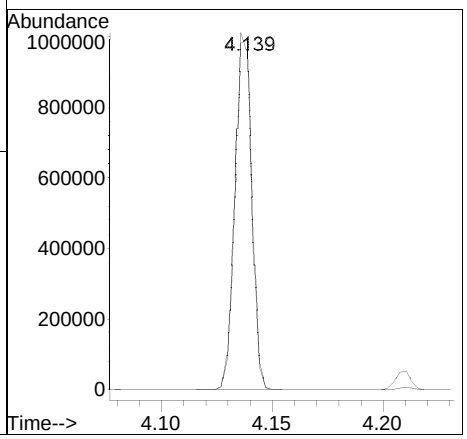


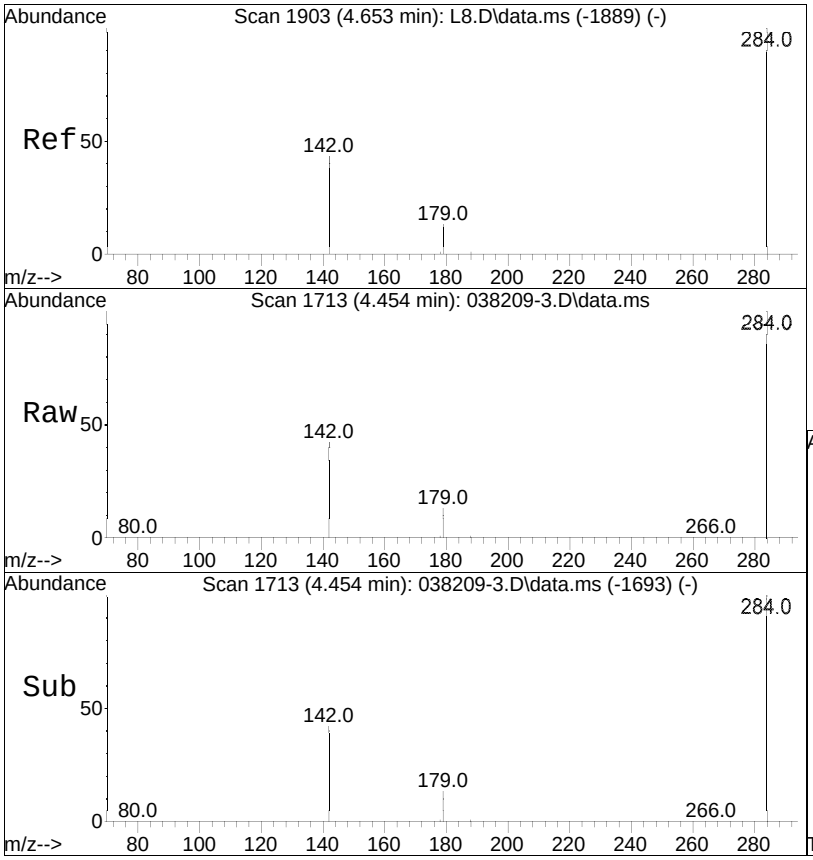


#21
Fluorene
Concen: 1928.12 ng/ml
RT: 4.139 min Scan# 1610
Delta R.T. -0.000 min
Lab File: 038209-3.D
Acq: 11 Mar 2025 04:56 pm

Tgt Ion:166 Resp: 529361

Ion	Ratio	Lower	Upper
166	100		
165	99.9	77.8	116.8

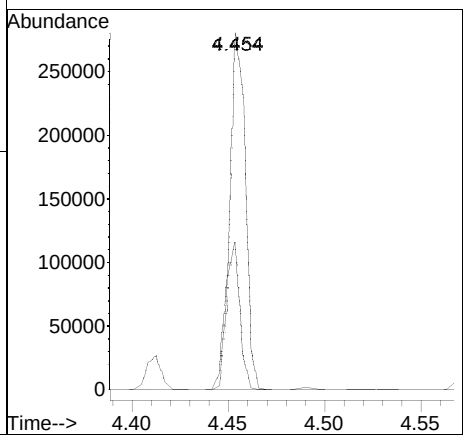


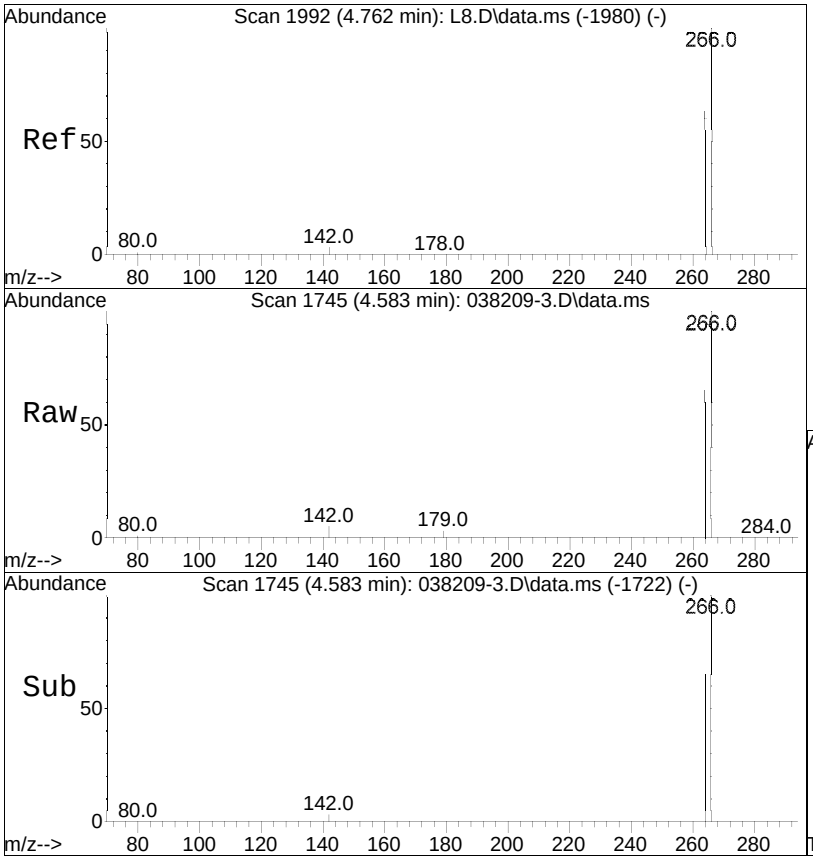


#25
Hexachlorobenzene
Concen: 2034.11 ng/ml
RT: 4.454 min Scan# 1713
Delta R.T. -0.004 min
Lab File: 038209-3.D
Acq: 11 Mar 2025 04:56 pm

Tgt Ion:284 Resp: 151169

Ion	Ratio	Lower	Upper
284	100		
142	39.3	33.8	50.6

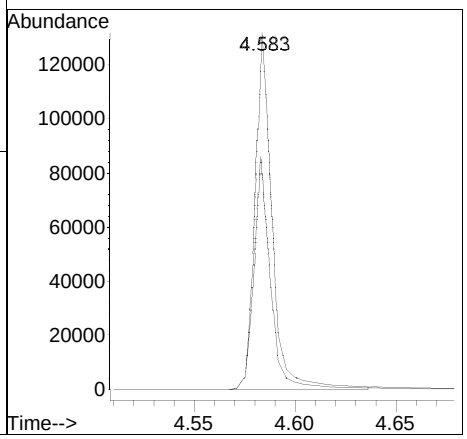


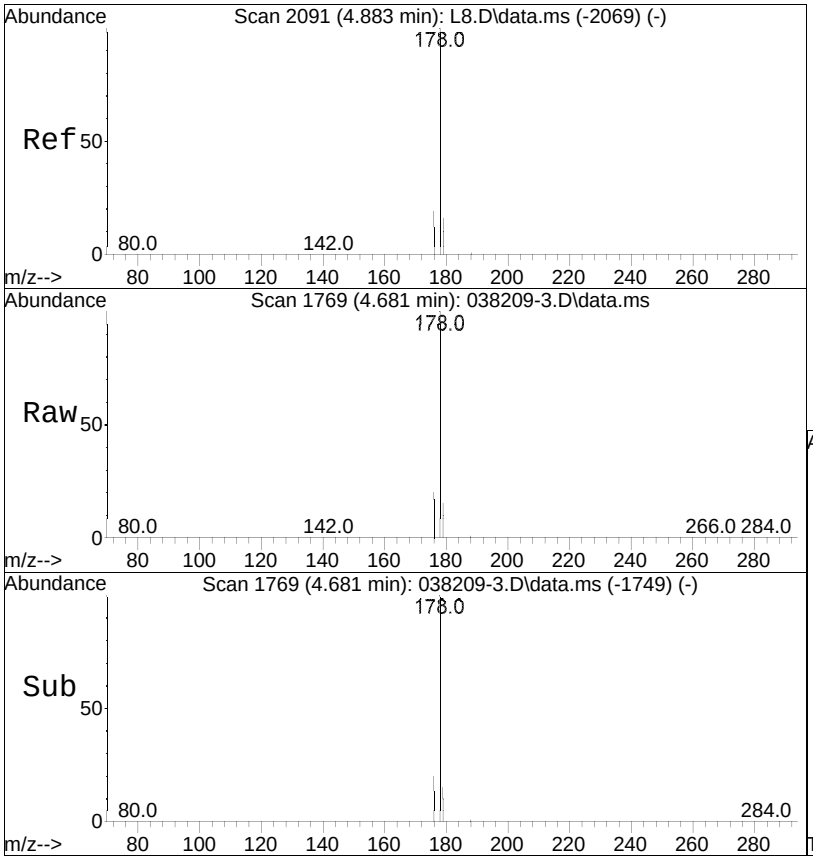


#26
Pentachlorophenol
Concen: 1945.45 ng/ml
RT: 4.583 min Scan# 1745
Delta R.T. 0.012 min
Lab File: 038209-3.D
Acq: 11 Mar 2025 04:56 pm

Tgt Ion:266 Resp: 76925

Ion	Ratio	Lower	Upper
266	100		
264	63.8	50.8	76.2

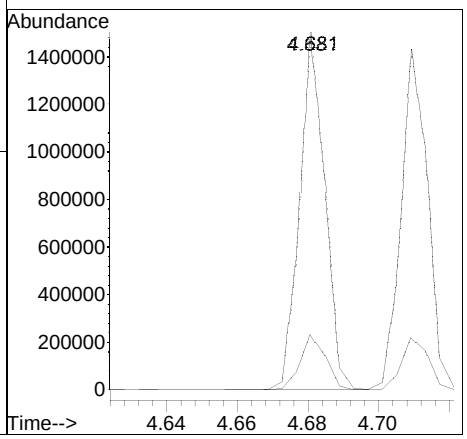


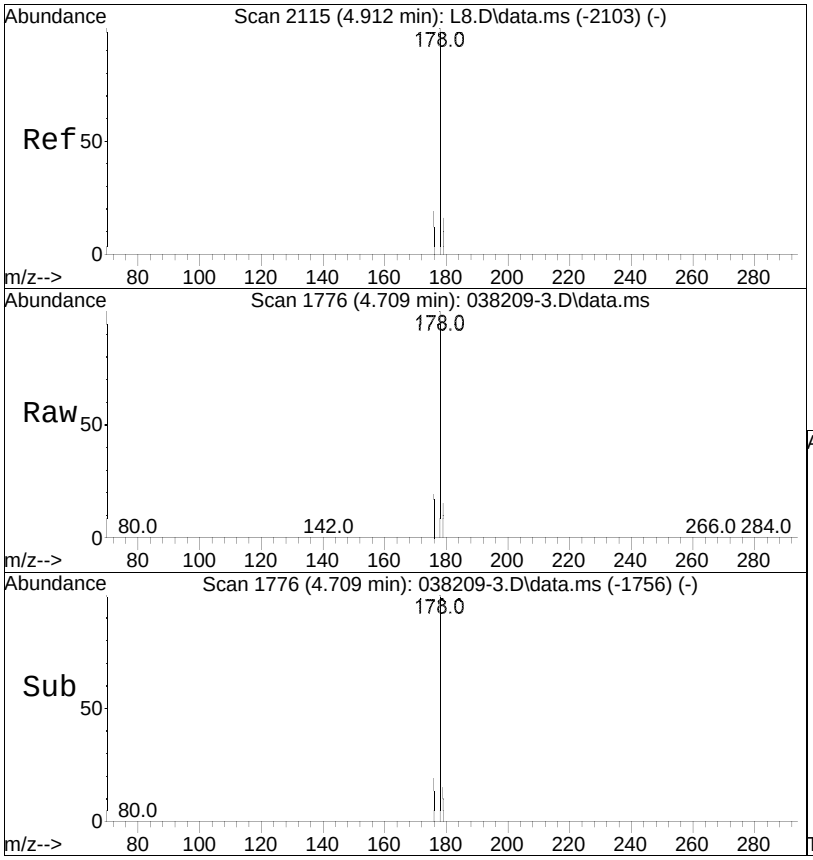


#27
Phenanthrene
Concen: 2013.08 ng/ml
RT: 4.681 min Scan# 1769
Delta R.T. -0.000 min
Lab File: 038209-3.D
Acq: 11 Mar 2025 04:56 pm

Tgt Ion:178 Resp: 742093

Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.8	19.2

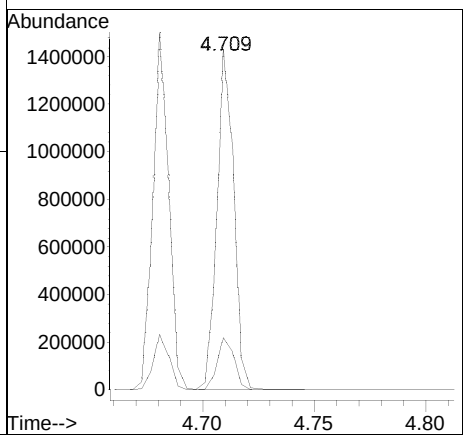


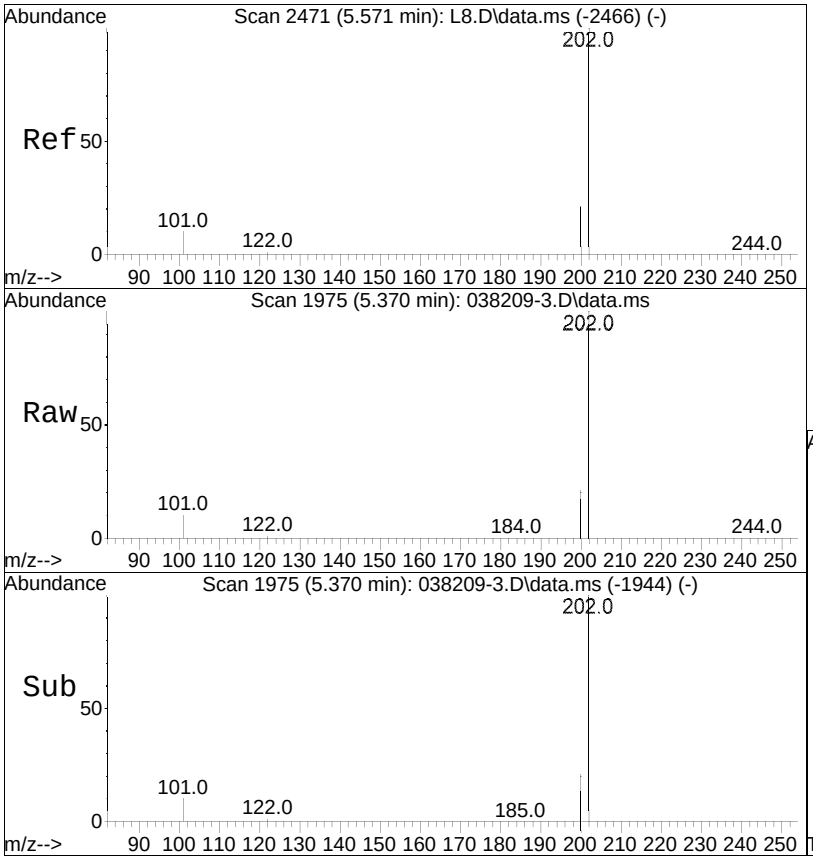


#28
Anthracene
Concen: 2021.70 ng/ml
RT: 4.709 min Scan# 1776
Delta R.T. -0.000 min
Lab File: 038209-3.D
Acq: 11 Mar 2025 04:56 pm

Tgt Ion:178 Resp: 747214

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.6	18.8

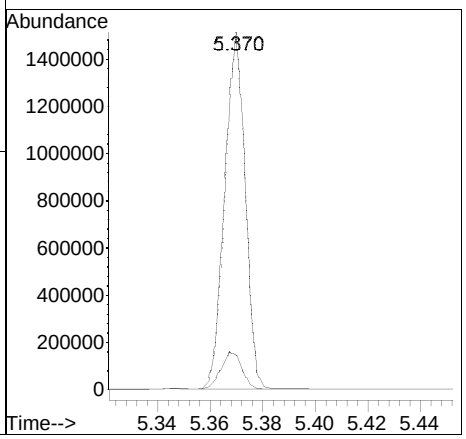


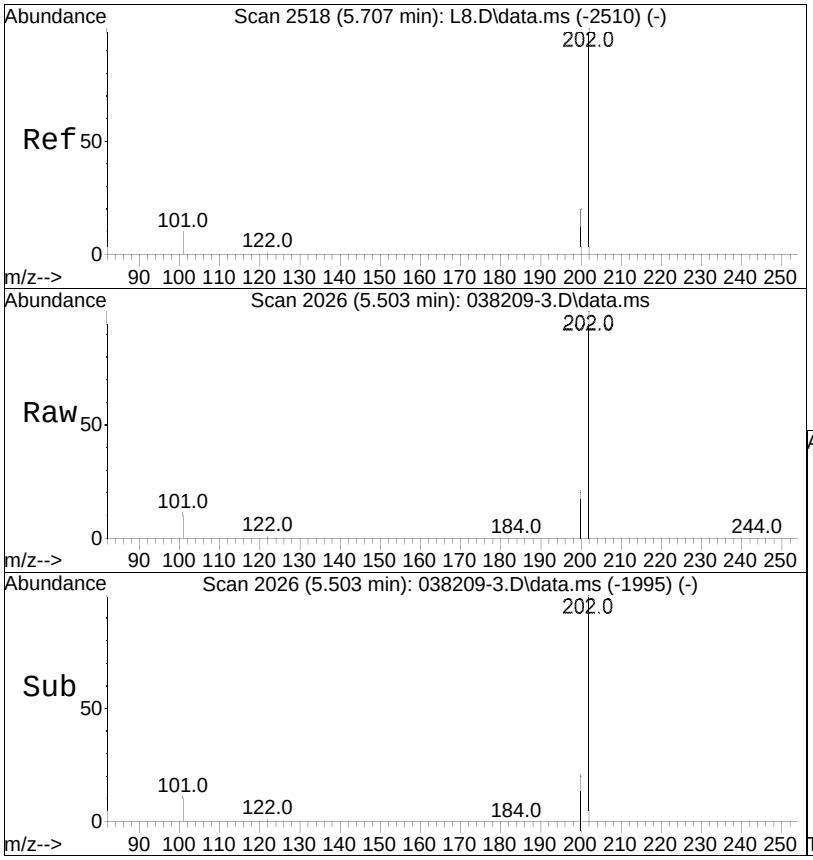


#29
Fluoranthene
Concen: 1749.61 ng/ml
RT: 5.370 min Scan# 1975
Delta R.T. -0.000 min
Lab File: 038209-3.D
Acq: 11 Mar 2025 04:56 pm

Tgt Ion:202 Resp: 806920

Ion	Ratio	Lower	Upper
202	100		
101	11.0	8.2	12.2

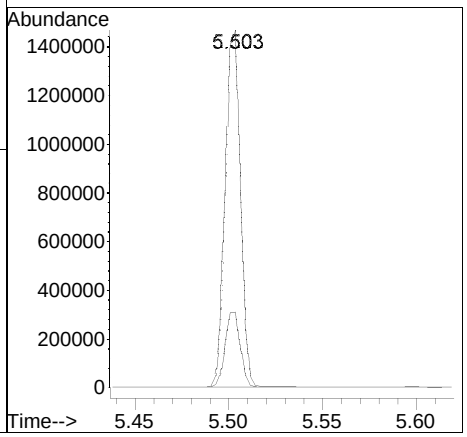


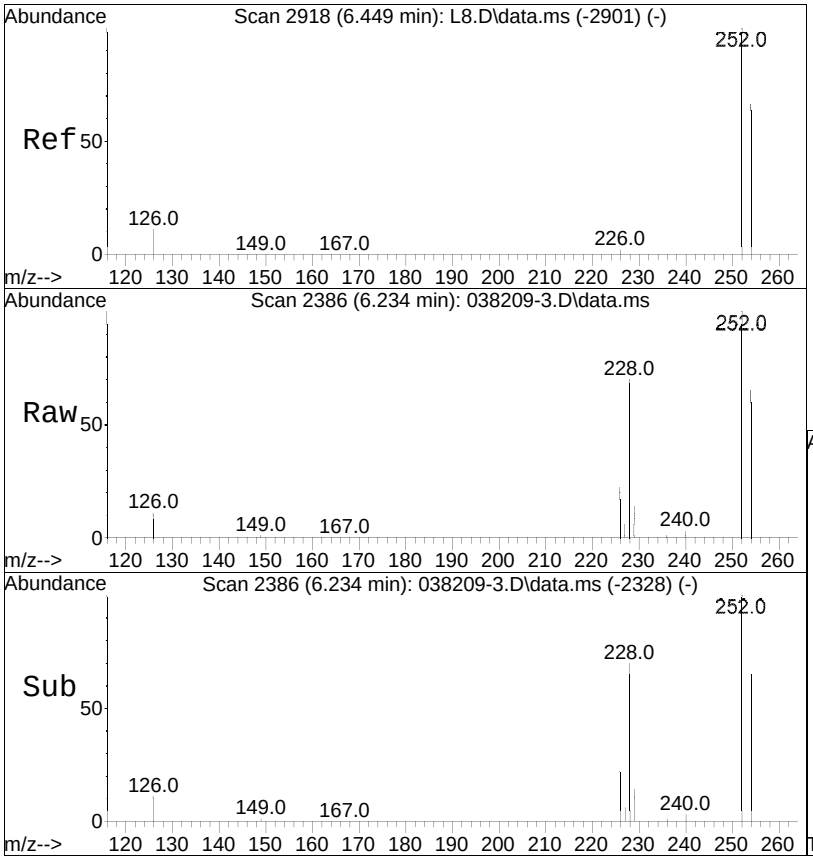


#30
Pyrene
Concen: 1708.44 ng/ml
RT: 5.503 min Scan# 2026
Delta R.T. -0.000 min
Lab File: 038209-3.D
Acq: 11 Mar 2025 04:56 pm

Tgt Ion:202 Resp: 813296

Ion	Ratio	Lower	Upper
202	100		
200	21.3	16.9	25.3

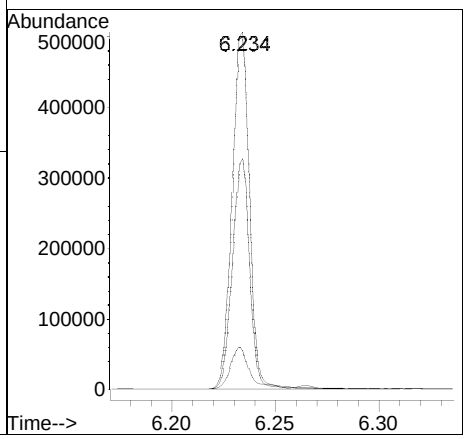


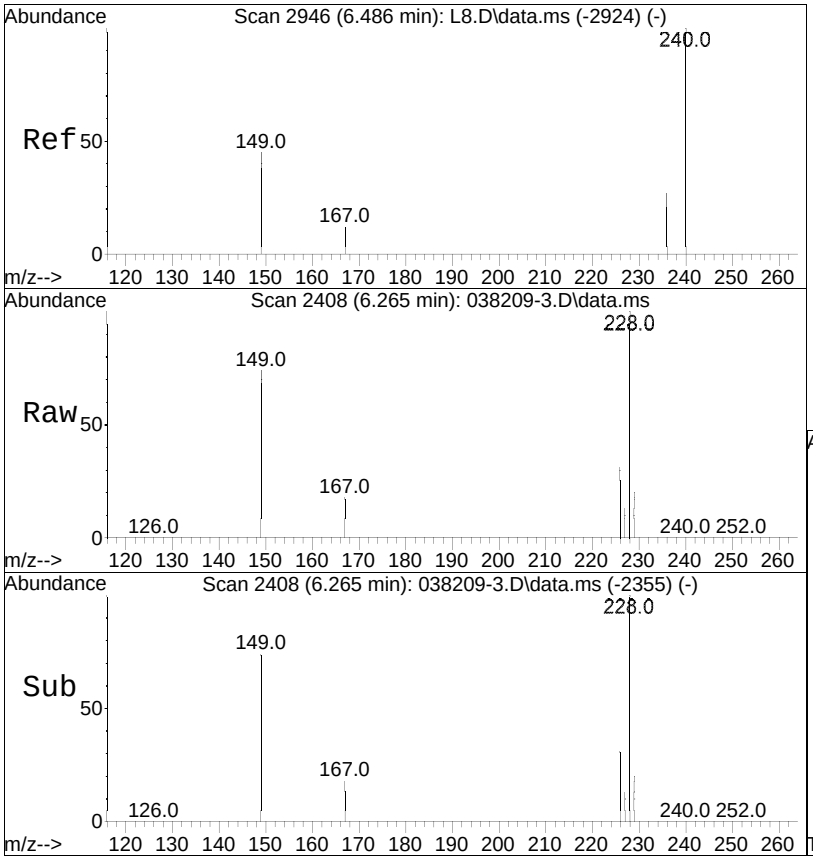


#35
3,3'-Dichlorobenzidine
Concen: 2295.70 ng/ml
RT: 6.234 min Scan# 2386
Delta R.T. 0.001 min
Lab File: 038209-3.D
Acq: 11 Mar 2025 04:56 pm

Tgt Ion:252 Resp: 290481

Ion	Ratio	Lower	Upper
252	100		
126	13.2	8.6	13.0#
254	64.0	51.8	77.8

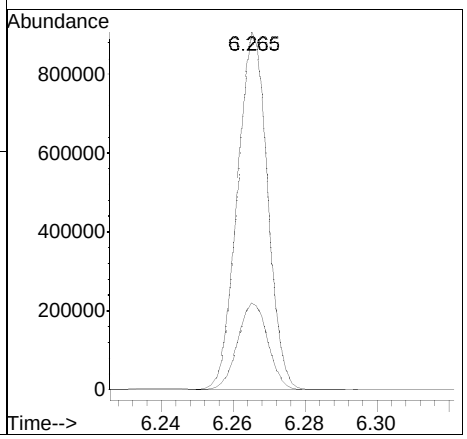


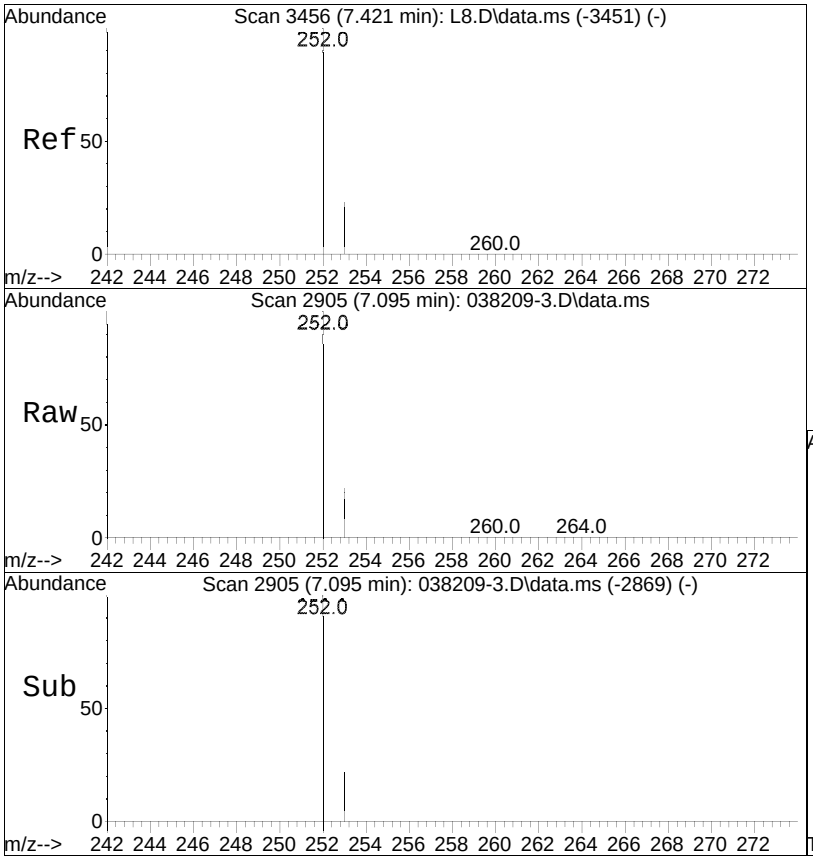


#37
Bis(2-ethylhexyl)phthalate
Concen: 2950.99 ng/ml
RT: 6.265 min Scan# 2408
Delta R.T. -0.006 min
Lab File: 038209-3.D
Acq: 11 Mar 2025 04:56 pm

Tgt Ion:149 Resp: 522538

Ion	Ratio	Lower	Upper
149	100		
167	24.6	20.7	31.1

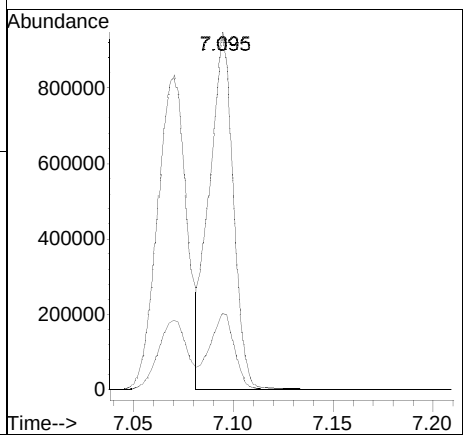


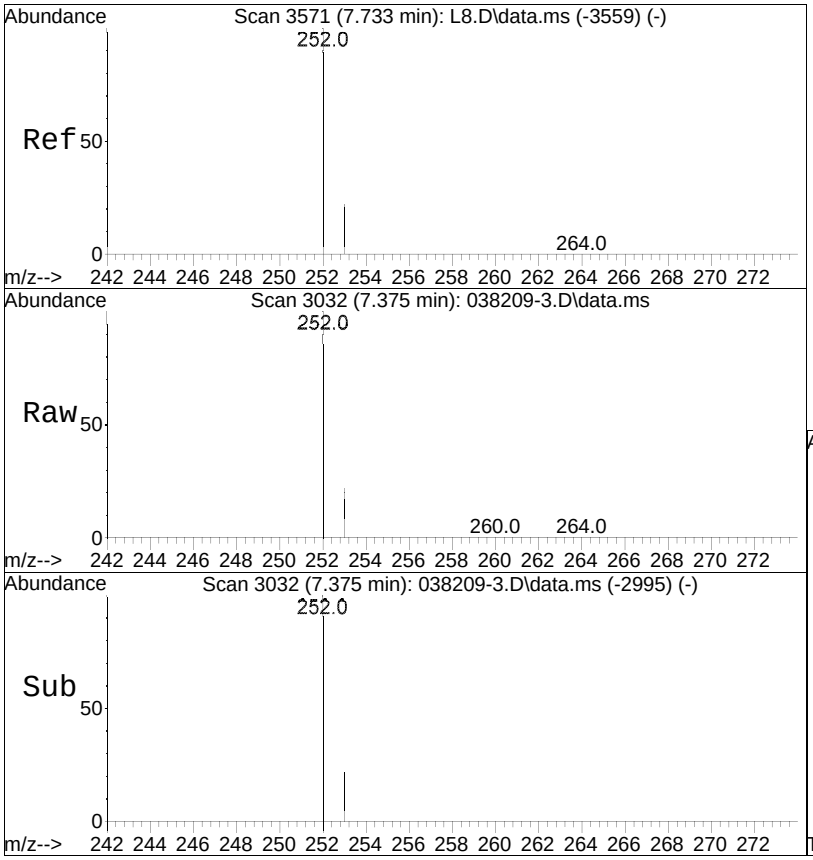


#40
Benzo[k]fluoranthene
Concen: 1990.27 ng/ml
RT: 7.095 min Scan# 2905
Delta R.T. -0.000 min
Lab File: 038209-3.D
Acq: 11 Mar 2025 04:56 pm

Tgt Ion:252 Resp: 789051

Ion	Ratio	Lower	Upper
252	100		
253	22.2	18.2	27.2

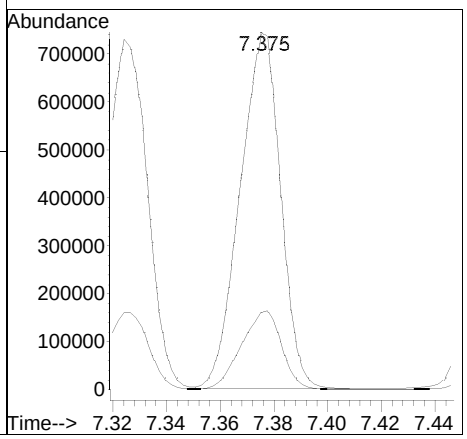


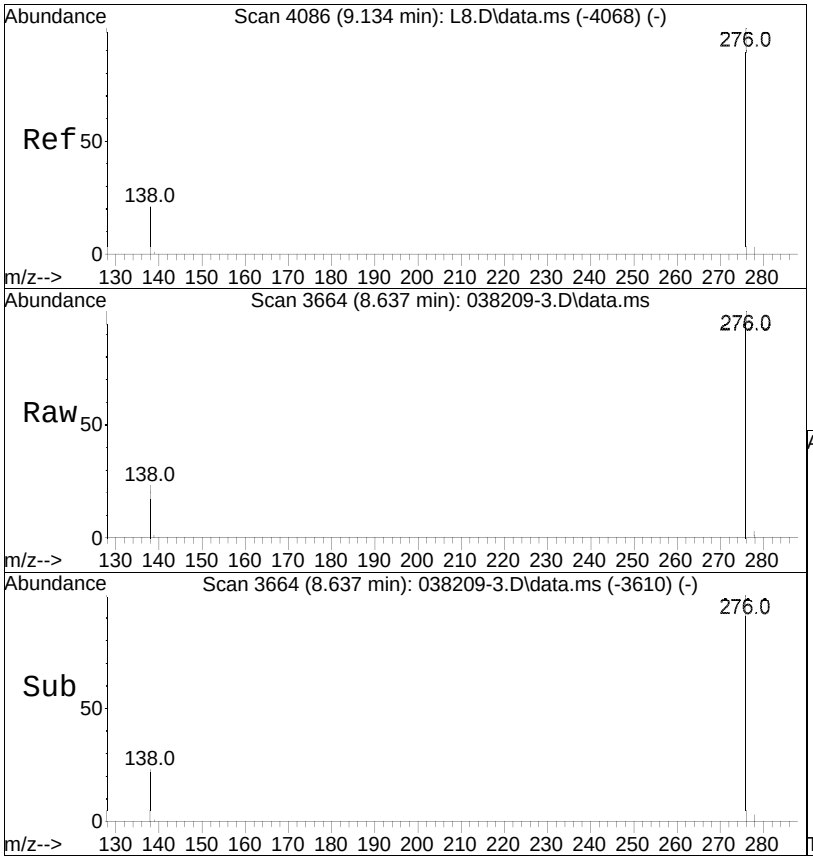


#41
Benzo[a]pyrene
Concen: 2274.74 ng/ml
RT: 7.375 min Scan# 3032
Delta R.T. 0.002 min
Lab File: 038209-3.D
Acq: 11 Mar 2025 04:56 pm

Tgt Ion:252 Resp: 775984

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.9	26.9

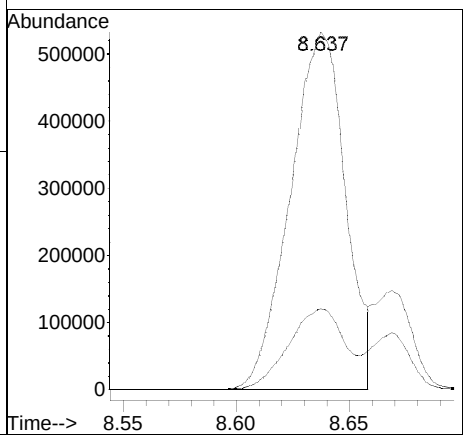


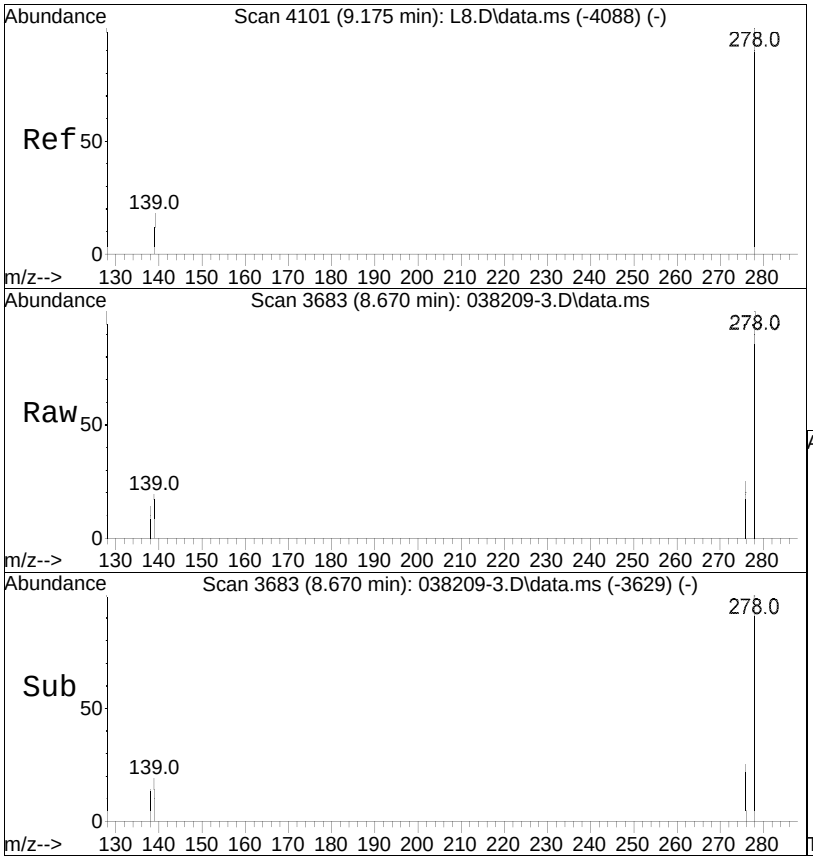


#42
Indeno[1,2,3-cd]pyrene
Concen: 2713.82 ng/ml
RT: 8.637 min Scan# 3664
Delta R.T. 0.014 min
Lab File: 038209-3.D
Acq: 11 Mar 2025 04:56 pm

Tgt Ion:276 Resp: 896257

Ion	Ratio	Lower	Upper
276	100		
138	23.1	16.9	25.3

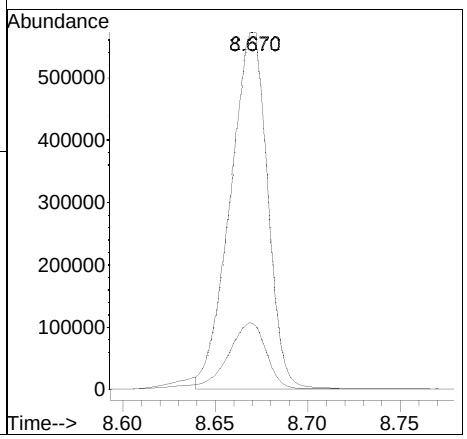


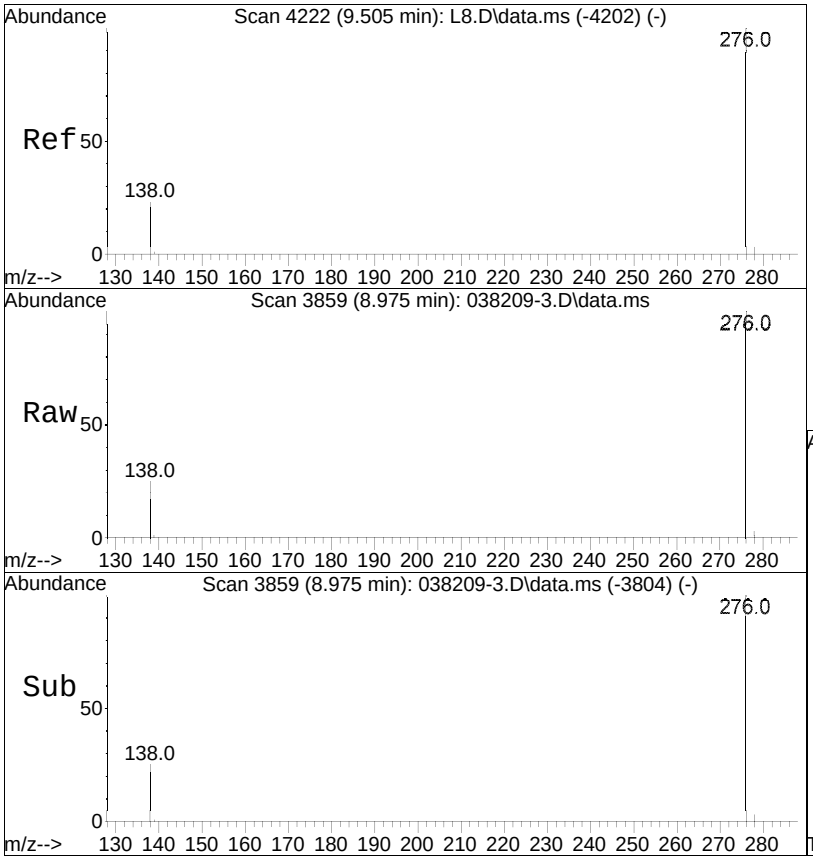


#43
Dibenzo[a,h]anthracene
Concen: 2611.13 ng/ml M6
RT: 8.670 min Scan# 3683
Delta R.T. 0.014 min
Lab File: 038209-3.D
Acq: 11 Mar 2025 04:56 pm

Tgt Ion:278 Resp: 799979

Ion	Ratio	Lower	Upper
278	100		
139	19.7	14.6	22.0

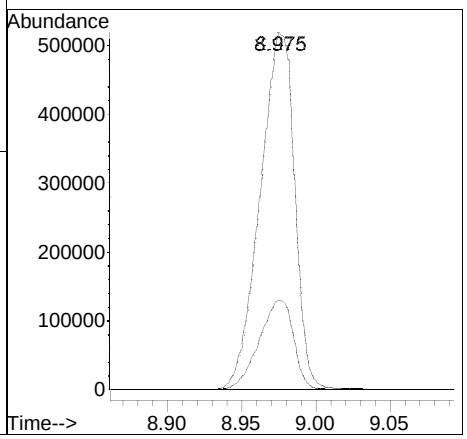




#44
Benzo[g,h,i]perylene
Concen: 2644.52 ng/ml
RT: 8.975 min Scan# 3859
Delta R.T. 0.015 min
Lab File: 038209-3.D
Acq: 11 Mar 2025 04:56 pm

Tgt Ion:276 Resp: 831257

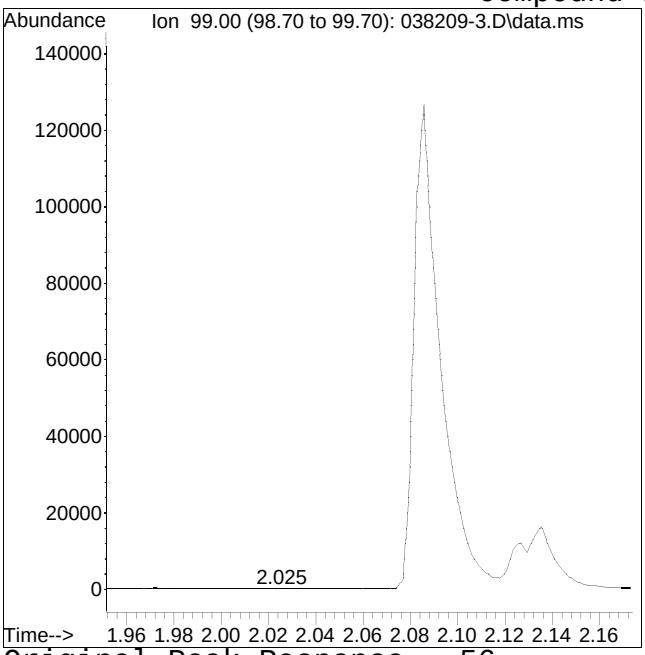
Ion	Ratio	Lower	Upper
276	100		
138	25.0	18.6	28.0

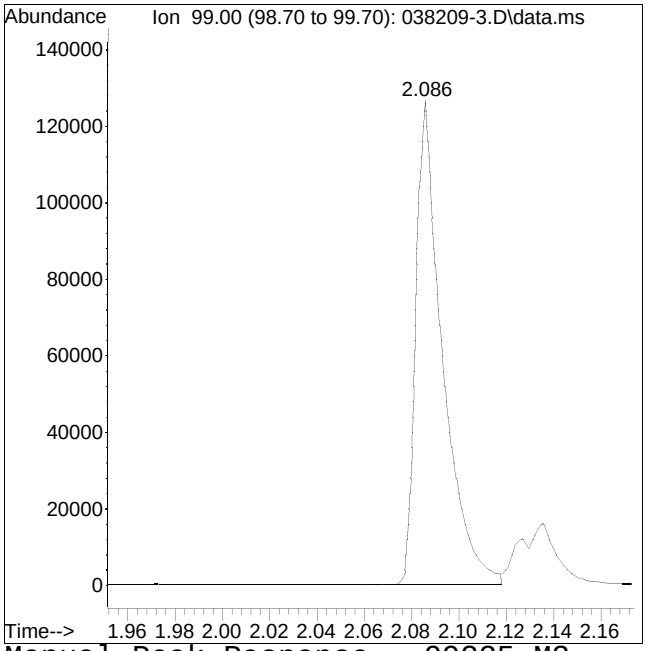


Manual Integration Report

Data Path : I:\8270SIM\sv119\250311bRVQMethod : SIM-RVT_241229_sv119.M
Data File : 038209-3.D Operator : sv119:rp
Date Inj'd : 3/11/2025 4:56 pm Instrument : SV119
Sample : WG2038209-3,32,,kmh Quant Date : 3/11/2025 5:10 pm

Compound #4: Phenol-d6



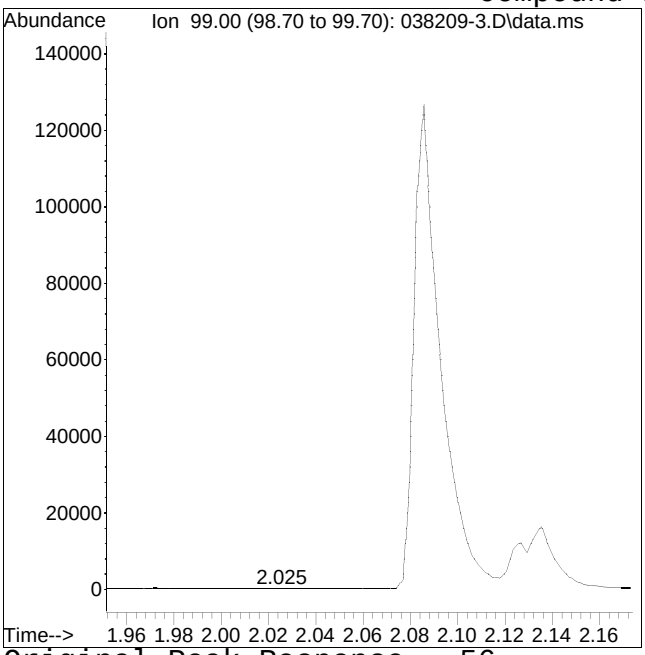


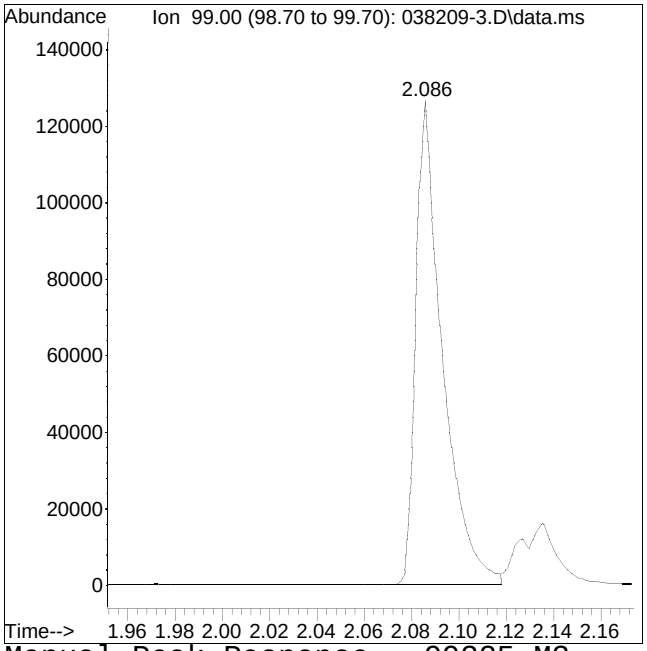
Original Peak Response = 56 Manual Peak Response = 99225 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\sv119\250311bRVQMethod : SIM-RVT_241229_sv119.M
Data File : 038209-3.D Operator : sv119:rp
Date Inj'd : 3/11/2025 4:56 pm Instrument : SV119
Sample : WG2038209-3,32,,kmh Quant Date : 3/11/2025 5:10 pm

Compound #4: Phenol-d6



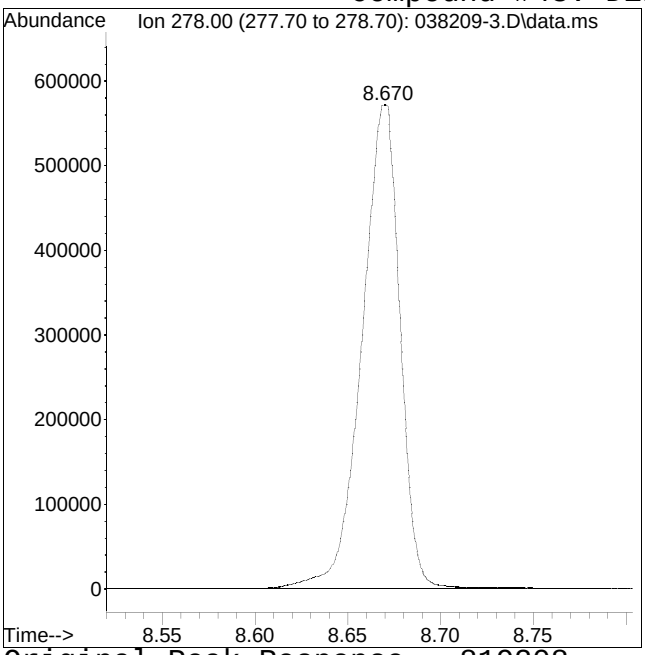


Original Peak Response = 56 Manual Peak Response = 99225 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

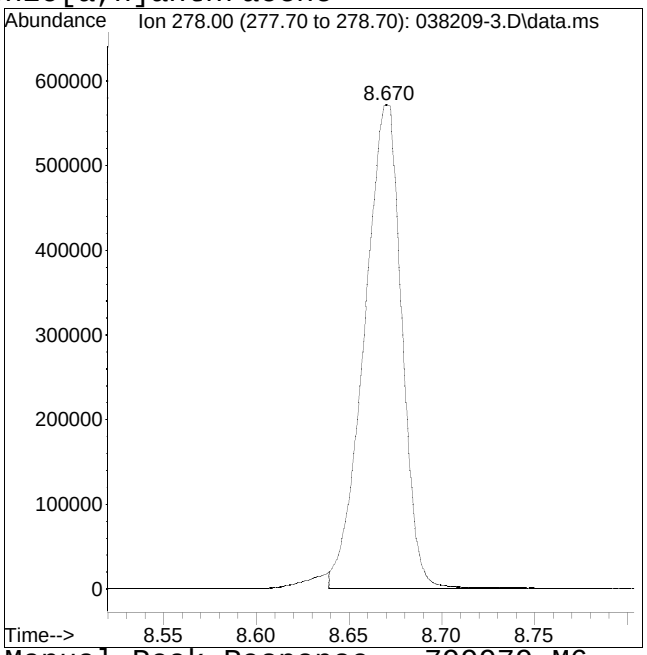
Manual Integration Report

Data Path : I:\8270SIM\sv119\250311bRVQMethod : SIM-RVT_241229_sv119.M
Data File : 038209-3.D Operator : sv119:rp
Date Inj'd : 3/11/2025 4:56 pm Instrument : SV119
Sample : WG2038209-3,32,,kmh Quant Date : 3/11/2025 5:10 pm

Compound #43: Dibenzo[a,h]anthracene



Original Peak Response = 819208



Manual Peak Response = 799979 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250311bRVT\
Data File : 038209-4.D
Acq On : 11 Mar 2025 07:46 pm
Operator : sv119:jjw
Sample : WG2038209-4,32,,kmh
Misc : WG2039073,WG2038209,ical21826
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Mar 12 11:08:18 2025
Quant Method : I:\8270sim\sv119\250311bRVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 11 12:33:32 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250311bRVT\ccv0311b.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.214	152	351857	4000.000	ng/ml	0.00
Standard Area 1 = 325676			Recovery = 108.04%			
9) Naphthalene-d8	2.863	136	1351189	4000.000	ng/ml	0.00
Standard Area 1 = 1225929			Recovery = 110.22%			
18) Acenaphthene-d10	3.827	164	719152	4000.000	ng/ml	0.00
Standard Area 1 = 688151			Recovery = 104.50%			
23) Phenanthrene-d10	4.666	188	1314055	4000.000	ng/ml	0.00
Standard Area 1 = 1410915			Recovery = 93.13%			
33) Chrysene-d12	6.244	240	1054507	4000.000	ng/ml	0.00
Standard Area 1 = 1283861			Recovery = 82.14%			
38) Perylene-d12	7.431	264	1240452	4000.000	ng/ml	0.00
Standard Area 1 = 1327611			Recovery = 93.43%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.687	112	81364	863.041	ng/ml	0.03
Spiked Amount 2000.000	Range 15 - 110		Recovery = 43.15%			
4) Phenol-d6	2.077	99	79494M1	675.581	ng/ml	0.04
Spiked Amount 2000.000	Range 15 - 110		Recovery = 33.78%			
8) Nitrobenzene-d5	2.491	82	111499	977.167	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 97.72%			
14) 2-Fluorobiphenyl	3.451	172	276180	838.228	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 83.82%			
22) 2,4,6-Tribromophenol	4.280	330	43840	1396.742	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 69.84%			
32) 4-Terphenyl-d14	5.594	244	262481	805.190	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 80.52%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	0.000		0	N.D.		
5) Bis(2-chloroethyl)ether	2.083	93	227837	2097.817	ng/ml	95
6) n-nitrosodi-n-propylamine	2.411	70	156555	2150.856	ng/ml	99
7) Hexachloroethane	2.459	117	54681	1198.986	ng/ml	95
10) Naphthalene	2.872	128	591917	1570.713	ng/ml	100
11) Hexachlorobutadiene	2.940	225	78411	1182.343	ng/ml	100
12) 2-Methylnaphthalene	3.248	142	373496	1418.278	ng/ml	99
13) 1-Methylnaphthalene	3.300	142	382691	1578.239	ng/ml	99
15) 2-Chloronaphthalene	3.515	162	414864	1525.342	ng/ml#	85
16) 2,6-Dinitrotoluene	3.716	165	106991	1596.257	ng/ml#	87

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250311bRVT\
Data File : 038209-4.D
Acq On : 11 Mar 2025 07:46 pm
Operator : sv119:jjw
Sample : WG2038209-4,32,,kmh
Misc : WG2039073,WG2038209,ical21826
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Mar 12 11:08:18 2025
Quant Method : I:\8270sim\sv119\250311bRVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 11 12:33:32 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250311bRVT\ccv0311b.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
17) Acenaphthylene	3.747	152	721064	1711.927	ng/ml	99
19) Acenaphthene	3.845	153	440693	1837.377	ng/ml	94
20) 2,4-Dinitrotoluene	3.943	165	127875	1676.012	ng/ml#	63
21) Fluorene	4.136	166	531793	1929.830	ng/ml	97
24) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
25) Hexachlorobenzene	4.455	284	155251	2004.354	ng/ml	95
26) Pentachlorophenol	4.581	266	56245	1405.007	ng/ml	100
27) Phenanthrene	4.678	178	743629	1935.476	ng/ml	99
28) Anthracene	4.707	178	758316	1968.568	ng/ml	100
29) Fluoranthene	5.366	202	842079	1751.830	ng/ml	98
30) Pyrene	5.500	202	857957	1729.202	ng/ml	100
31) Benzidine	5.455	184	3965	No Calib #		
34) Benzo[a]anthracene	6.237	228	776418	2087.000	ng/ml	100
35) 3,3'-Dichlorobenzidine	6.228	252	266374	1982.815	ng/ml#	99
36) Chrysene	6.260	228	719255	1981.000	ng/ml	100
37) Bis(2-ethylhexyl)phtha...	6.260	149	544716	2891.980	ng/ml	98
39) Benzo[b]fluoranthene	7.064	252	853052	2075.008	ng/ml	98
40) Benzo[k]fluoranthene	7.088	252	805941	1987.974	ng/ml	99
41) Benzo[a]pyrene	7.369	252	772227	2213.725	ng/ml	99
42) Indeno[1,2,3-cd]pyrene	8.627	276	911607	2699.333	ng/ml	97
43) Dibenzo[a,h]anthracene	8.660	278	794281M6	2535.272	ng/ml	
44) Benzo[g,h,i]perylene	8.966	276	823780	2562.851	ng/ml	96

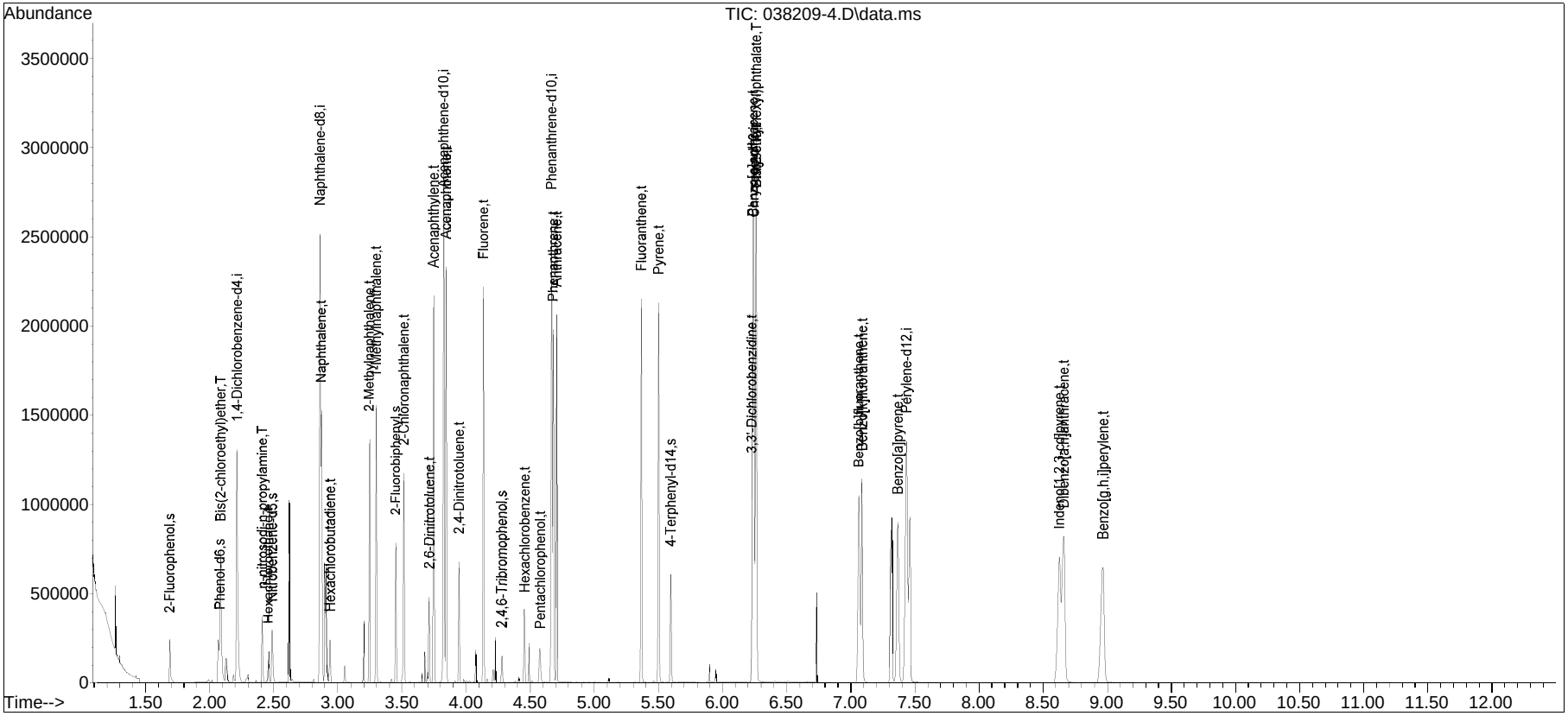
(#) = qualifier out of range (m) = manual integration (+) = signals summed

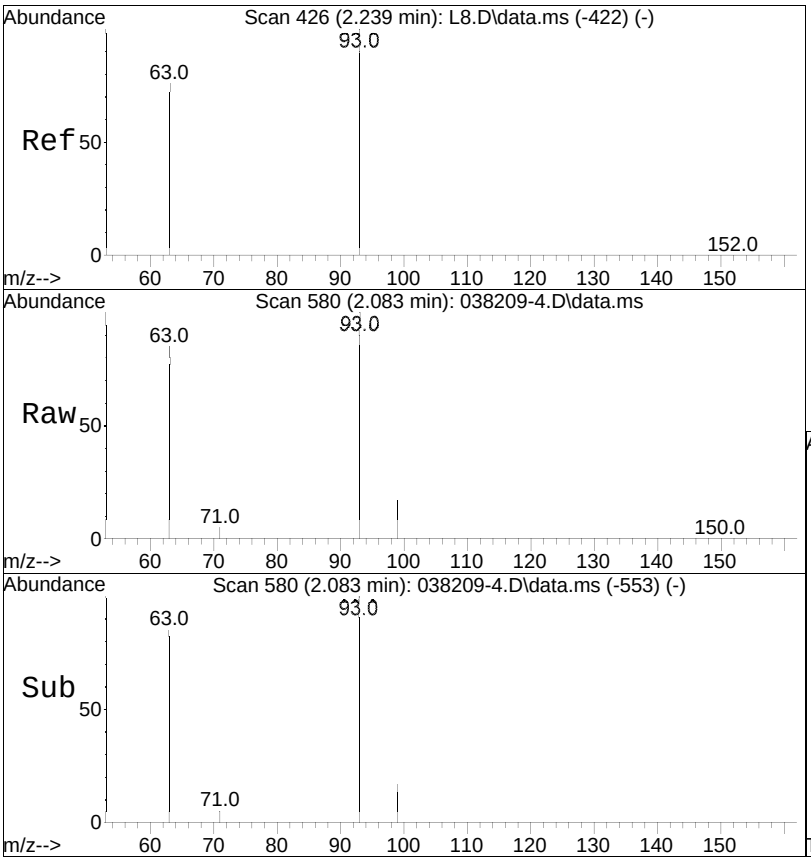
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250311bRVT\
Data File : 038209-4.D
Acq On : 11 Mar 2025 07:46 pm
Operator : sv119:jjw
Sample : WG2038209-4,32,,kmh
Misc : WG2039073,WG2038209,ical21826
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Mar 12 11:08:18 2025
Quant Method : I:\8270sim\sv119\250311bRVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 11 12:33:32 2025
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedT\ccv0311b.D•

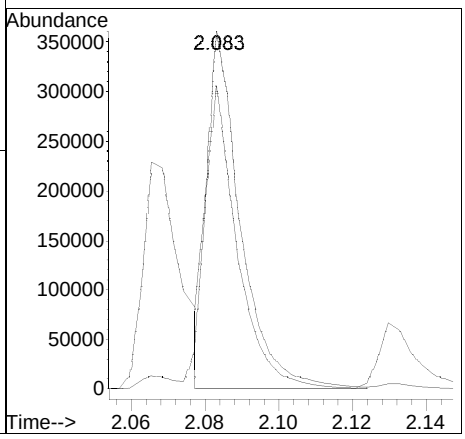


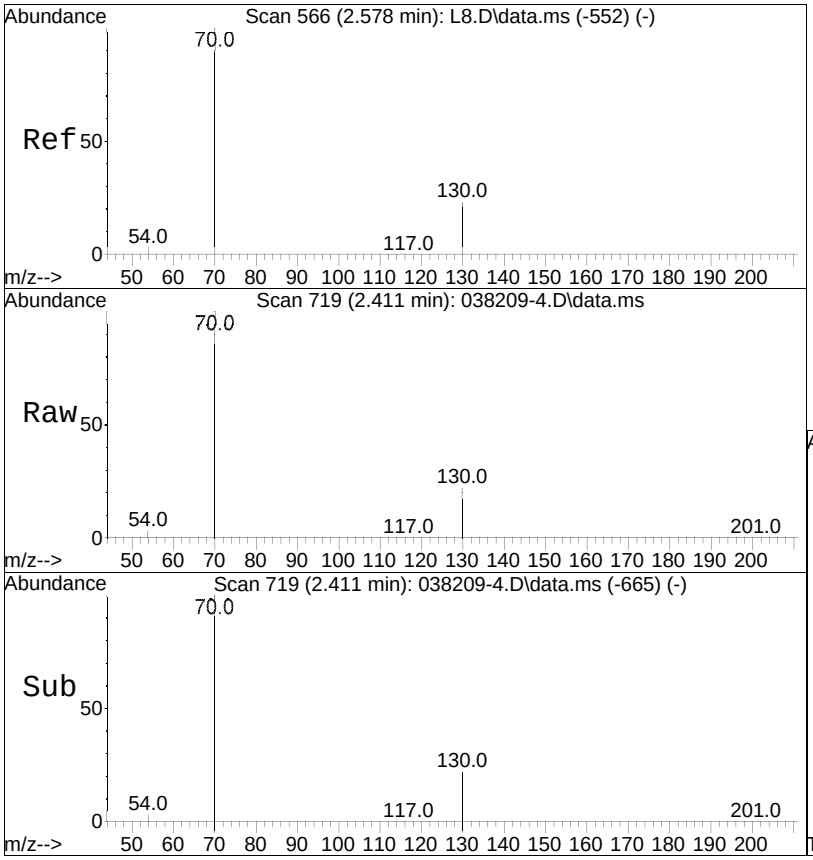


#5
Bis(2-chloroethyl)ether
Concen: 2097.82 ng/ml
RT: 2.083 min Scan# 580
Delta R.T. 0.000 min
Lab File: 038209-4.D
Acq: 11 Mar 2025 07:46 pm

Tgt Ion: 93 Resp: 227837

Ion	Ratio	Lower	Upper
93	100		
63	81.7	61.7	92.5

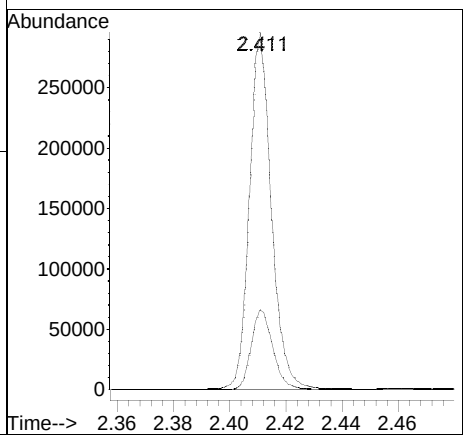


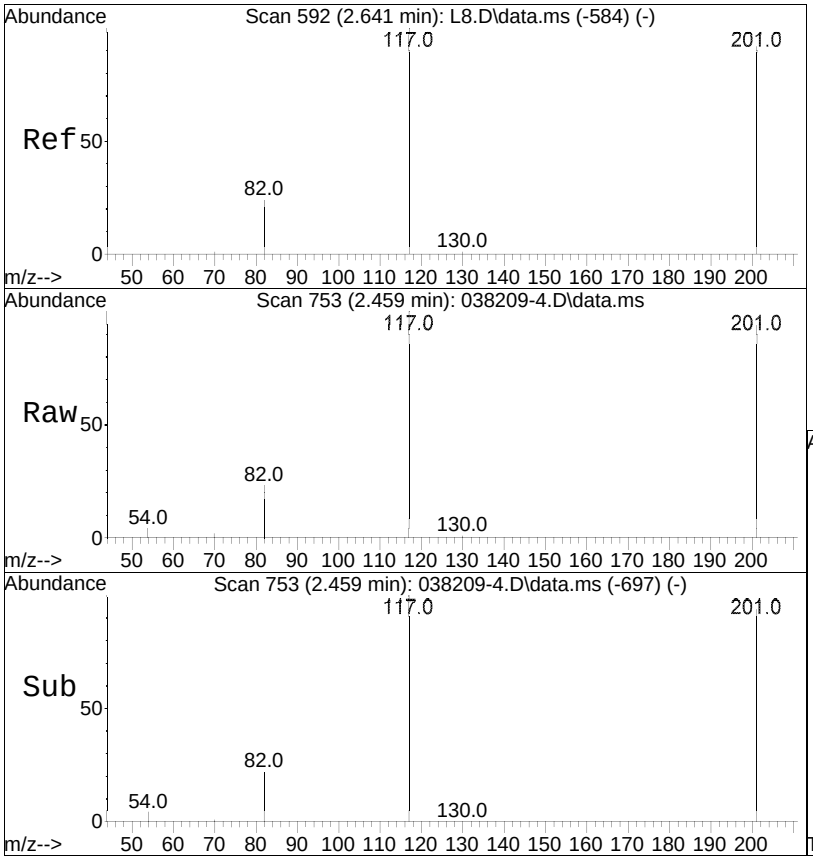


#6
n-nitrosodi-n-propylamine
Concen: 2150.86 ng/ml
RT: 2.411 min Scan# 719
Delta R.T. 0.000 min
Lab File: 038209-4.D
Acq: 11 Mar 2025 07:46 pm

Tgt Ion: 70 Resp: 156555

Ion	Ratio	Lower	Upper
70	100		
130	22.3	18.1	27.1

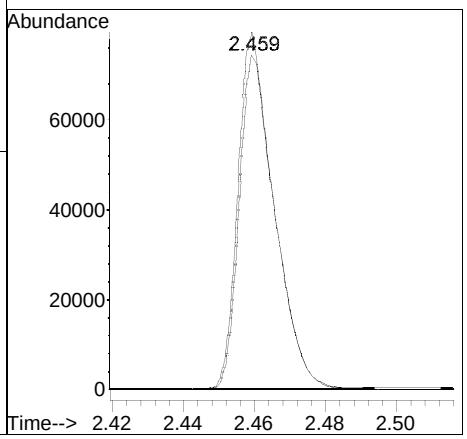


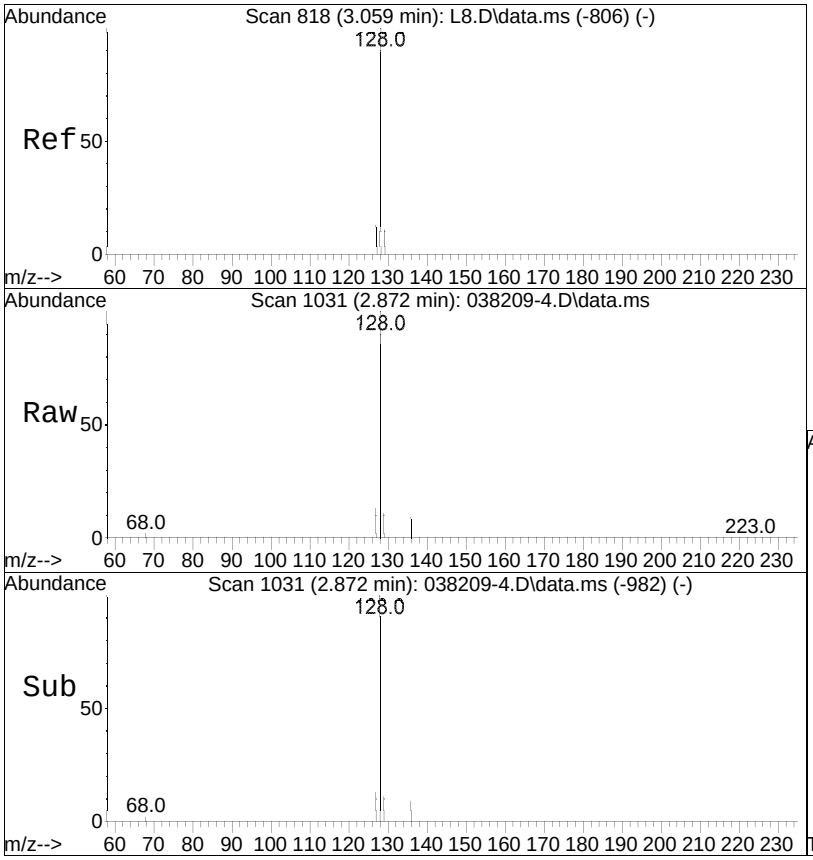


#7
Hexachloroethane
Concen: 1198.99 ng/ml
RT: 2.459 min Scan# 753
Delta R.T. -0.001 min
Lab File: 038209-4.D
Acq: 11 Mar 2025 07:46 pm

Tgt Ion:117 Resp: 54681

Ion	Ratio	Lower	Upper
117	100		
201	94.3	79.3	118.9

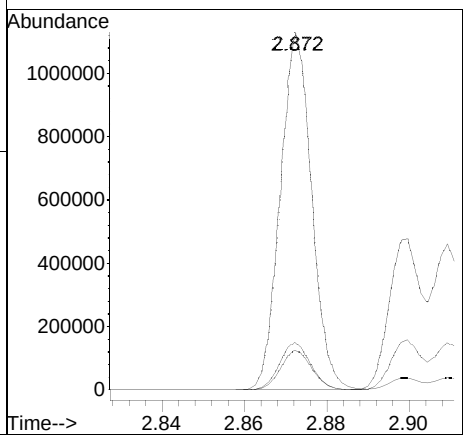


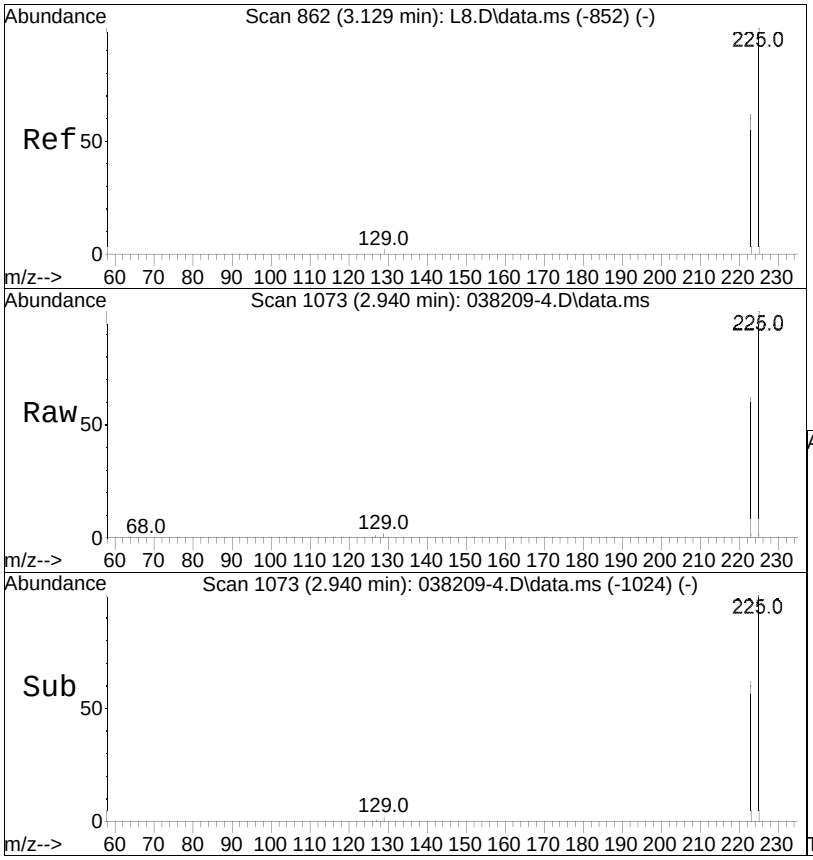


#10
Naphthalene
Concen: 1570.71 ng/ml
RT: 2.872 min Scan# 1031
Delta R.T. -0.001 min
Lab File: 038209-4.D
Acq: 11 Mar 2025 07:46 pm

Tgt Ion:128 Resp: 591917

Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.0	13.6
127	13.3	10.5	15.7

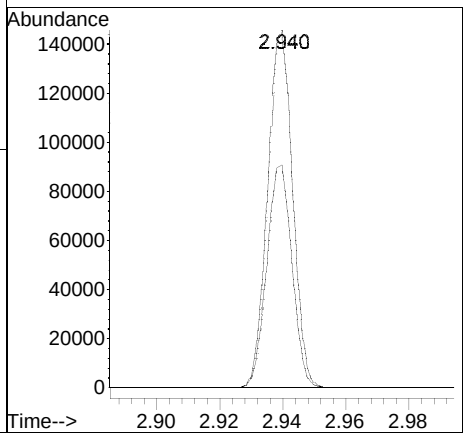


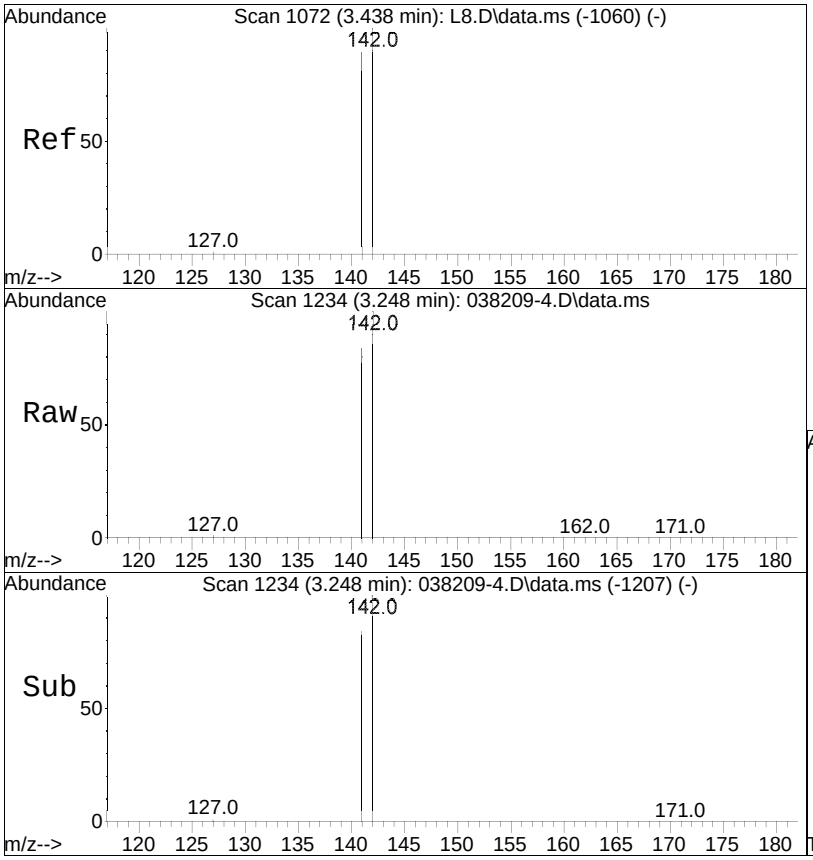


#11
Hexachlorobutadiene
Concen: 1182.34 ng/ml
RT: 2.940 min Scan# 1073
Delta R.T. -0.001 min
Lab File: 038209-4.D
Acq: 11 Mar 2025 07:46 pm

Tgt Ion:225 Resp: 78411

Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.4	75.6

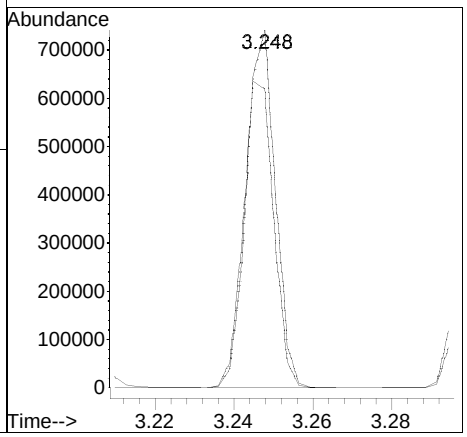


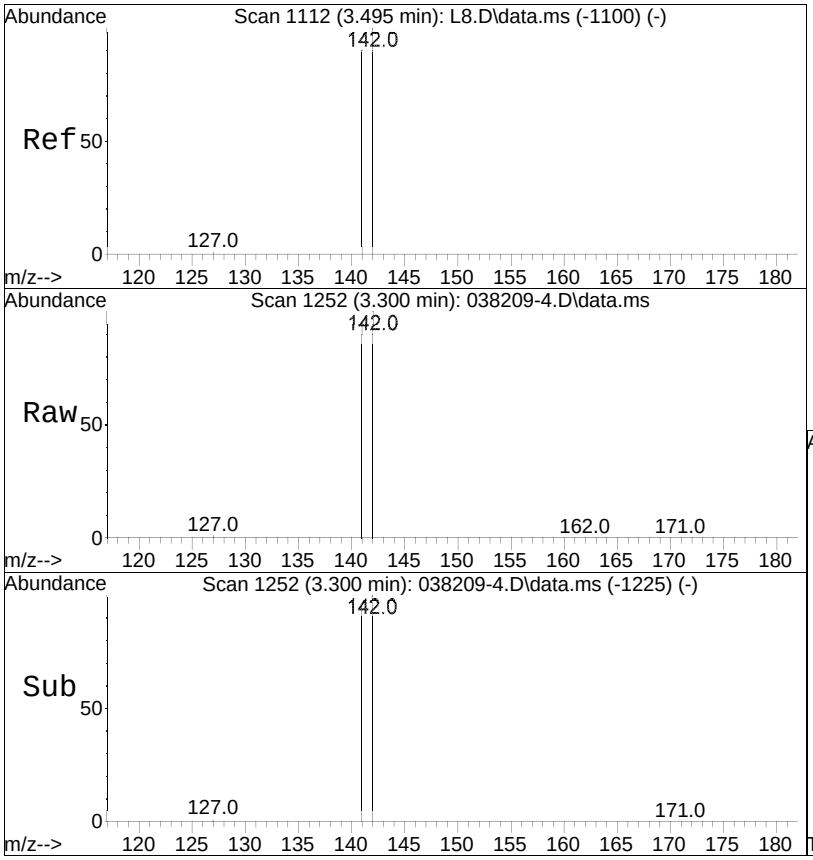


#12
2-Methylnaphthalene
Concen: 1418.28 ng/ml
RT: 3.248 min Scan# 1234
Delta R.T. -0.003 min
Lab File: 038209-4.D
Acq: 11 Mar 2025 07:46 pm

Tgt Ion:142 Resp: 373496

Ion	Ratio	Lower	Upper
142	100		
141	90.2	71.3	106.9

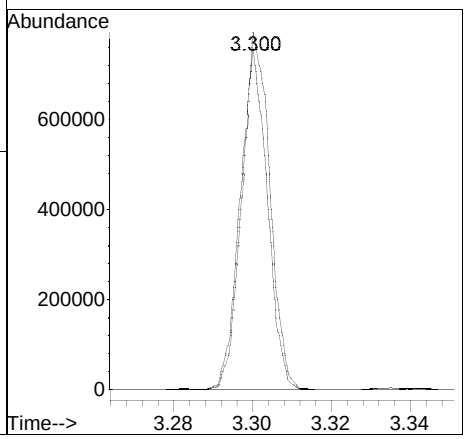


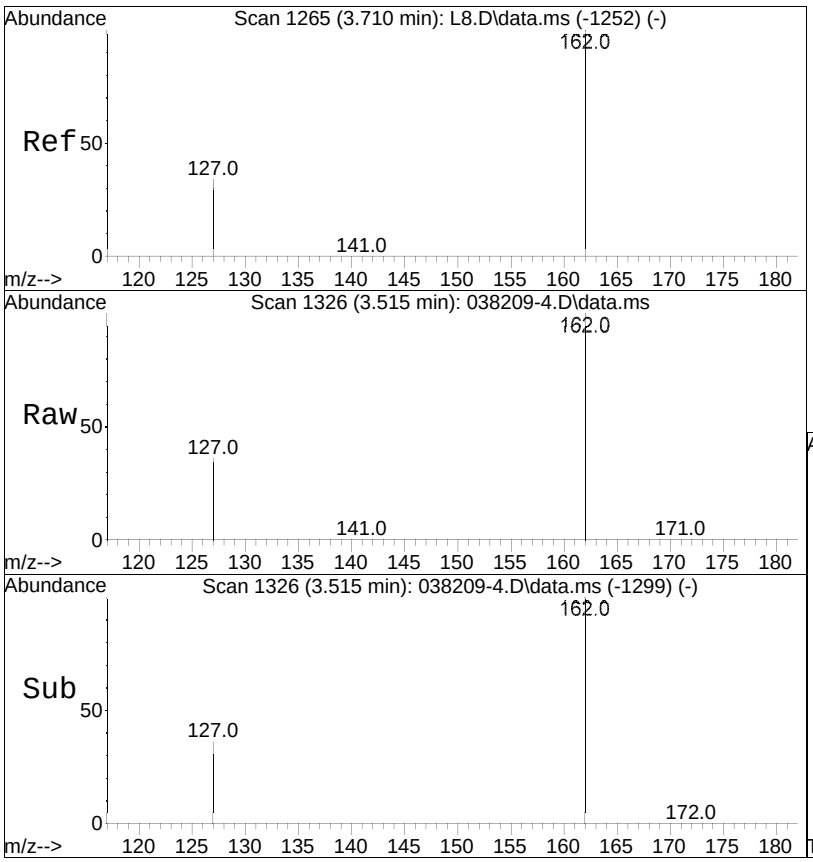


#13
1-Methylnaphthalene
Concen: 1578.24 ng/ml
RT: 3.300 min Scan# 1252
Delta R.T. -0.003 min
Lab File: 038209-4.D
Acq: 11 Mar 2025 07:46 pm

Tgt Ion:142 Resp: 382691

Ion	Ratio	Lower	Upper
142	100		
141	93.4	73.8	110.6

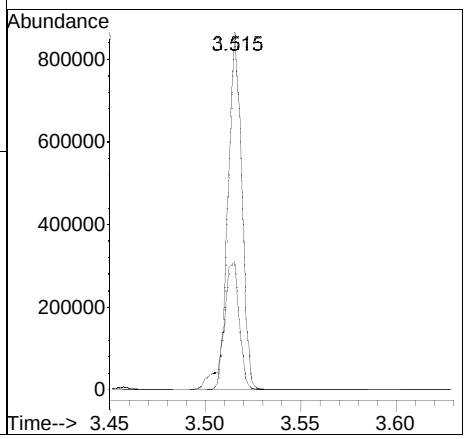


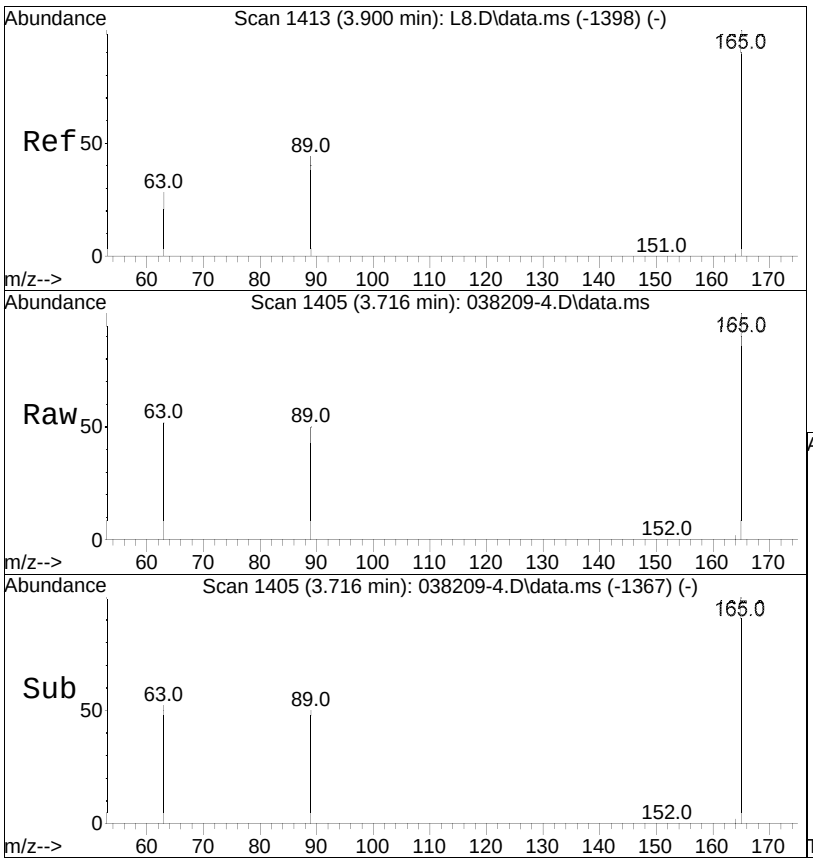


#15
2-Chloronaphthalene
Concen: 1525.34 ng/ml
RT: 3.515 min Scan# 1326
Delta R.T. -0.003 min
Lab File: 038209-4.D
Acq: 11 Mar 2025 07:46 pm

Tgt Ion:162 Resp: 414864

Ion	Ratio	Lower	Upper
162	100		
127	42.6	27.4	41.0#

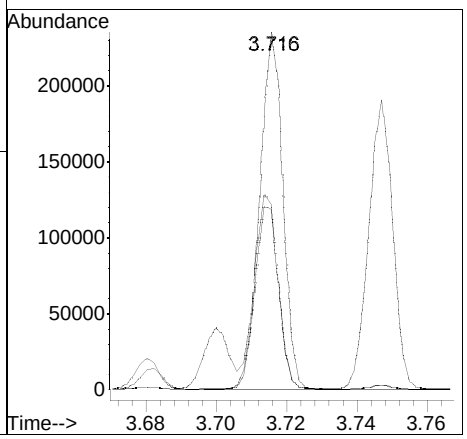


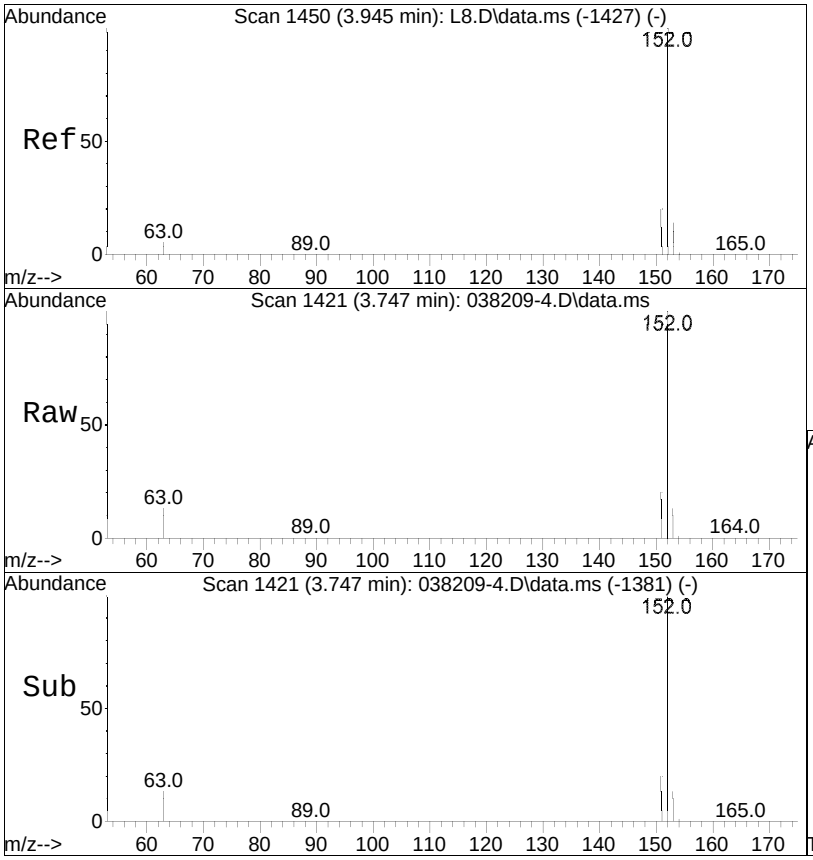


#16
2,6-Dinitrotoluene
Concen: 1596.26 ng/ml
RT: 3.716 min Scan# 1405
Delta R.T. 0.000 min
Lab File: 038209-4.D
Acq: 11 Mar 2025 07:46 pm

Tgt Ion:165 Resp: 106991

Ion	Ratio	Lower	Upper
165	100		
89	53.7	37.8	56.8
63	56.4	36.9	55.3#

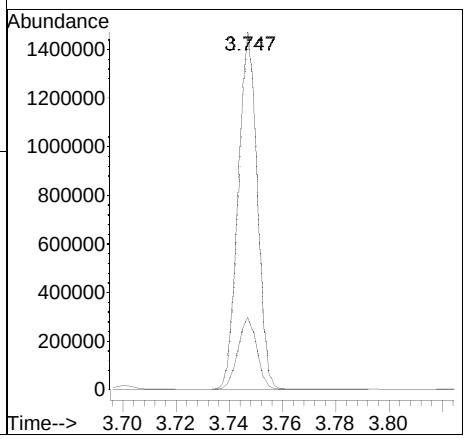


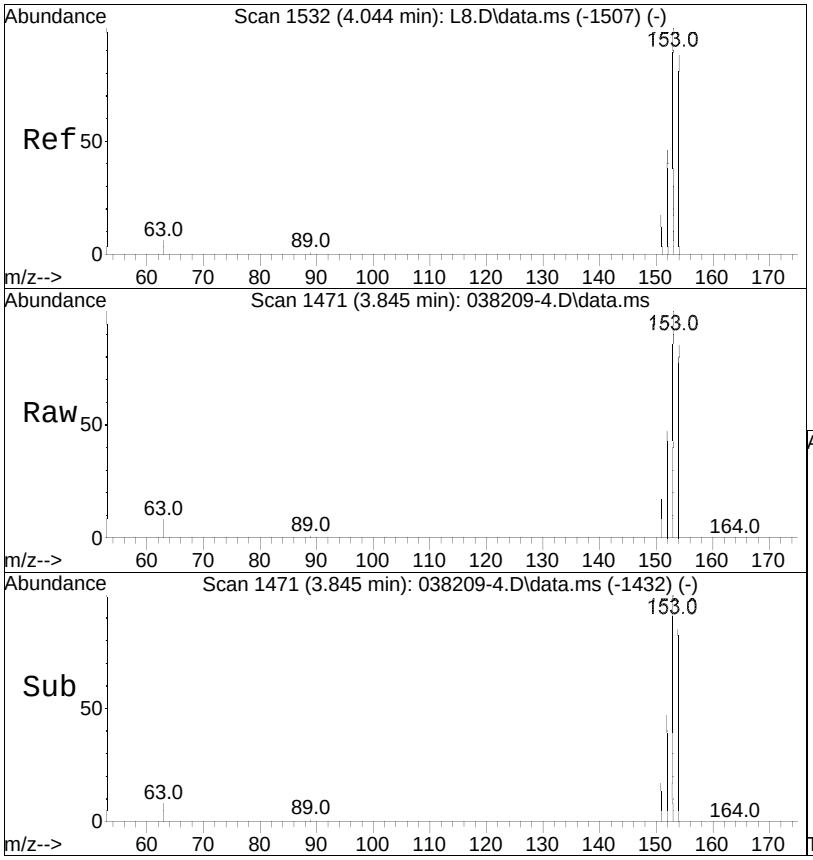


#17
Acenaphthylene
Concen: 1711.93 ng/ml
RT: 3.747 min Scan# 1421
Delta R.T. -0.002 min
Lab File: 038209-4.D
Acq: 11 Mar 2025 07:46 pm

Tgt Ion:152 Resp: 721064

Ion	Ratio	Lower	Upper
152	100		
151	20.3	15.9	23.9

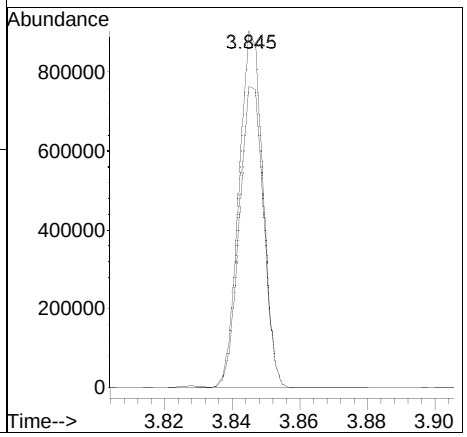


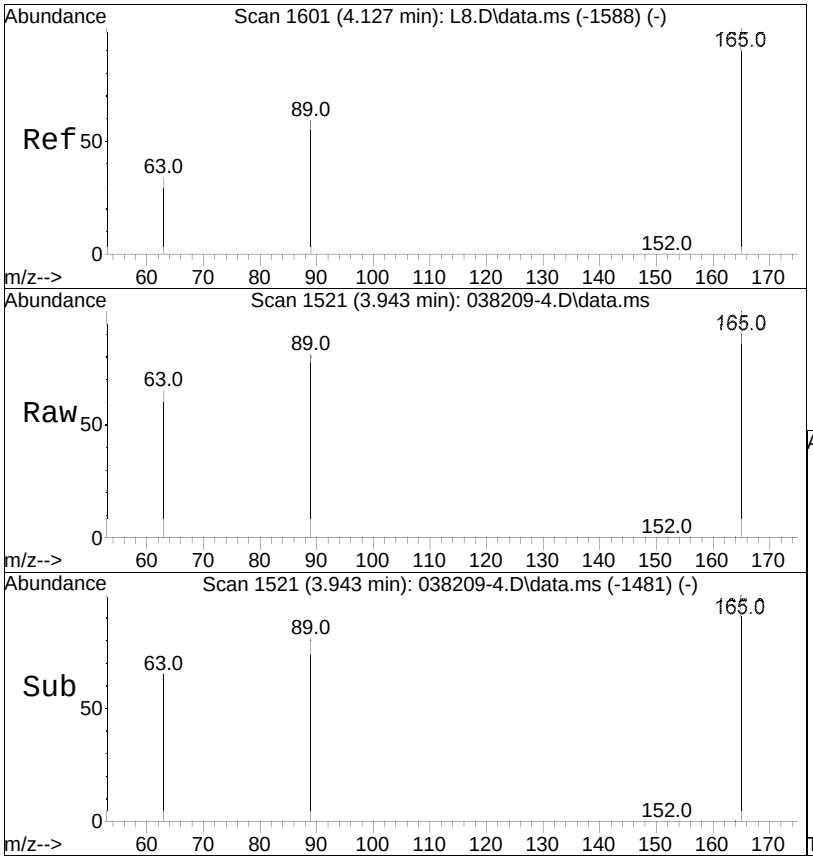


#19
Acenaphthene
Concen: 1837.38 ng/ml
RT: 3.845 min Scan# 1471
Delta R.T. -0.004 min
Lab File: 038209-4.D
Acq: 11 Mar 2025 07:46 pm

Tgt Ion:153 Resp: 440693

Ion	Ratio	Lower	Upper
153	100		
154	85.6	73.1	109.7

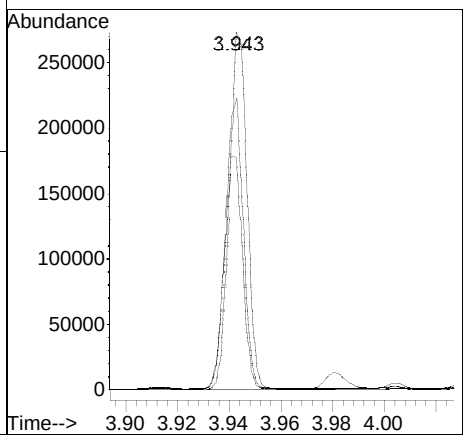


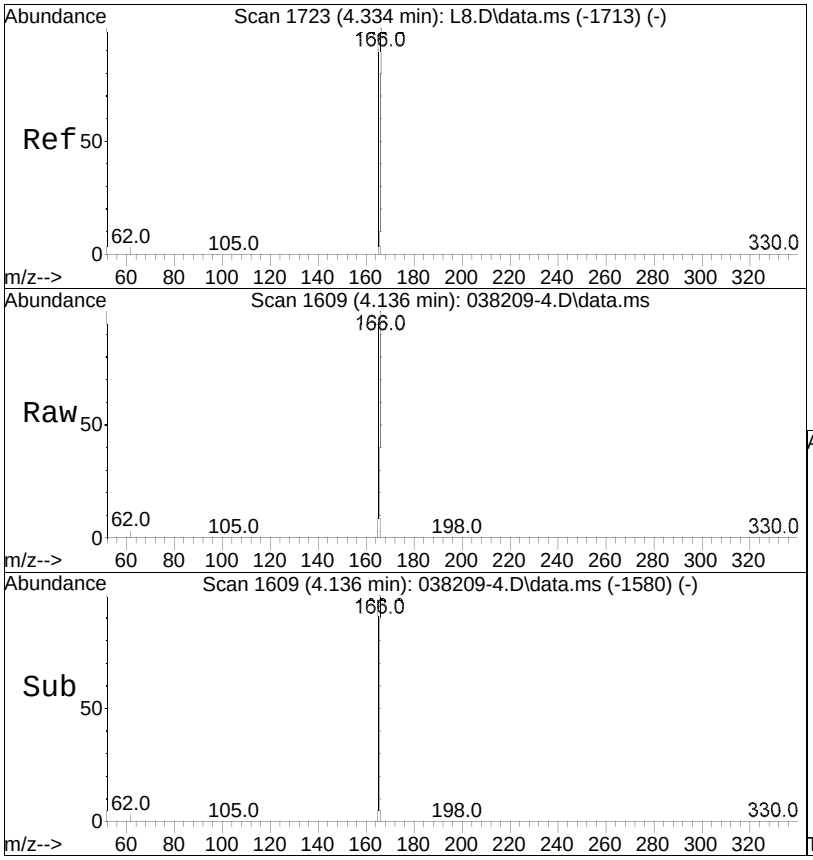


#20
2,4-Dinitrotoluene
Concen: 1676.01 ng/ml
RT: 3.943 min Scan# 1521
Delta R.T. -0.002 min
Lab File: 038209-4.D
Acq: 11 Mar 2025 07:46 pm

Tgt Ion:165 Resp: 127875

Ion	Ratio	Lower	Upper
165	100		
89	81.2	48.7	73.1#
63	67.5	28.6	42.8#

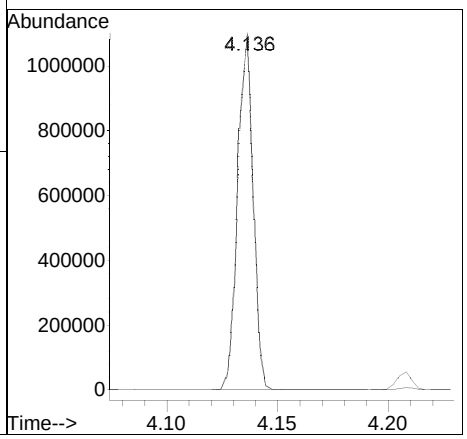


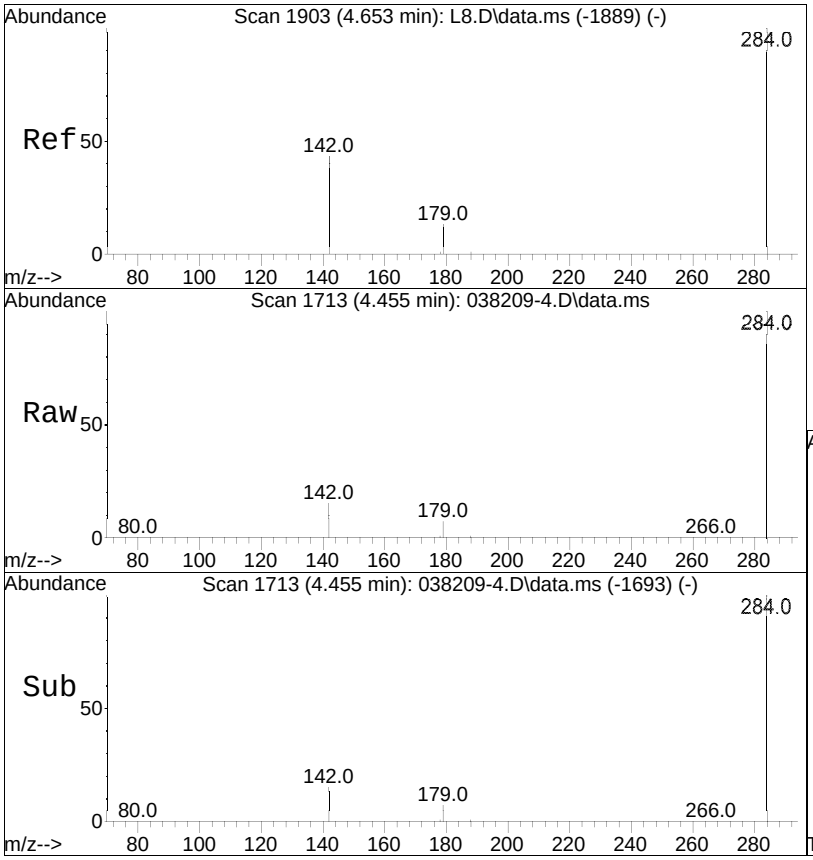


#21
Fluorene
Concen: 1929.83 ng/ml
RT: 4.136 min Scan# 1609
Delta R.T. -0.003 min
Lab File: 038209-4.D
Acq: 11 Mar 2025 07:46 pm

Tgt Ion:166 Resp: 531793

Ion	Ratio	Lower	Upper
166	100		
165	99.8	77.8	116.8

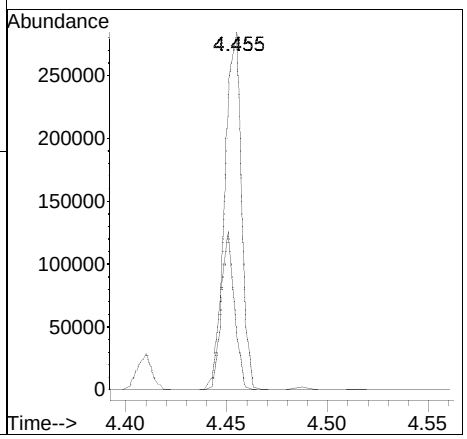


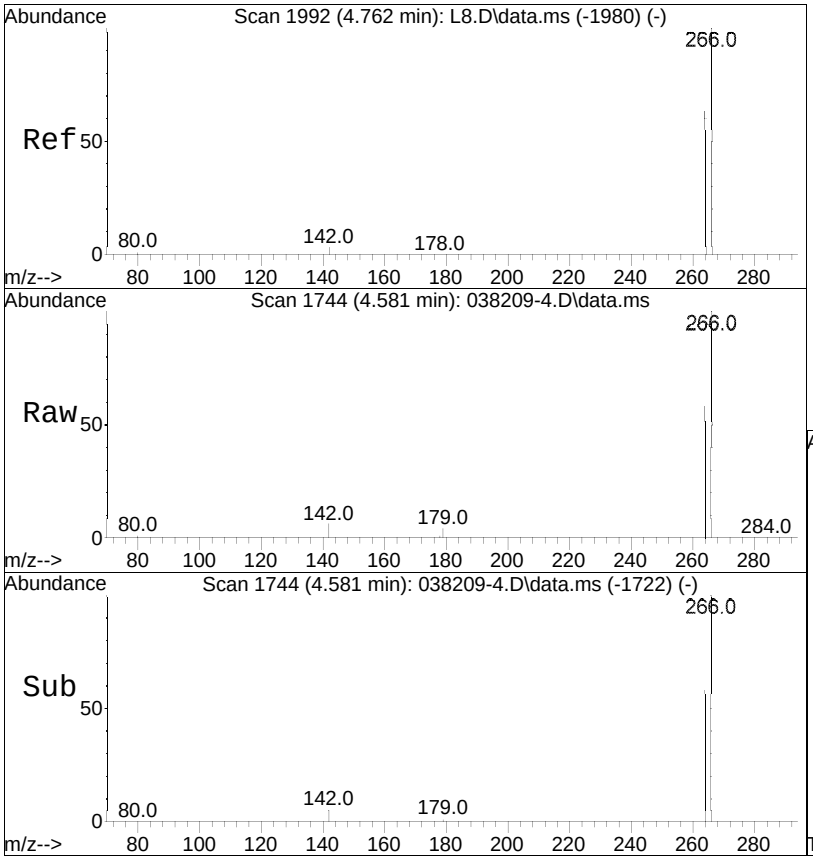


#25
Hexachlorobenzene
Concen: 2004.35 ng/ml
RT: 4.455 min Scan# 1713
Delta R.T. -0.003 min
Lab File: 038209-4.D
Acq: 11 Mar 2025 07:46 pm

Tgt Ion:284 Resp: 155251

Ion	Ratio	Lower	Upper
284	100		
142	39.1	33.8	50.6

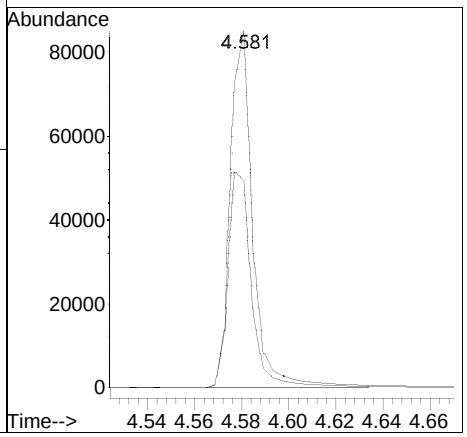


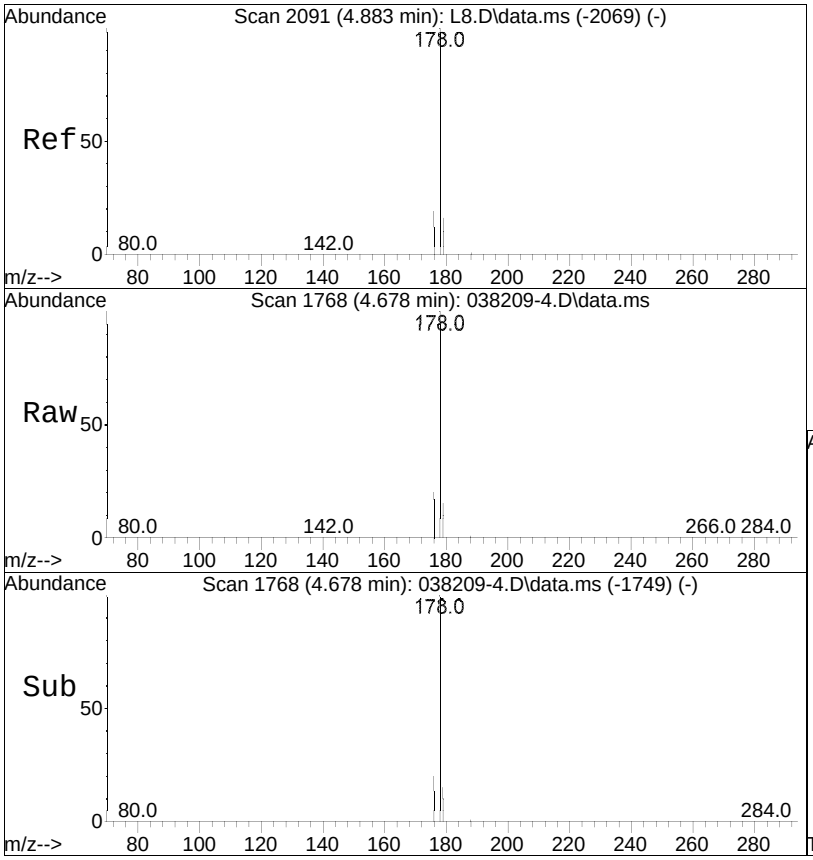


#26
Pentachlorophenol
Concen: 1405.01 ng/ml
RT: 4.581 min Scan# 1744
Delta R.T. 0.010 min
Lab File: 038209-4.D
Acq: 11 Mar 2025 07:46 pm

Tgt Ion:266 Resp: 56245

Ion	Ratio	Lower	Upper
266	100		
264	63.7	50.8	76.2

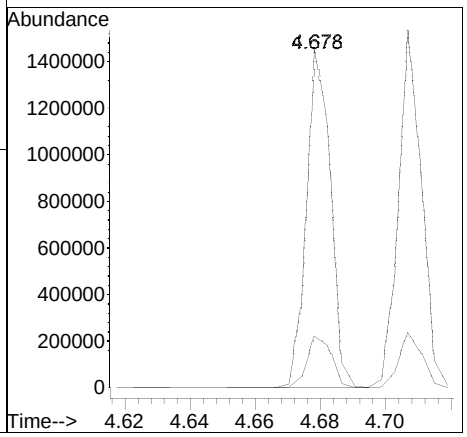


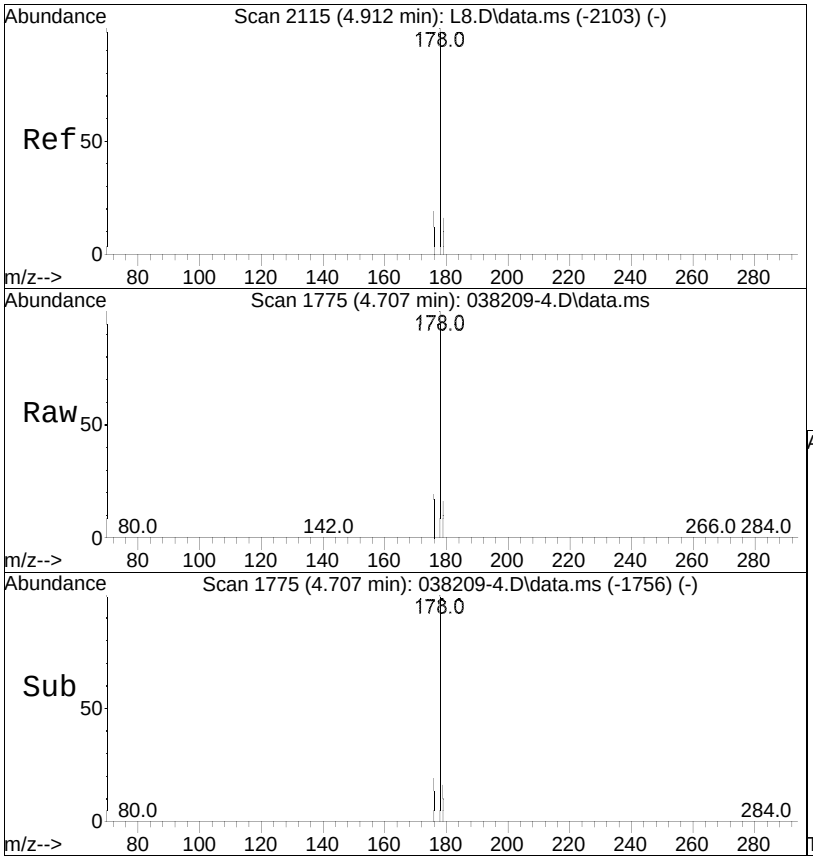


#27
Phenanthrene
Concen: 1935.48 ng/ml
RT: 4.678 min Scan# 1768
Delta R.T. -0.003 min
Lab File: 038209-4.D
Acq: 11 Mar 2025 07:46 pm

Tgt Ion:178 Resp: 743629

Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.8	19.2

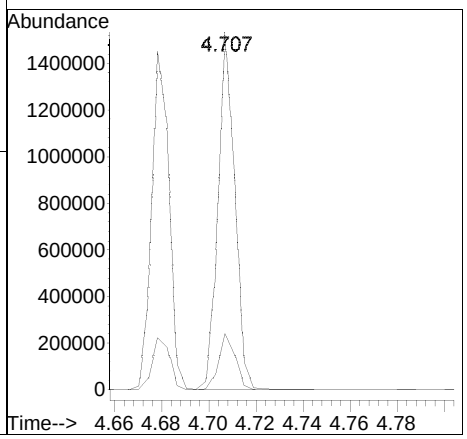


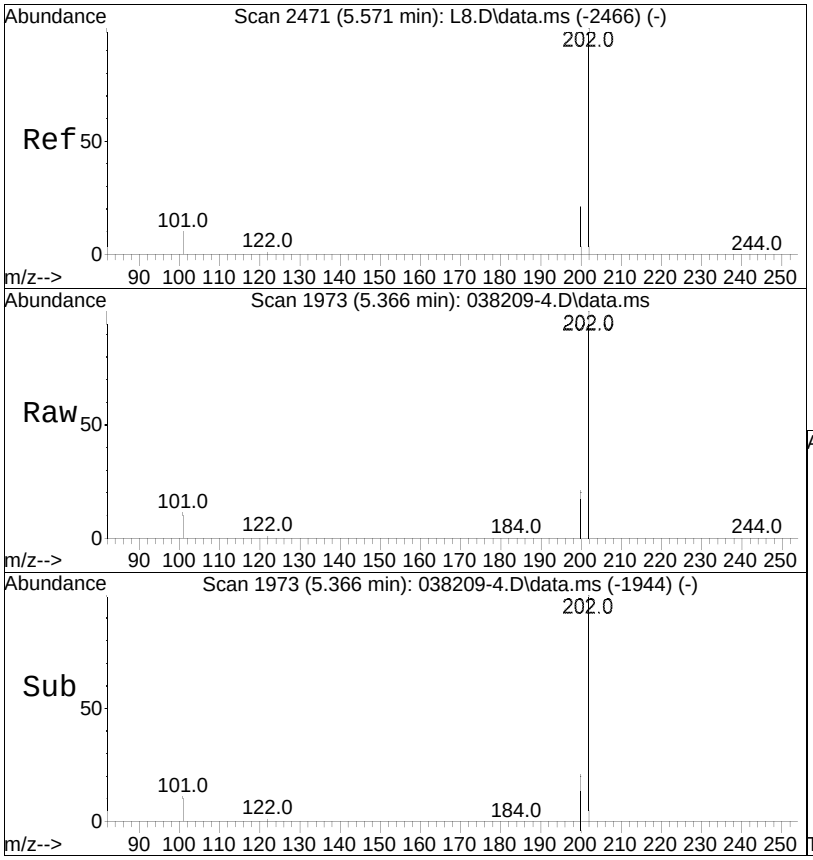


#28
Anthracene
Concen: 1968.57 ng/ml
RT: 4.707 min Scan# 1775
Delta R.T. -0.003 min
Lab File: 038209-4.D
Acq: 11 Mar 2025 07:46 pm

Tgt Ion:178 Resp: 758316

Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.6	18.8

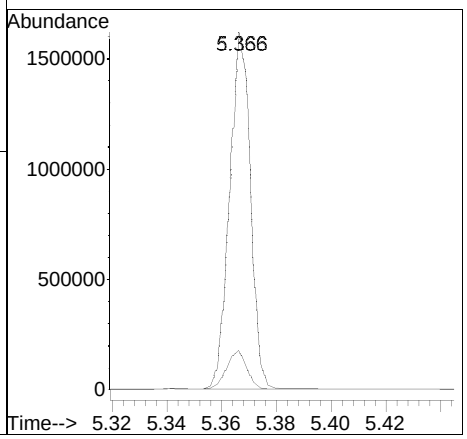


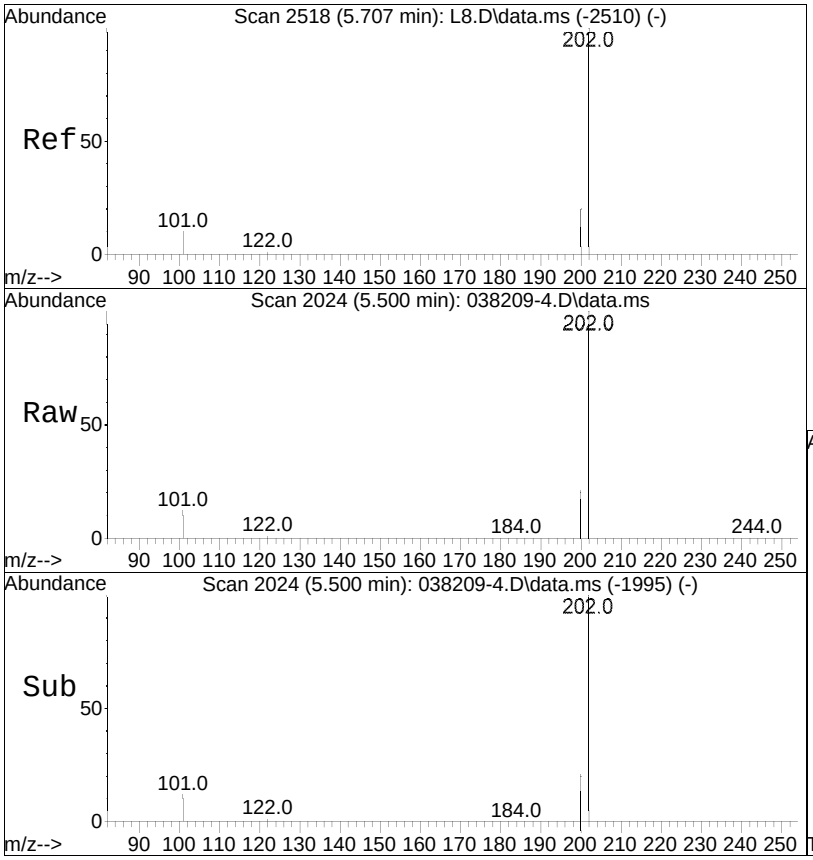


#29
Fluoranthene
Concen: 1751.83 ng/ml
RT: 5.366 min Scan# 1973
Delta R.T. -0.004 min
Lab File: 038209-4.D
Acq: 11 Mar 2025 07:46 pm

Tgt Ion:202 Resp: 842079

Ion	Ratio	Lower	Upper
202	100		
101	10.8	8.2	12.2

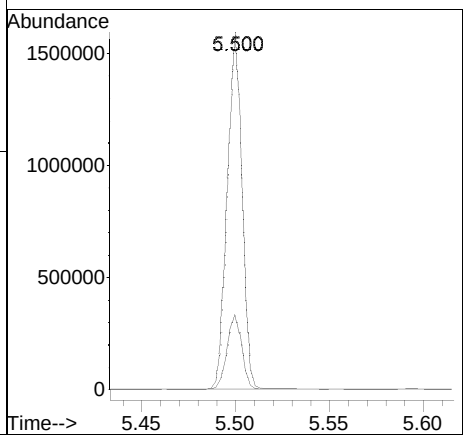


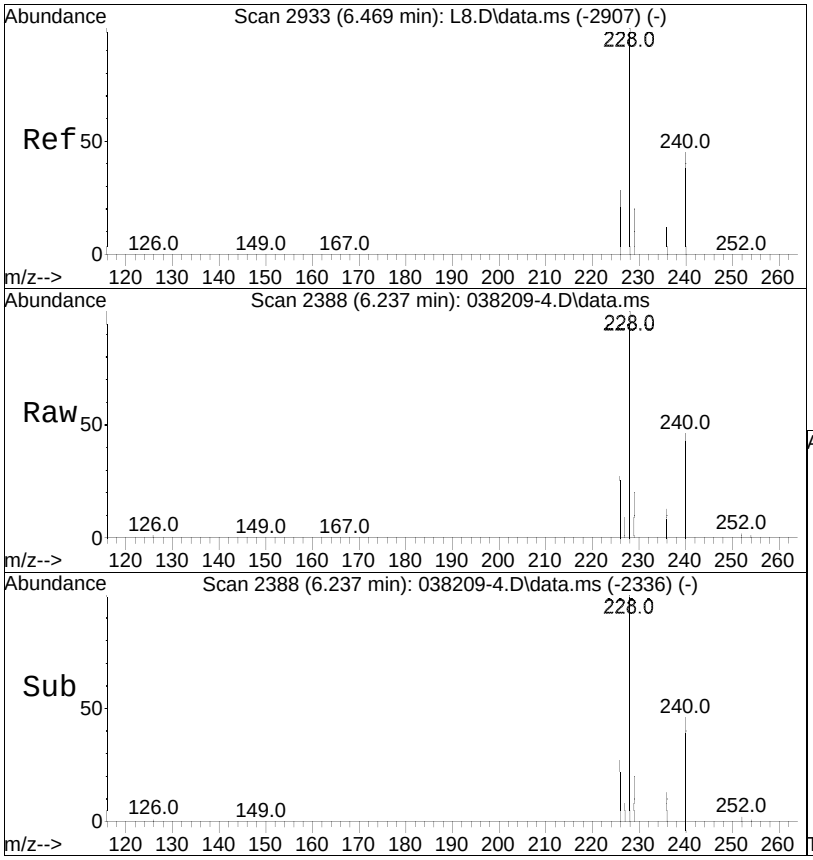


#30
Pyrene
Concen: 1729.20 ng/ml
RT: 5.500 min Scan# 2024
Delta R.T. -0.004 min
Lab File: 038209-4.D
Acq: 11 Mar 2025 07:46 pm

Tgt Ion:202 Resp: 857957

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.9	25.3

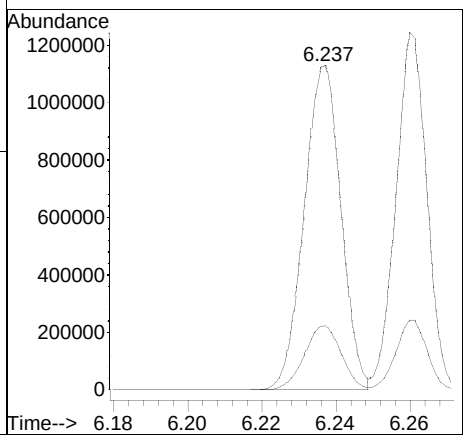


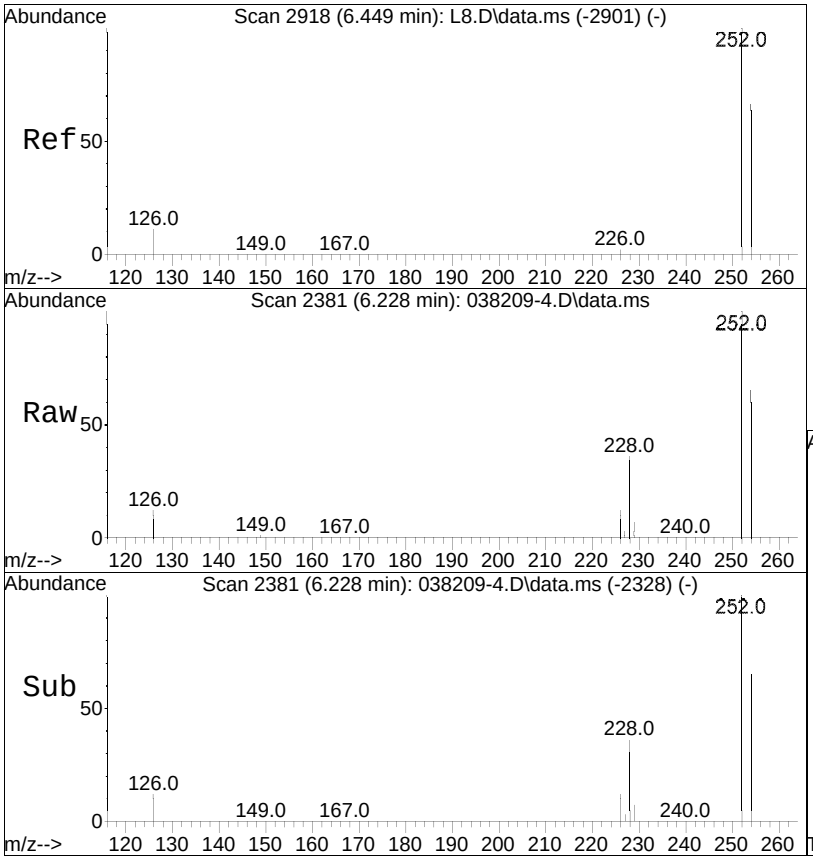


#34
Benzo[a]anthracene
Concen: 2087.00 ng/ml
RT: 6.237 min Scan# 2388
Delta R.T. -0.007 min
Lab File: 038209-4.D
Acq: 11 Mar 2025 07:46 pm

Tgt Ion:228 Resp: 776418

Ion	Ratio	Lower	Upper
228	100		
229	19.7	15.9	23.9

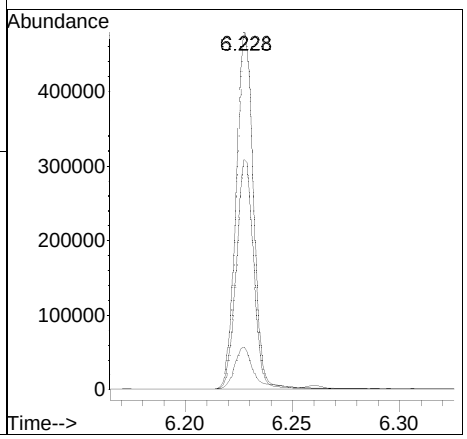


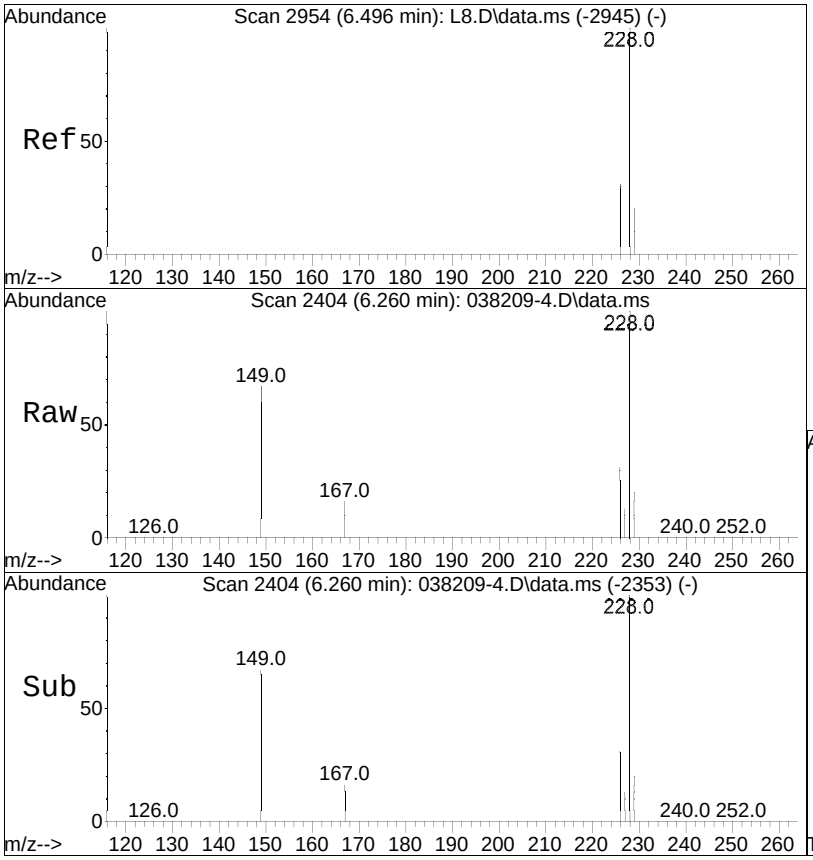


#35
3,3'-Dichlorobenzidine
Concen: 1982.82 ng/ml
RT: 6.228 min Scan# 2381
Delta R.T. -0.005 min
Lab File: 038209-4.D
Acq: 11 Mar 2025 07:46 pm

Tgt Ion:252 Resp: 266374

Ion	Ratio	Lower	Upper
252	100		
126	13.4	8.6	13.0#
254	64.5	51.8	77.8

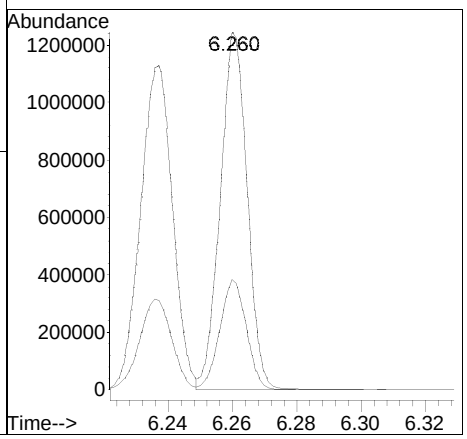


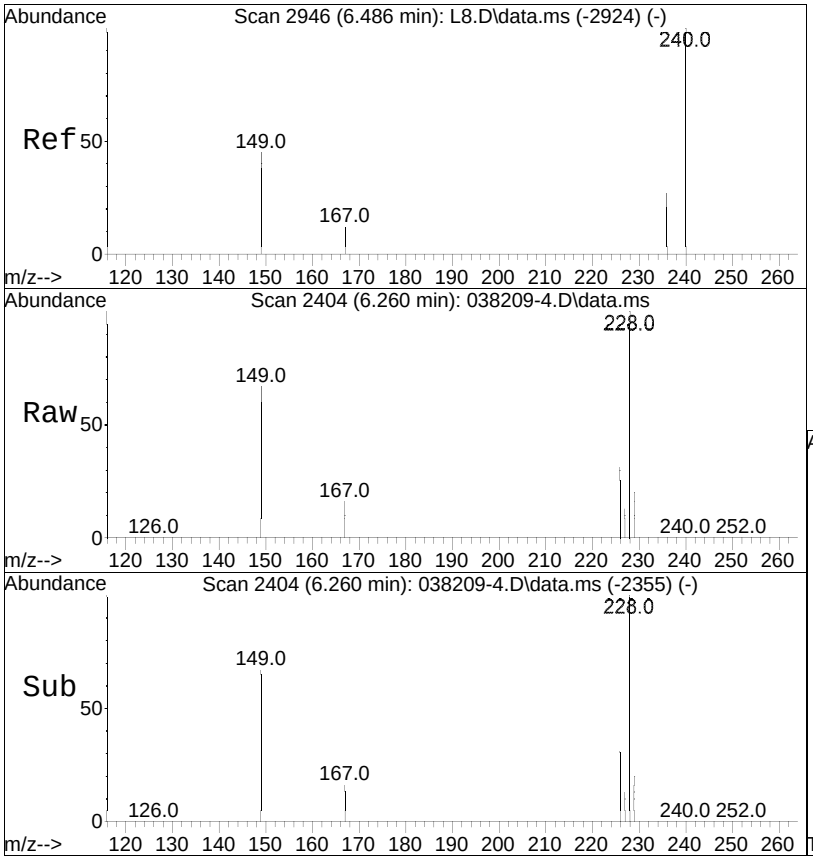


#36
Chrysene
Concen: 1981.00 ng/ml
RT: 6.260 min Scan# 2404
Delta R.T. -0.008 min
Lab File: 038209-4.D
Acq: 11 Mar 2025 07:46 pm

Tgt Ion:228 Resp: 719255

Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.4	36.6

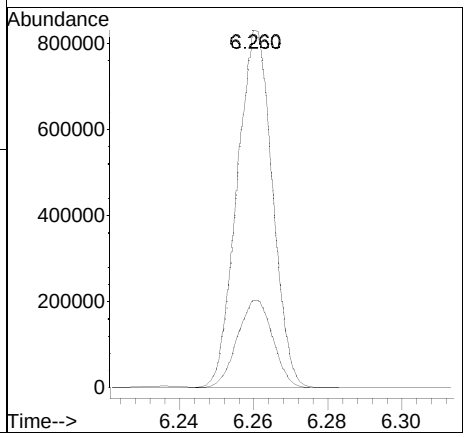


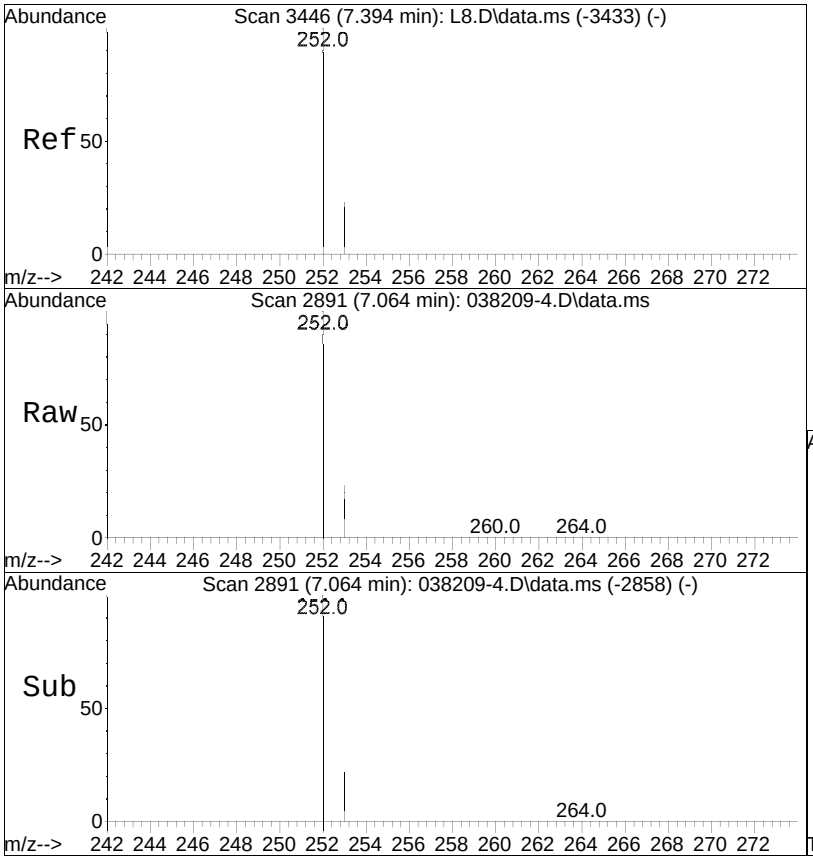


#37
Bis(2-ethylhexyl)phthalate
Concen: 2891.98 ng/ml
RT: 6.260 min Scan# 2404
Delta R.T. -0.011 min
Lab File: 038209-4.D
Acq: 11 Mar 2025 07:46 pm

Tgt Ion:149 Resp: 544716

Ion	Ratio	Lower	Upper
149	100		
167	24.7	20.7	31.1

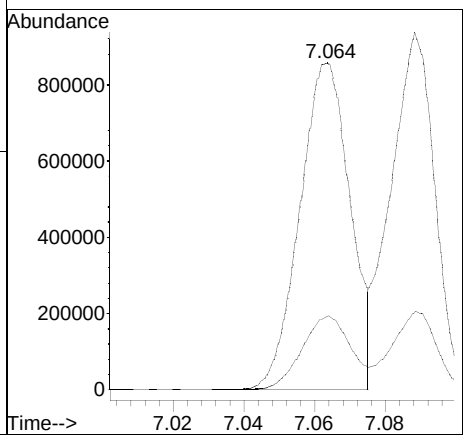


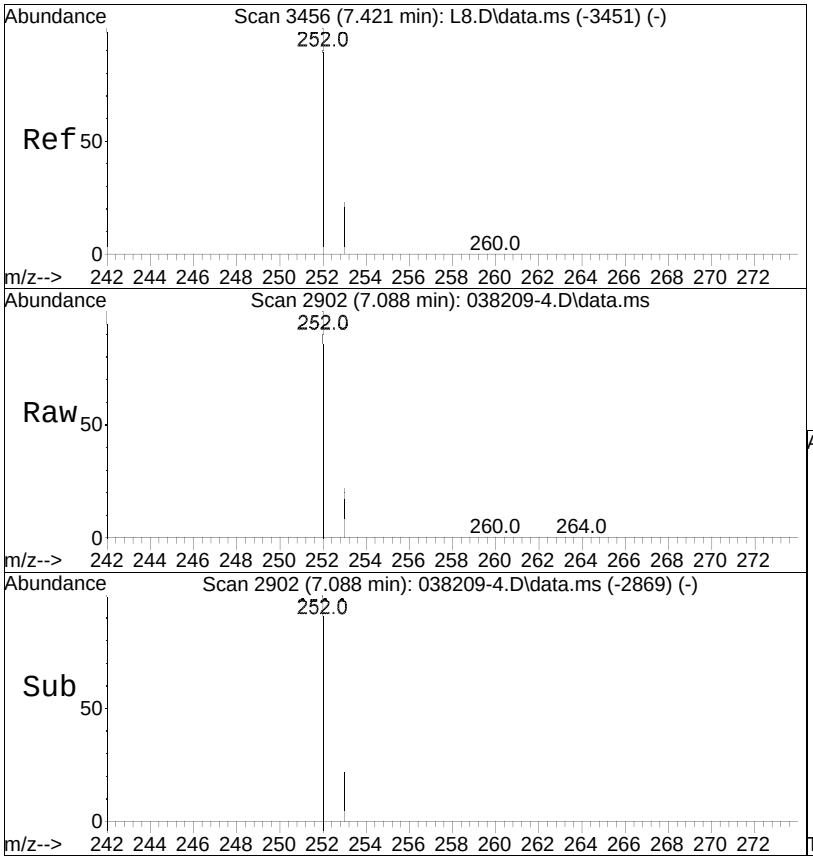


#39
Benzo[b]fluoranthene
Concen: 2075.01 ng/ml
RT: 7.064 min Scan# 2891
Delta R.T. -0.006 min
Lab File: 038209-4.D
Acq: 11 Mar 2025 07:46 pm

Tgt Ion:252 Resp: 853052

Ion	Ratio	Lower	Upper
252	100		
253	21.8	18.1	27.1

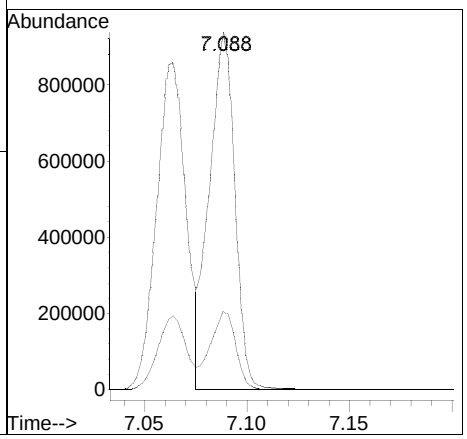


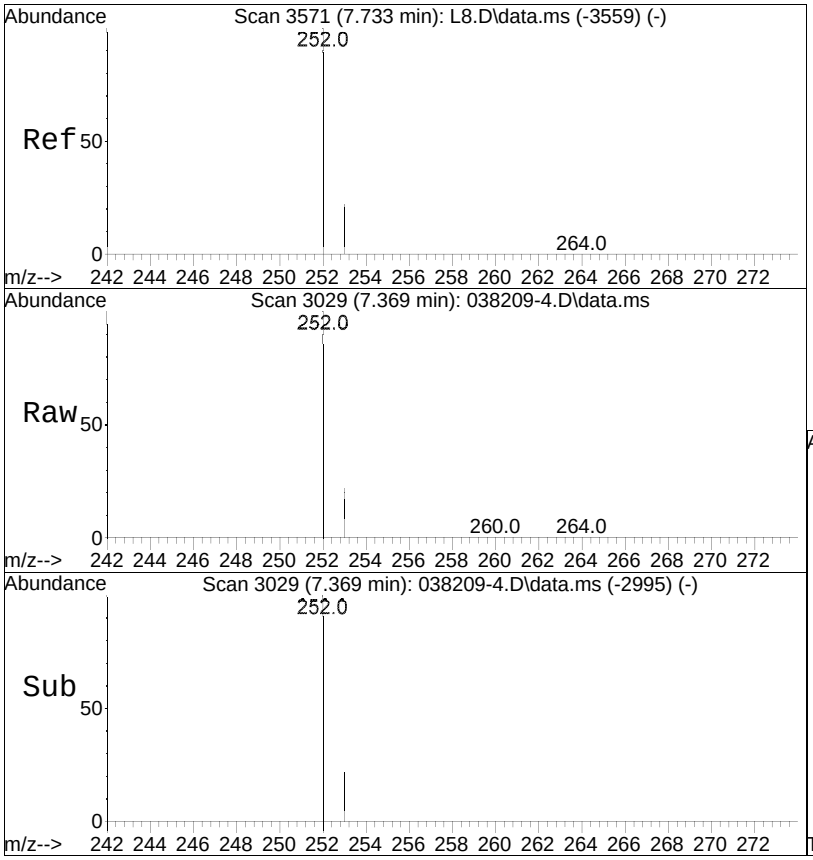


#40
Benzo[k]fluoranthene
Concen: 1987.97 ng/ml
RT: 7.088 min Scan# 2902
Delta R.T. -0.006 min
Lab File: 038209-4.D
Acq: 11 Mar 2025 07:46 pm

Tgt Ion:252 Resp: 805941

Ion	Ratio	Lower	Upper
252	100		
253	22.2	18.2	27.2

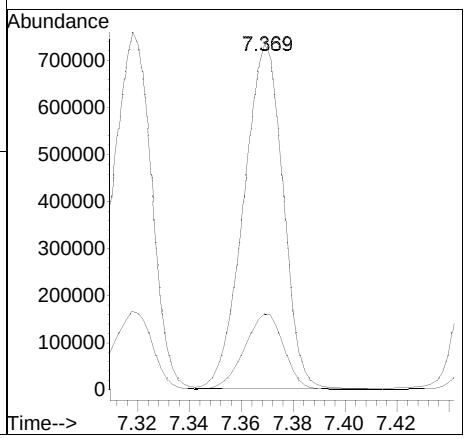


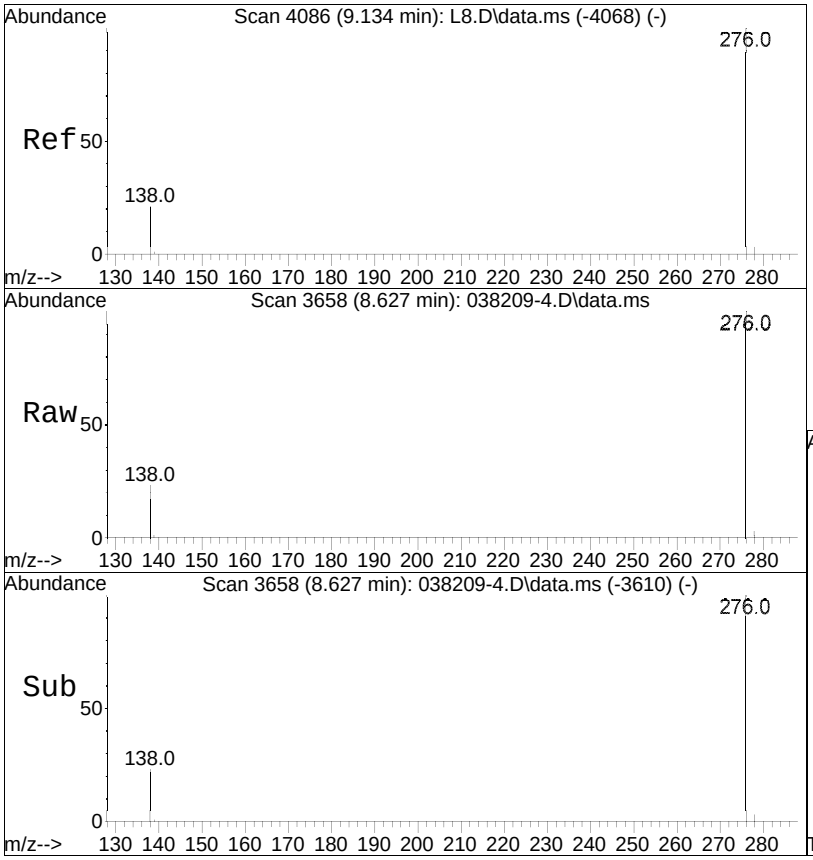


#41
Benzo[a]pyrene
Concen: 2213.73 ng/ml
RT: 7.369 min Scan# 3029
Delta R.T. -0.004 min
Lab File: 038209-4.D
Acq: 11 Mar 2025 07:46 pm

Tgt Ion:252 Resp: 772227

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.9	26.9

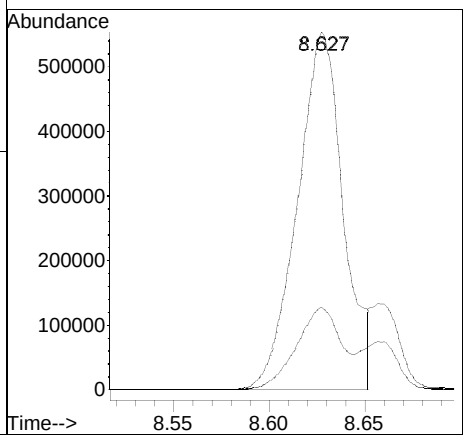


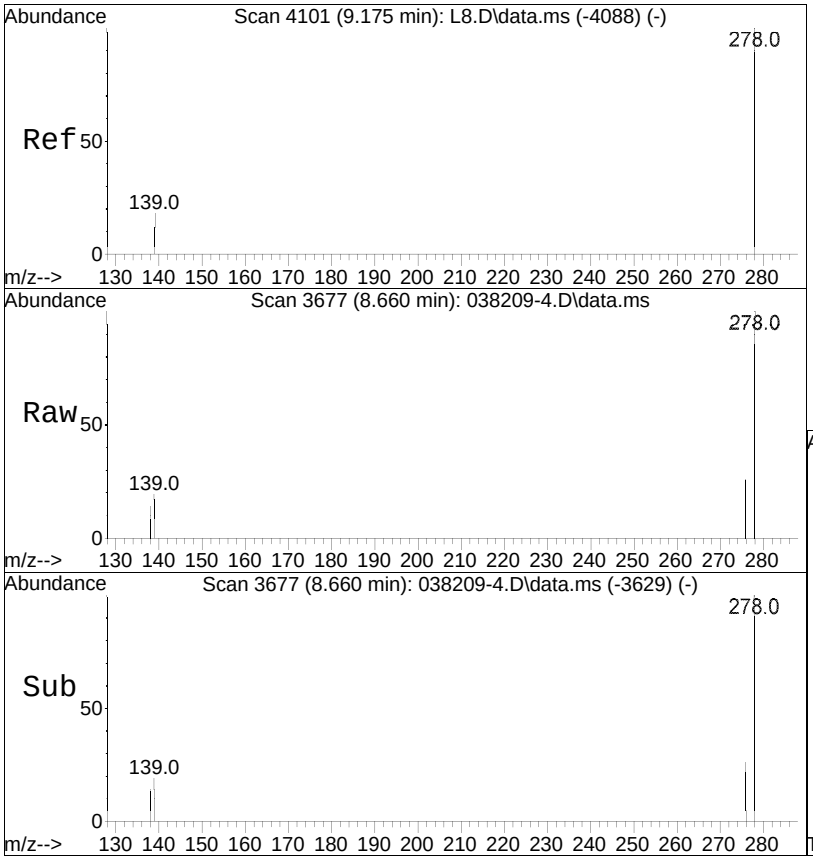


#42
Indeno[1,2,3-cd]pyrene
Concen: 2699.33 ng/ml
RT: 8.627 min Scan# 3658
Delta R.T. 0.004 min
Lab File: 038209-4.D
Acq: 11 Mar 2025 07:46 pm

Tgt Ion:276 Resp: 911607

Ion	Ratio	Lower	Upper
276	100		
138	22.7	16.9	25.3

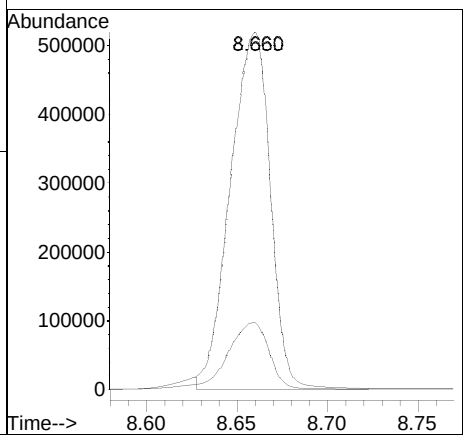


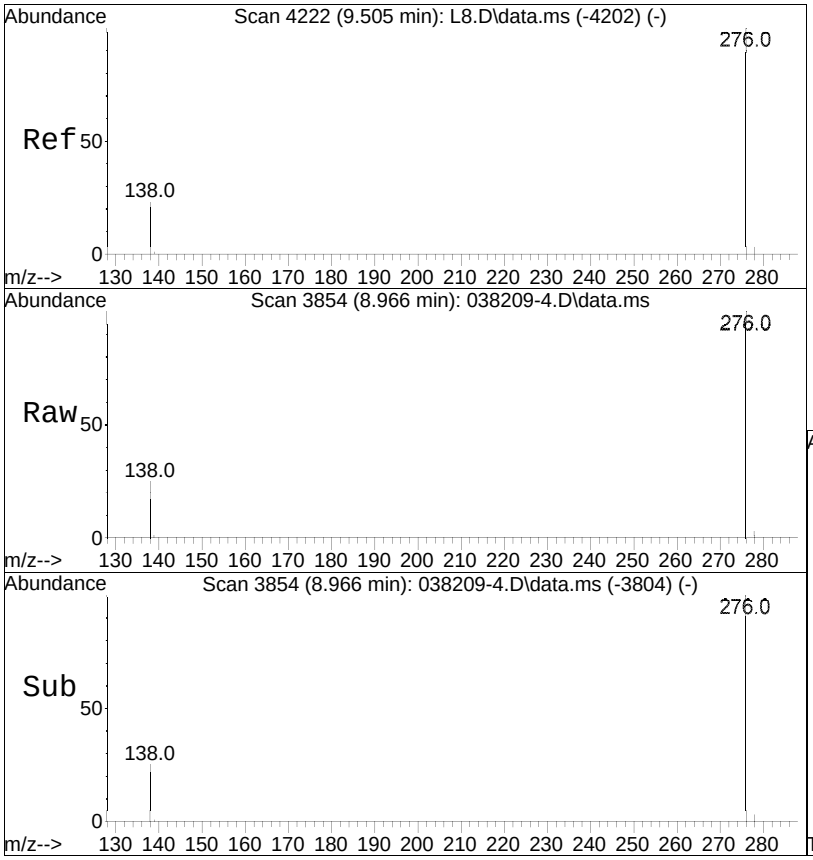


#43
Dibenzo[a,h]anthracene
Concen: 2535.27 ng/ml M6
RT: 8.660 min Scan# 3677
Delta R.T. 0.004 min
Lab File: 038209-4.D
Acq: 11 Mar 2025 07:46 pm

Tgt Ion:278 Resp: 794281

Ion	Ratio	Lower	Upper
278	100		
139	19.6	14.6	22.0

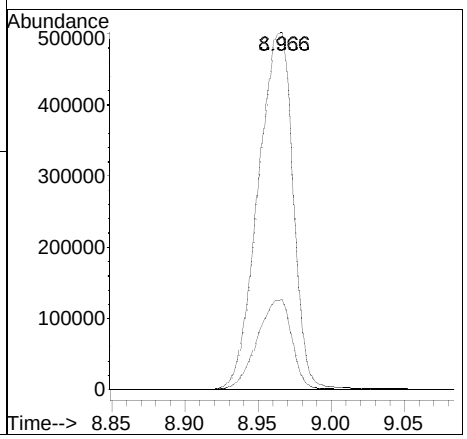




#44
Benzo[g,h,i]perylene
Concen: 2562.85 ng/ml
RT: 8.966 min Scan# 3854
Delta R.T. 0.007 min
Lab File: 038209-4.D
Acq: 11 Mar 2025 07:46 pm

Tgt Ion:276 Resp: 823780

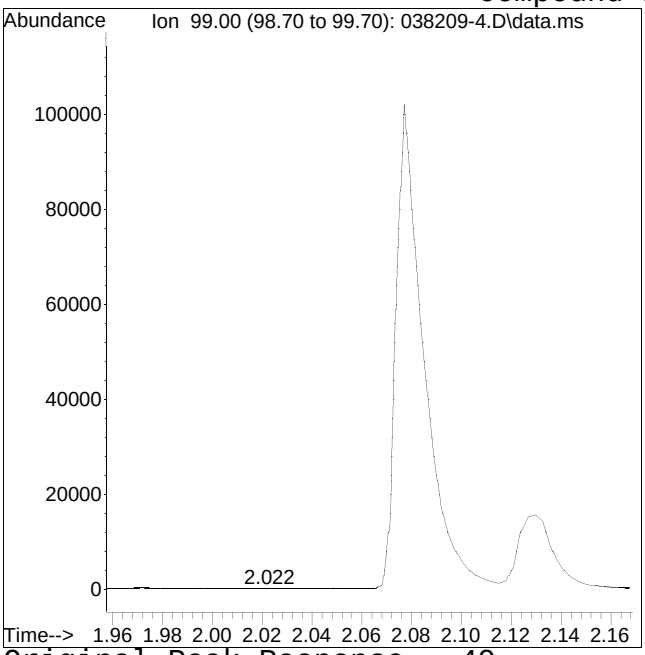
Ion	Ratio	Lower	Upper
276	100		
138	25.1	18.6	28.0



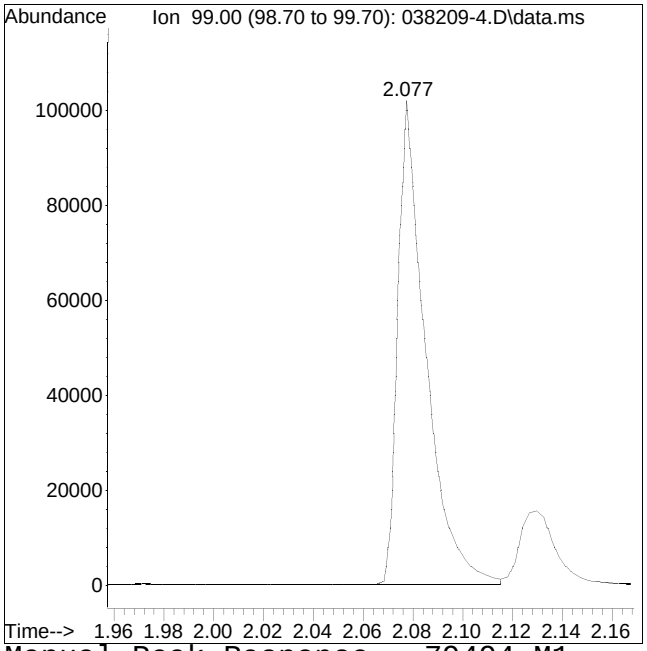
Manual Integration Report

Data Path : I:\8270SIM\sv119\250311bRVQMethod : SIM-RVT_241229_sv119.M
Data File : 038209-4.D Operator : sv119:jjw
Date Inj'd : 3/11/2025 7:46 pm Instrument : SV119
Sample : WG2038209-4,32,,kmh Quant Date : 3/11/2025 8:00 pm

Compound #4: Phenol-d6



Original Peak Response = 49



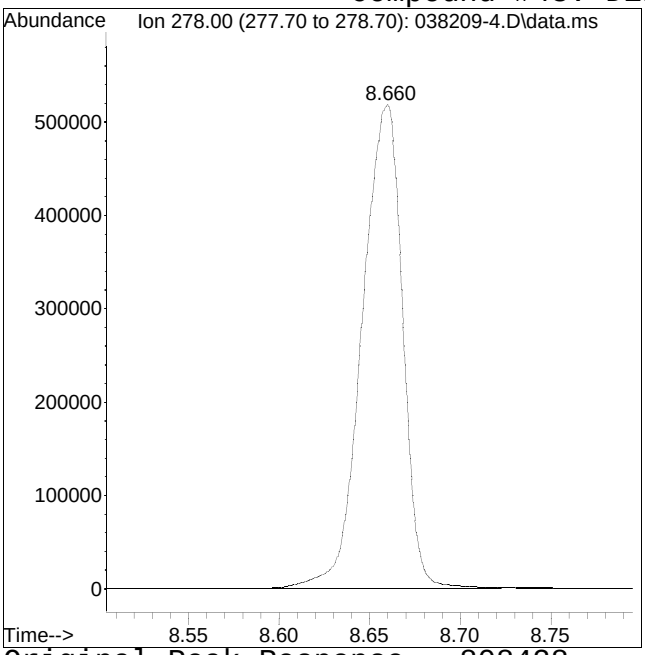
Manual Peak Response = 79494 M1

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

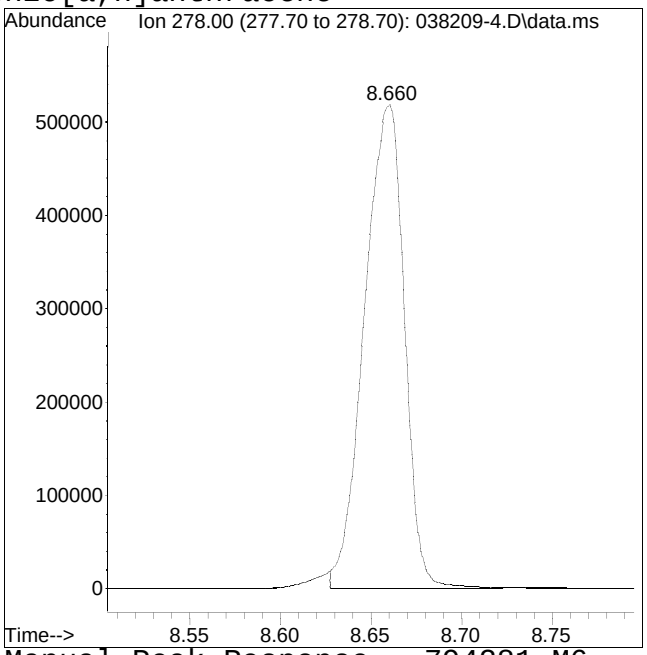
Manual Integration Report

Data Path : I:\8270SIM\sv119\250311bRVQMethod : SIM-RVT_241229_sv119.M
Data File : 038209-4.D Operator : sv119:jjw
Date Inj'd : 3/11/2025 7:46 pm Instrument : SV119
Sample : WG2038209-4,32,,kmh Quant Date : 3/11/2025 8:00 pm

Compound #43: Dibenzo[a,h]anthracene



Original Peak Response = 808428



Manual Peak Response = 794281 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250311bRVT\
Data File : 038209-5.D
Acq On : 11 Mar 2025 08:03 pm
Operator : sv119:jjw
Sample : WG2038209-5,32,,kmh
Misc : WG2039073,WG2038209,ical21826
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Mar 12 11:08:59 2025
Quant Method : I:\8270sim\sv119\250311bRVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 11 12:33:32 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250311bRVT\ccv0311b.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.214	152	346404	4000.000	ng/ml	0.00
Standard Area 1 = 325676			Recovery = 106.36%			
9) Naphthalene-d8	2.862	136	1333618	4000.000	ng/ml	0.00
Standard Area 1 = 1225929			Recovery = 108.78%			
18) Acenaphthene-d10	3.829	164	703085	4000.000	ng/ml	0.00
Standard Area 1 = 688151			Recovery = 102.17%			
23) Phenanthrene-d10	4.669	188	1254097	4000.000	ng/ml	0.00
Standard Area 1 = 1410915			Recovery = 88.89%			
33) Chrysene-d12	6.246	240	1020491	4000.000	ng/ml	0.00
Standard Area 1 = 1283861			Recovery = 79.49%			
38) Perylene-d12	7.433	264	1167916	4000.000	ng/ml	0.00
Standard Area 1 = 1327611			Recovery = 87.97%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.687	112	92580	997.470	ng/ml	0.03
Spiked Amount 2000.000	Range 15 - 110		Recovery = 49.87%			
4) Phenol-d6	2.077	99	89724	774.524	ng/ml	0.04
Spiked Amount 2000.000	Range 15 - 110		Recovery = 38.73%			
8) Nitrobenzene-d5	2.491	82	119319	1062.162	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 106.22%			
14) 2-Fluorobiphenyl	3.451	172	293007	901.016	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 90.10%			
22) 2,4,6-Tribromophenol	4.280	330	48364	1576.089	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 78.80%			
32) 4-Terphenyl-d14	5.595	244	269626	866.652	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 86.67%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	0.000		0	N.D.		
5) Bis(2-chloroethyl)ether	2.086	93	251853	2355.450	ng/ml	98
6) n-nitrosodi-n-propylamine	2.411	70	166832	2328.129	ng/ml	100
7) Hexachloroethane	2.459	117	57897	1289.487	ng/ml	95
10) Naphthalene	2.872	128	631394	1697.544	ng/ml	100
11) Hexachlorobutadiene	2.940	225	84380	1289.112	ng/ml	100
12) 2-Methylnaphthalene	3.248	142	396445	1525.257	ng/ml	99
13) 1-Methylnaphthalene	3.300	142	405293	1693.473	ng/ml	98
15) 2-Chloronaphthalene	3.515	162	437831	1630.995	ng/ml#	84
16) 2,6-Dinitrotoluene	3.716	165	114460	1730.191	ng/ml#	88
17) Acenaphthylene	3.747	152	759931	1827.975	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250311bRVT\
Data File : 038209-5.D
Acq On : 11 Mar 2025 08:03 pm
Operator : sv119:jjw
Sample : WG2038209-5,32,,kmh
Misc : WG2039073,WG2038209,ical21826
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Mar 12 11:08:59 2025
Quant Method : I:\8270sim\sv119\250311bRVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 11 12:33:32 2025
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250311bRVT\ccv0311b.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) Acenaphthene	3.845	153	464106	1979.212	ng/ml	94
20) 2,4-Dinitrotoluene	3.945	165	135949	1822.554	ng/ml#	63
21) Fluorene	4.136	166	551071	2045.488	ng/ml	98
24) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
25) Hexachlorobenzene	4.454	284	158865	2149.071	ng/ml	97
26) Pentachlorophenol	4.580	266	61724	1598.870	ng/ml	100
27) Phenanthrene	4.681	178	781187	2130.438	ng/ml	99
28) Anthracene	4.709	178	777360	2114.486	ng/ml	100
29) Fluoranthene	5.368	202	878505	1914.987	ng/ml	98
30) Pyrene	5.501	202	893989	1887.968	ng/ml	100
31) Benzidine	5.454	184	6125	No Calib #		
34) Benzo[a]anthracene	6.237	228	820752	2280.427	ng/ml	100
35) 3,3'-Dichlorobenzidine	6.229	252	279709	2149.180	ng/ml#	98
36) Chrysene	6.261	228	746300	2124.004	ng/ml	99
37) Bis(2-ethylhexyl)phtha...	6.260	149	565851	3104.327	ng/ml	97
39) Benzo[b]fluoranthene	7.064	252	863895	2231.894	ng/ml	99
40) Benzo[k]fluoranthene	7.088	252	841397	2204.330	ng/ml	97
41) Benzo[a]pyrene	7.369	252	792435	2412.741	ng/ml	99
42) Indeno[1,2,3-cd]pyrene	8.627	276	943576	2967.523	ng/ml	96
43) Dibenzo[a,h]anthracene	8.658	278	841586M6	2853.102	ng/ml	
44) Benzo[g,h,i]perylene	8.966	276	871963	2881.234	ng/ml	96

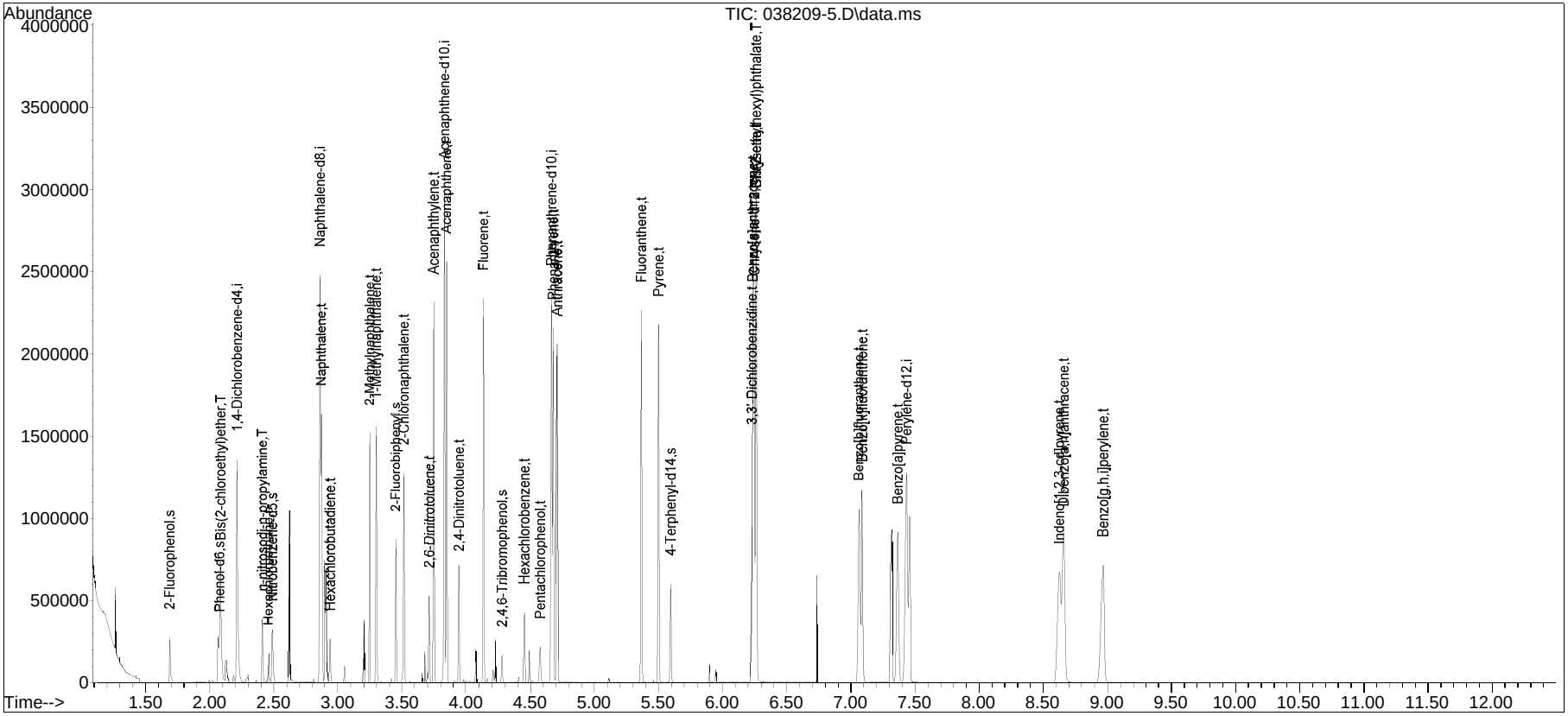
(#) = qualifier out of range (m) = manual integration (+) = signals summed

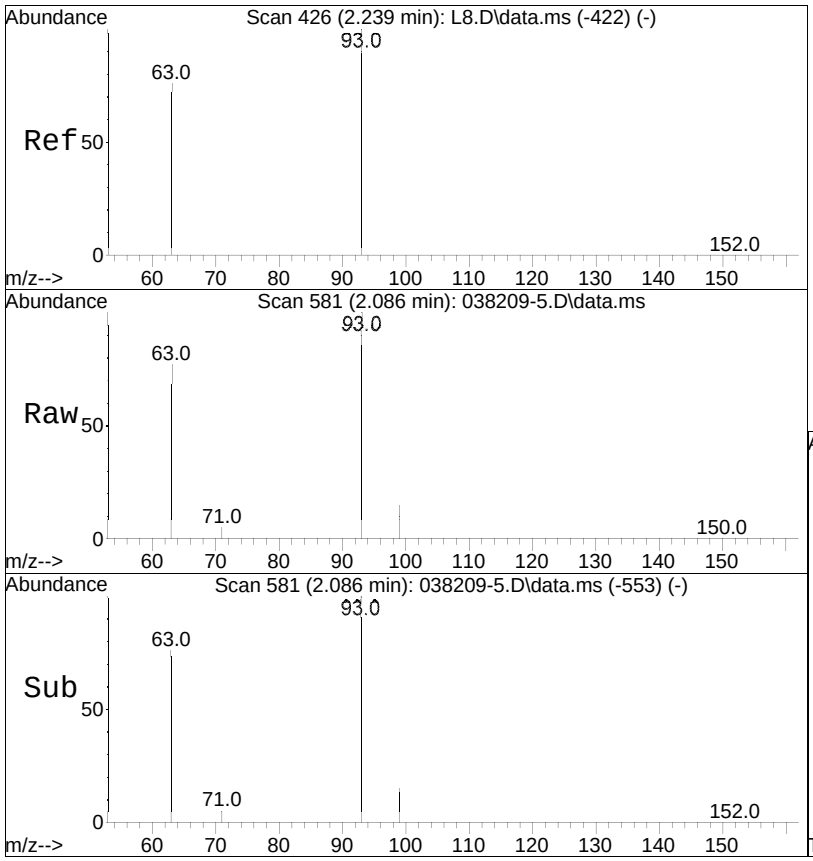
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250311bRVT\
Data File : 038209-5.D
Acq On : 11 Mar 2025 08:03 pm
Operator : sv119:jjw
Sample : WG2038209-5,32,,kmh
Misc : WG2039073,WG2038209,ical21826
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Mar 12 11:08:59 2025
Quant Method : I:\8270sim\sv119\250311bRVT\SIM-RVT_241229_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Mar 11 12:33:32 2025
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedT\ccv0311b.D•

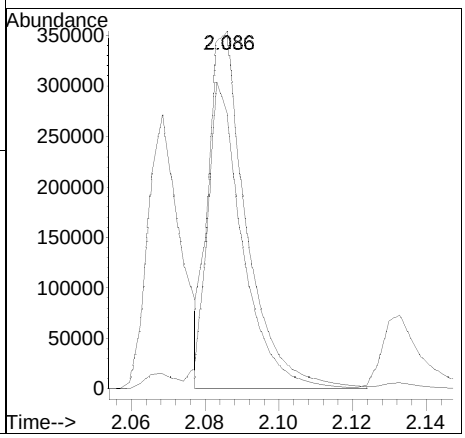


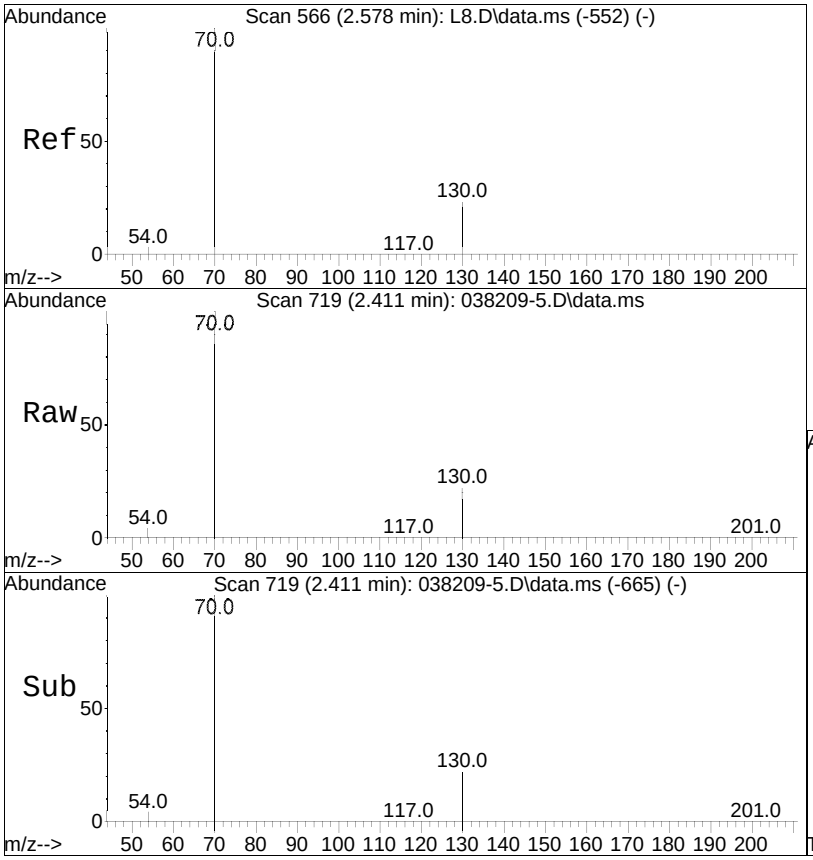


#5
Bis(2-chloroethyl)ether
Concen: 2355.45 ng/ml
RT: 2.086 min Scan# 581
Delta R.T. 0.003 min
Lab File: 038209-5.D
Acq: 11 Mar 2025 08:03 pm

Tgt Ion: 93 Resp: 251853

Ion	Ratio	Lower	Upper
93	100		
63	78.8	61.7	92.5

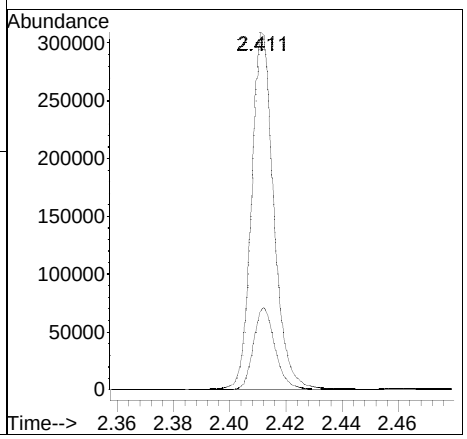


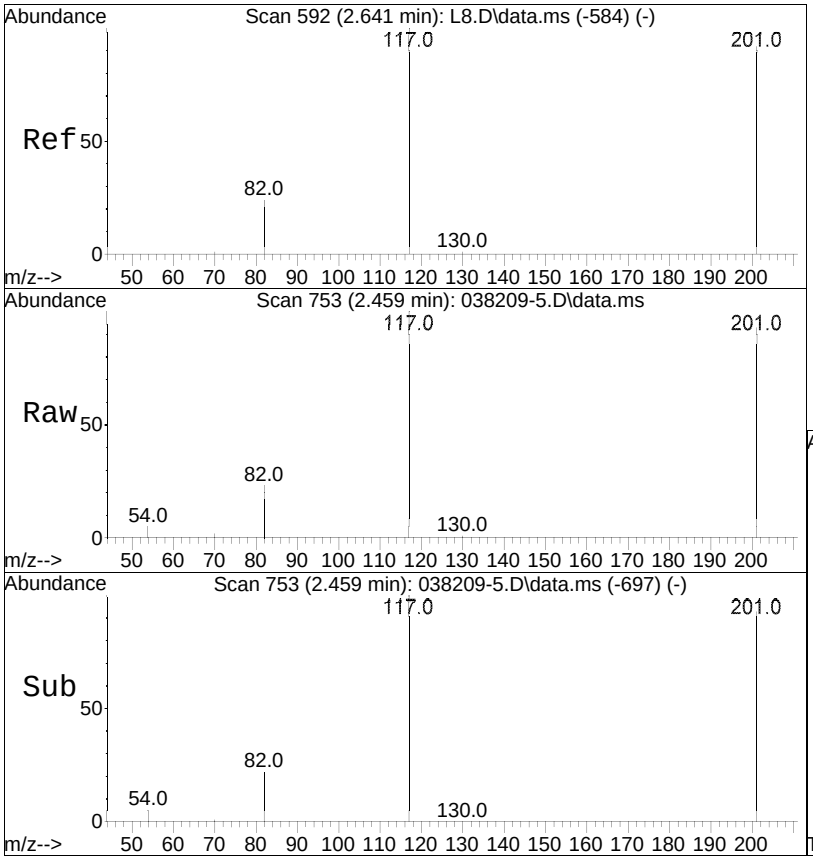


#6
n-nitrosodi-n-propylamine
Concen: 2328.13 ng/ml
RT: 2.411 min Scan# 719
Delta R.T. 0.000 min
Lab File: 038209-5.D
Acq: 11 Mar 2025 08:03 pm

Tgt Ion: 70 Resp: 166832

Ion	Ratio	Lower	Upper
70	100		
130	22.4	18.1	27.1

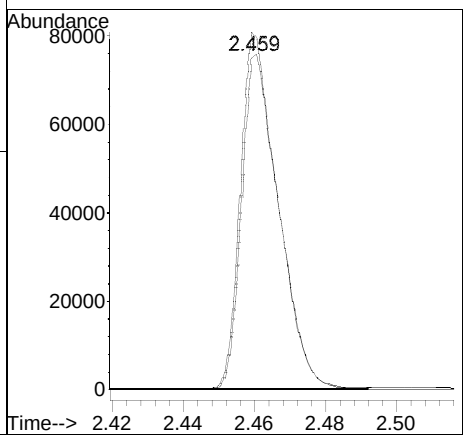


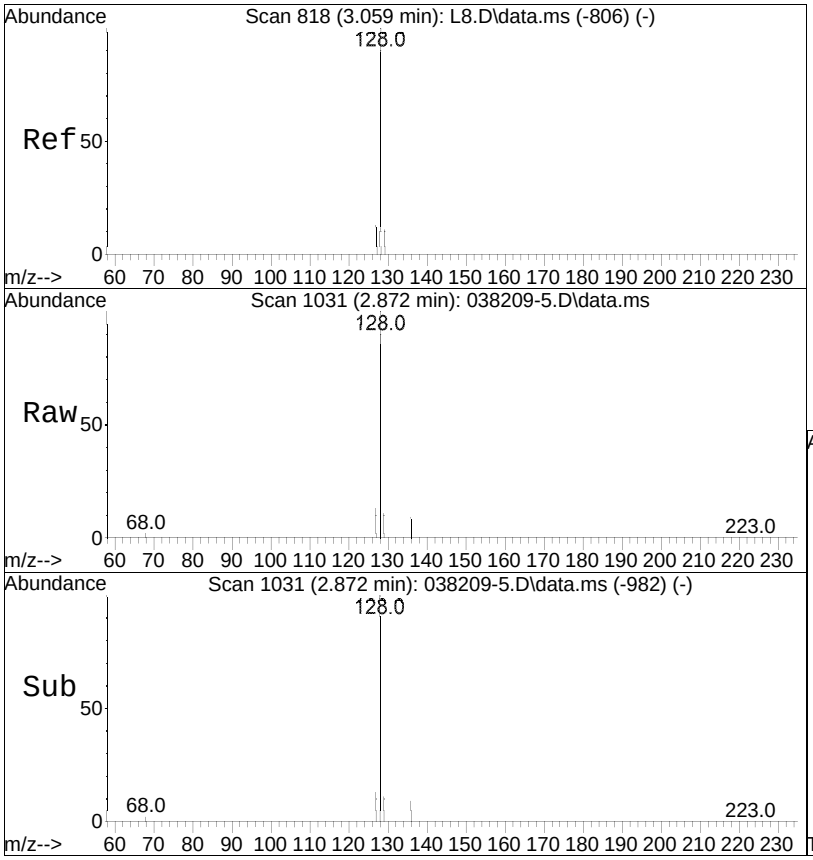


#7
Hexachloroethane
Concen: 1289.49 ng/ml
RT: 2.459 min Scan# 753
Delta R.T. -0.001 min
Lab File: 038209-5.D
Acq: 11 Mar 2025 08:03 pm

Tgt Ion:117 Resp: 57897

Ion	Ratio	Lower	Upper
117	100		
201	94.3	79.3	118.9

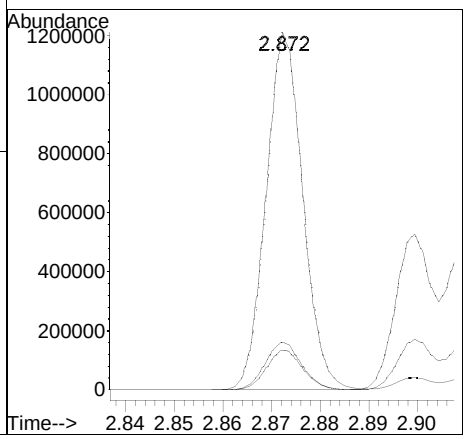


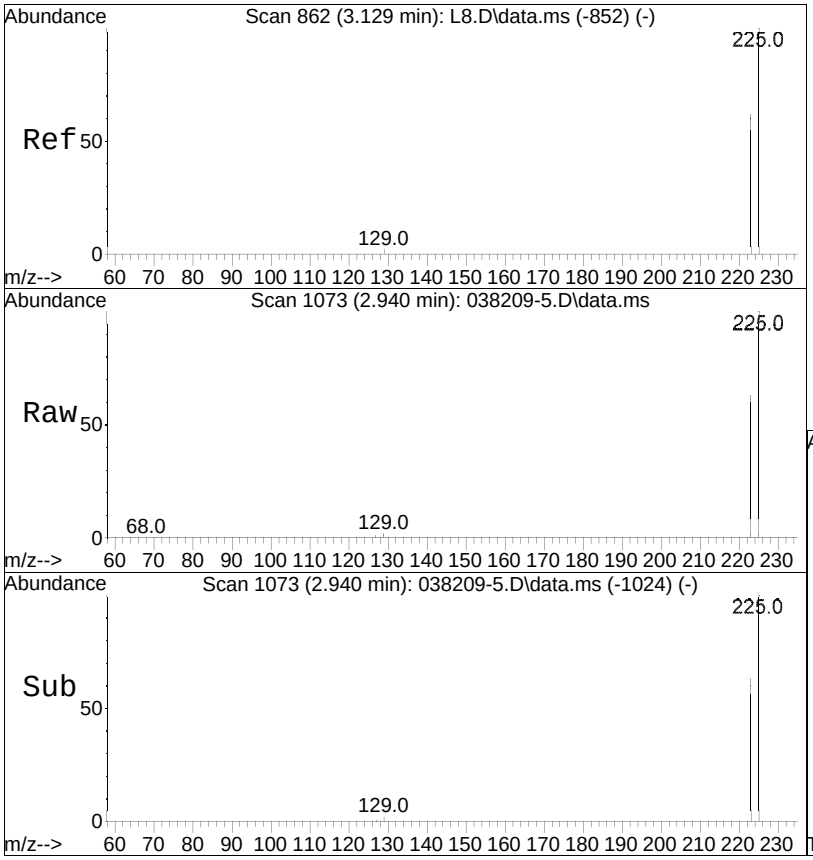


#10
Naphthalene
Concen: 1697.54 ng/ml
RT: 2.872 min Scan# 1031
Delta R.T. -0.002 min
Lab File: 038209-5.D
Acq: 11 Mar 2025 08:03 pm

Tgt Ion:128 Resp: 631394

Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.0	13.6
127	13.3	10.5	15.7

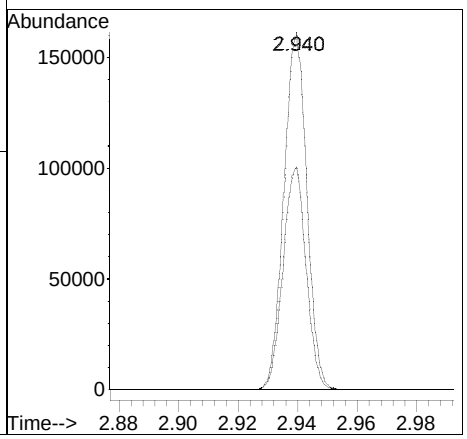


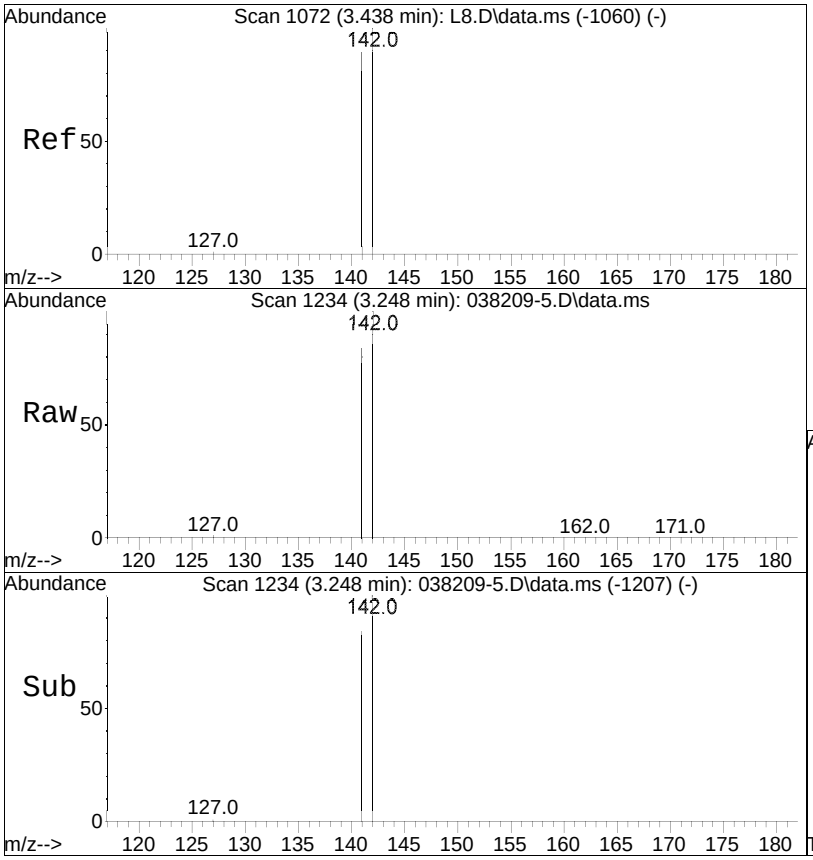


#11
Hexachlorobutadiene
Concen: 1289.11 ng/ml
RT: 2.940 min Scan# 1073
Delta R.T. -0.002 min
Lab File: 038209-5.D
Acq: 11 Mar 2025 08:03 pm

Tgt Ion:225 Resp: 84380

Ion	Ratio	Lower	Upper
225	100		
223	62.9	50.4	75.6

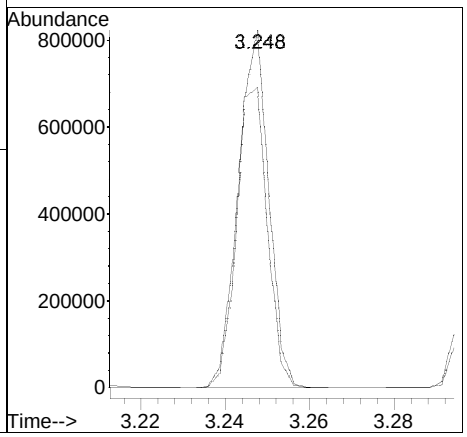


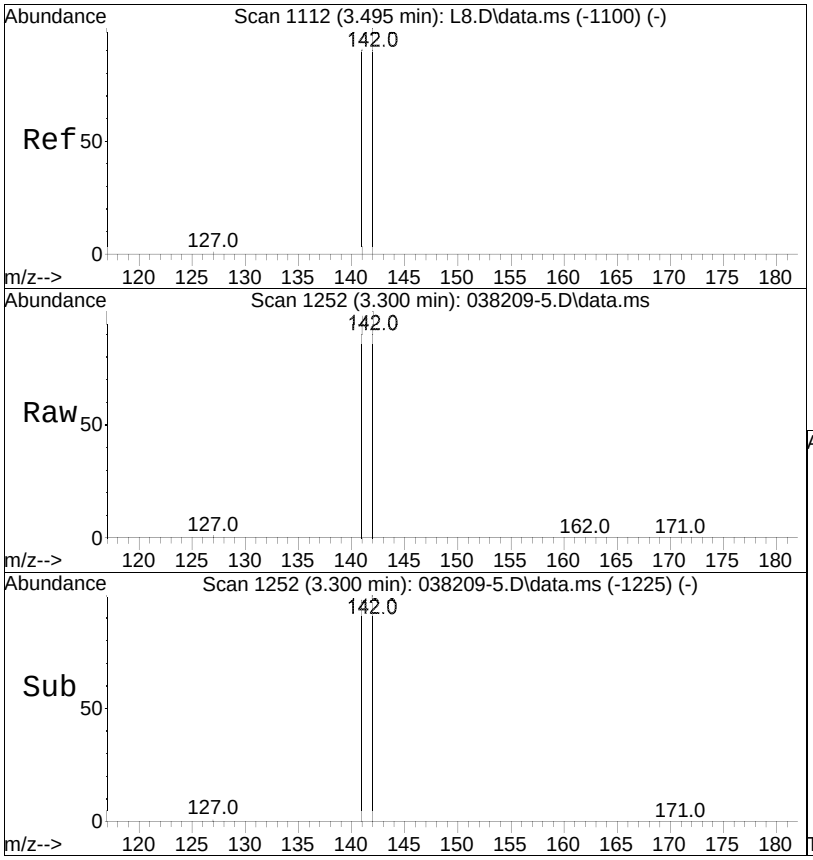


#12
2-Methylnaphthalene
Concen: 1525.26 ng/ml
RT: 3.248 min Scan# 1234
Delta R.T. -0.003 min
Lab File: 038209-5.D
Acq: 11 Mar 2025 08:03 pm

Tgt Ion:142 Resp: 396445

Ion	Ratio	Lower	Upper
142	100		
141	90.3	71.3	106.9

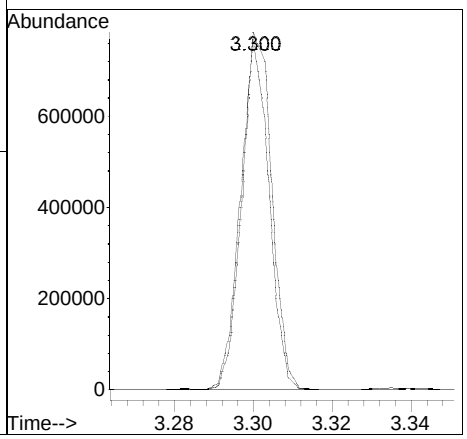


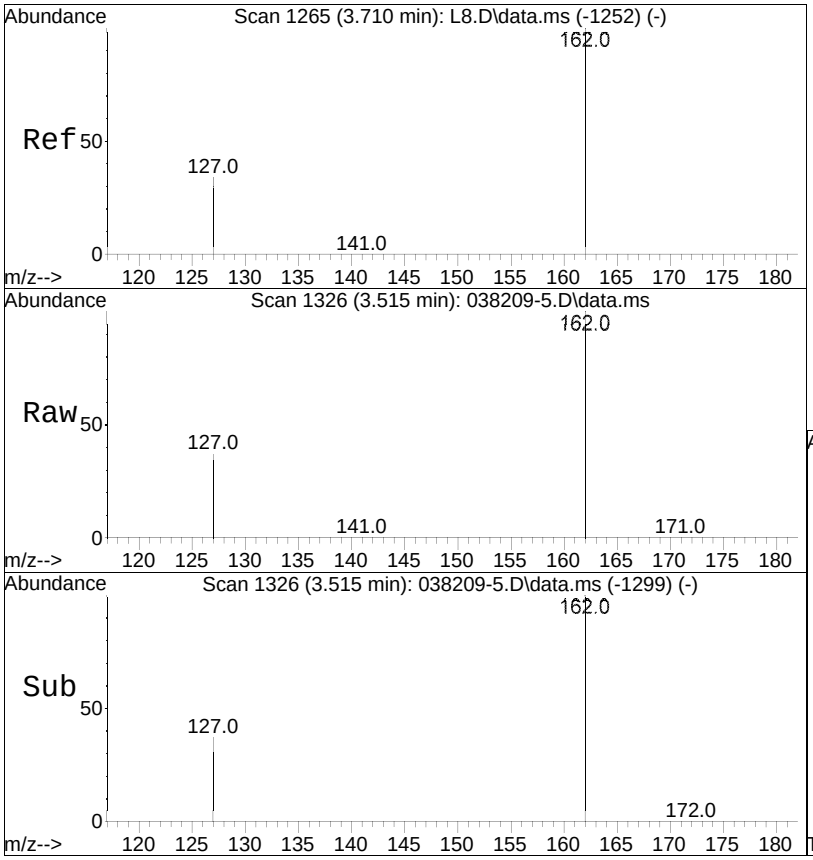


#13
1-Methylnaphthalene
Concen: 1693.47 ng/ml
RT: 3.300 min Scan# 1252
Delta R.T. -0.003 min
Lab File: 038209-5.D
Acq: 11 Mar 2025 08:03 pm

Tgt Ion:142 Resp: 405293

Ion	Ratio	Lower	Upper
142	100		
141	93.8	73.8	110.6

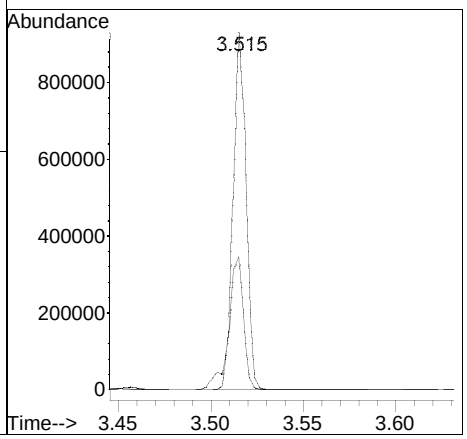


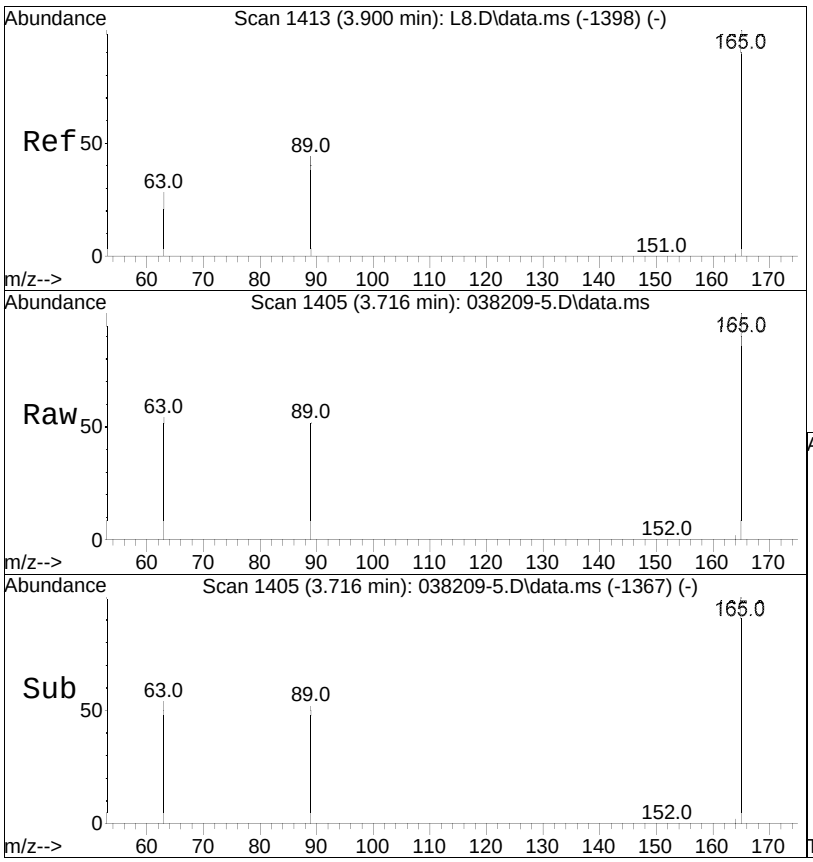


#15
2-Chloronaphthalene
Concen: 1630.99 ng/ml
RT: 3.515 min Scan# 1326
Delta R.T. -0.003 min
Lab File: 038209-5.D
Acq: 11 Mar 2025 08:03 pm

Tgt Ion:162 Resp: 437831

Ion	Ratio	Lower	Upper
162	100		
127	43.1	27.4	41.0#

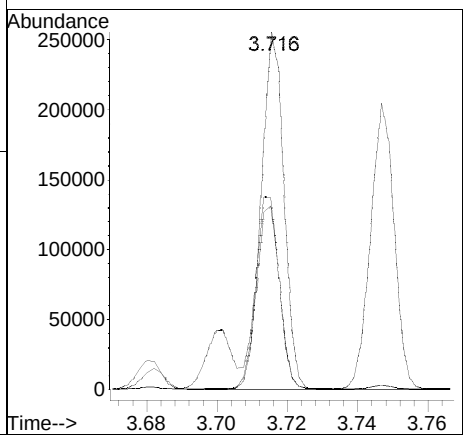


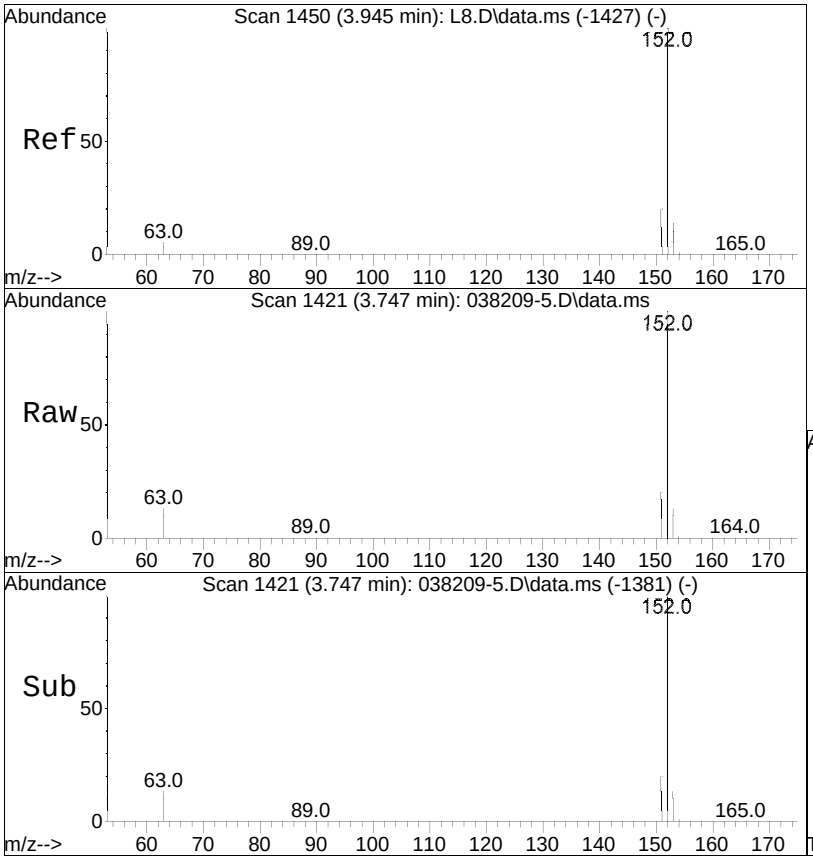


#16
2,6-Dinitrotoluene
Concen: 1730.19 ng/ml
RT: 3.716 min Scan# 1405
Delta R.T. 0.000 min
Lab File: 038209-5.D
Acq: 11 Mar 2025 08:03 pm

Tgt Ion:165 Resp: 114460

Ion	Ratio	Lower	Upper
165	100		
89	53.3	37.8	56.8
63	56.7	36.9	55.3#

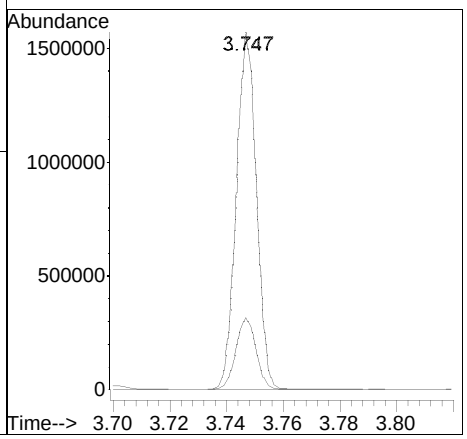


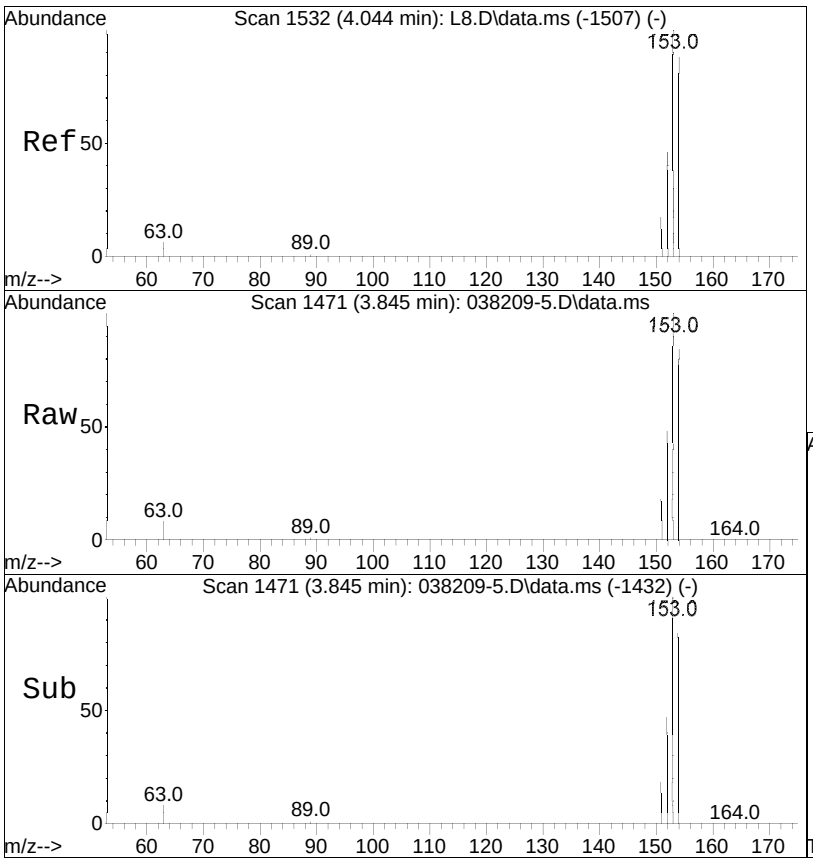


#17
Acenaphthylene
Concen: 1827.98 ng/ml
RT: 3.747 min Scan# 1421
Delta R.T. -0.002 min
Lab File: 038209-5.D
Acq: 11 Mar 2025 08:03 pm

Tgt Ion:152 Resp: 759931

Ion	Ratio	Lower	Upper
152	100		
151	20.3	15.9	23.9

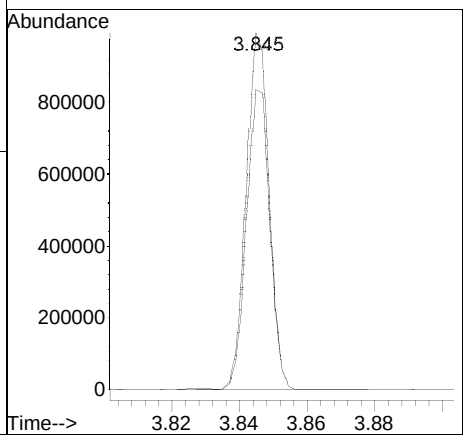


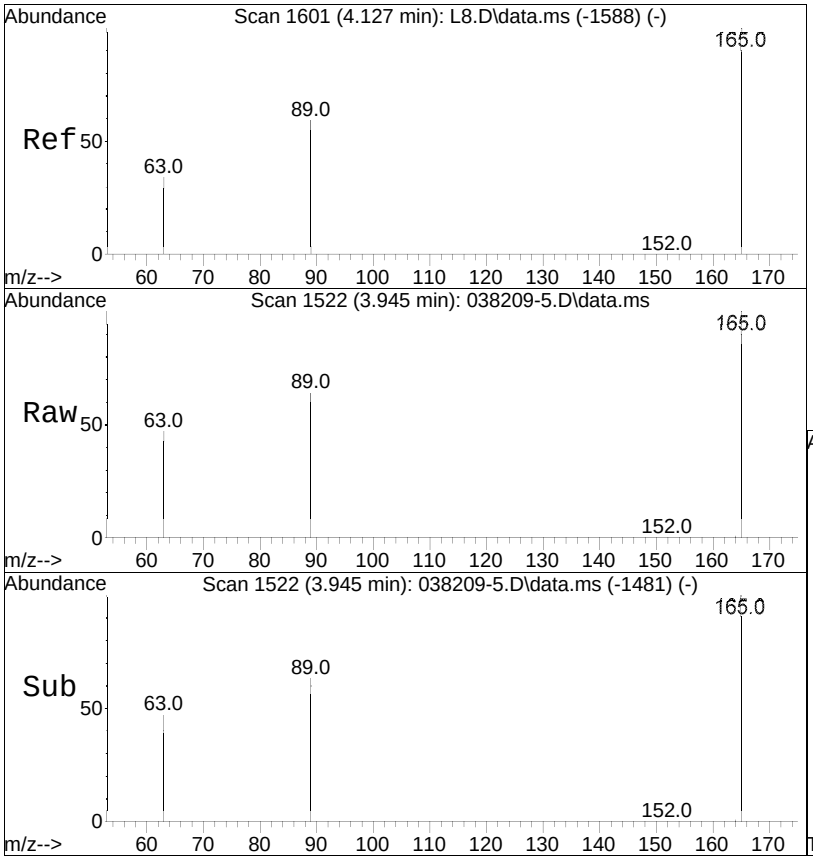


#19
Acenaphthene
Concen: 1979.21 ng/ml
RT: 3.845 min Scan# 1471
Delta R.T. -0.004 min
Lab File: 038209-5.D
Acq: 11 Mar 2025 08:03 pm

Tgt Ion:153 Resp: 464106

Ion	Ratio	Lower	Upper
153	100		
154	85.6	73.1	109.7

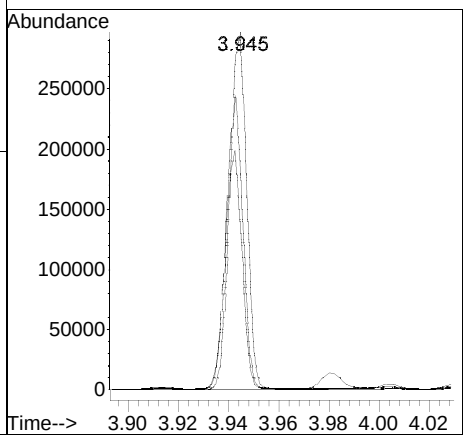


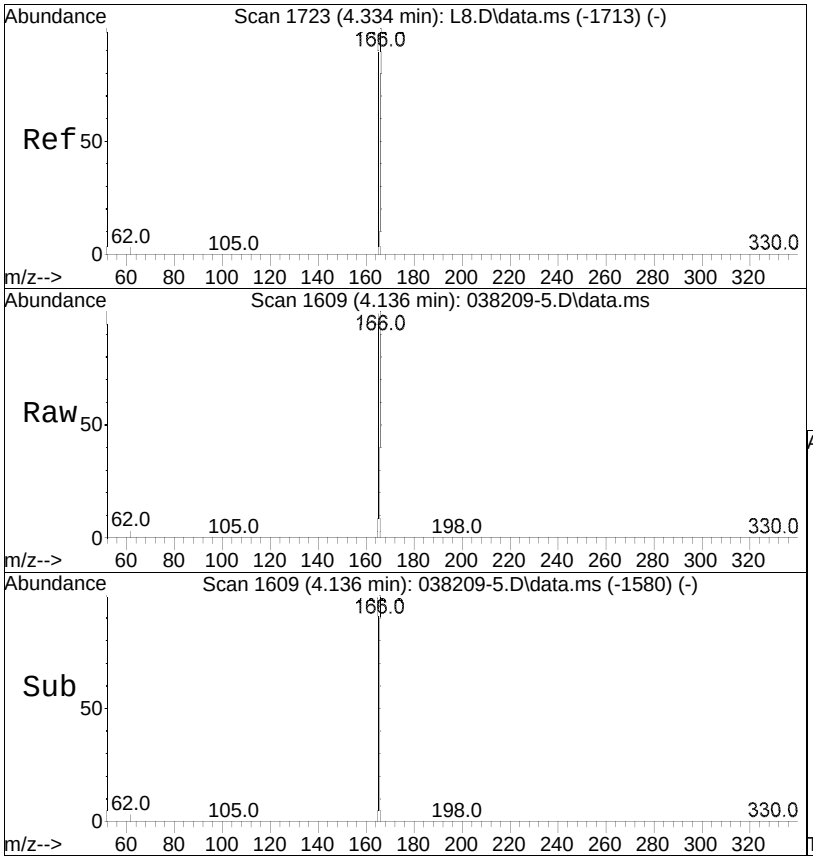


#20
2,4-Dinitrotoluene
Concen: 1822.55 ng/ml
RT: 3.945 min Scan# 1522
Delta R.T. 0.000 min
Lab File: 038209-5.D
Acq: 11 Mar 2025 08:03 pm

Tgt Ion:165 Resp: 135949

Ion	Ratio	Lower	Upper
165	100		
89	81.1	48.7	73.1#
63	67.7	28.6	42.8#

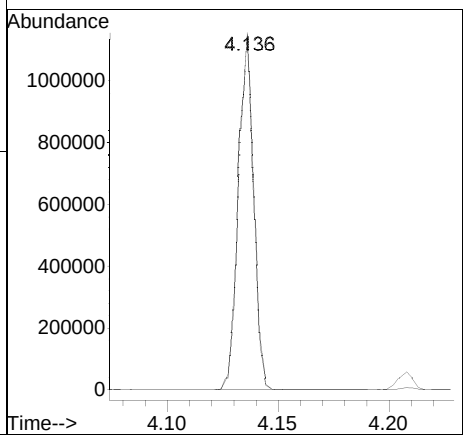


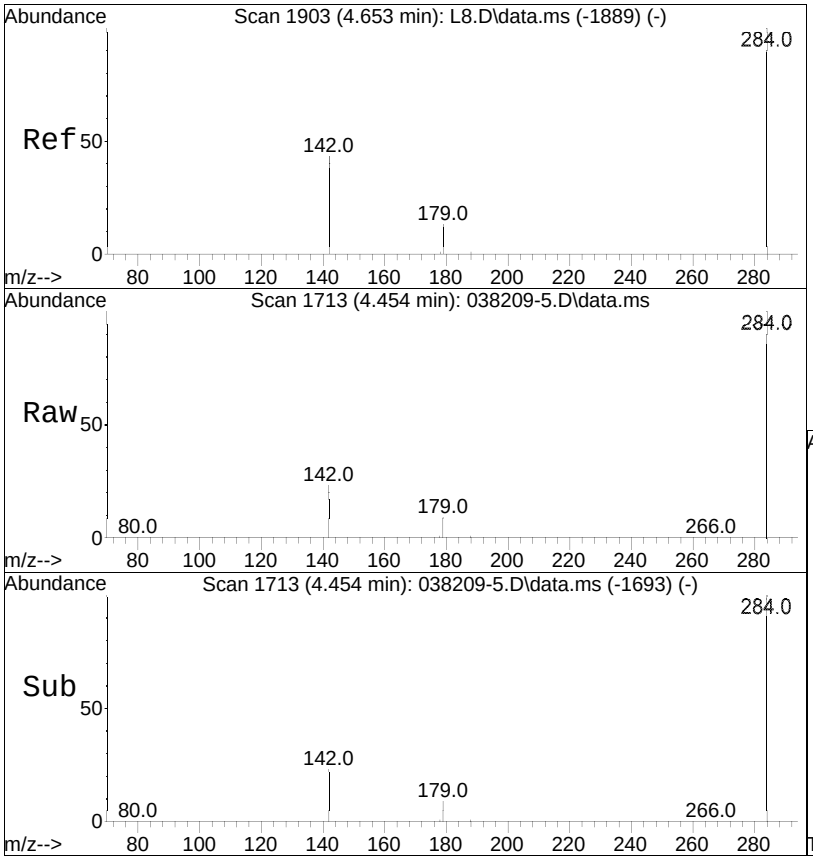


#21
Fluorene
Concen: 2045.49 ng/ml
RT: 4.136 min Scan# 1609
Delta R.T. -0.003 min
Lab File: 038209-5.D
Acq: 11 Mar 2025 08:03 pm

Tgt Ion:166 Resp: 551071

Ion	Ratio	Lower	Upper
166	100		
165	99.7	77.8	116.8

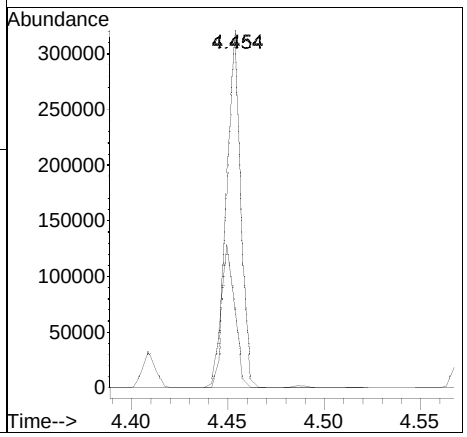


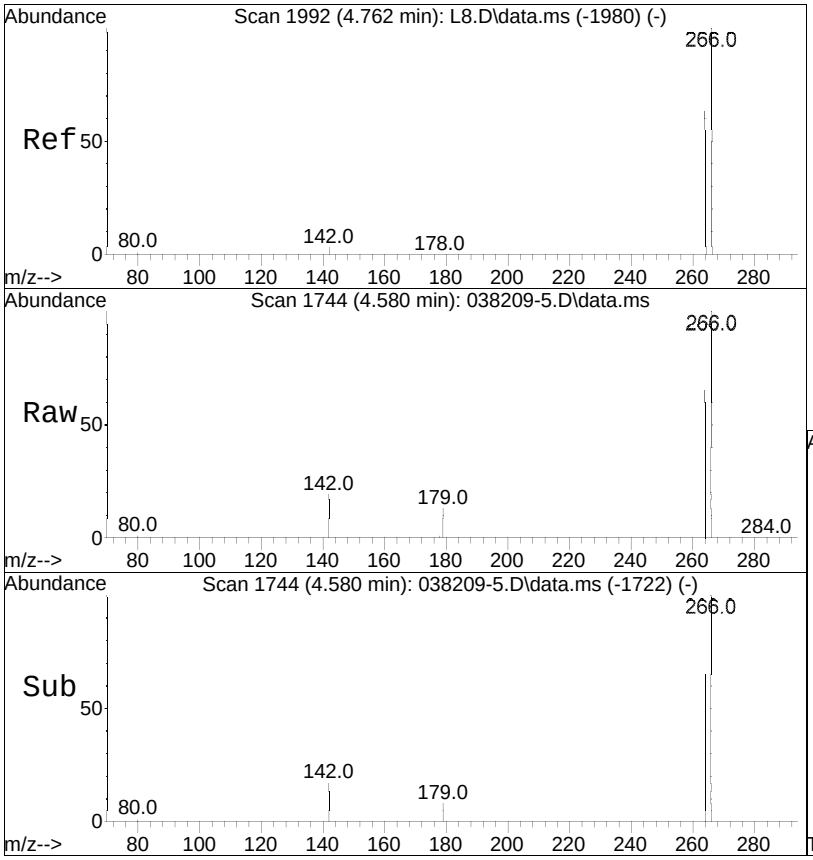


#25
Hexachlorobenzene
Concen: 2149.07 ng/ml
RT: 4.454 min Scan# 1713
Delta R.T. -0.004 min
Lab File: 038209-5.D
Acq: 11 Mar 2025 08:03 pm

Tgt Ion:284 Resp: 158865

Ion	Ratio	Lower	Upper
284	100		
142	40.2	33.8	50.6

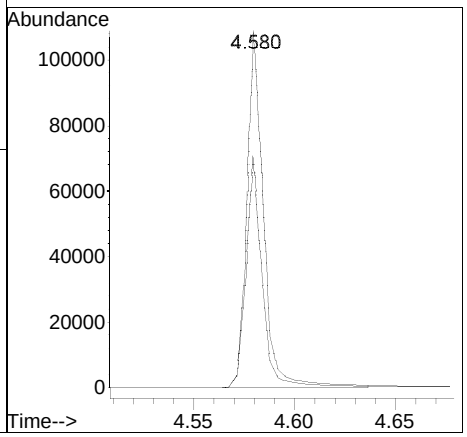


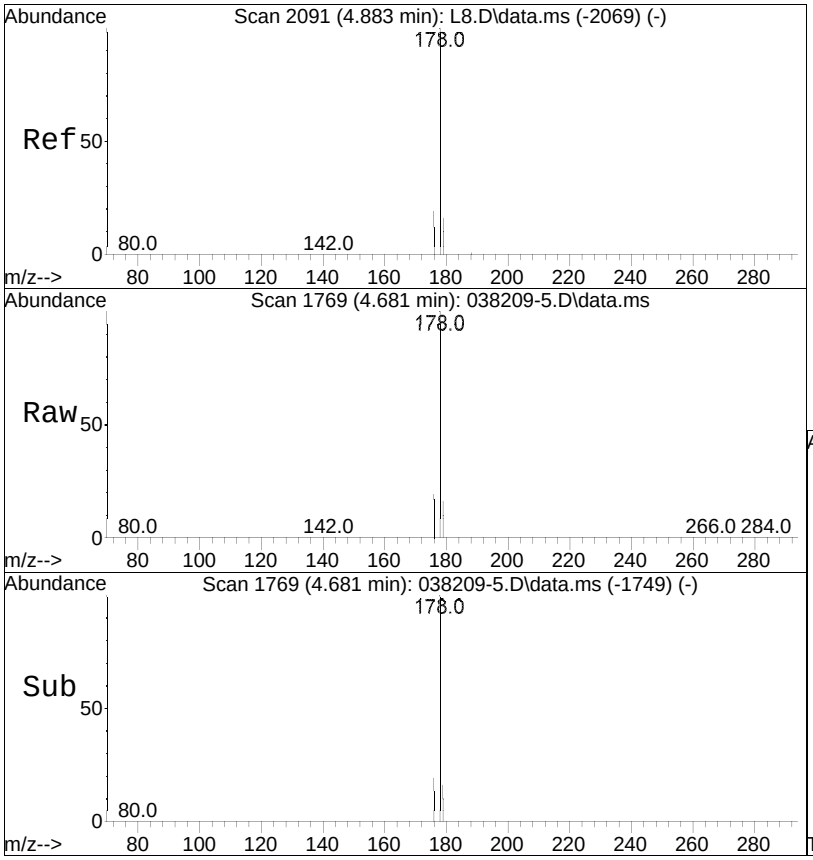


#26
Pentachlorophenol
Concen: 1598.87 ng/ml
RT: 4.580 min Scan# 1744
Delta R.T. 0.008 min
Lab File: 038209-5.D
Acq: 11 Mar 2025 08:03 pm

Tgt Ion:266 Resp: 61724

Ion	Ratio	Lower	Upper
266	100		
264	63.5	50.8	76.2

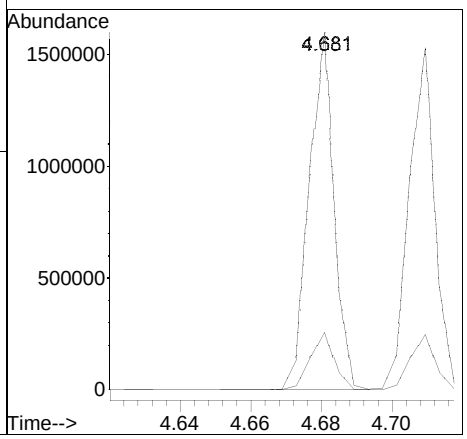


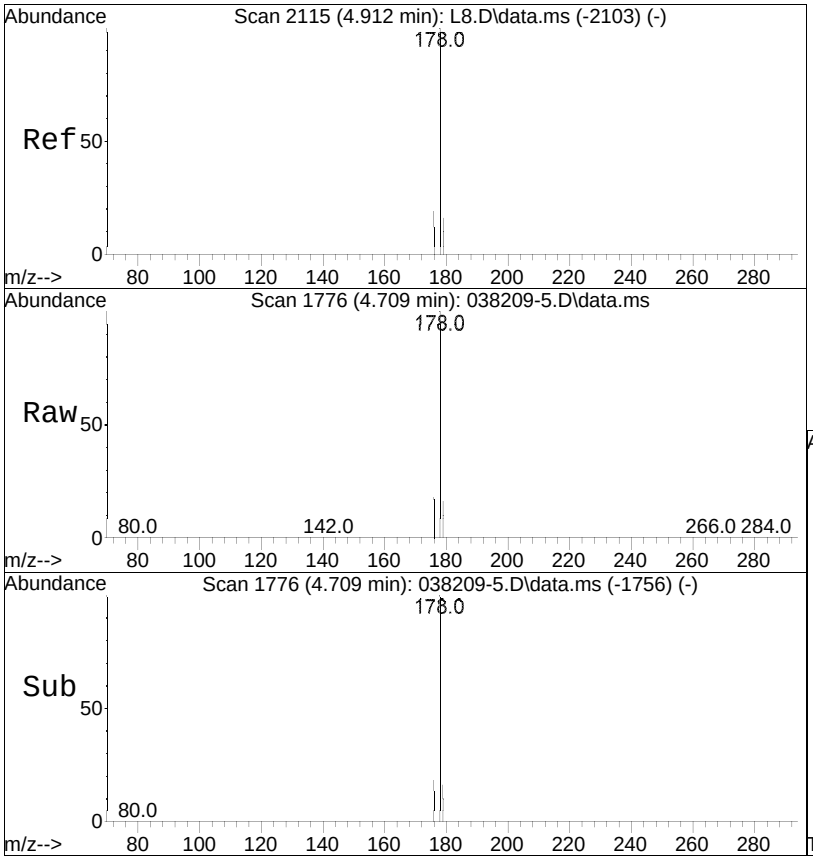


#27
Phenanthrene
Concen: 2130.44 ng/ml
RT: 4.681 min Scan# 1769
Delta R.T. 0.000 min
Lab File: 038209-5.D
Acq: 11 Mar 2025 08:03 pm

Tgt Ion:178 Resp: 781187

Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.8	19.2

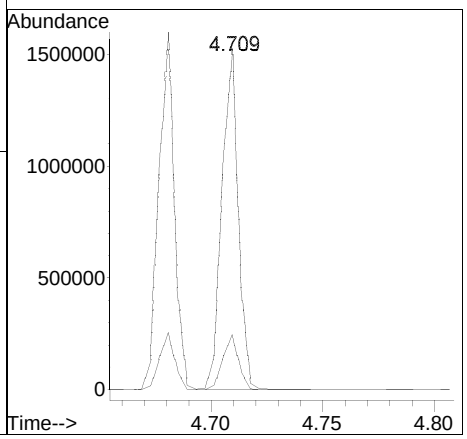


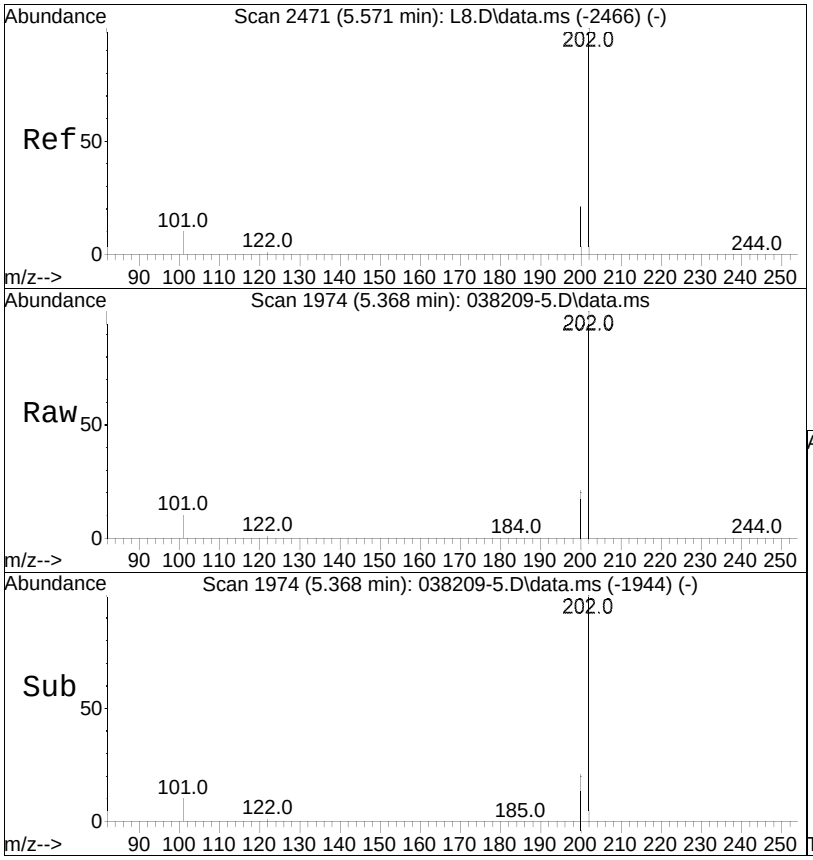


#28
Anthracene
Concen: 2114.49 ng/ml
RT: 4.709 min Scan# 1776
Delta R.T. 0.000 min
Lab File: 038209-5.D
Acq: 11 Mar 2025 08:03 pm

Tgt Ion:178 Resp: 777360

Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.6	18.8

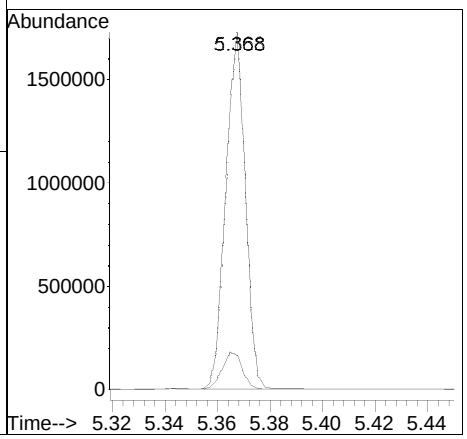


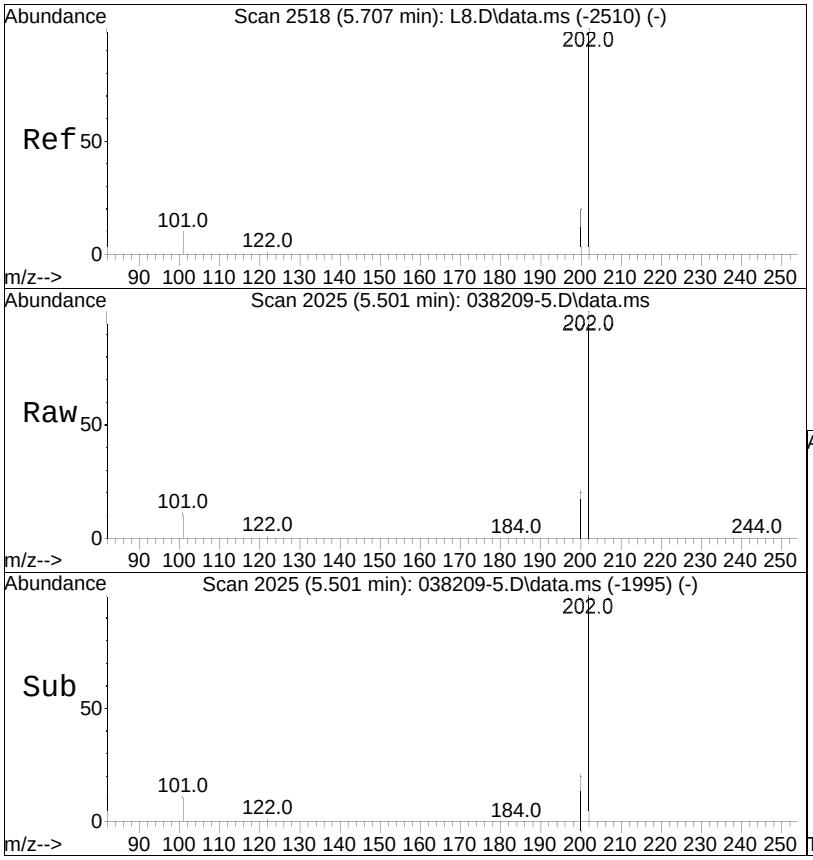


#29
Fluoranthene
Concen: 1914.99 ng/ml
RT: 5.368 min Scan# 1974
Delta R.T. -0.003 min
Lab File: 038209-5.D
Acq: 11 Mar 2025 08:03 pm

Tgt Ion:202 Resp: 878505

Ion	Ratio	Lower	Upper
202	100		
101	11.1	8.2	12.2

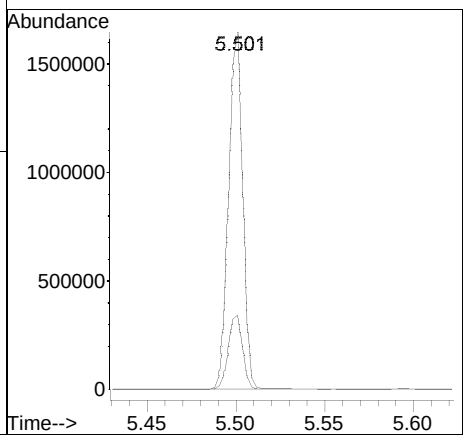


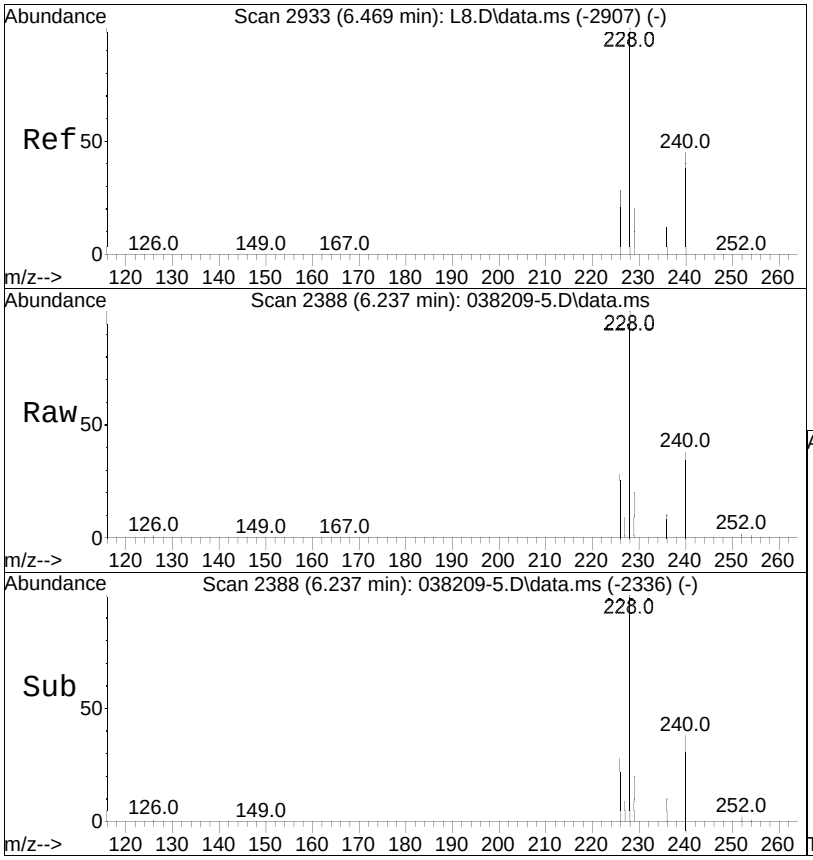


#30
Pyrene
Concen: 1887.97 ng/ml
RT: 5.501 min Scan# 2025
Delta R.T. -0.003 min
Lab File: 038209-5.D
Acq: 11 Mar 2025 08:03 pm

Tgt Ion:202 Resp: 893989

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.9	25.3

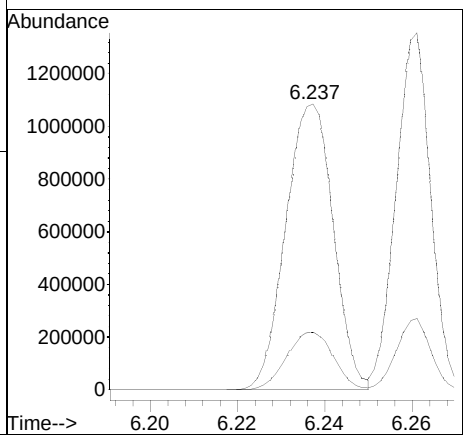


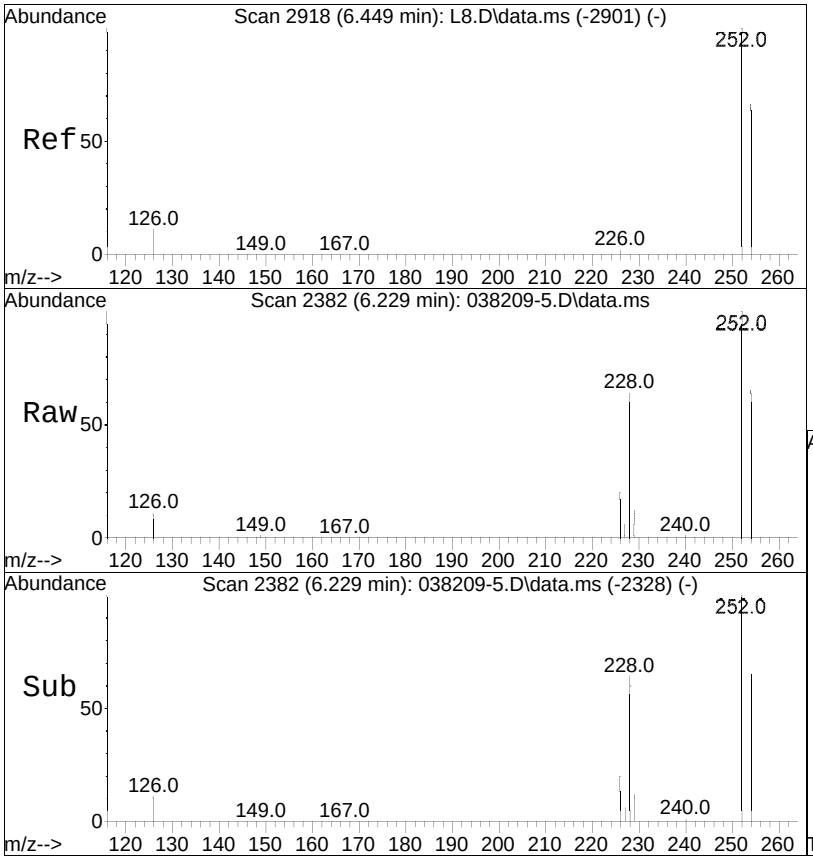


#34
Benzo[a]anthracene
Concen: 2280.43 ng/ml
RT: 6.237 min Scan# 2388
Delta R.T. -0.007 min
Lab File: 038209-5.D
Acq: 11 Mar 2025 08:03 pm

Tgt Ion:228 Resp: 820752

Ion	Ratio	Lower	Upper
228	100		
229	19.8	15.9	23.9

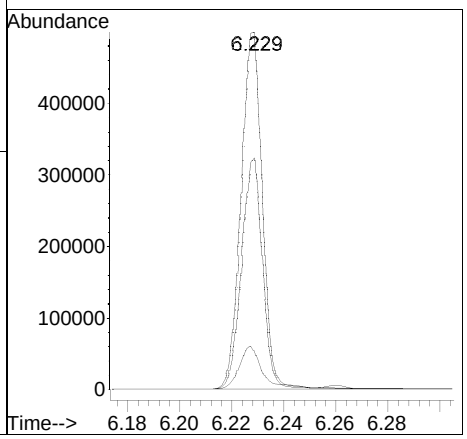


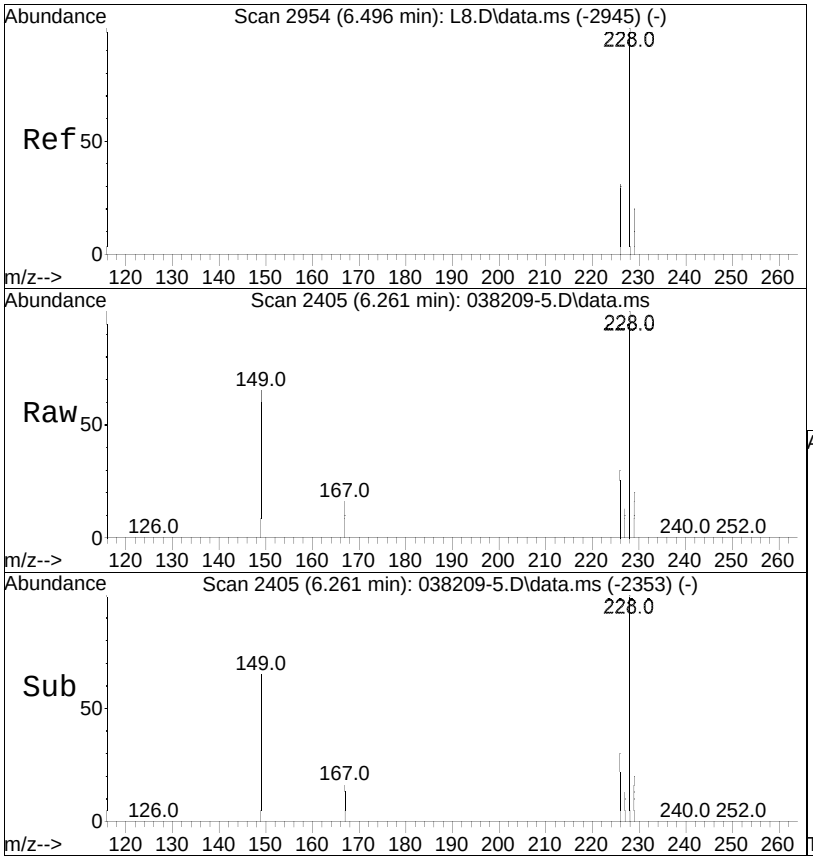


#35
3,3'-Dichlorobenzidine
Concen: 2149.18 ng/ml
RT: 6.229 min Scan# 2382
Delta R.T. -0.004 min
Lab File: 038209-5.D
Acq: 11 Mar 2025 08:03 pm

Tgt Ion:252 Resp: 279709

Ion	Ratio	Lower	Upper
252	100		
126	13.5	8.6	13.0#
254	64.3	51.8	77.8

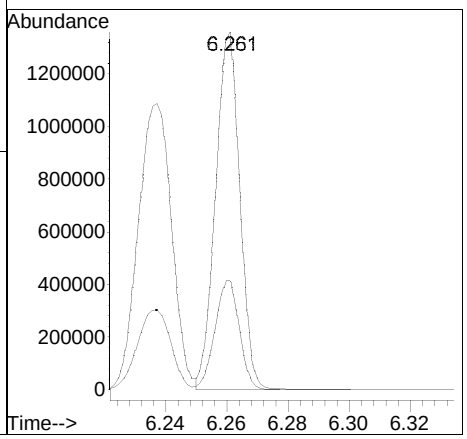


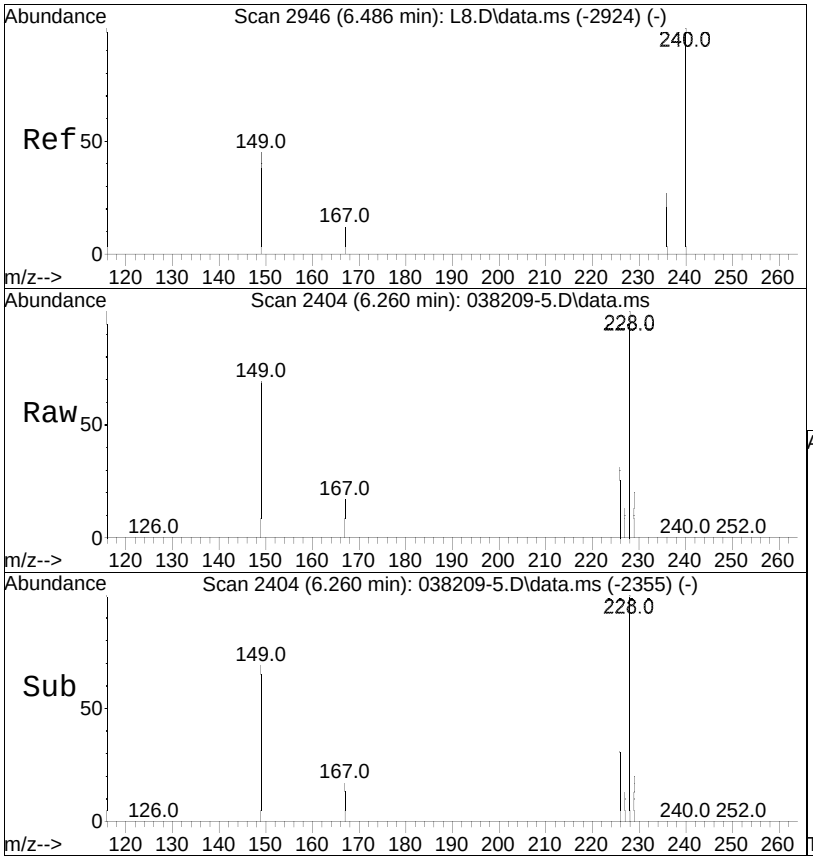


#36
Chrysene
Concen: 2124.00 ng/ml
RT: 6.261 min Scan# 2405
Delta R.T. -0.007 min
Lab File: 038209-5.D
Acq: 11 Mar 2025 08:03 pm

Tgt Ion:228 Resp: 746300

Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.4	36.6

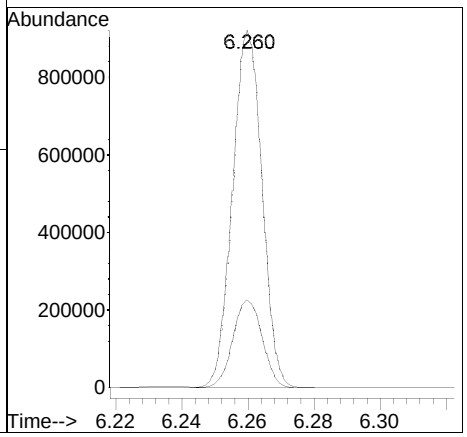


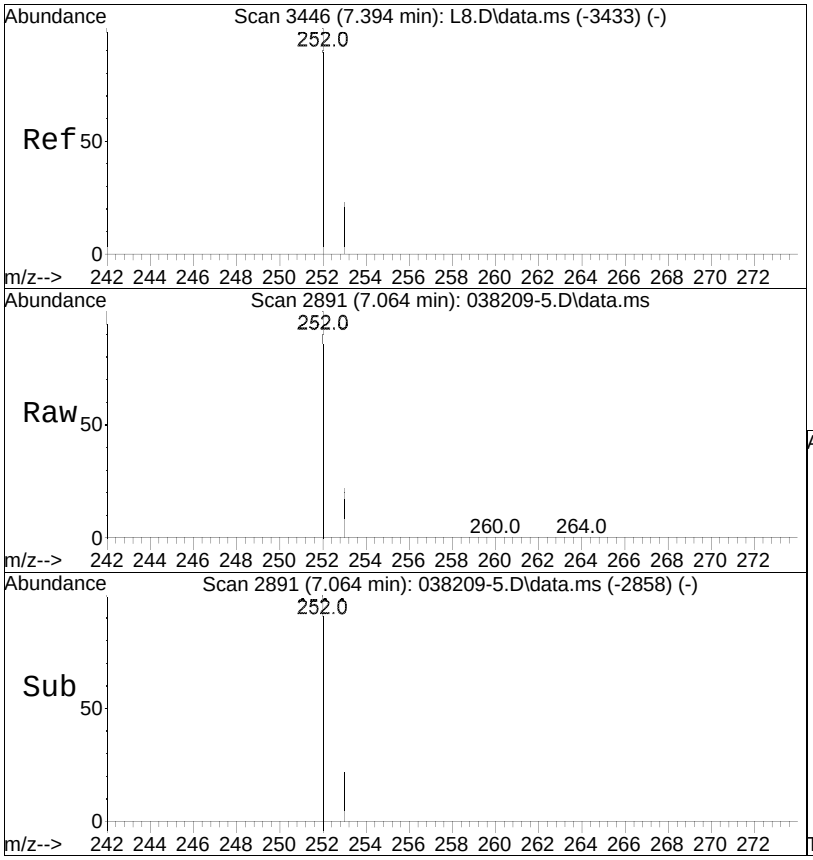


#37
Bis(2-ethylhexyl)phthalate
Concen: 3104.33 ng/ml
RT: 6.260 min Scan# 2404
Delta R.T. -0.011 min
Lab File: 038209-5.D
Acq: 11 Mar 2025 08:03 pm

Tgt Ion:149 Resp: 565851

Ion	Ratio	Lower	Upper
149	100		
167	24.6	20.7	31.1

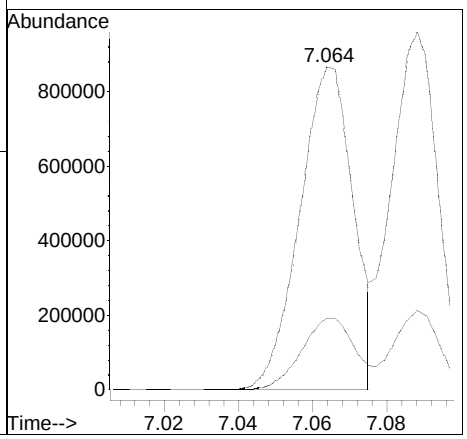


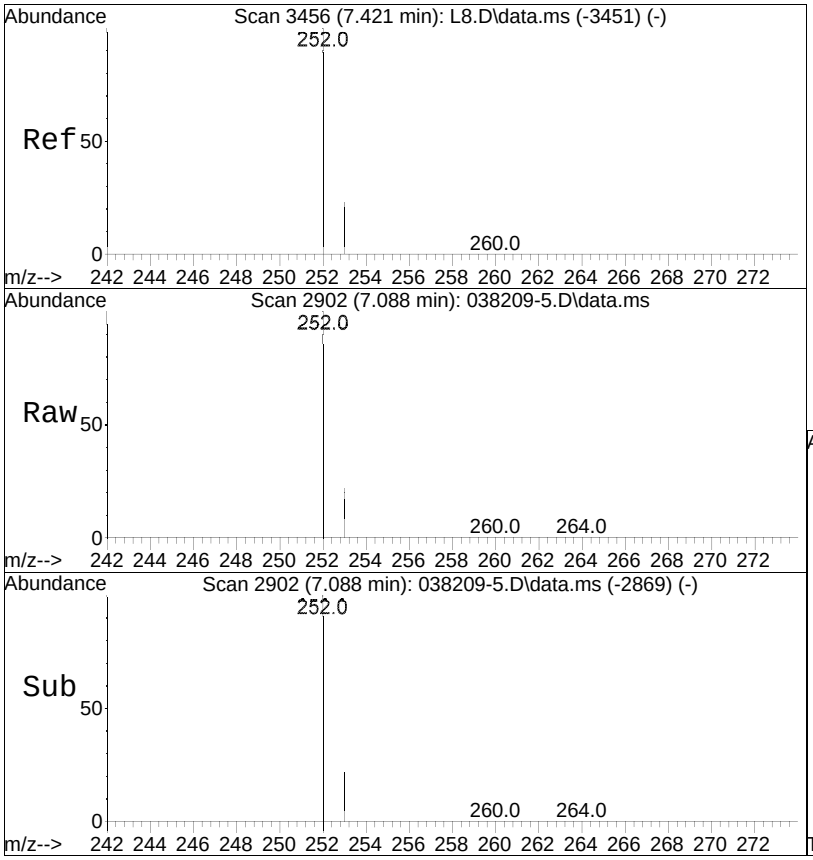


#39
Benzo[b]fluoranthene
Concen: 2231.89 ng/ml
RT: 7.064 min Scan# 2891
Delta R.T. -0.007 min
Lab File: 038209-5.D
Acq: 11 Mar 2025 08:03 pm

Tgt Ion:252 Resp: 863895

Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.1	27.1

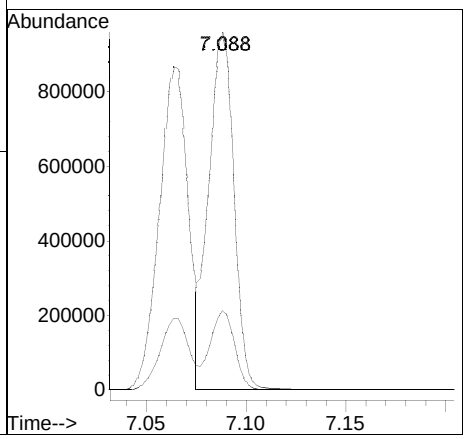


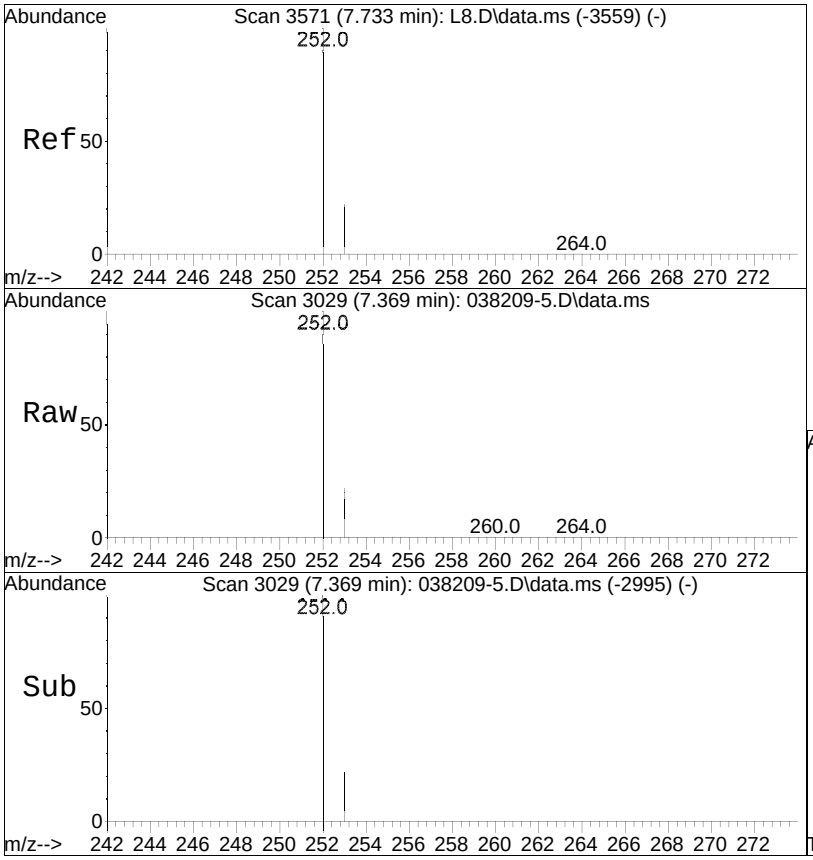


#40
Benzo[k]fluoranthene
Concen: 2204.33 ng/ml
RT: 7.088 min Scan# 2902
Delta R.T. -0.007 min
Lab File: 038209-5.D
Acq: 11 Mar 2025 08:03 pm

Tgt Ion:252 Resp: 841397

Ion	Ratio	Lower	Upper
252	100		
253	21.1	18.2	27.2

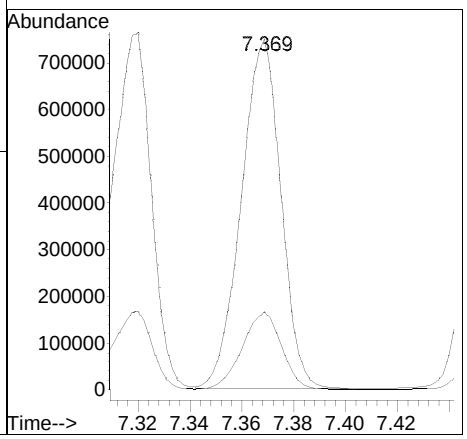


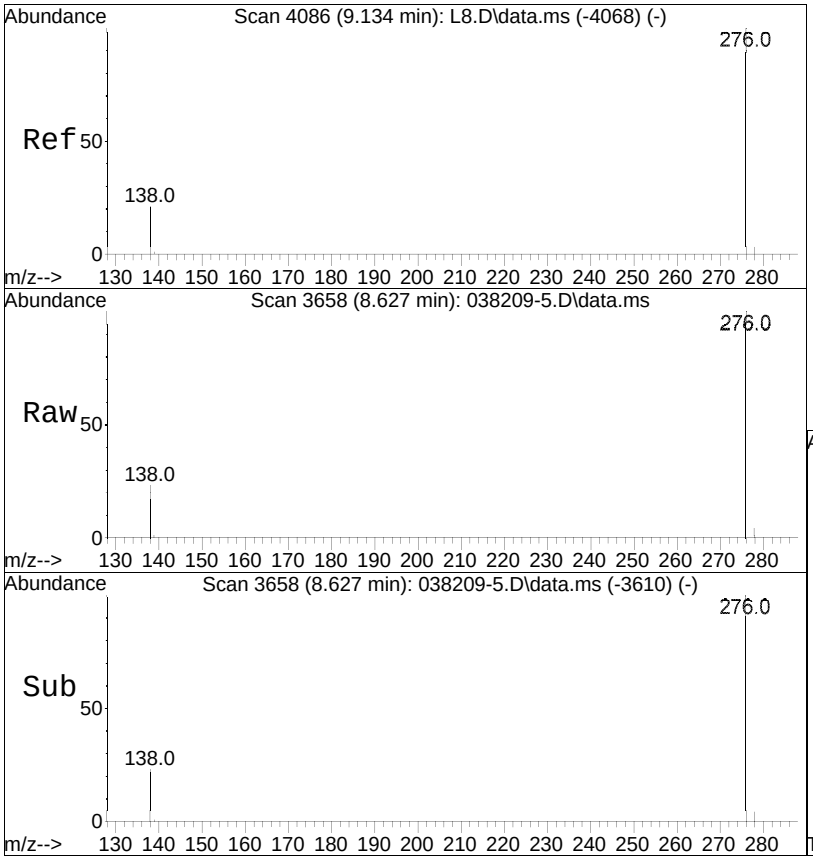


#41
Benzo[a]pyrene
Concen: 2412.74 ng/ml
RT: 7.369 min Scan# 3029
Delta R.T. -0.004 min
Lab File: 038209-5.D
Acq: 11 Mar 2025 08:03 pm

Tgt Ion:252 Resp: 792435

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.9	26.9

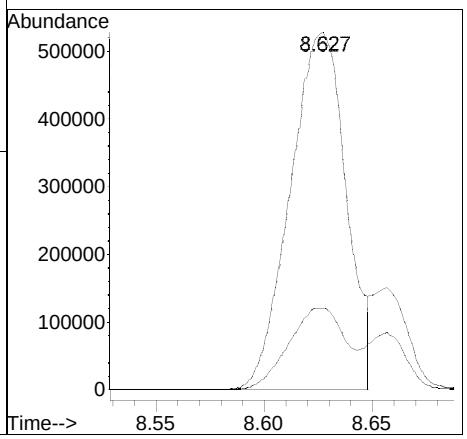


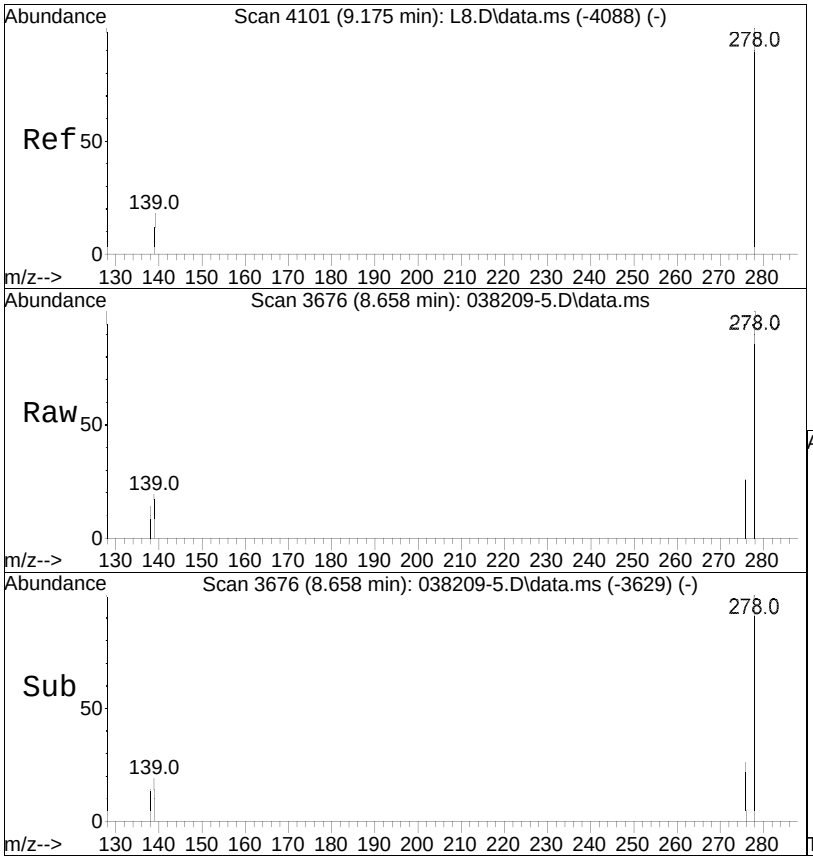


#42
Indeno[1,2,3-cd]pyrene
Concen: 2967.52 ng/ml
RT: 8.627 min Scan# 3658
Delta R.T. 0.004 min
Lab File: 038209-5.D
Acq: 11 Mar 2025 08:03 pm

Tgt Ion:276 Resp: 943576

Ion	Ratio	Lower	Upper
276	100		
138	22.9	16.9	25.3

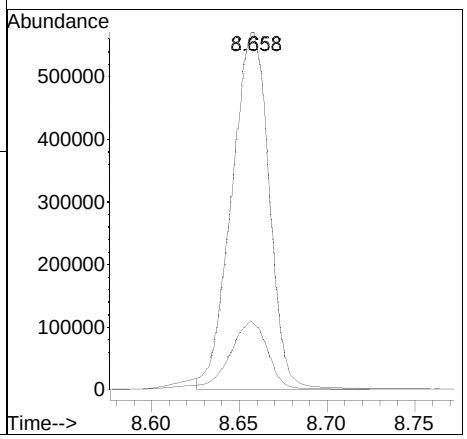


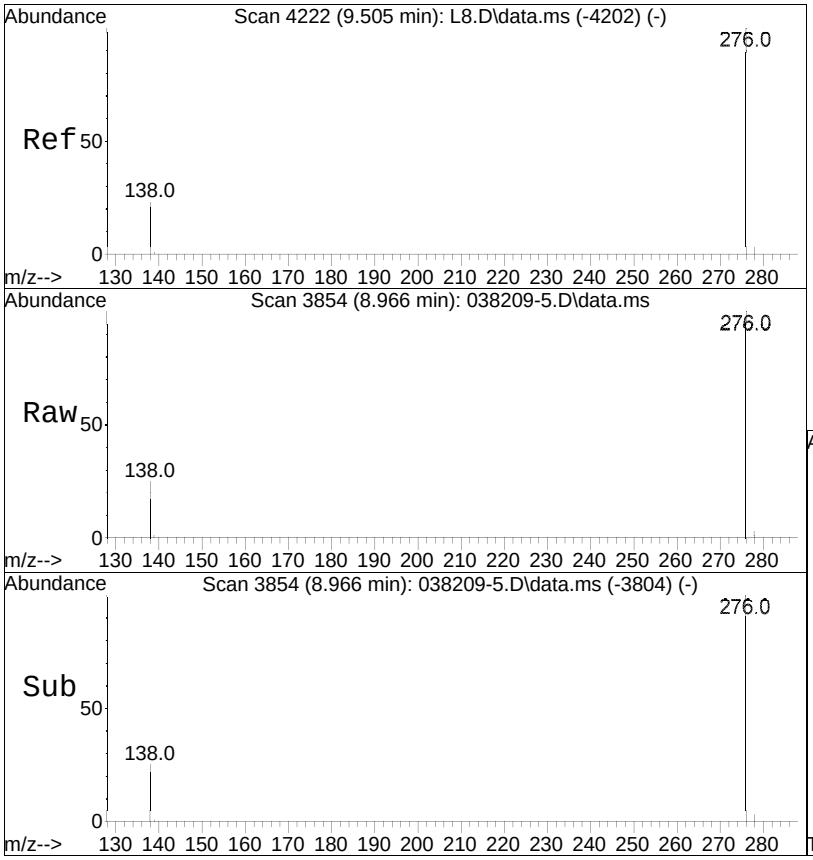


#43
Dibenzo[a,h]anthracene
Concen: 2853.10 ng/ml M6
RT: 8.658 min Scan# 3676
Delta R.T. 0.002 min
Lab File: 038209-5.D
Acq: 11 Mar 2025 08:03 pm

Tgt Ion:278 Resp: 841586

Ion	Ratio	Lower	Upper
278	100		
139	19.7	14.6	22.0

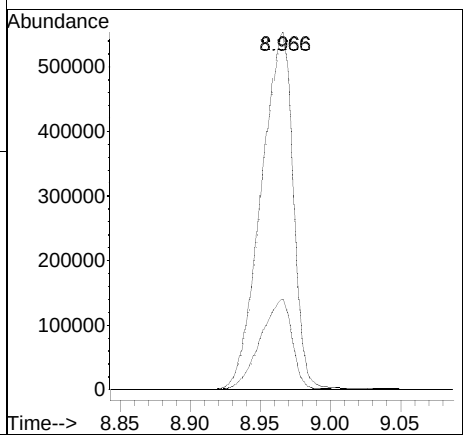




#44
Benzo[g,h,i]perylene
Concen: 2881.23 ng/ml
RT: 8.966 min Scan# 3854
Delta R.T. 0.007 min
Lab File: 038209-5.D
Acq: 11 Mar 2025 08:03 pm

Tgt Ion:276 Resp: 871963

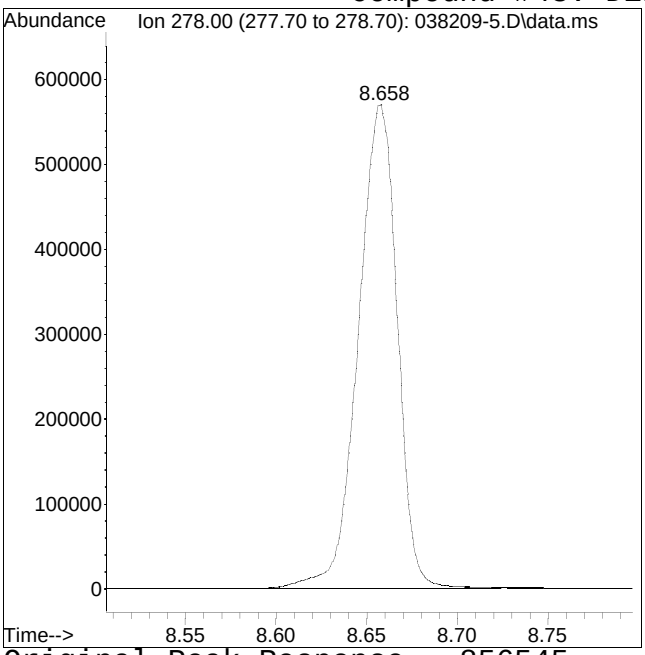
Ion	Ratio	Lower	Upper
276	100		
138	25.1	18.6	28.0



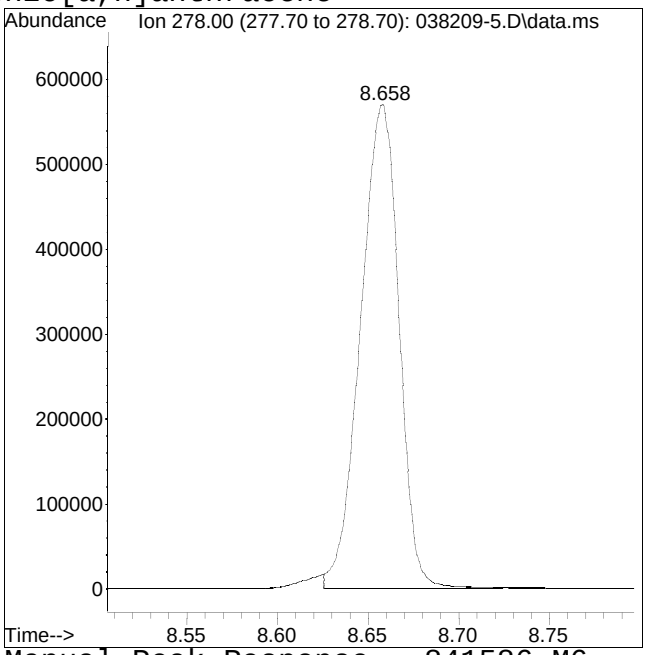
Manual Integration Report

Data Path : I:\8270SIM\sv119\250311bRVQMethod : SIM-RVT_241229_sv119.M
Data File : 038209-5.D Operator : sv119:jjw
Date Inj'd : 3/11/2025 8:03 pm Instrument : SV119
Sample : WG2038209-5,32,,kmh Quant Date : 3/11/2025 8:16 pm

Compound #43: Dibenzo[a,h]anthracene



Original Peak Response = 856545



Manual Peak Response = 841586 M6

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

Calculation of Semi Volatile Organic Compounds

Aqueous Concentration Formula: Amt * DF * 1000 * (1/Vo) * Vf

Where:
DF = Dilution Factor
Vo = Volume of Sample (mL)
Vf = Extraction Lab Final Volume (mL)

Soil Concentration Formula: Amt * DF * 1000 * (1/Wt) * Vf * (100/TS)
Where:
DF = Dilution Factor
Wt = Weight of Sample (g)
Vf = Extraction Lab Final Volume (mL)
TS = Total Solids

PACE ANALYTICAL SERVICES

PACE WORK GROUP REPORT (wk02)

Mar 13 2025, 11:50 am

Work Group: WG2038209 for Department: 2 Organic Preparation

Created: 08-MAR-25 Due: Operator: SHD

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2512368-01	5A	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0312	0312	S0	Amber-A.1
L2512368-02	5B	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0312	0312	S0	Amber-A.1
L2512368-04	6A	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0312	0312	S0	Amber-A.1
L2512368-05	6B	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0312	0312	S0	Amber-A.1
L2512368-07	7A	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0312	0312	S0	Amber-A.1
L2512368-08	7B	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0312	0312	S0	Amber-A.1
L2512368-10	8A	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0312	0312	S0	Amber-A.1
L2512368-11	8B	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0312	0312	S0	Amber-A.1
L2512368-13	9A	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0312	0312	S0	Amber-A.1
L2512368-14	9B	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0312	0312	S0	Amber-A.1
L2512368-16	10A	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0312	0312	S0	Amber-A.1
L2512368-17	10B	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0312	0312	S0	Amber-A.1
L2512368-19	DUP001	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0312	0312	S0	Amber-A.1
L2512568-01	GW-TS-8	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0313	0313	S0	Amber-A.1
L2512607-01	MW-4S	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0313	0313	S0	Amber-A.1
L2512607-02	MW-4D2	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0313	0313	S0	Amber-A.1
L2512607-03	MW-12S	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0313	0313	S0	Amber-A.1
L2512607-04	MW-12D	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0313	0313	S0	Amber-A.1
L2512607-05	SCDOH_DR	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0313	0313	S0	Amber-A.1
L2512607-06	EQUIPMENT BLANK	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0313	0313	S0	Amber-A.1
WG2038209-1	Laboratory Method Bl	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG2038209-2	Laboratory Control S	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG2038209-3	LCS Duplicate	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG2038209-4	Matrix Spike	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG2038209-5	Matrix Spike Duplica	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				

Comments:

WG2038209-3	WG2038209-2
WG2038209-4	L2512368-10
WG2038209-5	L2512368-10

Dep.: GCMS
Inst: SV119
Date: **12/29/24**
Run:

Method
GC: SIM RVT

Seq: WG2015284
ICAL: ICAL21826

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	Initials
48	TUNE	TUNE				
48	TUNEa	TUNE				
1	L10	IL10,32,, #10885 5000 ng/ml				
2	L9	IL9,32,, #10901 2500 ng/ml				
3	L8	IL8,32,, #10888 1000 ng/ml				
4	L7	IL7,32,, #10889 500 ng/ml				
5	L6	IL6,32,, #11222 100 ng/ml				
6	L5	IL5,32,, #10891 40 ng/ml				
7	L4	IL4,32,, #10892 10 ng/ml				
8	L3	IL3,32,, #10893 5 ng/ml				
9	L2	IL2,32,, #10900 2 ng/ml				
10	L1	IL1,32,, #10895 1 ng/ml				
11	ICV	CQICV,32,, #10884 1000 ng/ml				
12	instblk	instrument blank				

Dep.: GCMS
Inst: SV118
Date: **02/03/25**
Run:

Method
GC: SIM RVT

Seq: WG2028184
ICAL: 21963

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
3	L8scan	IL8,32,, #11281 1000 ng/ml				
48	TUNEa	TUNE				
1	L10	IL10,32,, #11278 5000 ng/ml				
2	L9	IL9,32,, #11280 2500 ng/ml				
3	L8	IL8,32,, #11281 1000 ng/ml				
4	L7	IL7,32,, #11282 500 ng/ml				
5	L6	IL6,32,, #11283 100 ng/ml				
6	L5	IL5,32,, #11284 40 ng/ml				
7	L4	IL4,32,, #11285 10 ng/ml				
8	L3	IL3,32,, #11286 5 ng/ml				
9	L2	IL2,32,, #11287 2 ng/ml				
10	L1	IL1,32,, #11288 1 ng/ml				
11	ICV	QCICV,32,, #11275 1000 ng/ml				
12	instblk	instrument blank			RAP	

Dep.: GCMS
Inst: SV119
Date: **03/11/25**
Run: b

Method
GC: SIM RVT

Seq: WG2039073
ICAL: 21826

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	Initials
48	deg0311b	wg-1,32,,dftpp SV119 lot# 11413				03/11 JJW
49	ccv0311b	wg-3,32,,ICV 11275 (0309)	2MN, 4,6-DNC low			03/11 JJW
50	blank0311b	instrument blank				
1	037572-2	WG2037572-2,32,,RV,kmh				03/11 JJW
2	037572-3	WG2037572-3,32,,RV,kmh				03/11 JJW
3	12105-01	L2512105-01,32,,kmh				03/11 JJW
4	12105-02	L2512105-02,32,,kmh				03/11 JJW
5	12105-03	L2512105-03,32,,kmh				03/11 JJW
6	12105-04	L2512105-04,32,,kmh				03/11 JJW
7	038342-2	WG2038342-2,32,,RV,kmh				03/11 JJW
8	038342-3	WG2038342-3,32,,RV,kmh				03/11 JJW
9	12193-13	L2512193-13,32,,RV,kmh				03/11 JJW
10	130-03d1	L2512130-03d,32,200,kmh				03/11 JJW
11	130-04d1	L2512130-04d,32,20,kmh				03/11 JJW
12	12163-05	L2512163-05,32,,kmh				03/11 JJW
13	12163-06	L2512163-06,32,,kmh				03/11 JJW
14	12245-01	L2512245-01,32,,kmh	10x OCAL			03/11 JJW
15	12245-02	L2512245-02,32,,kmh				03/11 JJW
16	12106-01	L2512106-01,32,,kmh				03/11 JJW
17	12106-02	L2512106-02,32,,kmh				03/11 JJW
18	12106-03	L2512106-03,32,,kmh	10x matrix			03/11 JJW
19	12106-04	L2512106-04,32,,kmh				03/11 JJW
20	12106-05	L2512106-05,32,,kmh				03/11 JJW
21	12106-06	L2512106-06,32,,kmh	5x matrix			03/11 JJW
22	12106-07	L2512106-07,32,,kmh			SV-JJW	03/11 JJW
23	038209-2	WG2038209-2,32,,kmh				03/11 RAP
24	038209-3	WG2038209-3,32,,kmh				03/11 RAP
25	038209-1	WG2038209-1,32,,kmh				03/11 RAP
26	12368-01	L2512368-01,32,,kmh			kmh	03/12 JJW
27	037234-2	WG2037234-2,32,,RV,mrg				03/11 RAP
28	037234-3	WG2037234-3,32,,RV,mrg				03/11 RAP
29	12368-02	L2512368-02,32,,kmh				03/12 JJW
30	12368-04	L2512368-04,32,,kmh			SV-RAP	03/12 JJW
31	12368-05	L2512368-05,32,,kmh				03/12 JJW
32	12368-07	L2512368-07,32,,kmh				03/12 JJW
33	12368-08	L2512368-08,32,,kmh				03/12 JJW
34	038209-4	WG2038209-4,32,,kmh				03/12 JJW
35	038209-5	WG2038209-5,32,,kmh				03/12 JJW
36	12368-10	L2512368-10,32,,kmh				03/12 JJW
37	12368-11	L2512368-11,32,,kmh				03/12 JJW
38	12368-13	L2512368-13,32,,kmh				03/12 JJW
39	12368-14	L2512368-14,32,,kmh				03/12 JJW
40	12368-16	L2512368-16,32,,kmh			mrg	03/12 JJW
					Sv-kmh	

Dep.: GCMS
Inst: SV119
Date: **03/11/25**
Run: b

Method
GC: SIM RVT

Seq: WG2039073
ICAL: 21826

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	Initials

Dep.: GCMS
Inst: SV119
Date: **03/12/25**
Run:

Method
GC: SIM RVT

Seq: WG2039433
ICAL: 21826

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	Initials
48	deg0312	wg-1,32,,dftpp SV119 lot# 11462				03/12 kmh
49	ccv0312	wg-3,32,,ICV 11275 (0309)				
49	ccv0312a	wg-3,32,,ICV 11275 (0309)				03/12 kmh
50	blank0312	instrument blank				
1	039305-1	WG2039305-1,32,,kkmh				03/12 kmh
2	039305-2	WG2039305-2,32,,kkmh				03/12 kmh
3	039305-3	WG2039305-3,32,,kkmh				03/12 kmh
4	13827-01	L2513827-01,32,,R3A,kkmh				03/12 kmh
5	12369-04	L2512369-04,32,,RV,kkmh				03/12 kmh
6	245-01d1	L2512245-01d,32,10,kkmh				03/12 kmh
7	106-03d1	L2512106-03d,32,10,kkmh				03/12 kmh
8	106-06d1	L2512106-06d,32,5,kkmh				03/12 kmh
9	039120-2	WG2039120-2,32,,kkmh				03/12 kmh
10	039120-3	WG2039120-3,32,,kkmh				03/12 kmh
11	039120-1	WG2039120-1,32,,kkmh				03/12 kmh
12	12193-16	L2512193-16,32,,RE,kkmh				03/12 kmh
13	12368-17	L2512368-17,32,,kkmh				03/12 kmh
14	12368-19	L2512368-19,32,,kkmh			SV-JJW	03/12 kmh
15	038437-2	WG2038437-2,32,,kkmh				03/12 RAP
16	038437-3	WG2038437-3,32,,kkmh				03/12 RAP
17	038437-1	WG2038437-1,32,,kkmh			Sv-gmr	03/12 RAP
18	12679-01	L2512679-01,32,,kkmh				03/12 RAP
19	038679-2	WG2038679/9681-2,32,,RV,kkmh				03/12 RAP
20	038679-3	WG2038679/9681-3,32,,RV,kkmh				03/12 RAP
21	12663-01	L2512663-01,32,,kkmh				03/12 RAP
22	038864-2	WG2038864-2,32,,kkmh				03/12 RAP
23	038864-3	WG2038864-3,32,,kkmh				03/12 RAP
24	038864-1	WG2038864-1,32,,kkmh				03/12 RAP
25	038864-4	WG2038864-4,32,,kkmh	need 10X, diluted out		SV-RAP	03/12 RAP
26	038864-5	WG2038864-5,32,,kkmh	need 10X, diluted out			03/12 RAP
27	12769-02	L2512769-02,32,,kkmh	10X - Nap OC			03/12 RAP
28	038211-2	WG2038211-2,32,,kkmh				
29	038211-3	WG2038211-3,32,,kkmh				
30	038211-1	WG2038211-1,32,,kkmh				
31	12769-01	L2512769-01,32,,kkmh				
32	12769-03	L2512769-03,32,,kkmh				
33	12769-04	L2512769-04,32,,kkmh				
34	12769-05	L2512769-05,32,,kkmh				
35	12769-07	L2512769-07,32,,kkmh				
36	12607-01	L2512607-01,32,,kkmh				
37	12607-02	L2512607-02,32,,kkmh				
38	12607-03	L2512607-03,32,,kkmh				
39	12607-04	L2512607-04,32,,kkmh				
40	12607-05	L2512607-05,32,,kkmh				

Dep.: GCMS
Inst: SV119
Date: **03/12/25**
Run:

Method
GC: SIM RVT

Seq: WG2039433
ICAL: 21826

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	Initials
41	12607-06	L2512607-06,32,,kkmh			KMH	

Dep.: GCMS
Inst: SV119
Date: **03/13/25**
Run:

Method
GC: SIM RVT

Seq: WG2039957
ICAL: 21826

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	Initials
48	deg0313	wg-1,32,,dftpp SV119 lot# 11462				
48	deg0313a	wg-1,32,,dftpp SV119 lot# 11462				03/13 RAP
49	ccv0313	wg-3,32,,ICV 11275 (0309)	PCP low			03/13 RAP
50	blank0313	instrument blank				
50	blank0313a	instrument blank				
1	038103-2	WG2038103-2,32,,RV,kmh				03/13 RAP
2	038103-3	WG2038103-3,32,,RV,kmh				03/13 RAP
3	558-02d1	L2512558-02d,32,5,kmh				
4	814-06d1	L2512814-06d,32,2,kmh				
5	12607-06	L2512607-06,32,,kmh				03/13 RAP
6	038838-2	WG2038838-2,32,,kmh	RV - compounds high			03/13 RAP
7	038838-3	WG2038838-3,32,,kmh	RV – vial empty			03/13 RAP
8	038838-1	WG2038838-1,32,,kmh	RV - hit over RL			03/13 RAP
9	038211-2	WG2038211-2,32,,RV,kmh				03/13 RAP
10	038211-3	WG2038211-3,32,,RV,kmh				03/13 RAP
11	769-02d1	L2512769-02d,32,10,kmh				03/13 RAP
12	13047-09	L2513047-09,32,,kmh				
13	13047-10	L2513047-10,32,,kmh			SV-RAP	
14	039217-2	WG2039217-2,32,,kmh				
15	039217-3	WG2039217-3,32,,kmh				
16	039217-1	WG2039217-1,32,,kmh				
17	13015-01	L2513015-01,32,,kmh				
18	13015-03	L2513015-03,32,,kmh				
19	12875-01	L2512875-01,32,,kmh				
20	12875-02	L2512875-02,32,,kmh				
21	12875-03	L2512875-03,32,,kmh				
22	12875-04	L2512875-04,32,,kmh				
23	12875-05	L2512875-05,32,,kmh				
24	12875-06	L2512875-06,32,,kmh				
25	12875-07	L2512875-07,32,,kmh				
26	12875-08	L2512875-08,32,,kmh				
27	12993-01	L2512993-01,32,,kmh				
28	12993-11	L2512993-11,32,,kmh			kmh	

Dep.: GCMS
Inst: SV118
Date: **03/13/25**
Run: a

Method
GC: SIM RVT

Seq: WG2040034
ICAL: 21963

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
48	deg0313a	wg-1,32,,dftpp SV118 lot #11462				03/13 RAP
49	ccv0313a	wg-3,32,,ICV 11275 (0309)	PCP low			03/13 RAP
50	blank0313a	instrument blank				
1	038758-1	WG2038758-1,32,,kmh				
2	038758-2	WG2038758-2,32,,kmh				
3	038758-3	WG2038758-3,32,,kmh				
4	12607-04	L2512607-04,32,,RV,kmh				03/13 RAP
5	12769-03	L2512769-03,32,,RV,kmh				
6	12769-05	L2512769-05,32,,RV,kmh				
7	12769-07	L2512769-07,32,,RV,kmh			SV-RAP	
8	12881-01	L2512881-01,32,,kmh				
9	12881-02	L2512881-02,32,,kmh				
10	12881-03	L2512881-03,32,,kmh				
11	12881-04	L2512881-04,32,,kmh				
12	12881-06	L2512881-06,32,,kmh				
13	12881-07	L2512881-07,32,,kmh				
14	12881-08	L2512881-08,32,,kmh				
15	12974-03	L2512974-03,32,,kmh				
16	12974-04	L2512974-04,32,,kmh				
17	12974-06	L2512974-06,32,,kmh				
18	12974-08	L2512974-08,32,,kmh				
19	12974-09	L2512974-09,32,,kmh				
20	13104-01	L2513104-01,32,,kmh				
21	13118-01	L2513118-01,32,,kmh				
22	13118-02	L2513118-02,32,,kmh				
23	13124-01	L2513124-01,32,,kmh				
24	13126-01	L2513126-01,32,,kmh				
25	13126-02	L2513126-02,32,,kmh				
26	12948-04	L2512948-04,32,,kmh				
27	12948-05	L2512948-05,32,,kmh				
28	13005-06	L2513005-06,32,,kmh			kmh	

ORGANIC ELN REPORT

Workgroup: WG2038209

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EJ756
Surrogate Type: ABN **Lot #:** 11378ag,08/11/2025,2c,7,7
Spike Type: ABN-SIM **Lot #:** 11219al,06/19/2025,4r,11220ad
Spike Verify by: SHD
Lims Spikelot: 8270-RVT

Additional Reagents/Stds

H2SO4	A120224
Na2SO4	23K2961078
NaOH	10NNaOH010625

Conc.Method: Buchi
Solvent Type: DCM
Lot #: EJ756

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Conc Date	Analyst	Final Vol ml	Conc Unit
L2512368-01 SAMP	03/08/25 23:50	Samy Dakkash	100	<2, >12	.1		03/09/25 04:36	Alaina Ohara-Cruz	1	K
L2512368-02 SAMP	03/08/25 23:50	Samy Dakkash	100	<2, >12	.1		03/09/25 04:36	Alaina Ohara-Cruz	1	K
L2512368-04 SAMP	03/08/25 23:50	Samy Dakkash	100	<2, >12	.1		03/09/25 04:36	Alaina Ohara-Cruz	1	K
L2512368-05 SAMP	03/08/25 23:50	Samy Dakkash	100	<2, >12	.1		03/09/25 04:36	Alaina Ohara-Cruz	1	K
L2512368-07 SAMP	03/08/25 23:50	Samy Dakkash	100	<2, >12	.1		03/09/25 04:36	Alaina Ohara-Cruz	1	K
L2512368-08 SAMP	03/08/25 23:50	Samy Dakkash	100	<2, >12	.1		03/09/25 04:36	Alaina Ohara-Cruz	1	K

Reported: 13-MAR-25 11:50 AM

ORGANIC ELN REPORT

Workgroup: WG2038209

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2512368-10 SAMP	03/08/25 23:50	Samy Dakkash	100	<2, >12	.1		03/09/25 04:36	Alaina Ohara-Cruz	1	K
L2512368-11 SAMP	03/08/25 23:50	Samy Dakkash	100	<2, >12	.1		03/09/25 04:36	Alaina Ohara-Cruz	1	K
L2512368-13 SAMP	03/08/25 23:50	Samy Dakkash	100	<2, >12	.1		03/09/25 04:36	Alaina Ohara-Cruz	1	K
L2512368-14 SAMP	03/08/25 23:50	Samy Dakkash	100	<2, >12	.1		03/09/25 04:36	Alaina Ohara-Cruz	1	K
L2512368-16 SAMP	03/09/25 04:03	Samy Dakkash	100	<2, >12	.1		03/09/25 04:36	Alaina Ohara-Cruz	1	K
L2512368-17 SAMP	03/09/25 04:03	Samy Dakkash	100	<2, >12	.1		03/09/25 04:36	Alaina Ohara-Cruz	1	K
L2512368-19 SAMP	03/09/25 04:03	Samy Dakkash	100	<2, >12	.1		03/09/25 04:36	Alaina Ohara-Cruz	1	K
L2512568-01 SAMP	03/09/25 04:03	Samy Dakkash	100	<2, >12	.1		03/09/25 04:36	Alaina Ohara-Cruz	1	K

ORGANIC ELN REPORT

Workgroup: WG2038209

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2512607-01 SAMP	03/09/25 04:03	Samy Dakkash	100	<2, >12	.1		03/09/25 04:36	Alaina Ohara-Cruz	1	K
L2512607-02 SAMP	03/09/25 04:03	Samy Dakkash	100	<2, >12	.1		03/09/25 04:36	Alaina Ohara-Cruz	1	K
L2512607-03 SAMP	03/09/25 04:03	Samy Dakkash	100	<2, >12	.1		03/09/25 04:36	Alaina Ohara-Cruz	1	K
L2512607-04 SAMP	03/09/25 04:03	Samy Dakkash	100	<2, >12	.1		03/09/25 04:36	Alaina Ohara-Cruz	1	K
L2512607-05 SAMP	03/09/25 04:03	Samy Dakkash	100	<2, >12	.1		03/09/25 04:36	Alaina Ohara-Cruz	1	K
L2512607-06 SAMP	03/09/25 04:03	Samy Dakkash	100	<2, >12	.1		03/09/25 04:36	Alaina Ohara-Cruz	1	K
WG2038209-1 BLANK	03/08/25 23:50 **WG2038207**	Samy Dakkash	100	<2, >12	.1		03/09/25 04:36	Alaina Ohara-Cruz	1	K
WG2038209-2 LCS	03/08/25 23:50	Samy Dakkash	100	<2, >12	.1	.1	03/09/25 04:36	Alaina Ohara-Cruz	1	K

Reported: 13-MAR-25 11:50 AM

ORGANIC ELN REPORT

Workgroup: WG2038209

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
WG2038209-3 LCSD	03/08/25 23:50	Samy Dakkash	100	<2, >12	.1	.1	03/09/25 04:36	Alaina Ohara-Cruz	1	K
WG2038209-4 MS	03/08/25 23:50	Samy Dakkash	100	<2, >12	.1	.1	03/09/25 04:36	Alaina Ohara-Cruz	1	K
WG2038209-5 MSD	03/08/25 23:50	Samy Dakkash	100	<2, >12	.1	.1	03/09/25 04:36	Alaina Ohara-Cruz	1	K

Reported: 13-MAR-25 11:50 AM

Metals

Inorganic Data
(ICP Analysis)

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512607
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2512607-01	Date Collected	: 03/06/25 10:30
Client ID	: MW-4S	Date Received	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	: 03/12/25 21:08
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DHL
Lab File ID	: WG2039408.pdf	Instrument ID	: TRACE6
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 03/11/25

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0486	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	15.4	0.100	0.0350	
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	ND	0.0500	0.0090	U
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	4.88	0.100	0.0153	
7439-96-5	Manganese, Total	0.0042	0.0100	0.0016	J
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	1.73	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	55.9	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	ND	0.0050	0.0021	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512607
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2512607-02	Date Collected	: 03/06/25 10:24
Client ID	: MW-4D2	Date Received	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	: 03/12/25 21:15
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DHL
Lab File ID	: WG2039408.pdf	Instrument ID	: TRACE6
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 03/11/25

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0122	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	10.3	0.100	0.0350	
7440-47-3	Chromium, Total	0.0055	0.0100	0.0021	J
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	0.0570	0.0500	0.0090	
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	4.43	0.100	0.0153	
7439-96-5	Manganese, Total	0.0019	0.0100	0.0016	J
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	0.854	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	6.41	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	0.0073	0.0050	0.0021	

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-03	**Date Collected**	: 03/06/25 09:13
Client ID	: MW-12S	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/12/25 21:21
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG2039408.pdf	**Instrument ID**	: TRACE6
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/11/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0580	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	5.84	0.100	0.0350	
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	0.0603	0.0500	0.0090	
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	2.03	0.100	0.0153	
7439-96-5	Manganese, Total	0.0206	0.0100	0.0016	
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	1.25	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	73.3	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	0.0025	0.0050	0.0021	J

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512607
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2512607-04	Date Collected	: 03/06/25 08:46
Client ID	: MW-12D	Date Received	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	: 03/12/25 21:28
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DHL
Lab File ID	: WG2039408.pdf	Instrument ID	: TRACE6
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 03/11/25

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0344	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	13.6	0.100	0.0350	
7440-47-3	Chromium, Total	0.0044	0.0100	0.0021	J
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	0.0163	0.0500	0.0090	J
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	5.39	0.100	0.0153	
7439-96-5	Manganese, Total	ND	0.0100	0.0016	U
7440-02-0	Nickel, Total	0.0036	0.0250	0.0024	J
7440-09-7	Potassium, Total	1.12	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	13.3	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	0.0115	0.0050	0.0021	

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Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512607
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2512607-05	Date Collected	: 03/06/25 11:51
Client ID	: SCDOH_DR	Date Received	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	: 03/12/25 21:35
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DHL
Lab File ID	: WG2039408.pdf	Instrument ID	: TRACE6
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 03/11/25

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0150	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	14.4	0.100	0.0350	
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	0.0626	0.0500	0.0090	
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	6.12	0.100	0.0153	
7439-96-5	Manganese, Total	0.0169	0.0100	0.0016	
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	1.53	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	22.0	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	ND	0.0050	0.0021	U

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2039059-1	**Date Collected**	: NA
Client ID	: WG2039059-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/12/25 13:42
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG2039408.pdf	**Instrument ID**	: TRACE6
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/11/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	ND	0.0100	0.0021	U
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	0.0502	0.100	0.0350	J
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	ND	0.0500	0.0090	U
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	ND	0.100	0.0153	U
7439-96-5	Manganese, Total	ND	0.0100	0.0016	U
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	ND	2.50	0.237	U
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	ND	2.00	0.120	U
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	ND	0.0050	0.0021	U

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2039059-6	**Date Collected**	:
Client ID	: Serial Dilution	**Date Received**	:
Sample Location	:	**Date Analyzed**	: 03/12/25 14:33
Sample Matrix	: WATER	**Dilution Factor**	: 5
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG2039408.pdf	**Instrument ID**	: TRACE6
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/11/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-70-2	Calcium, Total	13.8	0.500	0.175	
7439-95-4	Magnesium, Total	2.70	0.500	0.077	

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2039059-8	**Date Collected**	: 03/05/25 11:20
Client ID	: WG2039059-8 DUP	**Date Received**	: 03/05/25
Sample Location	:	**Date Analyzed**	: 03/12/25 15:55
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG2039408.pdf	**Instrument ID**	: TRACE6
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/11/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	ND	0.100	0.032	U
7440-36-0	Antimony, Total	ND	0.0500	0.007	U
7440-38-2	Arsenic, Total	ND	0.0050	0.002	U
7440-39-3	Barium, Total	0.0151	0.0100	0.002	
7440-41-7	Beryllium, Total	ND	0.0050	0.001	U
7440-43-9	Cadmium, Total	ND	0.0050	0.001	U
7440-70-2	Calcium, Total	23.8	0.100	0.035	
7440-47-3	Chromium, Total	ND	0.0100	0.002	U
7440-48-4	Cobalt, Total	ND	0.0200	0.002	U
7440-50-8	Copper, Total	ND	0.0100	0.002	U
7439-89-6	Iron, Total	ND	0.0500	0.009	U
7439-92-1	Lead, Total	ND	0.0100	0.003	U
7439-95-4	Magnesium, Total	4.66	0.100	0.015	
7439-96-5	Manganese, Total	ND	0.0100	0.002	U
7440-02-0	Nickel, Total	ND	0.0250	0.002	U
7440-09-7	Potassium, Total	1.88	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.004	U
7440-22-4	Silver, Total	ND	0.0070	0.003	U
7440-23-5	Sodium, Total	9.12	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.003	U
7440-62-2	Vanadium, Total	ND	0.0100	0.002	U
7440-66-6	Zinc, Total	0.0132	0.0050	0.002	

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2039059-10	**Date Collected**	:
Client ID	: Serial Dilution	**Date Received**	:
Sample Location	:	**Date Analyzed**	: 03/12/25 16:08
Sample Matrix	: WATER	**Dilution Factor**	: 5
Analytical Method	: 19,200.7	**Analyst**	: DHL
Lab File ID	: WG2039408.pdf	**Instrument ID**	: TRACE6
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/11/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-70-2	Calcium, Total	23.8	0.500	0.175	
7439-95-4	Magnesium, Total	4.75	0.500	0.077	

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Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512607
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2512607-01	Date Collected	: 03/06/25 10:30
Client ID	: MW-4S	Date Received	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	: 03/12/25 22:27
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DMC
Lab File ID	: WG2039392.pdf	Instrument ID	: TRACE5
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 03/11/25

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0502	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	15.5	0.100	0.0350	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	4.93	0.100	0.0153	
7439-96-5	Manganese, Dissolved	0.0024	0.0100	0.0016	J
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	1.65	2.50	0.237	J
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	55.8	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	0.0021	0.0050	0.0021	J

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Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512607
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2512607-02	Date Collected	: 03/06/25 10:24
Client ID	: MW-4D2	Date Received	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	: 03/12/25 22:34
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DMC
Lab File ID	: WG2039392.pdf	Instrument ID	: TRACE5
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 03/11/25

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0137	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	11.4	0.100	0.0350	
7440-47-3	Chromium, Dissolved	0.0031	0.0100	0.0021	J
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	0.0103	0.0500	0.0090	J
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	5.22	0.100	0.0153	
7439-96-5	Manganese, Dissolved	ND	0.0100	0.0016	U
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	0.860	2.50	0.237	J
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	7.47	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	0.0046	0.0050	0.0021	J

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Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512607
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2512607-03	Date Collected	: 03/06/25 09:13
Client ID	: MW-12S	Date Received	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	: 03/12/25 22:40
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DMC
Lab File ID	: WG2039392.pdf	Instrument ID	: TRACE5
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 03/11/25

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0562	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	5.52	0.100	0.0350	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	2.06	0.100	0.0153	
7439-96-5	Manganese, Dissolved	0.0166	0.0100	0.0016	
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	1.13	2.50	0.237	J
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	69.2	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	ND	0.0050	0.0021	U

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-04	**Date Collected**	: 03/06/25 08:46
Client ID	: MW-12D	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/12/25 22:46
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG2039392.pdf	**Instrument ID**	: TRACE5
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/11/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0351	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	13.4	0.100	0.0350	
7440-47-3	Chromium, Dissolved	0.0038	0.0100	0.0021	J
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	5.37	0.100	0.0153	
7439-96-5	Manganese, Dissolved	ND	0.0100	0.0016	U
7440-02-0	Nickel, Dissolved	0.0039	0.0250	0.0024	J
7440-09-7	Potassium, Dissolved	1.03	2.50	0.237	J
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	13.2	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	0.0118	0.0050	0.0021	

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-05	**Date Collected**	: 03/06/25 11:51
Client ID	: SCDOH_DR	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/12/25 22:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG2039392.pdf	**Instrument ID**	: TRACE5
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/11/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0146	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	13.5	0.100	0.0350	
7440-47-3	Chromium, Dissolved	0.0023	0.0100	0.0021	J
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	0.0095	0.0500	0.0090	J
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	6.14	0.100	0.0153	
7439-96-5	Manganese, Dissolved	ND	0.0100	0.0016	U
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	1.34	2.50	0.237	J
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	20.4	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	ND	0.0050	0.0021	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512607
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2512607-06	Date Collected	: 03/06/25 12:00
Client ID	: EQUIPMENT BLANK	Date Received	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	: 03/12/25 22:59
Sample Matrix	: Equipment Blank	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DMC
Lab File ID	: WG2039392.pdf	Instrument ID	: TRACE5
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 03/11/25

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Dissolved	0.220	0.100	0.0318	
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0025	0.0100	0.0021	J
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	0.102	0.100	0.0350	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	0.0041	0.0100	0.0022	J
7439-89-6	Iron, Dissolved	0.274	0.0500	0.0090	
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	0.0643	0.100	0.0153	J
7439-96-5	Manganese, Dissolved	0.0126	0.0100	0.0016	
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	ND	2.50	0.237	U
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	ND	2.00	0.120	U
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	0.0040	0.0050	0.0021	J

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2039054-1	**Date Collected**	: NA
Client ID	: WG2039054-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/12/25 19:37
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG2039392.pdf	**Instrument ID**	: TRACE5
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/11/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	ND	0.0100	0.0021	U
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	ND	0.100	0.0350	U
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	ND	0.100	0.0153	U
7439-96-5	Manganese, Dissolved	0.0033	0.0100	0.0016	J
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	ND	2.50	0.237	U
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	ND	2.00	0.120	U
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	ND	0.0050	0.0021	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2039054-6	**Date Collected**	:
Client ID	: Serial Dilution	**Date Received**	:
Sample Location	:	**Date Analyzed**	: 03/12/25 20:14
Sample Matrix	: WATER	**Dilution Factor**	: 5
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG2039392.pdf	**Instrument ID**	: TRACE5
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/11/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-70-2	Calcium, Dissolved	14.1	0.500	0.175	
7439-95-4	Magnesium, Dissolved	2.74	0.500	0.077	

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2039054-8	**Date Collected**	: 03/05/25 11:20
Client ID	: WG2039054-8 DUP	**Date Received**	: 03/05/25
Sample Location	:	**Date Analyzed**	: 03/12/25 20:33
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG2039392.pdf	**Instrument ID**	: TRACE5
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/11/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.032	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.007	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.002	U
7440-39-3	Barium, Dissolved	0.0156	0.0100	0.002	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.001	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.001	U
7440-70-2	Calcium, Dissolved	23.8	0.100	0.035	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.002	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.002	U
7440-50-8	Copper, Dissolved	0.0061	0.0100	0.002	J
7439-89-6	Iron, Dissolved	ND	0.0500	0.009	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.003	U
7439-95-4	Magnesium, Dissolved	4.85	0.100	0.015	
7439-96-5	Manganese, Dissolved	ND	0.0100	0.002	U
7440-02-0	Nickel, Dissolved	ND	0.0250	0.002	U
7440-09-7	Potassium, Dissolved	1.76	2.50	0.237	J
7782-49-2	Selenium, Dissolved	ND	0.0100	0.004	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.003	U
7440-23-5	Sodium, Dissolved	9.09	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.003	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.002	U
7440-66-6	Zinc, Dissolved	0.0278	0.0050	0.002	

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2039054-10	**Date Collected**	:
Client ID	: Serial Dilution	**Date Received**	:
Sample Location	:	**Date Analyzed**	: 03/12/25 20:59
Sample Matrix	: WATER	**Dilution Factor**	: 5
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG2039392.pdf	**Instrument ID**	: TRACE5
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 03/11/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-70-2	Calcium, Dissolved	24.2	0.500	0.175	
7439-95-4	Magnesium, Dissolved	4.81	0.500	0.077	

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512607
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2512607-06	Date Collected	: 03/06/25 12:00
Client ID	: EQUIPMENT BLANK	Date Received	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	: 03/13/25 13:00
Sample Matrix	: Equipment Blank	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: JMF
Lab File ID	: WG2039956.csv	Instrument ID	: TRACE9
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 03/11/25

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	0.217	0.100	0.0318	
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0024	0.0100	0.0021	J
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	0.115	0.100	0.0350	
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	0.271	0.0500	0.0090	
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	0.0600	0.100	0.0153	J
7439-96-5	Manganese, Total	0.0136	0.0100	0.0016	
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	ND	2.50	0.237	U
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	ND	2.00	0.120	U
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	ND	0.0050	0.0021	U

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE6	**Units**	: mg/l

		Initial Calibration			Continuing Calibration(s)						
Lab ID	:	R1939672-1									
Date Analyzed	:	03/12/25 07:19									
Parameter		**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum		0.500	0.4940	99							
Antimony		0.500	0.4720	94							
Arsenic		0.500	0.4750	95							
Barium		0.500	0.4720	94							
Beryllium		0.500	0.4970	99							
Cadmium		0.500	0.4630	93							
Calcium		0.500	0.5050	101							
Chromium		0.500	0.4840	97							
Cobalt		0.500	0.4680	94							
Copper		0.500	0.4710	94							
Iron		0.500	0.5090	102							
Lead		0.500	0.4690	94							
Magnesium		0.500	0.4920	98							
Manganese		0.500	0.4840	97							
Nickel		0.500	0.4700	94							
Potassium		5.00	5.0600	101							
Selenium		0.500	0.4820	96							
Silver		0.500	0.4750	95							
Sodium		10.0	9.6400	96							
Thallium		0.500	0.4700	94							
Vanadium		0.500	0.4720	94							
Zinc		0.500	0.4700	94							

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE6	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1939672-3			R1939672-6			R1939672-8		R1939672-10	
Date Analyzed :	03/12/25 07:32			03/12/25 09:29			03/12/25 09:42		03/12/25 11:17	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.500	0.4990	100	0.5000	0.474	95	0.482	96	0.485	97
Antimony	0.500	0.4800	96	0.5000	0.460	92	0.460	92	0.457	91
Arsenic	0.500	0.4820	96	0.5000	0.482	96	0.480	96	0.474	95
Barium	0.500	0.4760	95	0.5000	0.447	89	0.456	91	0.460	92
Beryllium	0.500	0.5020	100	0.5000	0.470	94	0.480	96	0.483	97
Cadmium	0.500	0.4770	95	0.5000	0.463	93	0.464	93	0.459	92
Calcium	0.500	0.5100	102	0.5000	0.496	99	0.506	101	0.511	102
Chromium	0.500	0.4850	97	0.5000	0.472	94	0.470	94	0.477	95
Cobalt	0.500	0.4790	96	0.5000	0.458	92	0.458	92	0.456	91
Copper	0.500	0.4790	96	0.5000	0.501	100	0.498	100	0.495	99
Iron	0.500	0.5100	102	0.5000	0.481	96	0.488	98	0.490	98
Lead	0.500	0.4830	97	0.5000	0.484	97	0.482	96	0.475	95
Magnesium	0.500	0.4970	99	0.5000	0.499	100	0.497	99	0.500	100
Manganese	0.500	0.4900	98	0.5000	0.470	94	0.478	96	0.480	96
Nickel	0.500	0.4850	97	0.5000	0.475	95	0.474	95	0.468	94
Potassium	5.00	5.0300	101	5.0000	4.73	95	4.85	97	4.91	98
Selenium	0.500	0.4850	97	0.5000	0.483	97	0.483	97	0.477	95
Silver	0.500	0.4780	96	0.5000	0.486	97	0.481	96	0.484	97
Sodium	10.0	9.7100	97	10.0000	9.48	95	9.61	96	9.56	96
Thallium	0.500	0.4820	96	0.5000	0.478	96	0.477	95	0.471	94
Vanadium	0.500	0.4840	97	0.5000	0.487	97	0.486	97	0.481	96
Zinc	0.500	0.4810	96	0.5000	0.456	91	0.456	91	0.456	91

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE6	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1939672-12			R1939672-14		R1939672-16	
Date Analyzed :				03/12/25 11:44			03/12/25 13:14		03/12/25 14:40	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.483	97	0.486	97	0.481	96
Antimony				0.5000	0.465	93	0.472	94	0.464	93
Arsenic				0.5000	0.479	96	0.476	95	0.474	95
Barium				0.5000	0.456	91	0.464	93	0.462	92
Beryllium				0.5000	0.479	96	0.484	97	0.480	96
Cadmium				0.5000	0.465	93	0.460	92	0.457	91
Calcium				0.5000	0.504	101	0.503	101	0.499	100
Chromium				0.5000	0.470	94	0.480	96	0.472	94
Cobalt				0.5000	0.463	93	0.464	93	0.458	92
Copper				0.5000	0.491	98	0.479	96	0.480	96
Iron				0.5000	0.489	98	0.494	99	0.489	98
Lead				0.5000	0.483	97	0.472	94	0.473	95
Magnesium				0.5000	0.495	99	0.496	99	0.492	98
Manganese				0.5000	0.476	95	0.477	95	0.475	95
Nickel				0.5000	0.475	95	0.469	94	0.467	93
Potassium				5.0000	4.89	98	5.05	101	4.97	99
Selenium				0.5000	0.482	96	0.482	96	0.479	96
Silver				0.5000	0.478	96	0.478	96	0.476	95
Sodium				10.0000	9.54	95	9.55	96	9.62	96
Thallium				0.5000	0.479	96	0.474	95	0.473	95
Vanadium				0.5000	0.484	97	0.476	95	0.478	96
Zinc				0.5000	0.460	92	0.462	92	0.455	91

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE6	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1939672-18			R1939672-20		R1939672-22	
Date Analyzed :				03/12/25 16:14			03/12/25 17:35		03/12/25 18:30	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.479	96	0.484	97	0.479	96
Antimony				0.5000	0.467	93	0.461	92	0.455	91
Arsenic				0.5000	0.462	92	0.459	92	0.453	91
Barium				0.5000	0.459	92	0.458	92	0.453	91
Beryllium				0.5000	0.481	96	0.483	97	0.476	95
Cadmium				0.5000	0.452	90	0.452	90	0.448	90
Calcium				0.5000	0.498	100	0.506	101	0.500	100
Chromium				0.5000	0.475	95	0.476	95	0.474	95
Cobalt				0.5000	0.461	92	0.458	92	0.453	91
Copper				0.5000	0.453	91	0.449	90	0.448	90
Iron				0.5000	0.487	97	0.493	99	0.486	97
Lead				0.5000	0.458	92	0.456	91	0.452	90
Magnesium				0.5000	0.483	97	0.485	97	0.485	97
Manganese				0.5000	0.471	94	0.476	95	0.470	94
Nickel				0.5000	0.459	92	0.458	92	0.454	91
Potassium				5.0000	5.06	101	5.14	103	5.02	100
Selenium				0.5000	0.472	94	0.469	94	0.462	92
Silver				0.5000	0.469	94	0.470	94	0.470	94
Sodium				10.0000	9.26	93	9.23	92	9.14	91
Thallium				0.5000	0.461	92	0.458	92	0.454	91
Vanadium				0.5000	0.462	92	0.460	92	0.455	91
Zinc				0.5000	0.462	92	0.463	93	0.458	92

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE6	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1939672-24			R1939672-26			
Date Analyzed:				03/12/25 19:45			03/12/25 21:41			
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.472	94	0.465	93		
Antimony				0.5000	0.456	91	0.449	90		
Arsenic				0.5000	0.455	91	0.456	91		
Barium				0.5000	0.455	91	0.454	91		
Beryllium				0.5000	0.469	94	0.463	93		
Cadmium				0.5000	0.455	91	0.450	90		
Calcium				0.5000	0.495	99	0.493	99		
Chromium				0.5000	0.473	95	0.466	93		
Cobalt				0.5000	0.456	91	0.449	90		
Copper				0.5000	0.452	90	0.457	91		
Iron				0.5000	0.485	97	0.473	95		
Lead				0.5000	0.461	92	0.459	92		
Magnesium				0.5000	0.482	96	0.481	96		
Manganese				0.5000	0.465	93	0.460	92		
Nickel				0.5000	0.460	92	0.455	91		
Potassium				5.0000	4.94	99	4.88	98		
Selenium				0.5000	0.462	92	0.460	92		
Silver				0.5000	0.470	94	0.467	93		
Sodium				10.0000	9.05	90	9.01	90		
Thallium				0.5000	0.460	92	0.456	91		
Vanadium				0.5000	0.456	91	0.459	92		
Zinc				0.5000	0.463	93	0.455	91		

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Units**	: mg/l

		Initial Calibration			Continuing Calibration(s)						
Lab ID	:	R1939701-1									
Date Analyzed	:	03/12/25 05:52									
Parameter		**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum		0.500	0.5040	101							
Antimony		0.500	0.4970	99							
Arsenic		0.500	0.4850	97							
Barium		0.500	0.4880	98							
Beryllium		0.500	0.5080	102							
Cadmium		0.500	0.4920	98							
Calcium		0.500	0.5150	103							
Chromium		0.500	0.4990	100							
Cobalt		0.500	0.5020	100							
Copper		0.500	0.4900	98							
Iron		0.500	0.5280	106							
Lead		0.500	0.5040	101							
Magnesium		0.500	0.5060	101							
Manganese		0.500	0.5030	101							
Nickel		0.500	0.5020	100							
Potassium		5.00	5.2000	104							
Selenium		0.500	0.4880	98							
Silver		0.500	0.4930	99							
Sodium		10.0	10.0000	100							
Thallium		0.500	0.5070	101							
Vanadium		0.500	0.4920	98							
Zinc		0.500	0.4980	100							

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1939701-3			R1939701-6			R1939701-8		R1939701-10	
Date Analyzed:	03/12/25 06:09			03/12/25 08:33			03/12/25 09:59		03/12/25 11:25	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.500	0.4830	97	0.5000	0.498	100	0.485	97	0.508	102
Antimony	0.500	0.5000	100	0.5000	0.500	100	0.501	100	0.499	100
Arsenic	0.500	0.4880	98	0.5000	0.492	98	0.485	97	0.491	98
Barium	0.500	0.4690	94	0.5000	0.480	96	0.470	94	0.495	99
Beryllium	0.500	0.4910	98	0.5000	0.524	105	0.503	101	0.533	107
Cadmium	0.500	0.4910	98	0.5000	0.485	97	0.483	97	0.482	96
Calcium	0.500	0.4960	99	0.5000	0.508	102	0.496	99	0.526	105
Chromium	0.500	0.5010	100	0.5000	0.490	98	0.487	97	0.485	97
Cobalt	0.500	0.5020	100	0.5000	0.495	99	0.494	99	0.492	98
Copper	0.500	0.4930	99	0.5000	0.484	97	0.481	96	0.478	96
Iron	0.500	0.5060	101	0.5000	0.512	102	0.502	100	0.528	106
Lead	0.500	0.5060	101	0.5000	0.517	103	0.506	101	0.512	102
Magnesium	0.500	0.5120	102	0.5000	0.527	105	0.514	103	0.520	104
Manganese	0.500	0.4820	96	0.5000	0.504	101	0.488	98	0.516	103
Nickel	0.500	0.5050	101	0.5000	0.512	102	0.503	101	0.506	101
Potassium	5.00	5.0000	100	5.0000	5.27	105	5.11	102	5.43	109
Selenium	0.500	0.4850	97	0.5000	0.471	94	0.472	94	0.471	94
Silver	0.500	0.4860	97	0.5000	0.503	101	0.495	99	0.498	100
Sodium	10.0	9.6000	96	10.0000	9.78	98	9.60	96	9.84	98
Thallium	0.500	0.5060	101	0.5000	0.499	100	0.499	100	0.497	99
Vanadium	0.500	0.4960	99	0.5000	0.496	99	0.487	97	0.489	98
Zinc	0.500	0.4980	100	0.5000	0.500	100	0.494	99	0.496	99

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1939701-12			R1939701-14		R1939701-16	
Date Analyzed :				03/12/25 11:44			03/12/25 14:10		03/12/25 15:25	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.500	100	0.510	102	0.501	100
Antimony				0.5000	0.501	100	0.502	100	0.497	99
Arsenic				0.5000	0.491	98	0.498	100	0.478	96
Barium				0.5000	0.487	97	0.492	98	0.480	96
Beryllium				0.5000	0.528	106	0.535	107	0.496	99
Cadmium				0.5000	0.481	96	0.488	98	0.494	99
Calcium				0.5000	0.513	103	0.519	104	0.511	102
Chromium				0.5000	0.485	97	0.494	99	0.505	101
Cobalt				0.5000	0.492	98	0.497	99	0.503	101
Copper				0.5000	0.483	97	0.486	97	0.492	98
Iron				0.5000	0.519	104	0.528	106	0.519	104
Lead				0.5000	0.512	102	0.519	104	0.497	99
Magnesium				0.5000	0.519	104	0.534	107	0.503	101
Manganese				0.5000	0.508	102	0.516	103	0.495	99
Nickel				0.5000	0.507	101	0.514	103	0.496	99
Potassium				5.0000	5.33	107	5.39	108	5.09	102
Selenium				0.5000	0.468	94	0.471	94	0.489	98
Silver				0.5000	0.501	100	0.495	99	0.482	96
Sodium				10.0000	9.77	98	9.84	98	9.95	100
Thallium				0.5000	0.499	100	0.502	100	0.506	101
Vanadium				0.5000	0.490	98	0.500	100	0.491	98
Zinc				0.5000	0.495	99	0.503	101	0.498	100

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1939701-18			R1939701-20		R1939701-22	
Date Analyzed :				03/12/25 16:36			03/12/25 17:31		03/12/25 19:17	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.495	99	0.477	95	0.495	99
Antimony				0.5000	0.489	98	0.482	96	0.480	96
Arsenic				0.5000	0.474	95	0.467	93	0.468	94
Barium				0.5000	0.476	95	0.460	92	0.476	95
Beryllium				0.5000	0.483	97	0.464	93	0.485	97
Cadmium				0.5000	0.495	99	0.490	98	0.487	97
Calcium				0.5000	0.513	103	0.491	98	0.509	102
Chromium				0.5000	0.518	104	0.510	102	0.511	102
Cobalt				0.5000	0.503	101	0.497	99	0.493	99
Copper				0.5000	0.502	100	0.495	99	0.494	99
Iron				0.5000	0.539	108	0.507	101	0.523	105
Lead				0.5000	0.492	98	0.488	98	0.488	98
Magnesium				0.5000	0.510	102	0.501	100	0.507	101
Manganese				0.5000	0.490	98	0.469	94	0.488	98
Nickel				0.5000	0.491	98	0.486	97	0.484	97
Potassium				5.0000	5.01	100	4.79	96	4.97	99
Selenium				0.5000	0.492	98	0.488	98	0.480	96
Silver				0.5000	0.484	97	0.473	95	0.475	95
Sodium				10.0000	9.78	98	9.41	94	9.70	97
Thallium				0.5000	0.504	101	0.497	99	0.492	98
Vanadium				0.5000	0.499	100	0.491	98	0.492	98
Zinc				0.5000	0.497	99	0.491	98	0.491	98

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1939701-24			R1939701-26		R1939701-28	
Date Analyzed :				03/12/25 20:39			03/12/25 21:56		03/12/25 23:05	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.492	98	0.468	94	0.460	92
Antimony				0.5000	0.484	97	0.479	96	0.475	95
Arsenic				0.5000	0.470	94	0.473	95	0.467	93
Barium				0.5000	0.481	96	0.453	91	0.448	90
Beryllium				0.5000	0.492	98	0.465	93	0.462	92
Cadmium				0.5000	0.486	97	0.485	97	0.480	96
Calcium				0.5000	0.517	103	0.497	99	0.480	96
Chromium				0.5000	0.508	102	0.509	102	0.502	100
Cobalt				0.5000	0.492	98	0.490	98	0.485	97
Copper				0.5000	0.492	98	0.492	98	0.487	97
Iron				0.5000	0.522	104	0.491	98	0.484	97
Lead				0.5000	0.490	98	0.491	98	0.488	98
Magnesium				0.5000	0.509	102	0.510	102	0.508	102
Manganese				0.5000	0.493	99	0.464	93	0.461	92
Nickel				0.5000	0.487	97	0.487	97	0.484	97
Potassium				5.0000	5.03	101	4.72	94	4.70	94
Selenium				0.5000	0.480	96	0.475	95	0.470	94
Silver				0.5000	0.477	95	0.475	95	0.471	94
Sodium				10.0000	9.78	98	9.19	92	9.12	91
Thallium				0.5000	0.492	98	0.490	98	0.485	97
Vanadium				0.5000	0.492	98	0.494	99	0.489	98
Zinc				0.5000	0.491	98	0.491	98	0.487	97

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1940136-1									
Date Analyzed :	03/13/25 08:22									
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.500	0.4850	97							
Antimony	0.500	0.4940	99							
Arsenic	0.500	0.4920	98							
Barium	0.500	0.4810	96							
Beryllium	0.500	0.5090	102							
Cadmium	0.500	0.5000	100							
Calcium	0.500	0.5000	100							
Chromium	0.500	0.4940	99							
Cobalt	0.500	0.5100	102							
Copper	0.500	0.4720	94							
Iron	0.500	0.5130	103							
Lead	0.500	0.5020	100							
Magnesium	0.500	0.4910	98							
Manganese	0.500	0.4940	99							
Nickel	0.500	0.5040	101							
Potassium	5.00	5.0900	102							
Selenium	0.500	0.4930	99							
Silver	0.500	0.4660	93							
Sodium	10.0	10.0000	100							
Thallium	0.500	0.4900	98							
Vanadium	0.500	0.4890	98							
Zinc	0.500	0.5060	101							

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1940136-3			R1940136-6			R1940136-8		R1940136-10	
Date Analyzed :	03/13/25 08:29			03/13/25 09:49			03/13/25 10:46		03/13/25 11:53	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.500	0.4950	99	0.5000	0.482	96	0.476	95	0.473	95
Antimony	0.500	0.4990	100	0.5000	0.495	99	0.498	100	0.481	96
Arsenic	0.500	0.4970	99	0.5000	0.487	97	0.483	97	0.465	93
Barium	0.500	0.4920	98	0.5000	0.485	97	0.487	97	0.478	96
Beryllium	0.500	0.5180	104	0.5000	0.510	102	0.501	100	0.496	99
Cadmium	0.500	0.5070	101	0.5000	0.501	100	0.497	99	0.488	98
Calcium	0.500	0.5100	102	0.5000	0.506	101	0.504	101	0.496	99
Chromium	0.500	0.5040	101	0.5000	0.498	100	0.496	99	0.486	97
Cobalt	0.500	0.5160	103	0.5000	0.512	102	0.509	102	0.498	100
Copper	0.500	0.4790	96	0.5000	0.471	94	0.470	94	0.461	92
Iron	0.500	0.5260	105	0.5000	0.517	103	0.516	103	0.504	101
Lead	0.500	0.5090	102	0.5000	0.505	101	0.503	101	0.490	98
Magnesium	0.500	0.5040	101	0.5000	0.494	99	0.490	98	0.483	97
Manganese	0.500	0.5000	100	0.5000	0.497	99	0.497	99	0.488	98
Nickel	0.500	0.5150	103	0.5000	0.510	102	0.503	101	0.493	99
Potassium	5.00	5.2000	104	5.0000	5.12	102	5.06	101	4.97	99
Selenium	0.500	0.4980	100	0.5000	0.492	98	0.488	98	0.469	94
Silver	0.500	0.4850	97	0.5000	0.468	94	0.469	94	0.459	92
Sodium	10.0	10.2000	102	10.0000	9.94	99	9.92	99	9.70	97
Thallium	0.500	0.4950	99	0.5000	0.492	98	0.491	98	0.475	95
Vanadium	0.500	0.4980	100	0.5000	0.493	99	0.489	98	0.481	96
Zinc	0.500	0.5140	103	0.5000	0.508	102	0.501	100	0.489	98

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1940136-12			R1940136-14			
Date Analyzed :				03/13/25 12:38			03/13/25 13:32			
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.459	92	0.462	92		
Antimony				0.5000	0.478	96	0.483	97		
Arsenic				0.5000	0.466	93	0.474	95		
Barium				0.5000	0.474	95	0.475	95		
Beryllium				0.5000	0.491	98	0.493	99		
Cadmium				0.5000	0.480	96	0.480	96		
Calcium				0.5000	0.490	98	0.493	99		
Chromium				0.5000	0.480	96	0.481	96		
Cobalt				0.5000	0.491	98	0.494	99		
Copper				0.5000	0.456	91	0.467	93		
Iron				0.5000	0.499	100	0.505	101		
Lead				0.5000	0.491	98	0.494	99		
Magnesium				0.5000	0.477	95	0.474	95		
Manganese				0.5000	0.480	96	0.485	97		
Nickel				0.5000	0.489	98	0.486	97		
Potassium				5.0000	4.92	98	4.96	99		
Selenium				0.5000	0.467	93	0.476	95		
Silver				0.5000	0.454	91	0.460	92		
Sodium				10.0000	9.59	96	9.66	97		
Thallium				0.5000	0.478	96	0.480	96		
Vanadium				0.5000	0.476	95	0.479	96		
Zinc				0.5000	0.483	97	0.482	96		

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE6		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1939672-2		R1939672-7		R1939672-9		R1939672-11		WG2039059-1	
Date Analyzed :	03/12/25 07:26		03/12/25 09:36		03/12/25 09:48		03/12/25 11:23		03/12/25 13:42	
Parameter	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**
Aluminum	0.0318	U	0.0318	U	0.0318	U	0.0318	U	0.0318	U
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U	0.0071	U
Arsenic	0.00190	U	0.00190	U	0.00190	U	0.00190	U	0.0019	U
Barium	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U
Beryllium	0.000900	U	0.000900	U	0.000900	U	0.000900	U	0.0009	U
Cadmium	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.0010	U
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U	0.0502	J
Chromium	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U
Cobalt	0.00170	U	0.00170	U	0.00170	U	0.00170	U	0.0017	U
Copper	0.00220	U	0.00220	U	0.00220	U	0.00220	U	0.0022	U
Iron	0.00900	U	0.00900	U	0.00900	U	0.00900	U	0.0090	U
Lead	0.00270	U	0.00270	U	0.00270	U	0.00270	U	0.0027	U
Magnesium	0.0153	U	0.0153	U	0.0153	U	0.0153	U	0.0153	U
Manganese	0.00160	U	0.00160	U	0.00160	U	0.00160	U	0.0016	U
Nickel	0.00240	U	0.00240	U	0.00240	U	0.00240	U	0.0024	U
Potassium	0.237	U	0.237	U	0.237	U	0.237	U	0.237	U
Selenium	0.00350	U	0.00350	U	0.00350	U	0.00350	U	0.0035	U
Silver	0.00280	U	0.00280	U	0.00280	U	0.00280	U	0.0028	U
Sodium	0.120	U	0.120	U	0.120	U	0.120	U	0.120	U
Thallium	0.00250	U	0.00250	U	0.00250	U	0.00250	U	0.0025	U
Vanadium	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.0020	U
Zinc	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE6		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1939672-4		R1939672-13		R1939672-15		R1939672-17			
Date Analyzed :	03/12/25 07:39		03/12/25 11:50		03/12/25 13:20		03/12/25 14:46			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum	0.0318	U	0.0318	U	0.0318	U	0.0318	U		
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U		
Arsenic	0.00190	U	0.00190	U	0.00190	U	0.00190	U		
Barium	0.00210	U	0.00210	U	0.00210	U	0.00210	U		
Beryllium	0.000900	U	0.000900	U	0.000900	U	0.000900	U		
Cadmium	0.00100	U	0.00100	U	0.00100	U	0.00100	U		
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U		
Chromium	0.00210	U	0.00210	U	0.00210	U	0.00210	U		
Cobalt	0.00170	U	0.00170	U	0.00170	U	0.00170	U		
Copper	0.00220	U	0.00220	U	0.00220	U	0.00220	U		
Iron	0.00900	U	0.00900	U	0.00900	U	0.00900	U		
Lead	0.00270	U	0.00270	U	0.00270	U	0.00270	U		
Magnesium	0.0153	U	0.0153	U	0.0153	U	0.0153	U		
Manganese	0.00160	U	0.00160	U	0.00160	U	0.00160	U		
Nickel	0.00240	U	0.00240	U	0.00240	U	0.00240	U		
Potassium	0.237	U	0.237	U	0.237	U	0.237	U		
Selenium	0.00350	U	0.00350	U	0.00350	U	0.00350	U		
Silver	0.00280	U	0.00280	U	0.00280	U	0.00280	U		
Sodium	0.120	U	0.120	U	0.120	U	0.120	U		
Thallium	0.00250	U	0.00250	U	0.00250	U	0.00250	U		
Vanadium	0.00200	U	0.00200	U	0.00200	U	0.00200	U		
Zinc	0.00210	U	0.00210	U	0.00210	U	0.00210	U		

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Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE6		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1939672-19		R1939672-21		R1939672-23			
Date Analyzed :			03/12/25 16:20		03/12/25 17:41		03/12/25 18:36			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum			0.0318	U	0.0318	U	0.0318	U		
Antimony			0.00710	U	0.00710	U	0.00710	U		
Arsenic			0.00190	U	0.00190	U	0.00190	U		
Barium			0.00210	U	0.00210	U	0.00210	U		
Beryllium			0.000900	U	0.000900	U	0.000900	U		
Cadmium			0.00100	U	0.00100	U	0.00100	U		
Calcium			0.0350	U	0.0350	U	0.0350	U		
Chromium			0.00210	U	0.00210	U	0.00210	U		
Cobalt			0.00170	U	0.00170	U	0.00170	U		
Copper			0.00220	U	0.00220	U	0.00220	U		
Iron			0.00900	U	0.00900	U	0.00900	U		
Lead			0.00270	U	0.00270	U	0.00270	U		
Magnesium			0.0153	U	0.0153	U	0.0153	U		
Manganese			0.00160	U	0.00160	U	0.00160	U		
Nickel			0.00240	U	0.00240	U	0.00240	U		
Potassium			0.237	U	0.237	U	0.237	U		
Selenium			0.00350	U	0.00350	U	0.00350	U		
Silver			0.00280	U	0.00280	U	0.00280	U		
Sodium			0.120	U	0.120	U	0.120	U		
Thallium			0.00250	U	0.00250	U	0.00250	U		
Vanadium			0.00200	U	0.00200	U	0.00200	U		
Zinc			0.00210	U	0.00210	U	0.00210	U		

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE6		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1939672-25		R1939672-27					
Date Analyzed :			03/12/25 19:52		03/12/25 21:48					
Parameter	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**		**Q**
Aluminum			0.0318	U	0.0318	U				
Antimony			0.00710	U	0.00710	U				
Arsenic			0.00190	U	0.00190	U				
Barium			0.00210	U	0.00210	U				
Beryllium			0.000900	U	0.000900	U				
Cadmium			0.00100	U	0.00100	U				
Calcium			0.0350	U	0.0350	U				
Chromium			0.00210	U	0.00210	U				
Cobalt			0.00170	U	0.00170	U				
Copper			0.00220	U	0.00220	U				
Iron			0.00900	U	0.00900	U				
Lead			0.00270	U	0.00270	U				
Magnesium			0.0153	U	0.0153	U				
Manganese			0.00160	U	0.00160	U				
Nickel			0.00240	U	0.00240	U				
Potassium			0.237	U	0.237	U				
Selenium			0.00350	U	0.00350	U				
Silver			0.00280	U	0.00280	U				
Sodium			0.120	U	0.120	U				
Thallium			0.00250	U	0.00250	U				
Vanadium			0.00200	U	0.00200	U				
Zinc			0.00210	U	0.00210	U				

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1939701-2		R1939701-7		R1939701-9		R1939701-11		WG2039054-1	
Date Analyzed :	03/12/25 05:58		03/12/25 08:39		03/12/25 10:05		03/12/25 11:31		03/12/25 19:37	
Parameter	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**
Aluminum	0.0318	U	0.0318	U	0.0318	U	0.0318	U	0.0318	U
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U	0.0071	U
Arsenic	0.00190	U	0.00190	U	0.00190	U	0.00190	U	0.0019	U
Barium	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U
Beryllium	0.000900	U	0.000900	U	0.000900	U	0.000900	U	0.0009	U
Cadmium	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.0010	U
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U	0.0350	U
Chromium	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U
Cobalt	0.00170	U	0.00170	U	0.00170	U	0.00170	U	0.0017	U
Copper	0.00220	U	0.00220	U	0.00220	U	0.00220	U	0.0022	U
Iron	0.00900	U	0.00900	U	0.00900	U	0.00900	U	0.0090	U
Lead	0.00270	U	0.00270	U	0.00270	U	0.00270	U	0.0027	U
Magnesium	0.0153	U	0.0153	U	0.0153	U	0.0153	U	0.0153	U
Manganese	0.00160	U	0.00160	U	0.00160	U	0.00160	U	0.0033	J
Nickel	0.00240	U	0.00240	U	0.00240	U	0.00240	U	0.0024	U
Potassium	0.237	U	0.237	U	0.237	U	0.237	U	0.237	U
Selenium	0.00350	U	0.00350	U	0.00350	U	0.00350	U	0.0035	U
Silver	0.00280	U	0.00280	U	0.00280	U	0.00280	U	0.0028	U
Sodium	0.120	U	0.120	U	0.120	U	0.136	J	0.120	U
Thallium	0.00250	U	0.00250	U	0.00250	U	0.00250	U	0.0025	U
Vanadium	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.0020	U
Zinc	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1939701-4		R1939701-13		R1939701-15		R1939701-17			
Date Analyzed :	03/12/25 06:15		03/12/25 11:50		03/12/25 14:16		03/12/25 15:31			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum	0.0318	U	0.0318	U	0.0318	U	0.0318	U		
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U		
Arsenic	0.00190	U	0.00190	U	0.00190	U	0.00190	U		
Barium	0.00210	U	0.00210	U	0.00210	U	0.00210	U		
Beryllium	0.000900	U	0.000900	U	0.000900	U	0.000900	U		
Cadmium	0.00100	U	0.00100	U	0.00100	U	0.00100	U		
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U		
Chromium	0.00210	U	0.00210	U	0.00210	U	0.00210	U		
Cobalt	0.00170	U	0.00170	U	0.00170	U	0.00170	U		
Copper	0.00220	U	0.00220	U	0.00220	U	0.00220	U		
Iron	0.00900	U	0.00900	U	0.00900	U	0.00900	U		
Lead	0.00270	U	0.00270	U	0.00270	U	0.00270	U		
Magnesium	0.0153	U	0.0153	U	0.0153	U	0.0153	U		
Manganese	0.00160	U	0.00160	U	0.00160	U	0.00160	U		
Nickel	0.00240	U	0.00240	U	0.00240	U	0.00240	U		
Potassium	0.237	U	0.237	U	0.237	U	0.237	U		
Selenium	0.00350	U	0.00350	U	0.00350	U	0.00350	U		
Silver	0.00280	U	0.00280	U	0.00280	U	0.00280	U		
Sodium	0.120	U	0.120	U	0.120	U	0.120	U		
Thallium	0.00250	U	0.00250	U	0.00250	U	0.00250	U		
Vanadium	0.00200	U	0.00200	U	0.00200	U	0.00200	U		
Zinc	0.00210	U	0.00210	U	0.00210	U	0.00210	U		

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1939701-19		R1939701-21		R1939701-23			
Date Analyzed :			03/12/25 16:53		03/12/25 17:37		03/12/25 19:23			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum			0.0318	U	0.0318	U	0.0318	U		
Antimony			0.00710	U	0.00710	U	0.00710	U		
Arsenic			0.00190	U	0.00190	U	0.00190	U		
Barium			0.00210	U	0.00210	U	0.00210	U		
Beryllium			0.000900	U	0.000900	U	0.000900	U		
Cadmium			0.00100	U	0.00100	U	0.00100	U		
Calcium			0.0350	U	0.0350	U	0.0350	U		
Chromium			0.00210	U	0.00210	U	0.00210	U		
Cobalt			0.00170	U	0.00170	U	0.00170	U		
Copper			0.00220	U	0.00220	U	0.00220	U		
Iron			0.00900	U	0.00900	U	0.00900	U		
Lead			0.00270	U	0.00270	U	0.00270	U		
Magnesium			0.0153	U	0.0153	U	0.0153	U		
Manganese			0.00160	U	0.00160	U	0.00160	U		
Nickel			0.00240	U	0.00240	U	0.00240	U		
Potassium			0.237	U	0.237	U	0.237	U		
Selenium			0.00350	U	0.00350	U	0.00350	U		
Silver			0.00280	U	0.00280	U	0.00280	U		
Sodium			0.120	U	0.120	U	0.120	U		
Thallium			0.00250	U	0.00250	U	0.00250	U		
Vanadium			0.00200	U	0.00200	U	0.00200	U		
Zinc			0.00210	U	0.00210	U	0.00210	U		

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1939701-25		R1939701-27		R1939701-29			
Date Analyzed :			03/12/25 20:45		03/12/25 22:02		03/12/25 23:12			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum			0.0318	U	0.0318	U	0.0318	U		
Antimony			0.00710	U	0.00710	U	0.00710	U		
Arsenic			0.00190	U	0.00190	U	0.00190	U		
Barium			0.00210	U	0.00210	U	0.00210	U		
Beryllium			0.000900	U	0.000900	U	0.000900	U		
Cadmium			0.00100	U	0.00100	U	0.00100	U		
Calcium			0.0350	U	0.0350	U	0.0350	U		
Chromium			0.00210	U	0.00210	U	0.00210	U		
Cobalt			0.00170	U	0.00170	U	0.00170	U		
Copper			0.00220	U	0.00220	U	0.00220	U		
Iron			0.00900	U	0.00900	U	0.00900	U		
Lead			0.00270	U	0.00270	U	0.00270	U		
Magnesium			0.0153	U	0.0153	U	0.0153	U		
Manganese			0.00160	U	0.00160	U	0.00160	U		
Nickel			0.00240	U	0.00240	U	0.00240	U		
Potassium			0.237	U	0.237	U	0.237	U		
Selenium			0.00350	U	0.00350	U	0.00350	U		
Silver			0.00280	U	0.00280	U	0.00280	U		
Sodium			0.120	U	0.120	U	0.120	U		
Thallium			0.00250	U	0.00250	U	0.00250	U		
Vanadium			0.00200	U	0.00200	U	0.00200	U		
Zinc			0.00210	U	0.00210	U	0.00210	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1940136-2		R1940136-7		R1940136-9		R1940136-11			
Date Analyzed :	03/13/25 08:26		03/13/25 09:52		03/13/25 10:50		03/13/25 11:57			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum	0.0318	U	0.0318	U	0.0318	U	0.0318	U		
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U		
Arsenic	0.00190	U	0.00190	U	0.00190	U	0.00190	U		
Barium	0.00210	U	0.00210	U	0.00210	U	0.00210	U		
Beryllium	0.000900	U	0.000900	U	0.000900	U	0.000900	U		
Cadmium	0.00100	U	0.00100	U	0.00100	U	0.00100	U		
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U		
Chromium	0.00210	U	0.00210	U	0.00210	U	0.00210	U		
Cobalt	0.00170	U	0.00170	U	0.00170	U	0.00170	U		
Copper	0.00220	U	0.00220	U	0.00220	U	0.00220	U		
Iron	0.00900	U	0.00900	U	0.00900	U	0.00900	U		
Lead	0.00270	U	0.00270	U	0.00270	U	0.00276	J		
Magnesium	0.0153	U	0.0153	U	0.0153	U	0.0153	U		
Manganese	0.00160	U	0.00160	U	0.00160	U	0.00160	U		
Nickel	0.00240	U	0.00240	U	0.00240	U	0.00240	U		
Potassium	0.237	U	0.237	U	0.237	U	0.237	U		
Selenium	0.00350	U	0.00350	U	0.00350	U	0.00350	U		
Silver	0.00280	U	0.00280	U	0.00280	U	0.00280	U		
Sodium	0.120	U	0.120	U	0.120	U	0.120	U		
Thallium	0.00250	U	0.00250	U	0.00250	U	0.00250	U		
Vanadium	0.00200	U	0.00200	U	0.00200	U	0.00200	U		
Zinc	0.00210	U	0.00210	U	0.00210	U	0.00210	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1940136-4		R1940136-13		R1940136-15					
Date Analyzed :	03/13/25 08:33		03/13/25 12:42		03/13/25 13:35					
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum	0.0318	U	0.0318	U	0.0318	U				
Antimony	0.00710	U	0.00710	U	0.00710	U				
Arsenic	0.00190	U	0.00190	U	0.00190	U				
Barium	0.00210	U	0.00210	U	0.00210	U				
Beryllium	0.000900	U	0.000900	U	0.000900	U				
Cadmium	0.00100	U	0.00100	U	0.00100	U				
Calcium	0.0350	U	0.0350	U	0.0350	U				
Chromium	0.00210	U	0.00210	U	0.00210	U				
Cobalt	0.00170	U	0.00170	U	0.00170	U				
Copper	0.00220	U	0.00220	U	0.00220	U				
Iron	0.00900	U	0.00900	U	0.00900	U				
Lead	0.00270	U	0.00270	U	0.00270	U				
Magnesium	0.0153	U	0.0153	U	0.0153	U				
Manganese	0.00160	U	0.00160	U	0.00160	U				
Nickel	0.00240	U	0.00240	U	0.00240	U				
Potassium	0.237	U	0.237	U	0.237	U				
Selenium	0.00350	U	0.00350	U	0.00350	U				
Silver	0.00280	U	0.00280	U	0.00280	U				
Sodium	0.120	U	0.120	U	0.120	U				
Thallium	0.00250	U	0.00250	U	0.00250	U				
Vanadium	0.00200	U	0.00200	U	0.00200	U				
Zinc	0.00210	U	0.00210	U	0.00210	U				

Form 4a
Interference Check Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE6	**Concentration Units**	: mg/l

	True		Initial Found				Final Found			
Lab ID :			R1939672-5							
Analysis Date :			03/12/25 07:52							
Analyte	**Sol. A**	**Sol. AB**	**Sol. A**	**%R**	**Sol. AB**	**%R**	**Sol. A**	**%R**	**Sol. AB**	**%R**
Aluminum	500		521.	104						
Antimony			-0.0126							
Arsenic			-0.00698							
Barium			0.00138							
Beryllium			-0.0000443							
Cadmium			-0.00429							
Calcium	500		482.	96						
Chromium			-0.000586							
Cobalt			0.000736							
Copper			0.00237							
Iron	200		186.	93						
Lead			0.0000181							
Magnesium	500		481.	96						
Manganese			0.00202							
Nickel			-0.0107							
Potassium			0.00590							
Selenium			0.00269							
Silver			0.000521							
Sodium			0.0220							
Thallium			-0.0101							
Vanadium			-0.000197							
Zinc			0.000783							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 4a
Interference Check Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Concentration Units**	: mg/l

	True		Initial Found				Final Found			
Lab ID :			R1939701-5							
Analysis Date :			03/12/25 06:28							
Analyte	**Sol. A**	**Sol. AB**	**Sol. A**	**%R**	**Sol. AB**	**%R**	**Sol. A**	**%R**	**Sol. AB**	**%R**
Aluminum	500		485.	97						
Antimony			0.00218							
Arsenic			-0.00764							
Barium			0.00126							
Beryllium			-0.000138							
Cadmium			-0.00752							
Calcium	500		451.	90						
Chromium			0.00192							
Cobalt			0.000726							
Copper			0.00155							
Iron	200		175.	88						
Lead			-0.00182							
Magnesium	500		494.	99						
Manganese			-0.0000298							
Nickel			-0.00322							
Potassium			0.00601							
Selenium			0.00208							
Silver			0.00317							
Sodium			0.0617							
Thallium			0.00256							
Vanadium			-0.000139							
Zinc			0.00105							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 4a
Interference Check Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Concentration Units**	: mg/l

	True		Initial Found				Final Found			
Lab ID :			R1940136-5							
Analysis Date :			03/13/25 08:45							
Analyte	**Sol. A**	**Sol. AB**	**Sol. A**	**%R**	**Sol. AB**	**%R**	**Sol. A**	**%R**	**Sol. AB**	**%R**
Aluminum	500		522.	104						
Antimony			-0.0138							
Arsenic			-0.00544							
Barium			0.00147							
Beryllium			0.0000437							
Cadmium			-0.00122							
Calcium	500		491.	98						
Chromium			-0.00103							
Cobalt			-0.000903							
Copper			-0.00538							
Iron	200		192.	96						
Lead			0.000210							
Magnesium	500		489.	98						
Manganese			-0.000371							
Nickel			0.000802							
Potassium			-0.0122							
Selenium			-0.00148							
Silver			-0.00155							
Sodium			0.00219							
Thallium			0.00469							
Vanadium			-0.00162							
Zinc			-0.00261							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2512368-10		
Matrix Spike	: WG2039059-3	**MS Analysis Date**	: 03/12/25 14:14
Matrix Spike Dup	: WG2039059-4	**MSD Analysis Date**	: 03/12/25 14:20

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Total	ND	2	2.07	104	2	2.06	103	0	75-125	20
Antimony, Total	ND	0.5	0.465	93	0.5	0.465	93	0	75-125	20
Arsenic, Total	ND	0.12	0.113	94	0.12	0.113	94	0	75-125	20
Barium, Total	0.0308	2	1.98	97	2	1.96	96	1	75-125	20
Beryllium, Total	ND	0.05	0.0503	101	0.05	0.0499	100	1	75-125	20
Cadmium, Total	ND	0.053	0.0497	94	0.053	0.0497	94	0	75-125	20
Calcium, Total	13.8	10	23.4	96	10	23.6	98	1	75-125	20
Chromium, Total	ND	0.2	0.194	97	0.2	0.193	96	1	75-125	20
Cobalt, Total	ND	0.5	0.458	92	0.5	0.457	91	0	75-125	20
Copper, Total	ND	0.25	0.263	105	0.25	0.261	104	1	75-125	20
Iron, Total	0.0168J	1	1.03	103	1	1.03	103	0	75-125	20
Lead, Total	ND	0.53	0.506	95	0.53	0.511	96	1	75-125	20
Magnesium, Total	2.72	10	12.6	99	10	12.7	100	1	75-125	20
Manganese, Total	0.0016J	0.5	0.509	102	0.5	0.506	101	1	75-125	20
Nickel, Total	ND	0.5	0.474	95	0.5	0.473	95	0	75-125	20
Potassium, Total	2.19J	10	12.5	125	10	12.5	125	0	75-125	20
Selenium, Total	ND	0.12	0.113	94	0.12	0.113	94	0	75-125	20
Silver, Total	ND	0.05	0.0510	102	0.05	0.0512	102	0	75-125	20
Sodium, Total	12.2	10	22.5	103	10	22.5	103	0	75-125	20
Thallium, Total	ND	0.12	0.108	90	0.12	0.109	91	1	75-125	20
Vanadium, Total	ND	0.5	0.500	100	0.5	0.495	99	1	75-125	20
Zinc, Total	0.0125	0.5	0.470	92	0.5	0.471	92	0	75-125	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2512368-01		
Matrix Spike	: WG2039059-7	**MS Analysis Date**	: 03/12/25 15:48
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Total	ND	2	2.02	101					75-125	20
Antimony, Total	ND	0.5	0.465	93					75-125	20
Arsenic, Total	ND	0.12	0.109	91					75-125	20
Barium, Total	0.0152	2	1.93	96					75-125	20
Beryllium, Total	ND	0.05	0.0492	98					75-125	20
Cadmium, Total	ND	0.053	0.0486	92					75-125	20
Calcium, Total	24.1	10	33.0	89					75-125	20
Chromium, Total	ND	0.2	0.192	96					75-125	20
Cobalt, Total	ND	0.5	0.457	91					75-125	20
Copper, Total	ND	0.25	0.241	96					75-125	20
Iron, Total	0.0097J	1	0.994	99					75-125	20
Lead, Total	ND	0.53	0.490	92					75-125	20
Magnesium, Total	4.70	10	14.4	97					75-125	20
Manganese, Total	0.0180	0.5	0.494	95					75-125	20
Nickel, Total	ND	0.5	0.461	92					75-125	20
Potassium, Total	1.89J	10	12.5	125					75-125	20
Selenium, Total	ND	0.12	0.111	92					75-125	20
Silver, Total	ND	0.05	0.0500	100					75-125	20
Sodium, Total	9.18	10	19.2	100					75-125	20
Thallium, Total	ND	0.12	0.105	88					75-125	20
Vanadium, Total	ND	0.5	0.477	95					75-125	20
Zinc, Total	0.0134	0.5	0.475	92					75-125	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2512368-10		
Matrix Spike	: WG2039054-3	**MS Analysis Date**	: 03/12/25 19:56
Matrix Spike Dup	: WG2039054-4	**MSD Analysis Date**	: 03/12/25 20:02

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Dissolved	ND	2	1.87	94	2	1.96	98	5	75-125	20
Antimony, Dissolved	ND	0.5	0.466	93	0.5	0.473	95	1	75-125	20
Arsenic, Dissolved	ND	0.12	0.111	92	0.12	0.112	93	1	75-125	20
Barium, Dissolved	0.0304	2	1.84	90	2	1.92	94	4	75-125	20
Beryllium, Dissolved	ND	0.05	0.0466	93	0.05	0.0487	97	4	75-125	20
Cadmium, Dissolved	ND	0.053	0.0523	99	0.053	0.0528	100	1	75-125	20
Calcium, Dissolved	13.1	10	21.8	87	10	23.0	99	5	75-125	20
Chromium, Dissolved	ND	0.2	0.207	104	0.2	0.209	104	1	75-125	20
Cobalt, Dissolved	ND	0.5	0.484	97	0.5	0.488	98	1	75-125	20
Copper, Dissolved	ND	0.25	0.255	102	0.25	0.256	102	0	75-125	20
Iron, Dissolved	ND	1	0.968	97	1	1.01	101	4	75-125	20
Lead, Dissolved	ND	0.53	0.512	97	0.53	0.517	98	1	75-125	20
Magnesium, Dissolved	2.67	10	12.6	99	10	12.8	101	2	75-125	20
Manganese, Dissolved	ND	0.5	0.467	93	0.5	0.486	97	4	75-125	20
Nickel, Dissolved	ND	0.5	0.482	96	0.5	0.486	97	1	75-125	20
Potassium, Dissolved	2.02J	10	11.4	114	10	11.9	119	4	75-125	20
Selenium, Dissolved	ND	0.12	0.111	92	0.12	0.111	92	0	75-125	20
Silver, Dissolved	ND	0.05	0.0490	98	0.05	0.0499	100	2	75-125	20
Sodium, Dissolved	11.1	10	20.1	90	10	21.1	100	5	75-125	20
Thallium, Dissolved	ND	0.12	0.110	92	0.12	0.111	92	1	75-125	20
Vanadium, Dissolved	ND	0.5	0.505	101	0.5	0.510	102	1	75-125	20
Zinc, Dissolved	0.0173	0.5	0.512	99	0.5	0.518	100	1	75-125	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2512368-01		
Matrix Spike	: WG2039054-7	**MS Analysis Date**	: 03/12/25 20:27
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Dissolved	ND	2	1.99	100					75-125	20
Antimony, Dissolved	ND	0.5	0.471	94					75-125	20
Arsenic, Dissolved	ND	0.12	0.112	93					75-125	20
Barium, Dissolved	0.0145	2	1.94	96					75-125	20
Beryllium, Dissolved	ND	0.05	0.0500	100					75-125	20
Cadmium, Dissolved	ND	0.053	0.0530	100					75-125	20
Calcium, Dissolved	22.8	10	33.3	105					75-125	20
Chromium, Dissolved	ND	0.2	0.207	104					75-125	20
Cobalt, Dissolved	ND	0.5	0.490	98					75-125	20
Copper, Dissolved	0.0061J	0.25	0.262	105					75-125	20
Iron, Dissolved	ND	1	1.03	103					75-125	20
Lead, Dissolved	ND	0.53	0.518	98					75-125	20
Magnesium, Dissolved	4.71	10	14.9	102					75-125	20
Manganese, Dissolved	ND	0.5	0.499	100					75-125	20
Nickel, Dissolved	ND	0.5	0.488	98					75-125	20
Potassium, Dissolved	1.66J	10	11.9	119					75-125	20
Selenium, Dissolved	ND	0.12	0.112	93					75-125	20
Silver, Dissolved	ND	0.05	0.0501	100					75-125	20
Sodium, Dissolved	8.71	10	19.0	103					75-125	20
Thallium, Dissolved	ND	0.12	0.110	92					75-125	20
Vanadium, Dissolved	ND	0.5	0.510	102					75-125	20
Zinc, Dissolved	0.0272	0.5	0.530	100					75-125	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512607
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Client Sample ID	: NA	Matrix	: WATER
Lab Sample ID	: NA	Analysis Date	: 03/12/25 15:42
Dup Sample ID	: WG2039059-8	DUP Analysis Date	: 03/12/25 15:55

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Aluminum, Total	ND	ND	NC	20
Antimony, Total	ND	ND	NC	20
Arsenic, Total	ND	ND	NC	20
Barium, Total	0.0152	0.0151	1	20
Beryllium, Total	ND	ND	NC	20
Cadmium, Total	ND	ND	NC	20
Calcium, Total	24.1	23.8	1	20
Chromium, Total	ND	ND	NC	20
Cobalt, Total	ND	ND	NC	20
Copper, Total	ND	ND	NC	20
Iron, Total	0.0097J	ND	NC	20
Lead, Total	ND	ND	NC	20
Magnesium, Total	4.70	4.66	1	20
Manganese, Total	0.0180	ND	NC	20
Nickel, Total	ND	ND	NC	20
Potassium, Total	1.89J	1.88J	NC	20
Selenium, Total	ND	ND	NC	20
Silver, Total	ND	ND	NC	20
Sodium, Total	9.18	9.12	1	20
Thallium, Total	ND	ND	NC	20
Vanadium, Total	ND	ND	NC	20
Zinc, Total	0.0134	0.0132	2	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2512607
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Client Sample ID	: NA	Matrix	: WATER
Lab Sample ID	: NA	Analysis Date	: 03/12/25 20:21
Dup Sample ID	: WG2039054-8	DUP Analysis Date	: 03/12/25 20:33

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Aluminum, Dissolved	ND	ND	NC	20
Antimony, Dissolved	ND	ND	NC	20
Arsenic, Dissolved	ND	ND	NC	20
Barium, Dissolved	0.0145	0.0156	7	20
Beryllium, Dissolved	ND	ND	NC	20
Cadmium, Dissolved	ND	ND	NC	20
Calcium, Dissolved	22.8	23.8	4	20
Chromium, Dissolved	ND	ND	NC	20
Cobalt, Dissolved	ND	ND	NC	20
Copper, Dissolved	0.0061J	0.0061J	NC	20
Iron, Dissolved	ND	ND	NC	20
Lead, Dissolved	ND	ND	NC	20
Magnesium, Dissolved	4.71	4.85	3	20
Manganese, Dissolved	ND	ND	NC	20
Nickel, Dissolved	ND	ND	NC	20
Potassium, Dissolved	1.66J	1.76J	NC	20
Selenium, Dissolved	ND	ND	NC	20
Silver, Dissolved	ND	ND	NC	20
Sodium, Dissolved	8.71	9.09	4	20
Thallium, Dissolved	ND	ND	NC	20
Vanadium, Dissolved	ND	ND	NC	20
Zinc, Dissolved	0.0272	0.0278	2	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2039059-2	**LCS Analysis Date**	: 03/12/25 13:48
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Total	2.00	2.07	104.					85-115	20
Antimony, Total	0.500	0.457	91.					85-115	20
Arsenic, Total	0.120	0.111	92.					85-115	20
Barium, Total	2.00	1.97	98.					85-115	20
Beryllium, Total	0.0500	0.0502	100.					85-115	20
Cadmium, Total	0.0530	0.0496	94.					85-115	20
Calcium, Total	10.0	10.3	103.					85-115	20
Chromium, Total	0.200	0.193	96.					85-115	20
Cobalt, Total	0.500	0.459	92.					85-115	20
Copper, Total	0.250	0.260	104.					85-115	20
Iron, Total	1.00	1.04	104.					85-115	20
Lead, Total	0.530	0.508	96.					85-115	20
Magnesium, Total	10.0	10.0	100.					85-115	20
Manganese, Total	0.500	0.513	103.					85-115	20
Nickel, Total	0.500	0.475	95.					85-115	20
Potassium, Total	10.0	10.4	104.					85-115	20
Selenium, Total	0.120	0.109	91.					85-115	20
Silver, Total	0.0500	0.0506	101.					85-115	20
Sodium, Total	10.0	10.4	104.					85-115	20
Thallium, Total	0.120	0.107	89.					85-115	20
Vanadium, Total	0.500	0.500	100.					85-115	20
Zinc, Total	0.500	0.457	91.					85-115	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2039054-2	**LCS Analysis Date**	: 03/12/25 19:43
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Dissolved	2.00	1.93	96.					85-115	20
Antimony, Dissolved	0.500	0.458	92.					85-115	20
Arsenic, Dissolved	0.120	0.109	91.					85-115	20
Barium, Dissolved	2.00	1.86	93.					85-115	20
Beryllium, Dissolved	0.0500	0.0477	95.					85-115	20
Cadmium, Dissolved	0.0530	0.0525	99.					85-115	20
Calcium, Dissolved	10.0	9.65	96.					85-115	20
Chromium, Dissolved	0.200	0.207	104.					85-115	20
Cobalt, Dissolved	0.500	0.488	98.					85-115	20
Copper, Dissolved	0.250	0.255	102.					85-115	20
Iron, Dissolved	1.00	0.998	100.					85-115	20
Lead, Dissolved	0.530	0.515	97.					85-115	20
Magnesium, Dissolved	10.0	10.1	101.					85-115	20
Manganese, Dissolved	0.500	0.481	96.					85-115	20
Nickel, Dissolved	0.500	0.486	97.					85-115	20
Potassium, Dissolved	10.0	9.60	96.					85-115	20
Selenium, Dissolved	0.120	0.108	90.					85-115	20
Silver, Dissolved	0.0500	0.0496	99.					85-115	20
Sodium, Dissolved	10.0	9.55	96.					85-115	20
Thallium, Dissolved	0.120	0.110	92.					85-115	20
Vanadium, Dissolved	0.500	0.506	101.					85-115	20
Zinc, Dissolved	0.500	0.498	100.					85-115	20

Form 8
Serial Dilutions

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2512368-10	**Analysis Date**	: 03/12/25 14:08
Serial Dilution ID	: WG2039059-6	**Analysis Date**	: 03/12/25 14:33

Parameter	Initial Sample Result (mg/l)	Serial Dilution Result (mg/l)	% Difference	%D Limit
Calcium, Total	13.8	13.8	0	20
Magnesium, Total	2.72	2.70	1	20

Form 8
Serial Dilutions

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2512368-01	**Analysis Date**	: 03/12/25 15:42
Serial Dilution ID	: WG2039059-10	**Analysis Date**	: 03/12/25 16:08

Parameter	Initial Sample Result (mg/l)	Serial Dilution Result (mg/l)	% Difference	%D Limit
Calcium, Total	24.1	23.8	1	20
Magnesium, Total	4.70	4.75	1	20

Form 8
Serial Dilutions

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2512368-10	**Analysis Date**	: 03/12/25 19:50
Serial Dilution ID	: WG2039054-6	**Analysis Date**	: 03/12/25 20:14

Parameter	Initial Sample Result (mg/l)	Serial Dilution Result (mg/l)	% Difference	%D Limit
Calcium, Dissolved	13.1	14.1	8	20
Magnesium, Dissolved	2.67	2.74	3	20

Form 8
Serial Dilutions

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2512368-01	**Analysis Date**	: 03/12/25 20:21
Serial Dilution ID	: WG2039054-10	**Analysis Date**	: 03/12/25 20:59

Parameter	Initial Sample Result (mg/l)	Serial Dilution Result (mg/l)	% Difference	%D Limit
Calcium, Dissolved	22.8	24.2	6	20
Magnesium, Dissolved	4.71	4.81	2	20

U.S. EPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	__
Aluminum	396.15	0.0000000	0.0000020	-0.0000310	-0.0000090	
Antimony	206.83	-0.0000020	0.0000040	-0.0000110	-0.0000050	
Arsenic	189.04	0.0000090	-0.0000010	-0.0000700	0.0000000	
Barium	455.40	-0.0000040	-0.0000020	-0.0000110	-0.0000010	
Beryllium	313.40	-0.0000020	-0.0000020	-0.0000050	0.0000000	
Cadmium	214.44	0.0000000	-0.0000030	0.0000000	-0.0000010	
Calcium	315.89	0.0000780	0.0000000	-0.0000170	0.0000710	
Chromium	267.72	0.0000050	-0.0000020	0.0000120	0.0000000	
Cobalt	228.62	-0.0000120	-0.0000060	-0.0000250	-0.0000020	
Copper	324.75	-0.0000030	-0.0000020	-0.0000040	0.0000110	
Iron	259.94	0.0000180	-0.0000120	0.0000000	-0.0000030	
Lead	220.35	0.0001100	-0.0000010	0.0000180	-0.0000010	
Magnesium	279.08	-0.0000540	-0.0000280	0.0000190	0.0000000	
Manganese	257.61	-0.0000030	-0.0000020	-0.0000080	0.0000020	
Mercury						
Nickel	231.60	-0.0000130	-0.0000050	-0.0000240	-0.0000020	
Potassium	766.49	-0.0012590	-0.0007040	-0.0028490	-0.0002350	
Selenium	196.09	-0.0000200	0.0000000	-0.0000290	-0.0000010	
Silver	328.07	-0.0000040	-0.0000020	-0.0000090	-0.0000010	
Sodium	589.59	-0.0006160	-0.0005220	-0.0020960	-0.0001600	
Thallium	190.86	-0.0000060	-0.0000040	-0.0000050	-0.0000010	
Vanadium	292.40	-0.0000050	-0.0000030	0.0000100	-0.0000020	
Zinc	206.20	0.0002750	0.0000030	-0.0007990	-0.0000040	

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	-0.0022950	-0.0018570
Antimony	206.83	0.0000000	0.0000000	0.0000000	-0.0003900	-0.0000120
Arsenic	189.04	0.0000000	0.0000000	0.0000210	-0.0001780	-0.0001730
Barium	455.40	0.0000000	0.0000000	0.0000000	-0.0002050	-0.0002030
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000860
Cadmium	214.44	0.0000000	0.0000000	0.0000000	-0.0002090	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	-0.0020880	-0.0018790
Chromium	267.72	0.0000000	0.0000000	0.0000000	-0.0002010	-0.0003100
Cobalt	228.62	0.0000000	0.0000000	0.0000000	-0.0004810	-0.0004970
Copper	324.75	0.0000000	0.0000000	0.0000000	-0.0002330	-0.0002260
Iron	259.94	0.0000000	0.0000000	0.0000000	-0.0012310	-0.0009570
Lead	220.35	0.0000000	0.0000000	0.0000000	-0.0001700	-0.0001850
Magnesium	279.08	0.0000000	0.0000000	0.0000000	-0.0022440	-0.0017830
Manganese	257.61	0.0000000	0.0000000	0.0000000	-0.0001950	-0.0002020
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	-0.0005490	-0.0005200
Potassium	766.49	0.0000000	0.0000000	0.0000000	-0.0522980	-0.0517110
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000060	0.0000030
Silver	328.07	0.0000000	0.0000000	0.0000000	-0.0001740	-0.0001560
Sodium	589.59	0.0000000	0.0000000	0.0000000	-0.0417330	-0.0407400
Thallium	190.86	0.0000000	0.0000000	0.0000000	-0.0002650	-0.0002240
Vanadium	292.40	0.0000000	0.0000000	0.0000000	-0.0002090	-0.0002040
Zinc	206.20	0.0000000	0.0000000	0.0000000	-0.0000320	-0.0009250

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument ID: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Co	Cu	Pb	Mn
Aluminum	396.15	-0.0020320	-0.0005350	-0.0005960	0.0000000	-0.0003930
Antimony	206.83	0.0049920	-0.0001600	-0.0001410	0.0000000	-0.0001780
Arsenic	189.04	0.0002670	-0.0001290	-0.0000570	0.0000000	-0.0000030
Barium	455.40	-0.0002000	-0.0000500	-0.0000660	0.0000000	-0.0000350
Beryllium	313.40	-0.0000900	-0.0000220	-0.0000300	0.0000000	-0.0000110
Cadmium	214.44	-0.0000290	-0.0000520	-0.0000680	0.0000000	-0.0000270
Calcium	315.89	-0.0020720	0.0009940	-0.0005720	0.0000000	-0.0000920
Chromium	267.72	0.0000000	-0.0000480	-0.0000690	0.0000000	0.0001140
Cobalt	228.62	-0.0005870	0.0000000	-0.0001660	0.0000000	-0.0000740
Copper	324.75	-0.0002130	-0.0000490	0.0000000	0.0000000	0.0000300
Iron	259.94	-0.0010370	-0.0002940	-0.0003760	0.0000000	-0.0001890
Lead	220.35	-0.0001960	-0.0003260	0.0002710	0.0000000	0.0000640
Magnesium	279.08	-0.0024620	-0.0005640	-0.0008730	0.0000000	-0.0069760
Manganese	257.61	-0.0002060	-0.0000480	-0.0000750	0.0000000	0.0000000
Mercury						
Nickel	231.60	-0.0005230	-0.0002210	-0.0001810	0.0000000	-0.0000730
Potassium	766.49	-0.0512430	-0.0126240	-0.0178480	0.0000000	-0.0089880
Selenium	196.09	-0.0000520	0.0000530	-0.0000240	0.0000000	0.0003780
Silver	328.07	-0.0001430	-0.0000370	-0.0000450	0.0000000	0.0001940
Sodium	589.59	-0.0407180	-0.0097580	-0.0137660	0.0000000	-0.0070470
Thallium	190.86	-0.0000390	0.0020440	-0.0000840	-0.0000200	0.0003990
Vanadium	292.40	-0.0002210	-0.0000500	-0.0000650	0.0000000	0.0001060
Zinc	206.20	-0.0012900	0.0000070	0.0003430	0.0001200	-0.0001520

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Mo
Aluminum	396.15	0.0000000	0.0000960	0.0000000	0.0000000	0.0573510
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0016160
Arsenic	189.04	-0.0000310	0.0000000	0.0000000	0.0000000	0.0009550
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000010	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0009910
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000120
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0004030
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0003010	0.0000000	0.0000210	0.0000000	-0.0026290
Magnesium	279.08	0.0000000	0.0000000	0.0001760	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000340	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000180
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000310	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Co	Cu	Pb	Mn
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0114090	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0003850	-0.0000480	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0007800	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	-0.0092850
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	-0.0001620	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000620	0.0000000	0.0000000	0.0006770
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	-0.0019910	0.0000000	0.0000000	0.0000000	-0.0004360
Zinc	206.20					

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000930	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0002270	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	-0.0003390	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Tl	V	Zn		
Aluminum	396.15	0.0000000	0.0000000	0.0000000		
Antimony	206.83	0.0000000	0.0000000	0.0000000		
Arsenic	189.04	0.0000000	0.0000000	0.0000000		
Barium	455.40	0.0000000	0.0000000	0.0000000		
Beryllium	313.40	0.0000000	0.0018940	0.0000000		
Cadmium	214.44	0.0000000	0.0000000	0.0000000		
Calcium	315.89	0.0000000	0.0000000	0.0000000		
Chromium	267.72	0.0000000	0.0000000	0.0000000		
Cobalt	228.62	0.0017990	0.0000000	0.0000000		
Copper	324.75	0.0000000	-0.0003720	0.0000000		
Iron	259.94	0.0000000	0.0000000	0.0000000		
Lead	220.35	0.0000000	-0.0001170	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000	0.0000000		
Mercury						
Nickel	231.60	0.0005790	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.09	0.0000000	0.0000000	0.0000000		
Silver	328.07	0.0000000	-0.0017200	0.0000000		
Sodium	589.59	0.0000000	0.0000000	0.0000000		
Thallium	190.86	0.0000000	0.0002820	0.0000000		
Vanadium	292.40	0.0000000	0.0000000	0.0000000		
Zinc	206.20	0.0000000	0.0000000	0.0000000		

Comments:

U.S. EPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Mo
Aluminum	396.15	0.0000000	0.0000960	0.0000000	0.0000000	0.0573510
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0016160
Arsenic	189.04	-0.0000310	0.0000000	0.0000000	0.0000000	0.0009550
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000010	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0009910
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000120
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0004030
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0003010	0.0000000	0.0000210	0.0000000	-0.0026290
Magnesium	279.08	0.0000000	0.0000000	0.0001760	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000340	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000180
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000310	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Co	Cu	Pb	Mn
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0114090	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0003850	-0.0000480	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0007800	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	-0.0092850
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	-0.0001620	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000620	0.0000000	0.0000000	0.0006770
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	-0.0019910	0.0000000	0.0000000	0.0000000	-0.0004360
Zinc	206.20					

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000930	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0002270	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	-0.0003390	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Tl	V	Zn		
Aluminum	396.15	0.0000000	0.0000000	0.0000000		
Antimony	206.83	0.0000000	0.0000000	0.0000000		
Arsenic	189.04	0.0000000	0.0000000	0.0000000		
Barium	455.40	0.0000000	0.0000000	0.0000000		
Beryllium	313.40	0.0000000	0.0018940	0.0000000		
Cadmium	214.44	0.0000000	0.0000000	0.0000000		
Calcium	315.89	0.0000000	0.0000000	0.0000000		
Chromium	267.72	0.0000000	0.0000000	0.0000000		
Cobalt	228.62	0.0017990	0.0000000	0.0000000		
Copper	324.75	0.0000000	-0.0003720	0.0000000		
Iron	259.94	0.0000000	0.0000000	0.0000000		
Lead	220.35	0.0000000	-0.0001170	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000	0.0000000		
Mercury						
Nickel	231.60	0.0005790	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.09	0.0000000	0.0000000	0.0000000		
Silver	328.07	0.0000000	-0.0017200	0.0000000		
Sodium	589.59	0.0000000	0.0000000	0.0000000		
Thallium	190.86	0.0000000	0.0002820	0.0000000		
Vanadium	292.40	0.0000000	0.0000000	0.0000000		
Zinc	206.20	0.0000000	0.0000000	0.0000000		

Comments:

U.S. EPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Mo
Aluminum	396.15	0.0000000	0.0000960	0.0000000	0.0000000	0.0573510
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0016160
Arsenic	189.04	0.0001500	0.0000000	-0.0004550	0.0000000	0.0038670
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000380	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0009910
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000120
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0004030
Iron	259.94	0.0000000	0.0000000	0.0000340	0.0000000	0.0000000
Lead	220.35	0.0001750	0.0000000	0.0002100	0.0000000	-0.0026290
Magnesium	279.08	0.0000000	0.0000000	0.0001760	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	-0.0000350	0.0000000	0.0000000	0.0000000	0.0000180
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000100	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Co	Cu	Pb	Mn
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0114090	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0017890	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0007800	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	-0.0092850
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	-0.0001620	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000620	0.0000000	0.0000000	0.0006770
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	-0.0019910	0.0000000	0.0000000	0.0000000	-0.0004360
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000930	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0002270	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	-0.0003390	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Tl	V	Zn		
Aluminum	396.15	0.0000000	0.0000000	0.0000000		
Antimony	206.83	0.0000000	0.0000000	0.0000000		
Arsenic	189.04	0.0000000	0.0000000	0.0000000		
Barium	455.40	0.0000000	0.0000000	0.0000000		
Beryllium	313.40	0.0000000	0.0018940	0.0000000		
Cadmium	214.44	0.0000000	0.0000000	0.0000000		
Calcium	315.89	0.0000000	0.0000000	0.0000000		
Chromium	267.72	0.0000000	0.0000000	0.0000000		
Cobalt	228.62	0.0017990	0.0000000	0.0000000		
Copper	324.75	0.0000000	0.0000000	0.0000000		
Iron	259.94	0.0000000	0.0000000	0.0000000		
Lead	220.35	0.0000000	-0.0001170	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000	0.0000000		
Mercury						
Nickel	231.60	0.0005790	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.09	0.0000000	0.0000000	0.0000000		
Silver	328.07	0.0000000	0.0000000	0.0000000		
Sodium	589.59	0.0000000	0.0000000	0.0000000		
Thallium	190.86	0.0000000	0.0000000	0.0000000		
Vanadium	292.40	0.0011610	0.0000000	0.0000000		
Zinc	206.20	0.0000000	0.0000000	0.0000000		

Comments:

EPA 200.7, EPA 6010D		Linear Dynamic Range					
		All values are in mg/L and are 90% of the established LDR concentration.					
Instrument ID:		Trace 4	Trace 5	Trace 6	Trace 7	Trace 8	Trace 9
2023 Complete		☐	☐	☐	☐	☐	☐
Ag	Silver	36	27	9	13	90	45
Al	Aluminum	900	540	450	900	900	900
As	Arsenic	90	54	90	72	180	90
B	Boron	90	90	9	45	90	54
Ba	Barium	90	27	18	13	135	27
Be	Beryllium	27	36	9	9	11	31
Ca	Calcium	450	900	675	900	900	900
Cd	Cadmium	11	9	9	11	27	18
Co	Cobalt	90	63	45	22	135	90
Cr	Chromium	45	63	9	45	157	90
Cu	Copper	90	54	45	45	90	67
Fe	Iron	630	900	450	450	540	540
K	Potassium	900	900	675	720	900	900
Mg	Magnesium	450	900	360	900	900	900
Mn	Manganese	90	31	90	67	90	90
Mo	Molybdenum	45	36	9	22	67	45
Na	Sodium	675	900	450	405	630	900
Ni	Nickel	90	45	45	22	135	90
Pb	Lead	180	180	90	90	225	90
S	Sulfur	-	90	-	-	-	-
Sb	Antimony	22	45	45	4.5	90	45
Se	Selenium	27	27	45	22	15	45
Si	Silica	45	90	22	22	90	45
Sn	Tin	45	45	13	22	72	45
Sr	Strontium	45	45	9	9	67	45
Ti	Titanium	45	90	9	90	72	45
Tl	Thallium	45	90	45	22	135	45
V	Vanadium	90	90	90	90	112	45
Zn	Zinc	45	27	45	22	63	22

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2512607-01	03/11/25 12:59	-	50
L2512607-02	03/11/25 12:59	-	50
L2512607-03	03/11/25 12:59	-	50
L2512607-04	03/11/25 12:59	-	50
L2512607-05	03/11/25 12:59	-	50
WG2039059-1	03/11/25 17:26	-	50
WG2039059-2	03/11/25 17:26	-	50
WG2039059-3	03/11/25 17:26	-	50
WG2039059-4	03/11/25 17:26	-	50
WG2039059-6	03/11/25 17:26	-	50
WG2039059-7	03/11/25 17:26	-	50
WG2039059-8	03/11/25 17:26	-	50
WG2039059-10	03/11/25 17:26	-	50

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2512607-01	03/11/25 17:26	-	50
L2512607-02	03/11/25 17:26	-	50
L2512607-03	03/11/25 17:26	-	50
L2512607-04	03/11/25 17:26	-	50
L2512607-05	03/11/25 17:26	-	50
L2512607-06	03/11/25 17:26	-	50
WG2039054-1	03/11/25 12:59	-	50
WG2039054-2	03/11/25 12:59	-	50
WG2039054-3	03/11/25 12:59	-	50
WG2039054-4	03/11/25 12:59	-	50
WG2039054-6	03/11/25 12:59	-	50
WG2039054-7	03/11/25 12:59	-	50
WG2039054-8	03/11/25 12:59	-	50
WG2039054-10	03/11/25 12:59	-	50

Form 12
Preparation Log

Client	:	**Roux Env. Eng. & Geology, DPC**	**Lab Number**	:	**L2512607**
Project Name	:	**CORAM MATERIALS**	**Project Number**	:	**2232.0006Y005**
Matrix	:	**WATER**	**Prep Method**	:	**EPA 3005A**

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2512607-06	03/11/25 12:59	-	50

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE6	**Analysis Method**	: 19,200.7
Start Date	: 03/12/25 07:19	**End Date**	: 03/12/25 21:48

Sample Number	Dilution Factor	Analysis Time	Aluminum, Total	Antimony, Total	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Calcium, Total	Chromium, Total	Cobalt, Total	Copper, Total	Iron, Total	Lead, Total	Magnesium, Total	Manganese, Total	Nickel, Total	Potassium, Total	Selenium, Total	Silver, Total	Sodium, Total	Thallium, Total	Vanadium, Total	Zinc, Total
R1939672-1 ICV	1	07:19:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939672-2 ICB	1	07:26:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939672-3 ICV	1	07:32:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939672-4 ICB	1	07:39:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939672-5 ICSA	1	07:52:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939672-6 CCV	1	09:29:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939672-7 CCB	1	09:36:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939672-8 CCV	1	09:42:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939672-9 CCB	1	09:48:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939672-10 CCV	1	11:17:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939672-11 CCB	1	11:23:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939672-12 CCV	1	11:44:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939672-13 CCB	1	11:50:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939672-14 CCV	1	13:14:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939672-15 CCB	1	13:20:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG2039059-1 BLANK	1	13:42:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG2039059-2 LCS	1	13:48:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG2039059-3 MS	1	14:14:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG2039059-4 MSD	1	14:20:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG2039059-6 SERDIL	5	14:33:30							X						X									
R1939672-16 CCV	1	14:40:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939672-17 CCB	1	14:46:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG2039059-7 MS	1	15:48:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG2039059-8 DUP	1	15:55:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG2039059-10 SERDIL	5	16:08:02							X						X									
R1939672-18 CCV	1	16:14:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939672-19 CCB	1	16:20:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE6	**Analysis Method**	: 19,200.7
Start Date	: 03/12/25 07:19	**End Date**	: 03/12/25 21:48

Sample Number	Dilution Factor	Analysis Time	Aluminum, Total	Antimony, Total	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Calcium, Total	Chromium, Total	Cobalt, Total	Copper, Total	Iron, Total	Lead, Total	Magnesium, Total	Manganese, Total	Nickel, Total	Potassium, Total	Selenium, Total	Silver, Total	Sodium, Total	Thallium, Total	Vanadium, Total	Zinc, Total
R1939672-20 CCV	1	17:35:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939672-21 CCB	1	17:41:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939672-22 CCV	1	18:30:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939672-23 CCB	1	18:36:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939672-24 CCV	1	19:45:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939672-25 CCB	1	19:52:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2512607-01	1	21:08:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2512607-02	1	21:15:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2512607-03	1	21:21:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2512607-04	1	21:28:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2512607-05	1	21:35:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939672-26 CCV	1	21:41:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939672-27 CCB	1	21:48:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Analysis Method**	: 19,200.7
Start Date	: 03/12/25 05:52	**End Date**	: 03/12/25 23:12

Sample Number	Dilution Factor	Analysis Time	Aluminum, Dissolved	Antimony, Dissolved	Arsenic, Dissolved	Barium, Dissolved	Beryllium, Dissolved	Cadmium, Dissolved	Calcium, Dissolved	Chromium, Dissolved	Cobalt, Dissolved	Copper, Dissolved	Iron, Dissolved	Lead, Dissolved	Magnesium, Dissolved	Manganese, Dissolved	Nickel, Dissolved	Potassium, Dissolved	Selenium, Dissolved	Silver, Dissolved	Sodium, Dissolved	Thallium, Dissolved	Vanadium, Dissolved	Zinc, Dissolved
R1939701-1 ICV	1	05:52:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939701-2 ICB	1	05:58:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939701-3 ICV	1	06:09:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939701-4 ICB	1	06:15:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939701-5 ICSA	1	06:28:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939701-6 CCV	1	08:33:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939701-7 CCB	1	08:39:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939701-8 CCV	1	09:59:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939701-9 CCB	1	10:05:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939701-10 CCV	1	11:25:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939701-11 CCB	1	11:31:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939701-12 CCV	1	11:44:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939701-13 CCB	1	11:50:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939701-14 CCV	1	14:10:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939701-15 CCB	1	14:16:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939701-16 CCV	1	15:25:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939701-17 CCB	1	15:31:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939701-18 CCV	1	16:36:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939701-19 CCB	1	16:53:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939701-20 CCV	1	17:31:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939701-21 CCB	1	17:37:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939701-22 CCV	1	19:17:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939701-23 CCB	1	19:23:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG2039054-1 BLANK	1	19:37:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG2039054-2 LCS	1	19:43:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG2039054-3 MS	1	19:56:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG2039054-4 MSD	1	20:02:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Analysis Method**	: 19,200.7
Start Date	: 03/12/25 05:52	**End Date**	: 03/12/25 23:12

Sample Number	Dilution Factor	Analysis Time	Aluminum, Dissolved	Antimony, Dissolved	Arsenic, Dissolved	Barium, Dissolved	Beryllium, Dissolved	Cadmium, Dissolved	Calcium, Dissolved	Chromium, Dissolved	Cobalt, Dissolved	Copper, Dissolved	Iron, Dissolved	Lead, Dissolved	Magnesium, Dissolved	Manganese, Dissolved	Nickel, Dissolved	Potassium, Dissolved	Selenium, Dissolved	Silver, Dissolved	Sodium, Dissolved	Thallium, Dissolved	Vanadium, Dissolved	Zinc, Dissolved
WG2039054-6 SERDIL	5	20:14:42							X						X									
WG2039054-7 MS	1	20:27:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG2039054-8 DUP	1	20:33:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939701-24 CCV	1	20:39:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939701-25 CCB	1	20:45:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG2039054-10 SERDIL	5	20:59:10							X						X									
R1939701-26 CCV	1	21:56:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939701-27 CCB	1	22:02:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2512607-01	1	22:27:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2512607-02	1	22:34:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2512607-03	1	22:40:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2512607-04	1	22:46:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2512607-05	1	22:53:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2512607-06	1	22:59:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939701-28 CCV	1	23:05:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1939701-29 CCB	1	23:12:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Analysis Method**	: 19,200.7
Start Date	: 03/13/25 08:22	**End Date**	: 03/13/25 13:35

Sample Number	Dilution Factor	Analysis Time	Aluminum, Total	Antimony, Total	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Calcium, Total	Chromium, Total	Cobalt, Total	Copper, Total	Iron, Total	Lead, Total	Magnesium, Total	Manganese, Total	Nickel, Total	Potassium, Total	Selenium, Total	Silver, Total	Sodium, Total	Thallium, Total	Vanadium, Total	Zinc, Total
R1940136-1 ICV	1	08:22:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1940136-2 ICB	1	08:26:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1940136-3 ICV	1	08:29:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1940136-4 ICB	1	08:33:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1940136-5 ICSA	1	08:45:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1940136-6 CCV	1	09:49:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1940136-7 CCB	1	09:52:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1940136-8 CCV	1	10:46:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1940136-9 CCB	1	10:50:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1940136-10 CCV	1	11:53:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1940136-11 CCB	1	11:57:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1940136-12 CCV	1	12:38:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1940136-13 CCB	1	12:42:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2512607-06	1	13:00:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1940136-14 CCV	1	13:32:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1940136-15 CCB	1	13:35:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Date Created: 11/04/16
Created By: Jason Hebert
File: PM2960-2
Page: 1

METALS by 200.7, 6010C (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Aluminum	7429-90-5	0.1	0.0318	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Antimony	7440-36-0	0.05	0.0071	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Arsenic	7440-38-2	0.005	0.0019	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Barium	7440-39-3	0.01	0.0021	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Beryllium	7440-41-7	0.005	0.0009	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Cadmium	7440-43-9	0.005	0.001	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Calcium	7440-70-2	0.1	0.035	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Chromium	7440-47-3	0.01	0.0021	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Cobalt	7440-48-4	0.02	0.0017	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Copper	7440-50-8	0.01	0.0022	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Iron	7439-89-6	0.05	0.009	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Lead	7439-92-1	0.01	0.0027	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Magnesium	7439-95-4	0.1	0.0153	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Manganese	7439-96-5	0.01	0.0016	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Nickel	7440-02-0	0.025	0.0024	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Potassium	7440-09-7	2.5	0.237	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Selenium	7782-49-2	0.01	0.0035	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Silver	7440-22-4	0.007	0.0028	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Sodium	7440-23-5	2	0.12	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Thallium	7440-28-0	0.02	0.0025	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Vanadium	7440-62-2	0.01	0.002	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Zinc	7440-66-6	0.05	0.0021	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)

Please Note that the information provided in this table is subject to change at anytime at the discretion of the laboratory.

Date Created: 11/04/16
Created By: Jason Hebert
File: PM2962-1
Page: 1

METALS by 6010C (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Aluminum, Total	7429-90-5	4	1.08	mg/kg	48-151		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Antimony, Total	7440-36-0	2	0.152	mg/kg	1-208		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Arsenic, Total	7440-38-2	0.4	0.0832	mg/kg	79-121		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Barium, Total	7440-39-3	0.4	0.0696	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Beryllium, Total	7440-41-7	0.2	0.0132	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Cadmium, Total	7440-43-9	0.4	0.0392	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Calcium, Total	7440-70-2	4	1.4	mg/kg	81-119		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Chromium, Total	7440-47-3	0.4	0.0384	mg/kg	80-120		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Cobalt, Total	7440-48-4	0.8	0.0664	mg/kg	84-115		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Copper, Total	7440-50-8	0.4	0.1032	mg/kg	81-118		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Iron, Total	7439-89-6	2	0.3612	mg/kg	45-155		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Lead, Total	7439-92-1	2	0.1072	mg/kg	81-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Magnesium, Total	7439-95-4	4	0.616	mg/kg	76-124		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Manganese, Total	7439-96-5	0.4	0.0636	mg/kg	81-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Nickel, Total	7440-02-0	1	0.0968	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Potassium, Total	7440-09-7	100	5.76	mg/kg	71-129		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Selenium, Total	7782-49-2	0.8	0.1032	mg/kg	78-122		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Silver, Total	7440-22-4	0.4	0.1132	mg/kg	75-124		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Sodium, Total	7440-23-5	80	1.26	mg/kg	72-127		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Thallium, Total	7440-28-0	0.8	0.126	mg/kg	80-120		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Vanadium, Total	7440-62-2	0.4	0.0812	mg/kg	78-122		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Zinc, Total	7440-66-6	2	0.1172	mg/kg	82-118		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved

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

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: Blank DHL Trace6
Analysis started at: 3/12/2025 7:07:05 AM
Rack: 0
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.3 %	-0.9 %	-0.6 %	0.0 %	0.2 %	38.1 %	0.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.2 %	0.3 %	-0.1 %	0.0 %	0.9 %	0.4 %	-1.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.2 %	0.2 %	0.2 %	-0.1 %	-4.4 %	0.0 %	-0.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.0 %	1.9 %	2.9 %	-0.6 %	-0.2 %	0.0 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	0.0000 ppm
Concentration per Run	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	0.0000 ppm
Concentration RSD	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	-0.7 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: ICAL
Analysis started at: 3/12/2025 7:13:41 AM
Rack: 0
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	1.0228 ppm	24.6125 ppm	1.0143 ppm	1.0141 ppm	0.9849 ppm	0.9853 ppm	9.8609 ppm
Concentration per Run 2	1.0163 ppm	25.0580 ppm	0.9941 ppm	0.9939 ppm	1.0033 ppm	1.0022 ppm	9.9932 ppm
Concentration per Run 3	0.9609 ppm	25.3295 ppm	0.9915 ppm	0.9920 ppm	1.0118 ppm	1.0125 ppm	10.1459 ppm
Concentration RSD	3.4 %	1.4 %	1.2 %	1.2 %	1.4 %	1.4 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	10.0000 ppm
Concentration per Run 1	1.0208 ppm	1.0205 ppm	1.0201 ppm	1.0234 ppm	24.6230 ppm	34.5092 ppm	10.2190 ppm
Concentration per Run 2	0.9959 ppm	0.9948 ppm	1.0211 ppm	1.0156 ppm	25.0589 ppm	35.0544 ppm	10.1684 ppm
Concentration per Run 3	0.9833 ppm	0.9847 ppm	0.9588 ppm	0.9610 ppm	25.3182 ppm	35.4365 ppm	9.6125 ppm
Concentration RSD	1.9 %	1.8 %	3.6 %	3.4 %	1.4 %	1.3 %	3.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	0.9838 ppm	1.0197 ppm	24.5848 ppm	1.0204 ppm	1.0215 ppm	1.0219 ppm	1.0156 ppm
Concentration per Run 2	1.0040 ppm	0.9941 ppm	25.0676 ppm	0.9951 ppm	0.9948 ppm	0.9918 ppm	0.9933 ppm
Concentration per Run 3	1.0122 ppm	0.9862 ppm	25.3475 ppm	0.9845 ppm	0.9837 ppm	0.9863 ppm	0.9912 ppm
Concentration RSD	1.5 %	1.8 %	1.5 %	1.8 %	1.9 %	1.9 %	1.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	10.2097 ppm	1.0211 ppm	0.9848 ppm	1.0213 ppm	1.0232 ppm	1.0162 ppm	1.0210 ppm
Concentration per Run 2	9.9367 ppm	0.9942 ppm	1.0038 ppm	1.0191 ppm	0.9945 ppm	0.9964 ppm	0.9961 ppm
Concentration per Run 3	9.8536 ppm	0.9848 ppm	1.0114 ppm	0.9596 ppm	0.9823 ppm	0.9873 ppm	0.9829 ppm
Concentration RSD	1.9 %	1.9 %	1.4 %	3.5 %	2.1 %	1.5 %	1.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.4900 %	98.7890 %	95.7865 %	104.5097 %	90.1305 %	99.5999 %	1.0000 ppm
Concentration per Run 1	101.3525 %	97.0191 %	94.4947 %	106.0592 %	88.4644 %	97.7547 %	0.9847 ppm
Concentration per Run 2	100.5485 %	97.0753 %	96.4131 %	104.2033 %	90.6628 %	97.8350 %	1.0049 ppm
Concentration per Run 3	99.5690 %	102.2726 %	96.4516 %	103.2667 %	91.2642 %	103.2101 %	1.0104 ppm
Concentration RSD	0.9 %	3.1 %	1.2 %	1.4 %	1.6 %	3.1 %	1.4 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: ICV
Analysis started at: 3/12/2025 7:19:54 AM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4754 ppm	0.4936 ppm	0.4747 ppm	0.4693 ppm	0.4720 ppm	0.4970 ppm	0.5053 ppm
Concentration per Run 1	0.4738 ppm	0.4889 ppm	0.4753 ppm	0.4681 ppm	0.4681 ppm	0.4936 ppm	0.5084 ppm
Concentration per Run 2	0.4759 ppm	0.4976 ppm	0.4736 ppm	0.4699 ppm	0.4744 ppm	0.4985 ppm	0.5031 ppm
Concentration per Run 3	0.4763 ppm	0.4944 ppm	0.4752 ppm	0.4698 ppm	0.4735 ppm	0.4989 ppm	0.5044 ppm
Recovery Percentage 1	95.070 %	98.729 %	94.939 %	93.853 %	94.405 %	99.406 %	101.058 %
Concentration RSD	0.3 %	0.9 %	0.2 %	0.2 %	0.7 %	0.6 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4633 ppm	0.4686 ppm	0.4835 ppm	0.4709 ppm	0.5093 ppm	5.0653 ppm	0.4924 ppm
Concentration per Run 1	0.4636 ppm	0.4676 ppm	0.4832 ppm	0.4689 ppm	0.5041 ppm	5.0150 ppm	0.4884 ppm
Concentration per Run 2	0.4625 ppm	0.4682 ppm	0.4833 ppm	0.4723 ppm	0.5122 ppm	5.1160 ppm	0.4950 ppm
Concentration per Run 3	0.4639 ppm	0.4699 ppm	0.4842 ppm	0.4715 ppm	0.5117 ppm	5.0649 ppm	0.4939 ppm
Recovery Percentage 1	92.666 %	93.713 %	96.708 %	94.180 %	101.867 %	101.306 %	98.488 %
Concentration RSD	0.2 %	0.3 %	0.1 %	0.4 %	0.9 %	1.0 %	0.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4844 ppm	0.4571 ppm	9.6356 ppm	0.4704 ppm	0.4694 ppm	0.4722 ppm	0.4823 ppm
Concentration per Run 1	0.4816 ppm	0.4548 ppm	9.5394 ppm	0.4694 ppm	0.4679 ppm	0.4695 ppm	0.4831 ppm
Concentration per Run 2	0.4845 ppm	0.4565 ppm	9.7099 ppm	0.4698 ppm	0.4689 ppm	0.4730 ppm	0.4827 ppm
Concentration per Run 3	0.4872 ppm	0.4600 ppm	9.6576 ppm	0.4720 ppm	0.4714 ppm	0.4741 ppm	0.4812 ppm
Recovery Percentage 1	96.884 %	91.421 %	96.356 %	94.082 %	93.879 %	94.440 %	96.469 %
Concentration RSD	0.6 %	0.6 %	0.9 %	0.3 %	0.4 %	0.5 %	0.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.1006 ppm	0.4487 ppm	0.4724 ppm	0.4855 ppm	0.4704 ppm	0.4719 ppm	0.4698 ppm
Concentration per Run 1	5.0801 ppm	0.4479 ppm	0.4681 ppm	0.4846 ppm	0.4689 ppm	0.4691 ppm	0.4709 ppm
Concentration per Run 2	5.0961 ppm	0.4489 ppm	0.4749 ppm	0.4864 ppm	0.4709 ppm	0.4726 ppm	0.4684 ppm
Concentration per Run 3	5.1254 ppm	0.4493 ppm	0.4742 ppm	0.4856 ppm	0.4714 ppm	0.4739 ppm	0.4700 ppm
Recovery Percentage 1	97.154 %	89.743 %	94.478 %	97.105 %	94.082 %	94.372 %	93.952 %
Concentration RSD	0.5 %	0.2 %	0.8 %	0.2 %	0.3 %	0.5 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.7869 %	99.3433 %	98.7732 %	103.4814 %	96.3430 %	100.6071 %	0.4677 ppm
Concentration per Run 1	100.6468 %	99.0861 %	99.1721 %	104.4907 %	96.8710 %	100.4070 %	0.4615 ppm
Concentration per Run 2	99.3175 %	99.4651 %	98.7092 %	102.8524 %	96.3980 %	100.7852 %	0.4731 ppm
Concentration per Run 3	99.3964 %	99.4788 %	98.4384 %	103.1011 %	95.7600 %	100.6291 %	0.4685 ppm
Recovery Percentage 1							93.541 %
Concentration RSD	0.7 %	0.2 %	0.4 %	0.9 %	0.6 %	0.2 %	1.3 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: ICB
Analysis started at: 3/12/2025 7:26:14 AM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	-0.0019 ppm	-0.0001 ppm	0.0006 ppm	0.0001 ppm	0.0000 ppm	0.0013 ppm
Concentration per Run 1	0.0000 ppm	0.0004 ppm	-0.0002 ppm	0.0006 ppm	0.0001 ppm	0.0000 ppm	0.0016 ppm
Concentration per Run 2	-0.0002 ppm	-0.0060 ppm	0.0002 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0024 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0006 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm
Recovery Percentage 1	-0.919 %	-1.900 %	-2.168 %	2.116 %	0.529 %	0.523 %	1.345 %
Concentration RSD	156.2 %	186.1 %	230.5 %	11.3 %	22.3 %	61.0 %	90.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0034 ppm	-0.0003 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0213 ppm	-0.0035 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0000 ppm	-0.0002 ppm	-0.0118 ppm	0.0015 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0012 ppm	0.0007 ppm	0.0011 ppm
Recovery Percentage 1	-0.194 %	0.507 %	1.380 %	0.038 %	0.713 %	0.137 %	-0.281 %
Concentration RSD	188.3 %	30.0 %	164.4 %	1,607.8 %	219.2 %	488.2 %	985.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0002 ppm	0.0006 ppm	-0.0043 ppm	-0.0002 ppm	-0.0004 ppm	-0.0003 ppm	-0.0014 ppm
Concentration per Run 1	0.0000 ppm	0.0007 ppm	-0.0051 ppm	-0.0003 ppm	0.0000 ppm	-0.0004 ppm	-0.0017 ppm
Concentration per Run 2	-0.0002 ppm	0.0005 ppm	-0.0027 ppm	-0.0002 ppm	-0.0006 ppm	-0.0006 ppm	-0.0013 ppm
Concentration per Run 3	-0.0004 ppm	0.0005 ppm	-0.0051 ppm	0.0000 ppm	-0.0007 ppm	0.0001 ppm	-0.0014 ppm
Recovery Percentage 1	-1.603 %	1.147 %	-0.216 %	-0.625 %	-3.990 %	-0.605 %	-14.472 %
Concentration RSD	122.7 %	19.3 %	31.5 %	87.5 %	96.4 %	132.1 %	13.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0009 ppm	0.0002 ppm	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 1	0.0008 ppm	0.0004 ppm	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 2	0.0005 ppm	-0.0001 ppm	0.0001 ppm	-0.0001 ppm	-0.0003 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 3	0.0014 ppm	0.0003 ppm	0.0000 ppm	-0.0002 ppm	0.0001 ppm	0.0003 ppm	-0.0001 ppm
Recovery Percentage 1	0.178 %	0.346 %	0.344 %	-1.612 %	-0.457 %	1.493 %	-1.351 %
Concentration RSD	51.2 %	132.6 %	91.1 %	58.6 %	177.8 %	115.9 %	29.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.2500 %	100.0708 %	98.7892 %	101.8185 %	98.7130 %	100.6514 %	0.0004 ppm
Concentration per Run 1	101.1835 %	99.9348 %	99.0801 %	100.7643 %	99.0560 %	100.5221 %	0.0009 ppm
Concentration per Run 2	99.4611 %	100.4471 %	98.7770 %	100.4988 %	98.9136 %	101.0976 %	0.0012 ppm
Concentration per Run 3	103.1054 %	99.8304 %	98.5105 %	104.1924 %	98.1695 %	100.3345 %	-0.0007 ppm
Recovery Percentage 1							4.375 %
Concentration RSD	1.8 %	0.3 %	0.3 %	2.0 %	0.5 %	0.4 %	235.3 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: ICV
Analysis started at: 3/12/2025 7:32:54 AM
Rack: 0
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4780 ppm	0.4993 ppm	0.4815 ppm	0.4764 ppm	0.4760 ppm	0.5019 ppm	0.5101 ppm
Concentration per Run 1	0.4833 ppm	0.4921 ppm	0.4856 ppm	0.4778 ppm	0.4718 ppm	0.4971 ppm	0.5036 ppm
Concentration per Run 2	0.4828 ppm	0.5032 ppm	0.4806 ppm	0.4759 ppm	0.4782 ppm	0.5037 ppm	0.5134 ppm
Concentration per Run 3	0.4680 ppm	0.5027 ppm	0.4784 ppm	0.4755 ppm	0.4778 ppm	0.5050 ppm	0.5134 ppm
Recovery Percentage 1	95.605 %	99.865 %	96.304 %	95.278 %	95.190 %	100.382 %	102.028 %
Concentration RSD	1.8 %	1.3 %	0.8 %	0.3 %	0.8 %	0.8 %	1.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4774 ppm	0.4794 ppm	0.4847 ppm	0.4793 ppm	0.5103 ppm	5.0345 ppm	0.4968 ppm
Concentration per Run 1	0.4819 ppm	0.4824 ppm	0.4900 ppm	0.4810 ppm	0.5030 ppm	4.9846 ppm	0.5034 ppm
Concentration per Run 2	0.4774 ppm	0.4806 ppm	0.4891 ppm	0.4800 ppm	0.5128 ppm	5.0441 ppm	0.5037 ppm
Concentration per Run 3	0.4727 ppm	0.4753 ppm	0.4750 ppm	0.4769 ppm	0.5152 ppm	5.0748 ppm	0.4833 ppm
Recovery Percentage 1	95.473 %	95.889 %	96.936 %	95.866 %	102.062 %	100.690 %	99.362 %
Concentration RSD	1.0 %	0.8 %	1.7 %	0.4 %	1.3 %	0.9 %	2.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4906 ppm	0.4737 ppm	9.7065 ppm	0.4851 ppm	0.4830 ppm	0.4803 ppm	0.4847 ppm
Concentration per Run 1	0.4857 ppm	0.4756 ppm	9.6043 ppm	0.4886 ppm	0.4853 ppm	0.4826 ppm	0.4867 ppm
Concentration per Run 2	0.4919 ppm	0.4756 ppm	9.7457 ppm	0.4855 ppm	0.4847 ppm	0.4800 ppm	0.4841 ppm
Concentration per Run 3	0.4941 ppm	0.4699 ppm	9.7697 ppm	0.4813 ppm	0.4792 ppm	0.4782 ppm	0.4831 ppm
Recovery Percentage 1	98.115 %	94.742 %	97.065 %	97.025 %	96.608 %	96.053 %	96.931 %
Concentration RSD	0.9 %	0.7 %	0.9 %	0.8 %	0.7 %	0.5 %	0.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.3129 ppm	0.4785 ppm	0.4802 ppm	0.4842 ppm	0.4823 ppm	0.4839 ppm	0.4807 ppm
Concentration per Run 1	5.3291 ppm	0.4802 ppm	0.4763 ppm	0.4903 ppm	0.4837 ppm	0.4857 ppm	0.4860 ppm
Concentration per Run 2	5.3308 ppm	0.4802 ppm	0.4823 ppm	0.4883 ppm	0.4847 ppm	0.4826 ppm	0.4807 ppm
Concentration per Run 3	5.2787 ppm	0.4752 ppm	0.4820 ppm	0.4741 ppm	0.4784 ppm	0.4834 ppm	0.4753 ppm
Recovery Percentage 1	101.198 %	95.707 %	96.038 %	96.849 %	96.452 %	96.779 %	96.131 %
Concentration RSD	0.6 %	0.6 %	0.7 %	1.8 %	0.7 %	0.3 %	1.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.9996 %	97.1460 %	95.9086 %	102.5696 %	93.0411 %	99.8857 %	0.4750 ppm
Concentration per Run 1	100.0920 %	96.8960 %	95.4535 %	103.8487 %	92.6418 %	98.8057 %	0.4708 ppm
Concentration per Run 2	99.2257 %	96.9388 %	96.0586 %	102.5624 %	92.6863 %	98.8763 %	0.4772 ppm
Concentration per Run 3	97.6811 %	97.6030 %	96.2137 %	101.2977 %	93.7953 %	101.9750 %	0.4770 ppm
Recovery Percentage 1							95.006 %
Concentration RSD	1.2 %	0.4 %	0.4 %	1.2 %	0.7 %	1.8 %	0.8 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: ICB
Analysis started at: 3/12/2025 7:39:16 AM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0015 ppm	-0.0004 ppm	0.0005 ppm	0.0000 ppm	0.0001 ppm	0.0026 ppm
Concentration per Run 1	0.0002 ppm	0.0043 ppm	-0.0003 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0081 ppm
Concentration per Run 2	0.0000 ppm	0.0011 ppm	-0.0011 ppm	0.0005 ppm	-0.0001 ppm	0.0001 ppm	-0.0047 ppm
Concentration per Run 3	0.0000 ppm	-0.0008 ppm	0.0003 ppm	0.0005 ppm	0.0000 ppm	0.0001 ppm	0.0042 ppm
Recovery Percentage 1	1.168 %	1.515 %	-7.581 %	1.729 %	0.018 %	1.142 %	2.557 %
Concentration RSD	140.5 %	168.0 %	180.1 %	11.7 %	2,701.4 %	31.3 %	256.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0005 ppm	0.0053 ppm	0.0016 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0001 ppm	-0.0012 ppm	0.0027 ppm	0.0025 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0074 ppm	0.0009 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	-0.0002 ppm	0.0058 ppm	0.0014 ppm
Recovery Percentage 1	0.277 %	0.159 %	-0.243 %	0.698 %	-0.914 %	0.211 %	1.607 %
Concentration RSD	80.4 %	194.6 %	429.2 %	68.4 %	150.2 %	45.5 %	52.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0002 ppm	0.0005 ppm	0.0008 ppm	-0.0003 ppm	0.0002 ppm	-0.0005 ppm	-0.0014 ppm
Concentration per Run 1	-0.0003 ppm	0.0006 ppm	-0.0067 ppm	-0.0001 ppm	0.0004 ppm	0.0001 ppm	-0.0002 ppm
Concentration per Run 2	0.0000 ppm	0.0005 ppm	0.0011 ppm	-0.0003 ppm	0.0002 ppm	-0.0009 ppm	-0.0025 ppm
Concentration per Run 3	-0.0002 ppm	0.0003 ppm	0.0078 ppm	-0.0004 ppm	0.0000 ppm	-0.0007 ppm	-0.0013 ppm
Recovery Percentage 1	-1.610 %	0.981 %	0.038 %	-1.044 %	2.103 %	-0.948 %	-13.503 %
Concentration RSD	69.6 %	29.7 %	951.0 %	54.0 %	103.9 %	113.8 %	83.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0009 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0001 ppm	-0.0002 ppm
Concentration per Run 1	0.0007 ppm	0.0004 ppm	0.0001 ppm	-0.0001 ppm	-0.0005 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 2	0.0009 ppm	0.0002 ppm	-0.0001 ppm	-0.0001 ppm	0.0008 ppm	0.0001 ppm	-0.0002 ppm
Concentration per Run 3	0.0010 ppm	0.0005 ppm	0.0000 ppm	0.0001 ppm	0.0008 ppm	0.0001 ppm	-0.0002 ppm
Recovery Percentage 1	0.176 %	0.693 %	0.214 %	-0.329 %	1.812 %	0.736 %	-3.226 %
Concentration RSD	14.8 %	55.0 %	337.1 %	256.7 %	215.7 %	78.9 %	32.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.4344 %	99.1581 %	97.5191 %	100.6055 %	95.9803 %	100.4210 %	-0.0002 ppm
Concentration per Run 1	99.6021 %	98.3754 %	97.7142 %	100.8897 %	96.6143 %	99.9572 %	-0.0003 ppm
Concentration per Run 2	98.2053 %	99.8011 %	97.6655 %	100.7446 %	95.7494 %	100.6871 %	-0.0003 ppm
Concentration per Run 3	97.4957 %	99.2976 %	97.1775 %	100.1823 %	95.5772 %	100.6188 %	0.0001 ppm
Recovery Percentage 1							-1.717 %
Concentration RSD	1.1 %	0.7 %	0.3 %	0.4 %	0.6 %	0.4 %	122.7 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: LLOQ RL Check
Analysis started at: 3/12/2025 7:45:56 AM
Rack: 0
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0050 ppm	0.1057 ppm	**0.0036 ppm**	0.0290 ppm	0.0099 ppm	0.0052 ppm	0.1109 ppm
Concentration per Run 1	0.0050 ppm	0.1044 ppm	0.0048 ppm	0.0288 ppm	0.0099 ppm	0.0053 ppm	0.1064 ppm
Concentration per Run 2	0.0050 ppm	0.1035 ppm	0.0030 ppm	0.0291 ppm	0.0099 ppm	0.0052 ppm	0.1093 ppm
Concentration per Run 3	0.0051 ppm	0.1092 ppm	0.0031 ppm	0.0291 ppm	0.0100 ppm	0.0052 ppm	0.1171 ppm
Recovery Percentage 1	100.956 %	105.702 %	72.806 %	96.610 %	99.230 %	104.908 %	110.932 %
Concentration RSD	0.7 %	2.9 %	**28.5 %**	0.6 %	0.3 %	0.7 %	5.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0040 ppm	0.0096 ppm	0.0102 ppm	0.0099 ppm	0.0534 ppm	2.5708 ppm	0.1061 ppm
Concentration per Run 1	0.0040 ppm	0.0096 ppm	0.0104 ppm	0.0097 ppm	0.0543 ppm	2.5717 ppm	0.1072 ppm
Concentration per Run 2	0.0040 ppm	0.0097 ppm	0.0104 ppm	0.0100 ppm	0.0531 ppm	2.5639 ppm	0.1065 ppm
Concentration per Run 3	0.0040 ppm	0.0096 ppm	0.0099 ppm	0.0099 ppm	0.0528 ppm	2.5769 ppm	0.1046 ppm
Recovery Percentage 1	99.562 %	96.113 %	102.220 %	98.905 %	106.782 %	102.833 %	106.116 %
Concentration RSD	0.3 %	0.5 %	2.8 %	1.4 %	1.4 %	0.3 %	1.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0104 ppm	0.0479 ppm	2.0102 ppm	0.0191 ppm	0.0088 ppm	0.0476 ppm	0.0088 ppm
Concentration per Run 1	0.0105 ppm	0.0476 ppm	2.0289 ppm	0.0190 ppm	0.0091 ppm	0.0472 ppm	0.0093 ppm
Concentration per Run 2	0.0100 ppm	0.0482 ppm	2.0034 ppm	0.0193 ppm	0.0084 ppm	0.0486 ppm	0.0083 ppm
Concentration per Run 3	0.0106 ppm	0.0479 ppm	1.9983 ppm	0.0190 ppm	0.0088 ppm	0.0470 ppm	0.0088 ppm
Recovery Percentage 1	103.651 %	95.786 %	100.508 %	95.380 %	87.771 %	95.230 %	88.073 %
Concentration RSD	2.7 %	0.6 %	0.8 %	1.0 %	4.1 %	1.8 %	5.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.5158 ppm	0.0486 ppm	0.0100 ppm	0.0100 ppm	0.0183 ppm	0.0100 ppm	0.0055 ppm
Concentration per Run 1	0.5136 ppm	0.0483 ppm	0.0100 ppm	0.0102 ppm	0.0177 ppm	0.0100 ppm	0.0054 ppm
Concentration per Run 2	0.5180 ppm	0.0491 ppm	0.0099 ppm	0.0098 ppm	0.0186 ppm	0.0101 ppm	0.0057 ppm
Concentration per Run 3	0.5157 ppm	0.0484 ppm	0.0100 ppm	0.0100 ppm	0.0184 ppm	0.0099 ppm	0.0055 ppm
Recovery Percentage 1	103.154 %	97.159 %	99.904 %	100.061 %	91.294 %	100.009 %	110.231 %
Concentration RSD	0.4 %	0.9 %	0.6 %	1.9 %	2.7 %	1.0 %	2.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	97.9008 %	97.8979 %	97.2782 %	99.9985 %	94.5259 %	99.6238 %	0.0099 ppm
Concentration per Run 1	98.5743 %	97.7529 %	97.4494 %	99.3277 %	94.8770 %	99.4624 %	0.0097 ppm
Concentration per Run 2	97.6716 %	97.8729 %	97.1973 %	100.1654 %	93.8672 %	99.6827 %	0.0100 ppm
Concentration per Run 3	97.4566 %	98.0678 %	97.1879 %	100.5023 %	94.8334 %	99.7265 %	0.0101 ppm
Recovery Percentage 1							99.396 %
Concentration RSD	0.6 %	0.2 %	0.2 %	0.6 %	0.6 %	0.1 %	2.3 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: ICSA
Analysis started at: 3/12/2025 7:52:35 AM
Rack: 0
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	520.9857 [SIC 500]	-0.0070 ppm	0.0044 ppm	0.0014 ppm	0.0000 ppm	481.9722 ppm
Concentration per Run 1	0.0003 ppm	529.4581 ppm	-0.0072 ppm	0.0045 ppm	0.0014 ppm	-0.0001 ppm	480.6437 ppm
Concentration per Run 2	0.0007 ppm	514.0783 ppm	-0.0034 ppm	0.0029 ppm	0.0014 ppm	0.0000 ppm	483.2228 ppm
Concentration per Run 3	0.0005 ppm	519.4207 ppm	-0.0103 ppm	0.0056 ppm	0.0013 ppm	0.0000 ppm	482.0501 ppm
Recovery Percentage 1	7.447 %	520,985.702 %	-139.716 %	14.550 %	13.771 %	-0.886 %	481,972.214 %
Concentration RSD	42.4 %	1.5 %	49.9 %	30.6 %	2.4 %	48.6 %	0.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0043 ppm	0.0007 ppm	-0.0006 ppm	0.0024 ppm	186.5503 ppm	0.0059 ppm	481.3066 ppm
Concentration per Run 1	-0.0042 ppm	0.0006 ppm	-0.0006 ppm	0.0023 ppm	188.2617 ppm	0.0079 ppm	477.9291 ppm
Concentration per Run 2	-0.0042 ppm	0.0010 ppm	-0.0007 ppm	0.0021 ppm	184.5856 ppm	0.0042 ppm	482.4273 ppm
Concentration per Run 3	-0.0045 ppm	0.0006 ppm	-0.0004 ppm	0.0026 ppm	186.8035 ppm	0.0056 ppm	483.5633 ppm
Recovery Percentage 1	-107.168 %	3.678 %	-5.863 %	23.664 %	373,100.585 %	0.236 %	481,306.580 %
Concentration RSD	3.7 %	32.4 %	29.3 %	10.9 %	1.0 %	31.5 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0020 ppm	-0.0021 ppm	0.0220 ppm	-0.0107 ppm	0.0000 ppm	-0.0126 ppm	0.0027 ppm
Concentration per Run 1	0.0019 ppm	-0.0021 ppm	0.0209 ppm	-0.0108 ppm	-0.0008 ppm	-0.0171 ppm	0.0038 ppm
Concentration per Run 2	0.0022 ppm	-0.0021 ppm	0.0260 ppm	-0.0107 ppm	0.0006 ppm	-0.0093 ppm	0.0024 ppm
Concentration per Run 3	0.0020 ppm	-0.0022 ppm	0.0190 ppm	-0.0108 ppm	0.0002 ppm	-0.0114 ppm	0.0018 ppm
Recovery Percentage 1	20.180 %	-4.208 %	1.099 %	-42.944 %	0.181 %	-25.245 %	26.937 %
Concentration RSD	7.1 %	2.4 %	16.5 %	0.4 %	4,031.8 %	32.2 %	37.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0084 ppm	0.0026 ppm	0.0030 ppm	0.0012 ppm	-0.0101 ppm	-0.0002 ppm	0.0008 ppm
Concentration per Run 1	-0.0083 ppm	0.0022 ppm	0.0030 ppm	0.0014 ppm	-0.0101 ppm	-0.0001 ppm	0.0008 ppm
Concentration per Run 2	-0.0092 ppm	0.0030 ppm	0.0030 ppm	0.0007 ppm	-0.0087 ppm	-0.0003 ppm	0.0006 ppm
Concentration per Run 3	-0.0078 ppm	0.0027 ppm	0.0029 ppm	0.0014 ppm	-0.0117 ppm	-0.0002 ppm	0.0010 ppm
Recovery Percentage 1	-1.687 %	5.253 %	29.633 %	11.740 %	-50.729 %	-1.974 %	15.657 %
Concentration RSD	8.6 %	15.8 %	2.8 %	32.6 %	14.4 %	30.8 %	28.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	93.0604 %	84.2793 %	83.5502 %	95.8846 %	67.0913 %	85.7336 %	-0.0033 ppm
Concentration per Run 1	93.0209 %	84.5163 %	82.8644 %	95.5212 %	66.5124 %	85.8748 %	-0.0038 ppm
Concentration per Run 2	93.1939 %	83.9904 %	84.5487 %	96.1252 %	67.7521 %	85.5512 %	-0.0028 ppm
Concentration per Run 3	92.9664 %	84.3311 %	83.2374 %	96.0076 %	67.0095 %	85.7748 %	-0.0032 ppm
Recovery Percentage 1							-32.806 %
Concentration RSD	0.1 %	0.3 %	1.1 %	0.3 %	0.9 %	0.2 %	14.4 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: SIC Cr Mn V Ti
Analysis started at: 3/12/2025 8:01:35 AM
Rack: 0
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0060 ppm	-0.0043 ppm	0.0002 ppm	0.0001 ppm	-0.0024 ppm	0.0153 ppm
Concentration per Run 1	-0.0001 ppm	0.0075 ppm	-0.0040 ppm	0.0001 ppm	0.0003 ppm	-0.0023 ppm	0.0154 ppm
Concentration per Run 2	0.0000 ppm	0.0055 ppm	-0.0040 ppm	0.0002 ppm	0.0002 ppm	-0.0025 ppm	0.0143 ppm
Concentration per Run 3	0.0004 ppm	0.0051 ppm	-0.0051 ppm	0.0002 ppm	0.0000 ppm	-0.0023 ppm	0.0163 ppm
Recovery Percentage 1	1.784 %	6.006 %	-86.989 %	0.533 %	1.463 %	-47.592 %	15.300 %
Concentration RSD	231.4 %	21.1 %	14.4 %	56.0 %	94.6 %	4.2 %	6.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0001 ppm	-0.0037 ppm	**19.6027 ppm**	-0.0067 ppm	0.0103 ppm	-0.0018 ppm	-0.0194 ppm
Concentration per Run 1	-0.0001 ppm	-0.0039 ppm	19.8536 ppm	-0.0068 ppm	0.0114 ppm	0.0062 ppm	-0.0193 ppm
Concentration per Run 2	0.0000 ppm	-0.0033 ppm	19.4102 ppm	-0.0065 ppm	0.0101 ppm	-0.0152 ppm	-0.0208 ppm
Concentration per Run 3	-0.0001 ppm	-0.0040 ppm	19.5442 ppm	-0.0067 ppm	0.0093 ppm	0.0037 ppm	-0.0180 ppm
Recovery Percentage 1	-1.900 %	-18.657 %	196,026.519 %	-66.901 %	20.533 %	-0.070 %	-19.353 %
Concentration RSD	52.8 %	9.9 %	**1.2 %**	2.6 %	10.1 %	661.8 %	7.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	**19.5446 ppm**	-0.0033 ppm	0.0022 ppm	-0.0004 ppm	-0.0012 ppm	0.0263 ppm	-0.0042 ppm
Concentration per Run 1	19.2238 ppm	-0.0031 ppm	0.0031 ppm	-0.0003 ppm	-0.0013 ppm	0.0234 ppm	-0.0021 ppm
Concentration per Run 2	19.6168 ppm	-0.0035 ppm	0.0026 ppm	-0.0003 ppm	-0.0009 ppm	0.0300 ppm	-0.0059 ppm
Concentration per Run 3	19.7933 ppm	-0.0033 ppm	0.0009 ppm	-0.0005 ppm	-0.0014 ppm	0.0256 ppm	-0.0046 ppm
Recovery Percentage 1	195,446.460 %	-6.643 %	0.110 %	-1.410 %	-12.239 %	52.699 %	-42.059 %
Concentration RSD	**1.5 %**	5.2 %	53.6 %	26.2 %	21.1 %	12.6 %	45.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0668 ppm	-0.0013 ppm	0.0001 ppm	**19.4181 ppm**	-0.0146 ppm	**9.8125 ppm**	-0.0002 ppm
Concentration per Run 1	0.0662 ppm	-0.0012 ppm	0.0001 ppm	19.3707 ppm	-0.0135 ppm	9.7645 ppm	0.0004 ppm
Concentration per Run 2	0.0678 ppm	-0.0016 ppm	0.0001 ppm	19.3623 ppm	-0.0150 ppm	9.8263 ppm	-0.0007 ppm
Concentration per Run 3	0.0663 ppm	-0.0010 ppm	0.0002 ppm	19.5213 ppm	-0.0153 ppm	9.8467 ppm	-0.0003 ppm
Recovery Percentage 1	13.353 %	-2.526 %	1.295 %	194,180.831 %	-72.949 %	98,124.962 %	-3.866 %
Concentration RSD	1.4 %	22.0 %	26.0 %	**0.5 %**	6.3 %	**0.4 %**	285.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.3327 %	95.8308 %	96.4776 %	104.1053 %	90.3708 %	97.7524 %	-0.0031 ppm
Concentration per Run 1	98.7997 %	96.2593 %	97.1639 %	105.6939 %	91.3389 %	97.9720 %	-0.0036 ppm
Concentration per Run 2	98.4557 %	95.7978 %	96.3354 %	104.0332 %	89.5530 %	97.7461 %	-0.0027 ppm
Concentration per Run 3	97.7428 %	95.4353 %	95.9335 %	102.5890 %	90.2206 %	97.5392 %	-0.0032 ppm
Recovery Percentage 1							-31.330 %
Concentration RSD	0.5 %	0.4 %	0.7 %	1.5 %	1.0 %	0.2 %	14.2 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: LDR Check
Analysis started at: 3/12/2025 8:09:29 AM
Rack: 0
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0025 ppm	0.1056 ppm	20.1697 ppm	18.8826 ppm	18.5425 ppm	4.9096 ppm	0.0299 ppm
Concentration per Run 1	0.0025 ppm	0.0980 ppm	20.2085 ppm	18.8899 ppm	18.4112 ppm	4.8672 ppm	0.0296 ppm
Concentration per Run 2	0.0023 ppm	0.1064 ppm	20.0916 ppm	18.7675 ppm	18.2841 ppm	4.8501 ppm	0.0306 ppm
Concentration per Run 3	0.0027 ppm	0.1125 ppm	20.2090 ppm	18.9904 ppm	18.9321 ppm	5.0115 ppm	0.0296 ppm
Recovery Percentage 1	0.000 %	0.000 %	100.848 %	94.413 %	92.712 %	98.192 %	0.000 %
Concentration RSD	7.6 %	6.9 %	0.3 %	0.6 %	1.9 %	1.8 %	2.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	4.9276 ppm	4.6909 ppm	-0.0004 ppm	19.0541 ppm	0.0036 ppm	504.0638 ppm	-0.0144 ppm
Concentration per Run 1	4.9438 ppm	4.6980 ppm	-0.0003 ppm	19.1062 ppm	0.0035 ppm	498.4757 ppm	-0.0151 ppm
Concentration per Run 2	4.9824 ppm	4.7266 ppm	-0.0003 ppm	19.0754 ppm	0.0029 ppm	507.9232 ppm	-0.0146 ppm
Concentration per Run 3	4.8566 ppm	4.6481 ppm	-0.0007 ppm	18.9808 ppm	0.0045 ppm	505.7924 ppm	-0.0135 ppm
Recovery Percentage 1	98.551 %	93.818 %	0.000 %	95.271 %	0.000 %	100.813 %	0.000 %
Concentration RSD	1.3 %	0.8 %	49.5 %	0.3 %	22.1 %	1.0 %	5.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0005 ppm	4.9537 ppm	465.4975 ppm	9.2197 ppm	46.8363 ppm	4.8901 ppm	4.7630 ppm
Concentration per Run 1	0.0006 ppm	4.9569 ppm	457.8235 ppm	9.2364 ppm	46.8209 ppm	4.8799 ppm	4.7579 ppm
Concentration per Run 2	0.0004 ppm	4.9969 ppm	464.6326 ppm	9.2948 ppm	46.9849 ppm	4.8800 ppm	4.7317 ppm
Concentration per Run 3	0.0003 ppm	4.9075 ppm	474.0363 ppm	9.1280 ppm	46.7031 ppm	4.9103 ppm	4.7995 ppm
Recovery Percentage 1	0.000 %	99.075 %	93.099 %	92.197 %	93.673 %	97.801 %	95.261 %
Concentration RSD	35.1 %	0.9 %	1.7 %	0.9 %	0.3 %	0.4 %	0.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	21.0689 [SIC 200]	9.0714 ppm	4.8109 ppm	-0.0037 ppm	4.1651 ppm	0.0182 ppm	20.0869 [SIC 20]
Concentration per Run 1	21.0593 ppm	9.0709 ppm	4.7135 ppm	-0.0035 ppm	4.1549 ppm	0.0182 ppm	20.1648 ppm
Concentration per Run 2	21.1347 ppm	9.1161 ppm	4.8248 ppm	-0.0039 ppm	4.1738 ppm	0.0182 ppm	20.3410 ppm
Concentration per Run 3	21.0128 ppm	9.0272 ppm	4.8945 ppm	-0.0035 ppm	4.1666 ppm	0.0182 ppm	19.7550 ppm
Recovery Percentage 1	105.345 %	90.714 %	96.219 %	0.000 %	83.302 %	0.000 %	100.435 %
Concentration RSD	0.3 %	0.5 %	1.9 %	5.0 %	0.2 %	0.2 %	1.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	94.0452 %	88.1937 %	85.8080 %	97.7897 %	81.0537 %	88.9968 %	19.2098 ppm
Concentration per Run 1	94.6263 %	88.1740 %	85.4187 %	98.6587 %	80.7885 %	89.0458 %	19.0926 ppm
Concentration per Run 2	93.7173 %	88.1326 %	85.5975 %	97.5828 %	80.1864 %	88.8600 %	19.2779 ppm
Concentration per Run 3	93.7921 %	88.2744 %	86.4076 %	97.1276 %	82.1863 %	89.0847 %	19.2590 ppm
Recovery Percentage 1							96.049 %
Concentration RSD	0.5 %	0.1 %	0.6 %	0.8 %	1.3 %	0.1 %	0.5 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: LLOQ RL 0.005
Analysis started at: 3/12/2025 9:07:36 AM
Rack: 1
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0049 ppm	0.0050 ppm	0.0050 ppm	0.0053 ppm	0.0047 ppm	0.0049 ppm	0.0119 ppm
Concentration per Run 1	0.0048 ppm	0.0026 ppm	0.0060 ppm	0.0054 ppm	0.0046 ppm	0.0049 ppm	0.0157 ppm
Concentration per Run 2	0.0050 ppm	0.0053 ppm	0.0043 ppm	0.0053 ppm	0.0047 ppm	0.0049 ppm	0.0142 ppm
Concentration per Run 3	0.0049 ppm	0.0071 ppm	0.0046 ppm	0.0052 ppm	0.0046 ppm	0.0050 ppm	0.0060 ppm
Recovery Percentage 1	97.167 %	99.840 %	99.283 %	105.868 %	93.553 %	98.762 %	0.000 %
Concentration RSD	2.2 %	44.5 %	18.2 %	2.2 %	1.2 %	0.9 %	43.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0047 ppm	0.0045 ppm	0.0048 ppm	0.0060 ppm	**0.0063 ppm**	0.1117 ppm	0.0068 ppm
Concentration per Run 1	0.0047 ppm	0.0045 ppm	0.0051 ppm	0.0059 ppm	0.0056 ppm	0.1076 ppm	0.0058 ppm
Concentration per Run 2	0.0047 ppm	0.0046 ppm	0.0046 ppm	0.0060 ppm	0.0074 ppm	0.1235 ppm	0.0074 ppm
Concentration per Run 3	0.0047 ppm	0.0045 ppm	0.0047 ppm	0.0060 ppm	0.0058 ppm	0.1041 ppm	0.0072 ppm
Recovery Percentage 1	93.622 %	90.744 %	96.293 %	119.341 %	125.142 %	0.000 %	0.000 %
Concentration RSD	0.6 %	1.9 %	4.9 %	0.7 %	**15.9 %**	9.3 %	12.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0051 ppm	0.0041 ppm	0.1228 ppm	0.0046 ppm	0.0044 ppm	**0.0035 ppm**	**0.0032 ppm**
Concentration per Run 1	0.0049 ppm	0.0041 ppm	0.1202 ppm	0.0049 ppm	0.0045 ppm	0.0046 ppm	0.0022 ppm
Concentration per Run 2	0.0051 ppm	0.0042 ppm	0.1242 ppm	0.0047 ppm	0.0039 ppm	0.0026 ppm	0.0041 ppm
Concentration per Run 3	0.0053 ppm	0.0041 ppm	0.1239 ppm	0.0044 ppm	0.0047 ppm	0.0034 ppm	0.0032 ppm
Recovery Percentage 1	101.599 %	82.182 %	0.000 %	92.929 %	87.176 %	70.256 %	63.135 %
Concentration RSD	3.7 %	1.6 %	1.8 %	5.6 %	9.3 %	**29.3 %**	**30.2 %**

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	**0.0547 ppm**	0.0048 ppm	0.0048 ppm	0.0045 ppm	0.0046 ppm	0.0048 ppm	0.0048 ppm
Concentration per Run 1	0.0564 ppm	0.0049 ppm	0.0047 ppm	0.0044 ppm	0.0042 ppm	0.0050 ppm	0.0048 ppm
Concentration per Run 2	0.0541 ppm	0.0051 ppm	0.0048 ppm	0.0045 ppm	0.0050 ppm	0.0049 ppm	0.0047 ppm
Concentration per Run 3	0.0535 ppm	0.0044 ppm	0.0048 ppm	0.0047 ppm	0.0046 ppm	0.0046 ppm	0.0047 ppm
Recovery Percentage 1	1,093.079 %	95.849 %	95.653 %	90.458 %	92.043 %	95.943 %	95.176 %
Concentration RSD	**2.8 %**	8.2 %	1.7 %	2.7 %	7.7 %	4.6 %	1.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	97.9541 %	98.2072 %	97.9524 %	103.3899 %	100.3099 %	104.1521 %	0.0055 ppm
Concentration per Run 1	99.4622 %	98.8728 %	98.1536 %	104.1981 %	100.5671 %	105.3102 %	0.0056 ppm
Concentration per Run 2	97.6472 %	97.6674 %	97.9133 %	103.4054 %	100.0770 %	103.3064 %	0.0052 ppm
Concentration per Run 3	96.7528 %	98.0813 %	97.7903 %	102.5663 %	100.2856 %	103.8395 %	0.0058 ppm
Recovery Percentage 1							110.294 %
Concentration RSD	1.4 %	0.6 %	0.2 %	0.8 %	0.2 %	1.0 %	5.5 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: ZLLOQ RL 0.01
Analysis started at: 3/12/2025 9:14:13 AM
Rack: 1
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0101 ppm	0.0113 ppm	0.0091 ppm	0.0098 ppm	0.0095 ppm	0.0099 ppm	0.0201 ppm
Concentration per Run 1	0.0098 ppm	0.0104 ppm	0.0090 ppm	0.0098 ppm	0.0095 ppm	0.0098 ppm	0.0186 ppm
Concentration per Run 2	0.0106 ppm	0.0164 ppm	0.0097 ppm	0.0097 ppm	0.0095 ppm	0.0100 ppm	0.0225 ppm
Concentration per Run 3	0.0100 ppm	0.0070 ppm	0.0085 ppm	0.0098 ppm	0.0095 ppm	0.0098 ppm	0.0191 ppm
Recovery Percentage 1	0.000 %	0.000 %	90.779 %	97.704 %	95.062 %	0.000 %	0.000 %
Concentration RSD	4.4 %	42.0 %	6.9 %	0.7 %	0.2 %	1.1 %	10.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0092 ppm	0.0089 ppm	0.0096 ppm	0.0110 ppm	0.0111 ppm	0.1303 ppm	0.0129 ppm
Concentration per Run 1	0.0093 ppm	0.0089 ppm	0.0096 ppm	0.0108 ppm	0.0110 ppm	0.1402 ppm	0.0133 ppm
Concentration per Run 2	0.0091 ppm	0.0089 ppm	0.0098 ppm	0.0117 ppm	0.0117 ppm	0.1323 ppm	0.0135 ppm
Concentration per Run 3	0.0091 ppm	0.0089 ppm	0.0094 ppm	0.0106 ppm	0.0105 ppm	0.1183 ppm	0.0118 ppm
Recovery Percentage 1	0.000 %	89.307 %	95.978 %	110.370 %	0.000 %	0.000 %	0.000 %
Concentration RSD	1.1 %	0.3 %	2.1 %	5.6 %	5.3 %	8.5 %	7.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0100 ppm	0.0086 ppm	0.2139 ppm	0.0092 ppm	0.0094 ppm	0.0088 ppm	0.0103 ppm
Concentration per Run 1	0.0101 ppm	0.0085 ppm	0.2162 ppm	0.0092 ppm	0.0099 ppm	0.0081 ppm	0.0082 ppm
Concentration per Run 2	0.0098 ppm	0.0087 ppm	0.2135 ppm	0.0091 ppm	0.0092 ppm	0.0091 ppm	0.0109 ppm
Concentration per Run 3	0.0100 ppm	0.0087 ppm	0.2119 ppm	0.0093 ppm	0.0091 ppm	0.0094 ppm	0.0116 ppm
Recovery Percentage 1	99.605 %	86.162 %	0.000 %	92.026 %	94.284 %	0.000 %	102.690 %
Concentration RSD	1.3 %	1.2 %	1.0 %	1.1 %	4.3 %	7.8 %	17.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.1061 ppm	0.0093 ppm	0.0097 ppm	0.0092 ppm	0.0098 ppm	0.0095 ppm	0.0094 ppm
Concentration per Run 1	0.1064 ppm	0.0095 ppm	0.0097 ppm	0.0090 ppm	0.0101 ppm	0.0094 ppm	0.0094 ppm
Concentration per Run 2	0.1064 ppm	0.0091 ppm	0.0096 ppm	0.0098 ppm	0.0092 ppm	0.0096 ppm	0.0093 ppm
Concentration per Run 3	0.1054 ppm	0.0092 ppm	0.0098 ppm	0.0087 ppm	0.0101 ppm	0.0094 ppm	0.0094 ppm
Recovery Percentage 1	0.000 %	92.667 %	96.807 %	91.617 %	98.160 %	94.678 %	93.677 %
Concentration RSD	0.6 %	2.4 %	0.9 %	6.2 %	5.0 %	1.3 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	97.9425 %	96.7535 %	98.0341 %	103.3096 %	100.8599 %	102.1972 %	0.0098 ppm
Concentration per Run 1	99.0914 %	97.6646 %	98.0239 %	103.6180 %	100.4312 %	103.1731 %	0.0092 ppm
Concentration per Run 2	97.1957 %	92.3919 %	97.5623 %	102.7392 %	100.7875 %	98.5066 %	0.0100 ppm
Concentration per Run 3	97.5406 %	100.2040 %	98.5163 %	103.5716 %	101.3612 %	104.9120 %	0.0103 ppm
Recovery Percentage 1							98.269 %
Concentration RSD	1.0 %	4.1 %	0.5 %	0.5 %	0.5 %	3.2 %	5.8 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: CCV
Analysis started at: 3/12/2025 9:29:40 AM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4860 ppm	0.4743 ppm	0.4817 ppm	0.4758 ppm	0.4471 ppm	0.4704 ppm	0.4956 ppm
Concentration per Run 1	0.4862 ppm	0.4808 ppm	0.4781 ppm	0.4730 ppm	0.4492 ppm	0.4723 ppm	0.4943 ppm
Concentration per Run 2	0.4853 ppm	0.4827 ppm	0.4855 ppm	0.4786 ppm	0.4565 ppm	0.4812 ppm	0.5107 ppm
Concentration per Run 3	0.4865 ppm	0.4594 ppm	0.4815 ppm	0.4758 ppm	0.4357 ppm	0.4578 ppm	0.4818 ppm
Recovery Percentage 1	97.205 %	94.863 %	96.343 %	95.155 %	89.423 %	94.083 %	99.120 %
Concentration RSD	0.1 %	2.7 %	0.8 %	0.6 %	2.4 %	2.5 %	2.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4633 ppm	0.4578 ppm	0.4719 ppm	0.5011 ppm	0.4814 ppm	4.7313 ppm	0.4991 ppm
Concentration per Run 1	0.4580 ppm	0.4531 ppm	0.4727 ppm	0.5014 ppm	0.4810 ppm	4.7686 ppm	0.5004 ppm
Concentration per Run 2	0.4674 ppm	0.4617 ppm	0.4719 ppm	0.4998 ppm	0.4952 ppm	4.8174 ppm	0.4990 ppm
Concentration per Run 3	0.4643 ppm	0.4586 ppm	0.4712 ppm	0.5021 ppm	0.4681 ppm	4.6080 ppm	0.4979 ppm
Recovery Percentage 1	92.653 %	91.560 %	94.390 %	100.222 %	96.286 %	94.627 %	99.817 %
Concentration RSD	1.0 %	0.9 %	0.2 %	0.2 %	2.8 %	2.3 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4701 ppm	0.4663 ppm	9.4783 ppm	0.4747 ppm	0.4843 ppm	0.4596 ppm	0.4833 ppm
Concentration per Run 1	0.4710 ppm	0.4613 ppm	9.5433 ppm	0.4701 ppm	0.4807 ppm	0.4552 ppm	0.4798 ppm
Concentration per Run 2	0.4816 ppm	0.4707 ppm	9.6502 ppm	0.4788 ppm	0.4892 ppm	0.4638 ppm	0.4869 ppm
Concentration per Run 3	0.4576 ppm	0.4669 ppm	9.2415 ppm	0.4752 ppm	0.4830 ppm	0.4599 ppm	0.4831 ppm
Recovery Percentage 1	94.016 %	93.264 %	94.783 %	94.941 %	96.862 %	91.921 %	96.650 %
Concentration RSD	2.6 %	1.0 %	2.2 %	0.9 %	0.9 %	0.9 %	0.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.2932 ppm	0.4511 ppm	0.4465 ppm	0.4639 ppm	0.4781 ppm	0.4873 ppm	0.4556 ppm
Concentration per Run 1	5.2570 ppm	0.4458 ppm	0.4486 ppm	0.4654 ppm	0.4759 ppm	0.4856 ppm	0.4499 ppm
Concentration per Run 2	5.3412 ppm	0.4554 ppm	0.4561 ppm	0.4635 ppm	0.4820 ppm	0.4902 ppm	0.4590 ppm
Concentration per Run 3	5.2815 ppm	0.4520 ppm	0.4349 ppm	0.4630 ppm	0.4765 ppm	0.4862 ppm	0.4578 ppm
Recovery Percentage 1	100.823 %	90.215 %	89.301 %	92.789 %	95.630 %	97.470 %	91.111 %
Concentration RSD	0.8 %	1.1 %	2.4 %	0.3 %	0.7 %	0.5 %	1.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.8546 %	96.5410 %	96.4156 %	107.8476 %	97.3601 %	103.1346 %	0.4522 ppm
Concentration per Run 1	98.8850 %	96.6146 %	96.9914 %	107.8151 %	98.1892 %	103.2889 %	0.4553 ppm
Concentration per Run 2	96.3269 %	96.4558 %	95.8832 %	105.2702 %	96.5703 %	103.0063 %	0.4592 ppm
Concentration per Run 3	101.3518 %	96.5528 %	96.3723 %	110.4576 %	97.3209 %	103.1085 %	0.4421 ppm
Recovery Percentage 1							90.443 %
Concentration RSD	2.5 %	0.1 %	0.6 %	2.4 %	0.8 %	0.1 %	2.0 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: CCB
Analysis started at: 3/12/2025 9:36:00 AM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	-0.0002 ppm	-0.0002 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm
Concentration per Run 1	-0.0003 ppm	-0.0002 ppm	0.0007 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 2	0.0000 ppm	-0.0006 ppm	-0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0013 ppm
Concentration per Run 3	-0.0002 ppm	0.0001 ppm	-0.0010 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Recovery Percentage 1	-2.284 %	-0.217 %	-3.018 %	0.909 %	0.405 %	-0.079 %	0.432 %
Concentration RSD	84.3 %	151.7 %	552.4 %	92.4 %	10.7 %	622.8 %	181.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0009 ppm	0.0002 ppm	0.0157 ppm	-0.0005 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0009 ppm	0.0008 ppm	0.0266 ppm	-0.0016 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0009 ppm	0.0014 ppm	0.0234 ppm	0.0007 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0009 ppm	-0.0017 ppm	-0.0031 ppm	-0.0006 ppm
Recovery Percentage 1	-0.020 %	0.130 %	0.200 %	9.213 %	0.343 %	0.626 %	-0.498 %
Concentration RSD	1,705.5 %	358.5 %	561.4 %	1.4 %	937.6 %	104.1 %	232.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0002 ppm	0.0061 ppm	-0.0001 ppm	-0.0002 ppm	-0.0003 ppm	-0.0001 ppm
Concentration per Run 1	-0.0001 ppm	0.0004 ppm	0.0049 ppm	-0.0003 ppm	0.0001 ppm	-0.0006 ppm	0.0006 ppm
Concentration per Run 2	0.0002 ppm	0.0002 ppm	0.0100 ppm	-0.0002 ppm	-0.0005 ppm	0.0001 ppm	0.0006 ppm
Concentration per Run 3	0.0002 ppm	0.0001 ppm	0.0035 ppm	0.0003 ppm	-0.0003 ppm	-0.0005 ppm	-0.0016 ppm
Recovery Percentage 1	0.997 %	0.451 %	0.307 %	-0.234 %	-2.102 %	-0.628 %	-1.165 %
Concentration RSD	178.4 %	60.9 %	55.5 %	504.5 %	140.2 %	108.0 %	1,077.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0005 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 1	0.0006 ppm	0.0002 ppm	0.0000 ppm	-0.0004 ppm	-0.0003 ppm	0.0001 ppm	-0.0002 ppm
Concentration per Run 2	0.0008 ppm	0.0003 ppm	0.0001 ppm	0.0002 ppm	0.0001 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 3	0.0002 ppm	0.0002 ppm	0.0001 ppm	0.0002 ppm	0.0004 ppm	-0.0001 ppm	0.0000 ppm
Recovery Percentage 1	0.106 %	0.466 %	0.611 %	0.039 %	0.383 %	0.368 %	-1.849 %
Concentration RSD	57.6 %	35.4 %	35.3 %	7,945.9 %	473.9 %	381.5 %	117.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.0799 %	97.7479 %	97.7884 %	103.7849 %	100.9431 %	103.7724 %	0.0000 ppm
Concentration per Run 1	99.2503 %	97.9044 %	97.6238 %	104.1652 %	101.5548 %	103.8316 %	0.0011 ppm
Concentration per Run 2	97.7921 %	97.7635 %	97.6166 %	103.8133 %	100.6933 %	103.8181 %	-0.0008 ppm
Concentration per Run 3	97.1972 %	97.5757 %	98.1248 %	103.3762 %	100.5813 %	103.6675 %	-0.0002 ppm
Recovery Percentage 1							0.118 %
Concentration RSD	1.1 %	0.2 %	0.3 %	0.4 %	0.5 %	0.1 %	8,320.6 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: CCV
Analysis started at: 3/12/2025 9:42:40 AM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4813 ppm	0.4819 ppm	0.4798 ppm	0.4731 ppm	0.4563 ppm	0.4800 ppm	0.5061 ppm
Concentration per Run 1	0.4816 ppm	0.4718 ppm	0.4750 ppm	0.4671 ppm	0.4489 ppm	0.4746 ppm	0.4975 ppm
Concentration per Run 2	0.4732 ppm	0.4915 ppm	0.4860 ppm	0.4804 ppm	0.4588 ppm	0.4828 ppm	0.5110 ppm
Concentration per Run 3	0.4892 ppm	0.4824 ppm	0.4783 ppm	0.4717 ppm	0.4611 ppm	0.4825 ppm	0.5098 ppm
Recovery Percentage 1	96.269 %	96.377 %	95.957 %	94.612 %	91.253 %	95.995 %	101.221 %
Concentration RSD	1.7 %	2.1 %	1.2 %	1.4 %	1.4 %	1.0 %	1.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4638 ppm	0.4583 ppm	0.4702 ppm	0.4984 ppm	0.4879 ppm	4.8505 ppm	0.4974 ppm
Concentration per Run 1	0.4568 ppm	0.4512 ppm	0.4714 ppm	0.4957 ppm	0.4809 ppm	4.8011 ppm	0.4988 ppm
Concentration per Run 2	0.4705 ppm	0.4649 ppm	0.4628 ppm	0.4993 ppm	0.4889 ppm	4.8898 ppm	0.4877 ppm
Concentration per Run 3	0.4640 ppm	0.4589 ppm	0.4765 ppm	0.5001 ppm	0.4939 ppm	4.8607 ppm	0.5059 ppm
Recovery Percentage 1	92.751 %	91.664 %	94.042 %	99.675 %	97.576 %	97.011 %	99.489 %
Concentration RSD	1.5 %	1.5 %	1.5 %	0.5 %	1.3 %	0.9 %	1.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4778 ppm	0.4669 ppm	9.6122 ppm	0.4745 ppm	0.4823 ppm	0.4597 ppm	0.4828 ppm
Concentration per Run 1	0.4729 ppm	0.4596 ppm	9.4516 ppm	0.4677 ppm	0.4758 ppm	0.4535 ppm	0.4790 ppm
Concentration per Run 2	0.4802 ppm	0.4730 ppm	9.6628 ppm	0.4810 ppm	0.4891 ppm	0.4661 ppm	0.4895 ppm
Concentration per Run 3	0.4803 ppm	0.4681 ppm	9.7222 ppm	0.4748 ppm	0.4820 ppm	0.4595 ppm	0.4799 ppm
Recovery Percentage 1	95.561 %	93.383 %	96.122 %	94.905 %	96.463 %	91.942 %	96.560 %
Concentration RSD	0.9 %	1.4 %	1.5 %	1.4 %	1.4 %	1.4 %	1.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.3115 ppm	0.4676 ppm	0.4606 ppm	0.4627 ppm	0.4770 ppm	0.4862 ppm	0.4565 ppm
Concentration per Run 1	5.2411 ppm	0.4605 ppm	0.4535 ppm	0.4632 ppm	0.4715 ppm	0.4814 ppm	0.4495 ppm
Concentration per Run 2	5.3854 ppm	0.4746 ppm	0.4630 ppm	0.4561 ppm	0.4839 ppm	0.4932 ppm	0.4632 ppm
Concentration per Run 3	5.3081 ppm	0.4678 ppm	0.4653 ppm	0.4688 ppm	0.4758 ppm	0.4839 ppm	0.4568 ppm
Recovery Percentage 1	101.172 %	93.530 %	92.117 %	92.539 %	95.410 %	97.233 %	91.297 %
Concentration RSD	1.4 %	1.5 %	1.4 %	1.4 %	1.3 %	1.3 %	1.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	97.7303 %	96.2088 %	96.0367 %	105.6433 %	96.6541 %	102.7537 %	0.4674 ppm
Concentration per Run 1	98.4544 %	96.4323 %	97.0406 %	106.8184 %	97.9643 %	102.6187 %	0.4592 ppm
Concentration per Run 2	97.0353 %	96.0623 %	94.7053 %	104.7513 %	95.3823 %	104.4187 %	0.4697 ppm
Concentration per Run 3	97.7012 %	96.1318 %	96.3641 %	105.3603 %	96.6159 %	101.2238 %	0.4732 ppm
Recovery Percentage 1							93.475 %
Concentration RSD	0.7 %	0.2 %	1.3 %	1.0 %	1.3 %	1.6 %	1.6 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: CCB
Analysis started at: 3/12/2025 9:48:59 AM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	-0.0046 ppm	-0.0007 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0036 ppm
Concentration per Run 1	-0.0001 ppm	-0.0021 ppm	-0.0007 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0036 ppm
Concentration per Run 2	0.0001 ppm	-0.0061 ppm	-0.0002 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0059 ppm
Concentration per Run 3	0.0001 ppm	-0.0055 ppm	-0.0012 ppm	0.0004 ppm	-0.0001 ppm	0.0000 ppm	0.0013 ppm
Recovery Percentage 1	0.544 %	-4.575 %	-14.373 %	1.081 %	-0.343 %	-0.014 %	3.588 %
Concentration RSD	336.0 %	47.5 %	73.5 %	25.7 %	184.3 %	883.2 %	63.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0009 ppm	0.0006 ppm	0.0164 ppm	0.0010 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0010 ppm	0.0015 ppm	0.0168 ppm	0.0023 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0007 ppm	0.0000 ppm	-0.0009 ppm	-0.0001 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0004 ppm	0.0010 ppm	0.0002 ppm	0.0334 ppm	0.0009 ppm
Recovery Percentage 1	-0.367 %	-0.022 %	-1.644 %	9.117 %	1.132 %	0.657 %	1.006 %
Concentration RSD	98.7 %	472.1 %	158.4 %	22.9 %	140.3 %	104.6 %	120.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0002 ppm	0.0004 ppm	-0.0023 ppm	-0.0001 ppm	-0.0001 ppm	-0.0003 ppm	-0.0010 ppm
Concentration per Run 1	-0.0002 ppm	0.0005 ppm	0.0034 ppm	0.0001 ppm	0.0001 ppm	-0.0008 ppm	-0.0030 ppm
Concentration per Run 2	-0.0001 ppm	0.0004 ppm	-0.0047 ppm	-0.0002 ppm	0.0000 ppm	-0.0004 ppm	0.0002 ppm
Concentration per Run 3	-0.0003 ppm	0.0002 ppm	-0.0056 ppm	-0.0001 ppm	-0.0006 ppm	0.0002 ppm	-0.0001 ppm
Recovery Percentage 1	-2.014 %	0.718 %	-0.115 %	-0.260 %	-1.441 %	-0.680 %	-9.538 %
Concentration RSD	35.8 %	47.9 %	217.1 %	211.8 %	273.8 %	154.4 %	187.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0009 ppm	0.0004 ppm	0.0001 ppm	-0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 1	0.0006 ppm	0.0004 ppm	0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 2	0.0018 ppm	0.0004 ppm	0.0000 ppm	-0.0001 ppm	0.0005 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 3	0.0003 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm
Recovery Percentage 1	0.177 %	0.704 %	0.529 %	-1.472 %	0.925 %	0.190 %	-0.325 %
Concentration RSD	87.5 %	34.2 %	49.7 %	103.2 %	166.1 %	581.9 %	566.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	97.8899 %	98.8006 %	98.3680 %	103.0371 %	101.5661 %	103.5929 %	-0.0001 ppm
Concentration per Run 1	99.5359 %	98.1340 %	98.2657 %	103.9098 %	101.3554 %	103.0457 %	-0.0004 ppm
Concentration per Run 2	97.7253 %	99.1738 %	98.3467 %	103.0247 %	101.3808 %	104.0636 %	0.0003 ppm
Concentration per Run 3	96.4086 %	99.0941 %	98.4916 %	102.1766 %	101.9621 %	103.6695 %	-0.0003 ppm
Recovery Percentage 1							-1.132 %
Concentration RSD	1.6 %	0.6 %	0.1 %	0.8 %	0.3 %	0.5 %	336.9 %

LabBook: WG2039408_03122025T6.imexp

Sample: L2511531-06 WG2038644
Analysis started at: 3/12/2025 10:09:07 AM
Rack: 1
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0099 ppm	-0.0005 ppm	0.0168 ppm	0.1261 ppm	0.0000 ppm	80.0689 ppm
Concentration per Run 1	0.0000 ppm	0.0125 ppm	0.0000 ppm	0.0167 ppm	0.1270 ppm	0.0000 ppm	80.2332 ppm
Concentration per Run 2	-0.0002 ppm	0.0093 ppm	-0.0004 ppm	0.0167 ppm	0.1253 ppm	0.0000 ppm	79.9096 ppm
Concentration per Run 3	-0.0001 ppm	0.0079 ppm	-0.0010 ppm	0.0170 ppm	0.1261 ppm	0.0000 ppm	80.0638 ppm
Concentration RSD	101.1 %	23.9 %	117.8 %	1.1 %	0.7 %	140.3 %	0.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0012 ppm	0.0031 ppm	0.0002 ppm	0.0152 ppm	0.0022 ppm	0.5943 ppm	1.4170 ppm
Concentration per Run 1	0.0012 ppm	0.0031 ppm	0.0003 ppm	0.0151 ppm	0.0022 ppm	0.5798 ppm	1.4135 ppm
Concentration per Run 2	0.0012 ppm	0.0031 ppm	-0.0001 ppm	0.0152 ppm	0.0022 ppm	0.5774 ppm	1.4229 ppm
Concentration per Run 3	0.0012 ppm	0.0031 ppm	0.0004 ppm	0.0151 ppm	0.0021 ppm	0.6258 ppm	1.4145 ppm
Concentration RSD	1.4 %	1.3 %	112.2 %	0.5 %	3.6 %	4.6 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4806 ppm	0.0003 ppm	141.0052 ppm	0.0127 ppm	0.0309 ppm	0.0010 ppm	-0.0003 ppm
Concentration per Run 1	0.4817 ppm	0.0004 ppm	140.3665 ppm	0.0129 ppm	0.0309 ppm	0.0005 ppm	0.0005 ppm
Concentration per Run 2	0.4799 ppm	0.0002 ppm	140.5334 ppm	0.0127 ppm	0.0305 ppm	0.0005 ppm	-0.0012 ppm
Concentration per Run 3	0.4801 ppm	0.0002 ppm	142.1156 ppm	0.0125 ppm	0.0312 ppm	0.0019 ppm	-0.0002 ppm
Concentration RSD	0.2 %	47.8 %	0.7 %	1.4 %	1.1 %	76.9 %	286.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.5471 ppm	0.0012 ppm	0.3608 ppm	0.0003 ppm	-0.0045 ppm	0.0010 ppm	0.5277 ppm
Concentration per Run 1	0.5464 ppm	0.0010 ppm	0.3629 ppm	0.0001 ppm	-0.0053 ppm	0.0010 ppm	0.5264 ppm
Concentration per Run 2	0.5500 ppm	0.0010 ppm	0.3584 ppm	0.0004 ppm	-0.0036 ppm	0.0010 ppm	0.5291 ppm
Concentration per Run 3	0.5449 ppm	0.0017 ppm	0.3610 ppm	0.0003 ppm	-0.0045 ppm	0.0010 ppm	0.5276 ppm
Concentration RSD	0.5 %	34.9 %	0.6 %	65.6 %	18.9 %	1.1 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	95.1982 %	93.2130 %	91.8052 %	102.1314 %	84.8248 %	97.3560 %	0.0047 ppm
Concentration per Run 1	96.0215 %	93.3121 %	91.7500 %	101.8561 %	84.9871 %	97.2210 %	0.0053 ppm
Concentration per Run 2	94.9966 %	93.1605 %	91.7664 %	102.3663 %	84.3308 %	97.2770 %	0.0039 ppm
Concentration per Run 3	94.5765 %	93.1662 %	91.8992 %	102.1720 %	85.1563 %	97.5701 %	0.0049 ppm
Concentration RSD	0.8 %	0.1 %	0.1 %	0.3 %	0.5 %	0.2 %	14.9 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: L2511768-01 WG2038644
Analysis started at: 3/12/2025 10:15:47 AM
Rack: 1
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0239 ppm	0.0001 ppm	0.0027 ppm	0.0993 ppm	0.0000 ppm	4.0639 ppm
Concentration per Run 1	0.0000 ppm	0.0246 ppm	-0.0002 ppm	0.0030 ppm	0.1012 ppm	0.0001 ppm	4.1199 ppm
Concentration per Run 2	-0.0002 ppm	0.0214 ppm	-0.0005 ppm	0.0023 ppm	0.0950 ppm	0.0000 ppm	3.9144 ppm
Concentration per Run 3	0.0000 ppm	0.0258 ppm	0.0008 ppm	0.0028 ppm	0.1018 ppm	0.0001 ppm	4.1575 ppm
Concentration RSD	201.8 %	9.5 %	1,296.6 %	12.4 %	3.8 %	24.4 %	3.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0008 ppm	0.0009 ppm	0.0003 ppm	0.0034 ppm	0.0058 ppm	0.4957 ppm	0.1046 ppm
Concentration per Run 1	0.0008 ppm	0.0012 ppm	0.0002 ppm	0.0033 ppm	0.0064 ppm	0.5132 ppm	0.1046 ppm
Concentration per Run 2	0.0007 ppm	0.0009 ppm	0.0003 ppm	0.0032 ppm	0.0051 ppm	0.4781 ppm	0.1060 ppm
Concentration per Run 3	0.0008 ppm	0.0008 ppm	0.0003 ppm	0.0036 ppm	0.0059 ppm	0.4959 ppm	0.1032 ppm
Concentration RSD	4.7 %	23.5 %	35.0 %	6.8 %	10.7 %	3.5 %	1.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1014 ppm	-0.0001 ppm	135.5428 ppm	0.0019 ppm	0.1312 ppm	-0.0015 ppm	0.0002 ppm
Concentration per Run 1	0.1032 ppm	0.0000 ppm	135.3362 ppm	0.0022 ppm	0.1350 ppm	-0.0014 ppm	0.0009 ppm
Concentration per Run 2	0.0969 ppm	-0.0001 ppm	131.4191 ppm	0.0018 ppm	0.1297 ppm	-0.0021 ppm	-0.0004 ppm
Concentration per Run 3	0.1041 ppm	0.0000 ppm	139.8733 ppm	0.0019 ppm	0.1289 ppm	-0.0010 ppm	0.0001 ppm
Concentration RSD	3.9 %	97.1 %	3.1 %	9.7 %	2.5 %	35.4 %	290.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.1699 ppm	0.0008 ppm	0.0164 ppm	0.0000 ppm	-0.0042 ppm	0.0002 ppm	0.2308 ppm
Concentration per Run 1	0.1742 ppm	0.0009 ppm	0.0167 ppm	-0.0001 ppm	-0.0039 ppm	0.0000 ppm	0.2374 ppm
Concentration per Run 2	0.1683 ppm	0.0007 ppm	0.0157 ppm	0.0000 ppm	-0.0049 ppm	0.0002 ppm	0.2273 ppm
Concentration per Run 3	0.1673 ppm	0.0009 ppm	0.0168 ppm	0.0000 ppm	-0.0038 ppm	0.0003 ppm	0.2277 ppm
Concentration RSD	2.2 %	14.6 %	3.6 %	184.0 %	15.5 %	102.4 %	2.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	97.1076 %	95.2925 %	93.2448 %	102.6291 %	87.6032 %	99.0525 %	0.0020 ppm
Concentration per Run 1	97.0867 %	95.3726 %	91.0657 %	101.3539 %	85.5791 %	99.1448 %	0.0015 ppm
Concentration per Run 2	99.0019 %	95.5633 %	94.1234 %	106.1436 %	88.1249 %	99.2859 %	0.0021 ppm
Concentration per Run 3	95.2341 %	94.9417 %	94.5452 %	100.3896 %	89.1057 %	98.7267 %	0.0025 ppm
Concentration RSD	1.9 %	0.3 %	2.0 %	3.0 %	2.1 %	0.3 %	23.3 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: L2511769-01 WG2038644
Analysis started at: 3/12/2025 10:22:30 AM
Rack: 1
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0207 ppm	-0.0004 ppm	0.0022 ppm	0.0107 ppm	0.0000 ppm	1.4162 ppm
Concentration per Run 1	-0.0003 ppm	0.0209 ppm	-0.0002 ppm	0.0021 ppm	0.0107 ppm	0.0000 ppm	1.4299 ppm
Concentration per Run 2	0.0001 ppm	0.0219 ppm	0.0011 ppm	0.0022 ppm	0.0106 ppm	0.0000 ppm	1.4118 ppm
Concentration per Run 3	-0.0001 ppm	0.0194 ppm	-0.0019 ppm	0.0021 ppm	0.0108 ppm	0.0000 ppm	1.4069 ppm
Concentration RSD	175.4 %	6.1 %	414.4 %	2.6 %	0.6 %	769.0 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0002 ppm	-0.0003 ppm	0.0002 ppm	0.0011 ppm	0.0070 ppm	0.2400 ppm	0.1093 ppm
Concentration per Run 1	0.0002 ppm	-0.0003 ppm	0.0001 ppm	0.0010 ppm	0.0075 ppm	0.2381 ppm	0.1082 ppm
Concentration per Run 2	0.0002 ppm	-0.0004 ppm	0.0002 ppm	0.0011 ppm	0.0082 ppm	0.2554 ppm	0.1100 ppm
Concentration per Run 3	0.0002 ppm	-0.0003 ppm	0.0002 ppm	0.0011 ppm	0.0053 ppm	0.2264 ppm	0.1096 ppm
Concentration RSD	14.2 %	26.7 %	57.1 %	7.2 %	21.5 %	6.1 %	0.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0068 ppm	-0.0002 ppm	131.8312 ppm	0.0003 ppm	0.0021 ppm	-0.0015 ppm	-0.0004 ppm
Concentration per Run 1	0.0067 ppm	-0.0003 ppm	130.9710 ppm	0.0004 ppm	0.0022 ppm	-0.0016 ppm	-0.0009 ppm
Concentration per Run 2	0.0068 ppm	-0.0002 ppm	132.6502 ppm	0.0001 ppm	0.0024 ppm	-0.0011 ppm	-0.0001 ppm
Concentration per Run 3	0.0069 ppm	-0.0001 ppm	131.8723 ppm	0.0004 ppm	0.0017 ppm	-0.0017 ppm	-0.0003 ppm
Concentration RSD	1.4 %	67.1 %	0.6 %	59.3 %	16.8 %	19.3 %	95.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0847 ppm	0.0009 ppm	0.0117 ppm	0.0000 ppm	-0.0044 ppm	0.0001 ppm	0.0529 ppm
Concentration per Run 1	0.0854 ppm	0.0009 ppm	0.0118 ppm	-0.0002 ppm	-0.0042 ppm	0.0000 ppm	0.0532 ppm
Concentration per Run 2	0.0844 ppm	0.0011 ppm	0.0118 ppm	0.0000 ppm	-0.0041 ppm	0.0002 ppm	0.0529 ppm
Concentration per Run 3	0.0844 ppm	0.0007 ppm	0.0116 ppm	0.0001 ppm	-0.0047 ppm	0.0002 ppm	0.0526 ppm
Concentration RSD	0.7 %	23.7 %	0.8 %	584.8 %	7.5 %	76.8 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	96.5525 %	95.5459 %	94.5158 %	102.6616 %	88.7208 %	99.2553 %	0.0021 ppm
Concentration per Run 1	96.7141 %	95.5385 %	94.4998 %	101.7867 %	88.4647 %	99.2152 %	0.0024 ppm
Concentration per Run 2	96.8711 %	95.3717 %	94.4482 %	103.4370 %	88.8855 %	99.1858 %	0.0018 ppm
Concentration per Run 3	96.0724 %	95.7275 %	94.5994 %	102.7611 %	88.8122 %	99.3649 %	0.0021 ppm
Concentration RSD	0.4 %	0.2 %	0.1 %	0.8 %	0.3 %	0.1 %	14.9 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: L2512062-01 WG2038644
Analysis started at: 3/12/2025 10:30:16 AM
Rack: 1
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0360 ppm	-0.0008 ppm	0.0015 ppm	0.0130 ppm	0.0000 ppm	0.3527 ppm
Concentration per Run 1	0.0000 ppm	0.0361 ppm	-0.0014 ppm	0.0016 ppm	0.0131 ppm	0.0000 ppm	0.3555 ppm
Concentration per Run 2	0.0002 ppm	0.0353 ppm	-0.0021 ppm	0.0017 ppm	0.0130 ppm	0.0000 ppm	0.3450 ppm
Concentration per Run 3	-0.0001 ppm	0.0365 ppm	0.0011 ppm	0.0012 ppm	0.0130 ppm	0.0000 ppm	0.3576 ppm
Concentration RSD	354.4 %	1.6 %	216.6 %	16.6 %	0.8 %	258.6 %	1.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0003 ppm	0.0003 ppm	0.0023 ppm	0.0021 ppm	0.2092 ppm	0.0347 ppm
Concentration per Run 1	0.0001 ppm	-0.0003 ppm	0.0003 ppm	0.0024 ppm	0.0013 ppm	0.1850 ppm	0.0353 ppm
Concentration per Run 2	0.0001 ppm	-0.0004 ppm	0.0005 ppm	0.0020 ppm	0.0019 ppm	0.2206 ppm	0.0353 ppm
Concentration per Run 3	0.0001 ppm	-0.0003 ppm	0.0001 ppm	0.0024 ppm	0.0029 ppm	0.2221 ppm	0.0334 ppm
Concentration RSD	16.3 %	26.9 %	72.7 %	9.7 %	38.2 %	10.1 %	3.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0012 ppm	-0.0004 ppm	138.4370 ppm	0.0004 ppm	0.0263 ppm	-0.0010 ppm	-0.0009 ppm
Concentration per Run 1	0.0013 ppm	-0.0004 ppm	139.8417 ppm	0.0005 ppm	0.0266 ppm	-0.0011 ppm	-0.0022 ppm
Concentration per Run 2	0.0012 ppm	-0.0003 ppm	137.1893 ppm	0.0005 ppm	0.0261 ppm	-0.0006 ppm	-0.0004 ppm
Concentration per Run 3	0.0013 ppm	-0.0003 ppm	138.2800 ppm	0.0003 ppm	0.0263 ppm	-0.0012 ppm	0.0000 ppm
Concentration RSD	6.9 %	9.3 %	1.0 %	19.4 %	0.8 %	37.3 %	133.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0704 ppm	0.0032 ppm	0.0027 ppm	-0.0002 ppm	-0.0038 ppm	0.0001 ppm	0.0063 ppm
Concentration per Run 1	0.0711 ppm	0.0033 ppm	0.0027 ppm	-0.0002 ppm	-0.0032 ppm	0.0000 ppm	0.0063 ppm
Concentration per Run 2	0.0701 ppm	0.0032 ppm	0.0027 ppm	0.0000 ppm	-0.0037 ppm	0.0001 ppm	0.0063 ppm
Concentration per Run 3	0.0700 ppm	0.0032 ppm	0.0028 ppm	-0.0003 ppm	-0.0044 ppm	0.0000 ppm	0.0061 ppm
Concentration RSD	0.8 %	2.4 %	1.2 %	84.1 %	15.2 %	91.6 %	1.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	96.3990 %	94.9438 %	93.9795 %	101.7411 %	88.4398 %	99.2461 %	0.0013 ppm
Concentration per Run 1	97.6361 %	95.1676 %	93.7271 %	101.4999 %	88.1610 %	99.3102 %	0.0014 ppm
Concentration per Run 2	96.0156 %	94.8971 %	93.9968 %	101.8996 %	88.3868 %	99.1568 %	0.0010 ppm
Concentration per Run 3	95.5454 %	94.7668 %	94.2147 %	101.8239 %	88.7717 %	99.2713 %	0.0015 ppm
Concentration RSD	1.1 %	0.2 %	0.3 %	0.2 %	0.3 %	0.1 %	21.3 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: L2512201-01 WG2038644
Analysis started at: 3/12/2025 10:37:04 AM
Rack: 1
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.0266 ppm	0.0013 ppm	0.1104 ppm	0.0870 ppm	0.0000 ppm	42.8983 ppm
Concentration per Run 1	-0.0004 ppm	0.0303 ppm	0.0012 ppm	0.1104 ppm	0.0866 ppm	0.0000 ppm	42.7679 ppm
Concentration per Run 2	-0.0003 ppm	0.0241 ppm	0.0002 ppm	0.1106 ppm	0.0855 ppm	0.0001 ppm	42.0506 ppm
Concentration per Run 3	-0.0001 ppm	0.0254 ppm	0.0025 ppm	0.1104 ppm	0.0888 ppm	0.0000 ppm	43.8765 ppm
Concentration RSD	71.4 %	12.3 %	89.4 %	0.1 %	1.9 %	92.6 %	2.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0002 ppm	0.0027 ppm	0.0003 ppm	0.0012 ppm	0.0033 ppm	0.5870 ppm	0.8580 ppm
Concentration per Run 1	0.0002 ppm	0.0026 ppm	0.0006 ppm	0.0012 ppm	0.0044 ppm	0.5616 ppm	0.8562 ppm
Concentration per Run 2	0.0002 ppm	0.0028 ppm	0.0001 ppm	0.0013 ppm	0.0013 ppm	0.5937 ppm	0.8557 ppm
Concentration per Run 3	0.0002 ppm	0.0027 ppm	0.0001 ppm	0.0012 ppm	0.0044 ppm	0.6057 ppm	0.8622 ppm
Concentration RSD	4.1 %	3.4 %	99.5 %	3.5 %	53.7 %	3.9 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1727 ppm	-0.0002 ppm	127.9392 ppm	0.0058 ppm	0.0045 ppm	-0.0015 ppm	-0.0004 ppm
Concentration per Run 1	0.1719 ppm	-0.0002 ppm	126.4659 ppm	0.0058 ppm	0.0043 ppm	-0.0012 ppm	-0.0015 ppm
Concentration per Run 2	0.1694 ppm	-0.0003 ppm	125.3604 ppm	0.0060 ppm	0.0045 ppm	-0.0016 ppm	0.0002 ppm
Concentration per Run 3	0.1768 ppm	-0.0002 ppm	131.9914 ppm	0.0058 ppm	0.0047 ppm	-0.0017 ppm	0.0000 ppm
Concentration RSD	2.2 %	34.3 %	2.8 %	1.7 %	3.7 %	19.5 %	238.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.0287 ppm	0.0010 ppm	0.2137 ppm	0.0000 ppm	-0.0035 ppm	0.0004 ppm	0.0425 ppm
Concentration per Run 1	1.0286 ppm	0.0014 ppm	0.2123 ppm	-0.0001 ppm	-0.0045 ppm	0.0004 ppm	0.0427 ppm
Concentration per Run 2	1.0272 ppm	0.0005 ppm	0.2106 ppm	0.0000 ppm	-0.0031 ppm	0.0005 ppm	0.0424 ppm
Concentration per Run 3	1.0303 ppm	0.0012 ppm	0.2183 ppm	0.0001 ppm	-0.0030 ppm	0.0004 ppm	0.0425 ppm
Concentration RSD	0.2 %	47.9 %	1.9 %	1,607.6 %	24.3 %	15.5 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	96.0568 %	94.8428 %	93.7278 %	100.9029 %	87.2535 %	98.9912 %	0.0088 ppm
Concentration per Run 1	96.7231 %	94.7891 %	93.6356 %	101.0787 %	87.3372 %	98.8726 %	0.0078 ppm
Concentration per Run 2	96.9760 %	94.9001 %	93.5918 %	102.9134 %	87.2618 %	99.1301 %	0.0088 ppm
Concentration per Run 3	94.4713 %	94.8391 %	93.9560 %	98.7168 %	87.1614 %	98.9708 %	0.0098 ppm
Concentration RSD	1.4 %	0.1 %	0.2 %	2.1 %	0.1 %	0.1 %	11.5 %

LabBook: WG2039408_03122025T6.imexp

Sample: L2512259-02 WG2038644
Analysis started at: 3/12/2025 10:43:43 AM
Rack: 1
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0183 ppm	-0.0014 ppm	0.0059 ppm	0.0319 ppm	0.0000 ppm	38.8059 ppm
Concentration per Run 1	0.0002 ppm	0.0176 ppm	-0.0004 ppm	0.0059 ppm	0.0318 ppm	0.0000 ppm	39.0524 ppm
Concentration per Run 2	0.0002 ppm	0.0225 ppm	-0.0013 ppm	0.0057 ppm	0.0312 ppm	0.0001 ppm	37.6936 ppm
Concentration per Run 3	0.0000 ppm	0.0148 ppm	-0.0026 ppm	0.0060 ppm	0.0328 ppm	-0.0001 ppm	39.6716 ppm
Concentration RSD	73.2 %	21.2 %	76.3 %	2.9 %	2.6 %	647.3 %	2.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0038 ppm	0.0046 ppm	0.5971 ppm	0.6861 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0038 ppm	0.0058 ppm	0.5954 ppm	0.6872 ppm
Concentration per Run 2	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0037 ppm	0.0028 ppm	0.5784 ppm	0.6848 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0007 ppm	0.0039 ppm	0.0053 ppm	0.6174 ppm	0.6862 ppm
Concentration RSD	14.4 %	91.4 %	105.7 %	2.4 %	33.9 %	3.3 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0767 ppm	-0.0002 ppm	130.6008 ppm	0.0013 ppm	0.0224 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 1	0.0771 ppm	-0.0003 ppm	129.1375 ppm	0.0015 ppm	0.0230 ppm	-0.0006 ppm	-0.0009 ppm
Concentration per Run 2	0.0744 ppm	-0.0002 ppm	126.7141 ppm	0.0011 ppm	0.0221 ppm	0.0001 ppm	0.0009 ppm
Concentration per Run 3	0.0785 ppm	-0.0001 ppm	135.9509 ppm	0.0013 ppm	0.0222 ppm	-0.0005 ppm	0.0003 ppm
Concentration RSD	2.7 %	32.2 %	3.7 %	13.4 %	2.1 %	102.7 %	854.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.4925 ppm	0.0010 ppm	0.1853 ppm	0.0001 ppm	-0.0041 ppm	0.0002 ppm	0.0165 ppm
Concentration per Run 1	0.4927 ppm	0.0010 ppm	0.1858 ppm	0.0002 ppm	-0.0032 ppm	0.0000 ppm	0.0165 ppm
Concentration per Run 2	0.4921 ppm	0.0009 ppm	0.1805 ppm	0.0000 ppm	-0.0043 ppm	0.0003 ppm	0.0165 ppm
Concentration per Run 3	0.4926 ppm	0.0011 ppm	0.1894 ppm	0.0003 ppm	-0.0049 ppm	0.0003 ppm	0.0164 ppm
Concentration RSD	0.1 %	7.3 %	2.4 %	97.8 %	20.3 %	76.8 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	95.8335 %	94.3142 %	93.3769 %	101.6021 %	87.1059 %	98.7984 %	0.0020 ppm
Concentration per Run 1	95.5818 %	94.0976 %	93.2684 %	100.6862 %	87.0057 %	98.6585 %	0.0017 ppm
Concentration per Run 2	97.3560 %	94.1168 %	93.4862 %	104.5520 %	87.3528 %	98.6052 %	0.0014 ppm
Concentration per Run 3	94.5626 %	94.7282 %	93.3761 %	99.5681 %	86.9591 %	99.1315 %	0.0028 ppm
Concentration RSD	1.5 %	0.4 %	0.1 %	2.6 %	0.2 %	0.3 %	37.6 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: L2512259-04 WG2038644
Analysis started at: 3/12/2025 10:50:28 AM
Rack: 1
Vial: 9

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0170 ppm	-0.0002 ppm	0.0084 ppm	0.0297 ppm	0.0000 ppm	25.8022 ppm
Concentration per Run 1	-0.0001 ppm	0.0200 ppm	0.0000 ppm	0.0083 ppm	0.0299 ppm	0.0000 ppm	25.9441 ppm
Concentration per Run 2	0.0000 ppm	0.0171 ppm	-0.0003 ppm	0.0086 ppm	0.0295 ppm	0.0000 ppm	25.7407 ppm
Concentration per Run 3	0.0000 ppm	0.0138 ppm	-0.0003 ppm	0.0084 ppm	0.0296 ppm	0.0001 ppm	25.7217 ppm
Concentration RSD	173.3 %	18.3 %	92.8 %	2.4 %	0.5 %	63.5 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0002 ppm	0.0006 ppm	0.0003 ppm	0.0081 ppm	0.0171 ppm	0.9360 ppm	1.5451 ppm
Concentration per Run 1	0.0001 ppm	0.0006 ppm	0.0002 ppm	0.0077 ppm	0.0177 ppm	0.9274 ppm	1.4600 ppm
Concentration per Run 2	0.0002 ppm	0.0006 ppm	0.0001 ppm	0.0087 ppm	0.0168 ppm	0.9270 ppm	1.6337 ppm
Concentration per Run 3	0.0002 ppm	0.0005 ppm	0.0006 ppm	0.0078 ppm	0.0168 ppm	0.9537 ppm	1.5417 ppm
Concentration RSD	26.3 %	9.8 %	81.9 %	6.3 %	3.0 %	1.6 %	5.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1375 ppm	-0.0002 ppm	132.3228 ppm	0.0015 ppm	0.0041 ppm	-0.0017 ppm	-0.0012 ppm
Concentration per Run 1	0.1380 ppm	-0.0001 ppm	135.7055 ppm	0.0014 ppm	0.0044 ppm	-0.0023 ppm	0.0005 ppm
Concentration per Run 2	0.1372 ppm	-0.0002 ppm	128.9608 ppm	0.0014 ppm	0.0039 ppm	-0.0015 ppm	-0.0018 ppm
Concentration per Run 3	0.1373 ppm	-0.0002 ppm	132.3023 ppm	0.0015 ppm	0.0040 ppm	-0.0013 ppm	-0.0023 ppm
Concentration RSD	0.3 %	36.1 %	2.5 %	4.3 %	6.3 %	31.0 %	123.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.4119 ppm	0.0009 ppm	0.1364 ppm	0.0002 ppm	-0.0031 ppm	0.0003 ppm	0.0244 ppm
Concentration per Run 1	0.4034 ppm	0.0010 ppm	0.1373 ppm	0.0003 ppm	-0.0022 ppm	0.0005 ppm	0.0239 ppm
Concentration per Run 2	0.4193 ppm	0.0009 ppm	0.1362 ppm	0.0001 ppm	-0.0041 ppm	0.0002 ppm	0.0246 ppm
Concentration per Run 3	0.4130 ppm	0.0008 ppm	0.1358 ppm	0.0003 ppm	-0.0030 ppm	0.0003 ppm	0.0246 ppm
Concentration RSD	2.0 %	14.4 %	0.6 %	50.8 %	31.1 %	46.6 %	1.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	96.2575 %	96.2753 %	93.8164 %	102.1800 %	87.7229 %	100.2381 %	0.0026 ppm
Concentration per Run 1	96.4811 %	100.6496 %	95.2763 %	101.1676 %	89.5300 %	105.3727 %	0.0024 ppm
Concentration per Run 2	96.1078 %	91.7935 %	92.5634 %	102.4834 %	86.4442 %	94.9537 %	0.0024 ppm
Concentration per Run 3	96.1835 %	96.3828 %	93.6095 %	102.8890 %	87.1945 %	100.3878 %	0.0030 ppm
Concentration RSD	0.2 %	4.6 %	1.5 %	0.9 %	1.8 %	5.2 %	12.9 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: L2512485-01 WG2038644
Analysis started at: 3/12/2025 10:57:13 AM
Rack: 1
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0116 ppm	0.0002 ppm	0.0152 ppm	0.0260 ppm	0.0000 ppm	74.1076 ppm
Concentration per Run 1	0.0000 ppm	0.0083 ppm	0.0009 ppm	0.0152 ppm	0.0261 ppm	0.0000 ppm	74.1053 ppm
Concentration per Run 2	0.0000 ppm	0.0129 ppm	-0.0002 ppm	0.0151 ppm	0.0260 ppm	0.0000 ppm	74.4286 ppm
Concentration per Run 3	0.0002 ppm	0.0137 ppm	-0.0001 ppm	0.0154 ppm	0.0259 ppm	0.0000 ppm	73.7888 ppm
Concentration RSD	196.2 %	25.2 %	285.6 %	0.9 %	0.4 %	84.7 %	0.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0032 ppm	0.0012 ppm	0.0007 ppm	0.0263 ppm	0.0023 ppm	1.6789 ppm	2.2618 ppm
Concentration per Run 1	0.0032 ppm	0.0014 ppm	0.0009 ppm	0.0265 ppm	0.0026 ppm	1.6909 ppm	2.2634 ppm
Concentration per Run 2	0.0033 ppm	0.0012 ppm	0.0003 ppm	0.0263 ppm	0.0018 ppm	1.6815 ppm	2.2668 ppm
Concentration per Run 3	0.0033 ppm	0.0011 ppm	0.0007 ppm	0.0262 ppm	0.0025 ppm	1.6644 ppm	2.2550 ppm
Concentration RSD	1.0 %	11.7 %	45.8 %	0.6 %	19.3 %	0.8 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0787 ppm	0.0011 ppm	135.0952 ppm	0.0179 ppm	0.0146 ppm	-0.0010 ppm	-0.0001 ppm
Concentration per Run 1	0.0789 ppm	0.0011 ppm	137.6905 ppm	0.0179 ppm	0.0142 ppm	-0.0002 ppm	0.0004 ppm
Concentration per Run 2	0.0796 ppm	0.0011 ppm	132.8414 ppm	0.0179 ppm	0.0143 ppm	-0.0013 ppm	-0.0008 ppm
Concentration per Run 3	0.0778 ppm	0.0010 ppm	134.7536 ppm	0.0181 ppm	0.0152 ppm	-0.0016 ppm	0.0000 ppm
Concentration RSD	1.1 %	5.6 %	1.8 %	0.7 %	3.6 %	69.5 %	492.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.1412 ppm	0.0012 ppm	0.2946 ppm	0.0001 ppm	-0.0038 ppm	0.0780 ppm	0.2439 ppm
Concentration per Run 1	1.1346 ppm	0.0014 ppm	0.2961 ppm	0.0001 ppm	-0.0035 ppm	0.0775 ppm	0.2415 ppm
Concentration per Run 2	1.1323 ppm	0.0012 ppm	0.2935 ppm	0.0003 ppm	-0.0037 ppm	0.0776 ppm	0.2421 ppm
Concentration per Run 3	1.1566 ppm	0.0011 ppm	0.2942 ppm	0.0000 ppm	-0.0043 ppm	0.0788 ppm	0.2482 ppm
Concentration RSD	1.2 %	14.8 %	0.5 %	109.9 %	10.9 %	0.9 %	1.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	95.5524 %	93.5531 %	90.7426 %	101.6768 %	84.2269 %	97.7876 %	0.0305 ppm
Concentration per Run 1	96.8371 %	93.7362 %	91.3054 %	101.6851 %	84.7003 %	97.9657 %	0.0307 ppm
Concentration per Run 2	94.3828 %	93.4333 %	91.3564 %	101.0802 %	84.6833 %	97.6579 %	0.0306 ppm
Concentration per Run 3	95.4373 %	93.4898 %	89.5661 %	102.2650 %	83.2970 %	97.7392 %	0.0301 ppm
Concentration RSD	1.3 %	0.2 %	1.1 %	0.6 %	1.0 %	0.2 %	1.0 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: L2512485-02 WG2038644
Analysis started at: 3/12/2025 11:03:55 AM
Rack: 1
Vial: 11

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0328 ppm	-0.0012 ppm	0.0074 ppm	0.0325 ppm	0.0000 ppm	57.8897 ppm
Concentration per Run 1	-0.0001 ppm	0.0291 ppm	-0.0004 ppm	0.0078 ppm	0.0328 ppm	0.0000 ppm	58.0639 ppm
Concentration per Run 2	0.0000 ppm	0.0323 ppm	-0.0023 ppm	0.0070 ppm	0.0324 ppm	0.0000 ppm	58.0359 ppm
Concentration per Run 3	-0.0003 ppm	0.0370 ppm	-0.0010 ppm	0.0073 ppm	0.0324 ppm	0.0000 ppm	57.5692 ppm
Concentration RSD	92.3 %	12.1 %	77.9 %	5.5 %	0.7 %	82.1 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0010 ppm	0.0011 ppm	0.0111 ppm	0.0165 ppm	0.8995 ppm	1.5961 ppm
Concentration per Run 1	0.0001 ppm	0.0010 ppm	0.0010 ppm	0.0108 ppm	0.0172 ppm	0.9270 ppm	1.5339 ppm
Concentration per Run 2	0.0001 ppm	0.0009 ppm	0.0012 ppm	0.0111 ppm	0.0158 ppm	0.8866 ppm	1.6415 ppm
Concentration per Run 3	0.0001 ppm	0.0010 ppm	0.0012 ppm	0.0114 ppm	0.0167 ppm	0.8848 ppm	1.6129 ppm
Concentration RSD	32.2 %	4.8 %	10.5 %	2.8 %	4.4 %	2.7 %	3.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1406 ppm	-0.0001 ppm	135.2426 ppm	0.0047 ppm	0.0137 ppm	-0.0006 ppm	-0.0009 ppm
Concentration per Run 1	0.1411 ppm	-0.0001 ppm	137.9747 ppm	0.0046 ppm	0.0142 ppm	-0.0008 ppm	-0.0021 ppm
Concentration per Run 2	0.1409 ppm	0.0000 ppm	136.8460 ppm	0.0046 ppm	0.0135 ppm	-0.0004 ppm	-0.0012 ppm
Concentration per Run 3	0.1399 ppm	-0.0001 ppm	130.9071 ppm	0.0049 ppm	0.0133 ppm	-0.0005 ppm	0.0007 ppm
Concentration RSD	0.5 %	146.8 %	2.8 %	2.9 %	3.4 %	36.1 %	165.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.9223 ppm	0.0009 ppm	0.2192 ppm	0.0006 ppm	-0.0040 ppm	0.0004 ppm	0.0292 ppm
Concentration per Run 1	0.9216 ppm	0.0006 ppm	0.2207 ppm	0.0004 ppm	-0.0041 ppm	0.0003 ppm	0.0292 ppm
Concentration per Run 2	0.9179 ppm	0.0011 ppm	0.2184 ppm	0.0008 ppm	-0.0037 ppm	0.0003 ppm	0.0291 ppm
Concentration per Run 3	0.9273 ppm	0.0009 ppm	0.2186 ppm	0.0007 ppm	-0.0043 ppm	0.0005 ppm	0.0293 ppm
Concentration RSD	0.5 %	33.5 %	0.6 %	29.2 %	7.8 %	25.7 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	95.4399 %	93.6947 %	92.7762 %	101.1287 %	86.3273 %	98.9220 %	0.0035 ppm
Concentration per Run 1	96.1578 %	93.7464 %	92.9987 %	100.5799 %	86.6580 %	102.3417 %	0.0031 ppm
Concentration per Run 2	94.5502 %	93.4634 %	92.8580 %	100.9075 %	86.6944 %	96.3643 %	0.0038 ppm
Concentration per Run 3	95.6116 %	93.8742 %	92.4718 %	101.8986 %	85.6293 %	98.0602 %	0.0035 ppm
Concentration RSD	0.9 %	0.2 %	0.3 %	0.7 %	0.7 %	3.1 %	9.8 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: L2512485-03 WG2038644
Analysis started at: 3/12/2025 11:10:39 AM
Rack: 1
Vial: 12

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0203 ppm	-0.0005 ppm	0.0125 ppm	0.0293 ppm	0.0000 ppm	63.1758 ppm
Concentration per Run 1	0.0002 ppm	0.0198 ppm	-0.0005 ppm	0.0125 ppm	0.0294 ppm	0.0000 ppm	63.2636 ppm
Concentration per Run 2	-0.0002 ppm	0.0193 ppm	-0.0001 ppm	0.0127 ppm	0.0292 ppm	0.0000 ppm	63.3184 ppm
Concentration per Run 3	0.0002 ppm	0.0219 ppm	-0.0008 ppm	0.0123 ppm	0.0293 ppm	0.0000 ppm	62.9455 ppm
Concentration RSD	293.4 %	6.8 %	76.4 %	1.8 %	0.3 %	229.3 %	0.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0009 ppm	0.0000 ppm	0.0010 ppm	0.0621 ppm	0.0113 ppm	1.2220 ppm	1.6836 ppm
Concentration per Run 1	0.0008 ppm	-0.0001 ppm	0.0011 ppm	0.0622 ppm	0.0107 ppm	1.2241 ppm	1.6890 ppm
Concentration per Run 2	0.0008 ppm	-0.0001 ppm	0.0009 ppm	0.0622 ppm	0.0111 ppm	1.2029 ppm	1.6787 ppm
Concentration per Run 3	0.0009 ppm	0.0001 ppm	0.0011 ppm	0.0618 ppm	0.0121 ppm	1.2389 ppm	1.6832 ppm
Concentration RSD	5.2 %	191.1 %	7.7 %	0.4 %	6.6 %	1.5 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4709 ppm	0.0002 ppm	136.4498 ppm	0.0077 ppm	0.0029 ppm	-0.0007 ppm	-0.0005 ppm
Concentration per Run 1	0.4724 ppm	0.0001 ppm	137.8483 ppm	0.0079 ppm	0.0032 ppm	-0.0018 ppm	0.0004 ppm
Concentration per Run 2	0.4711 ppm	0.0003 ppm	135.9672 ppm	0.0076 ppm	0.0026 ppm	0.0003 ppm	-0.0018 ppm
Concentration per Run 3	0.4691 ppm	0.0003 ppm	135.5339 ppm	0.0076 ppm	0.0027 ppm	-0.0006 ppm	-0.0001 ppm
Concentration RSD	0.4 %	51.1 %	0.9 %	2.3 %	11.8 %	148.6 %	240.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.1669 ppm	0.0009 ppm	0.3294 ppm	0.0005 ppm	-0.0043 ppm	0.0091 ppm	0.1264 ppm
Concentration per Run 1	2.1476 ppm	0.0007 ppm	0.3306 ppm	0.0003 ppm	-0.0042 ppm	0.0088 ppm	0.1248 ppm
Concentration per Run 2	2.1880 ppm	0.0011 ppm	0.3288 ppm	0.0006 ppm	-0.0040 ppm	0.0092 ppm	0.1279 ppm
Concentration per Run 3	2.1652 ppm	0.0009 ppm	0.3290 ppm	0.0005 ppm	-0.0048 ppm	0.0092 ppm	0.1267 ppm
Concentration RSD	0.9 %	22.2 %	0.3 %	26.8 %	9.2 %	2.7 %	1.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	95.7492 %	93.5856 %	92.4085 %	102.1193 %	86.0286 %	97.9367 %	0.0100 ppm
Concentration per Run 1	96.3385 %	93.9912 %	92.9768 %	101.6660 %	86.7899 %	98.3222 %	0.0102 ppm
Concentration per Run 2	94.9528 %	93.2913 %	91.8014 %	101.8846 %	85.3762 %	97.6464 %	0.0106 ppm
Concentration per Run 3	95.9564 %	93.4744 %	92.4473 %	102.8074 %	85.9197 %	97.8415 %	0.0091 ppm
Concentration RSD	0.7 %	0.4 %	0.6 %	0.6 %	0.8 %	0.4 %	8.1 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: CCV
Analysis started at: 3/12/2025 11:17:22 AM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4841 ppm	0.4850 ppm	0.4736 ppm	0.4678 ppm	0.4596 ppm	0.4833 ppm	0.5108 ppm
Concentration per Run 1	0.4836 ppm	0.4802 ppm	0.4781 ppm	0.4698 ppm	0.4557 ppm	0.4792 ppm	0.5053 ppm
Concentration per Run 2	0.4846 ppm	0.4836 ppm	0.4705 ppm	0.4641 ppm	0.4616 ppm	0.4845 ppm	0.5136 ppm
Concentration per Run 3	0.4841 ppm	0.4911 ppm	0.4723 ppm	0.4694 ppm	0.4615 ppm	0.4864 ppm	0.5135 ppm
Recovery Percentage 1	96.820 %	96.992 %	94.725 %	93.551 %	91.923 %	96.668 %	102.163 %
Concentration RSD	0.1 %	1.1 %	0.8 %	0.7 %	0.7 %	0.8 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4593 ppm	0.4564 ppm	0.4768 ppm	0.4951 ppm	0.4906 ppm	4.9083 ppm	0.5005 ppm
Concentration per Run 1	0.4606 ppm	0.4587 ppm	0.4760 ppm	0.4940 ppm	0.4868 ppm	4.8497 ppm	0.5005 ppm
Concentration per Run 2	0.4534 ppm	0.4512 ppm	0.4765 ppm	0.4946 ppm	0.4924 ppm	4.9413 ppm	0.4997 ppm
Concentration per Run 3	0.4640 ppm	0.4595 ppm	0.4780 ppm	0.4968 ppm	0.4926 ppm	4.9339 ppm	0.5012 ppm
Recovery Percentage 1	91.863 %	91.285 %	95.366 %	99.020 %	98.117 %	98.167 %	100.100 %
Concentration RSD	1.2 %	1.0 %	0.2 %	0.3 %	0.7 %	1.0 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4800 ppm	0.4584 ppm	9.5623 ppm	0.4681 ppm	0.4746 ppm	0.4574 ppm	0.4768 ppm
Concentration per Run 1	0.4748 ppm	0.4598 ppm	9.4802 ppm	0.4699 ppm	0.4760 ppm	0.4607 ppm	0.4803 ppm
Concentration per Run 2	0.4818 ppm	0.4530 ppm	9.6055 ppm	0.4626 ppm	0.4702 ppm	0.4525 ppm	0.4737 ppm
Concentration per Run 3	0.4834 ppm	0.4623 ppm	9.6013 ppm	0.4718 ppm	0.4777 ppm	0.4590 ppm	0.4762 ppm
Recovery Percentage 1	96.007 %	91.674 %	95.623 %	93.624 %	94.928 %	91.483 %	95.354 %
Concentration RSD	1.0 %	1.0 %	0.7 %	1.0 %	0.8 %	0.9 %	0.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.1987 ppm	0.4620 ppm	0.4657 ppm	0.4728 ppm	0.4712 ppm	0.4807 ppm	0.4557 ppm
Concentration per Run 1	5.2358 ppm	0.4644 ppm	0.4617 ppm	0.4722 ppm	0.4733 ppm	0.4829 ppm	0.4571 ppm
Concentration per Run 2	5.1418 ppm	0.4562 ppm	0.4679 ppm	0.4711 ppm	0.4675 ppm	0.4771 ppm	0.4495 ppm
Concentration per Run 3	5.2183 ppm	0.4653 ppm	0.4676 ppm	0.4751 ppm	0.4728 ppm	0.4821 ppm	0.4605 ppm
Recovery Percentage 1	99.022 %	92.390 %	93.142 %	94.552 %	94.233 %	96.142 %	91.138 %
Concentration RSD	1.0 %	1.1 %	0.8 %	0.4 %	0.7 %	0.7 %	1.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.2725 %	98.0536 %	98.2574 %	105.0141 %	98.5362 %	102.7619 %	0.4681 ppm
Concentration per Run 1	99.4391 %	98.0840 %	97.8167 %	106.3268 %	98.1832 %	102.8319 %	0.4636 ppm
Concentration per Run 2	98.6632 %	98.3142 %	99.0513 %	105.1496 %	99.4129 %	102.9369 %	0.4725 ppm
Concentration per Run 3	96.7151 %	97.7627 %	97.9043 %	103.5660 %	98.0126 %	102.5167 %	0.4682 ppm
Recovery Percentage 1							93.623 %
Concentration RSD	1.4 %	0.3 %	0.7 %	1.3 %	0.8 %	0.2 %	1.0 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: CCB
Analysis started at: 3/12/2025 11:23:42 AM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	-0.0012 ppm	-0.0004 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0014 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0004 ppm
Concentration per Run 2	-0.0002 ppm	-0.0012 ppm	-0.0007 ppm	-0.0004 ppm	0.0000 ppm	0.0000 ppm	-0.0069 ppm
Concentration per Run 3	-0.0001 ppm	-0.0023 ppm	-0.0006 ppm	-0.0003 ppm	-0.0001 ppm	0.0000 ppm	0.0031 ppm
Recovery Percentage 1	-0.704 %	-1.163 %	-8.593 %	-0.826 %	-0.123 %	0.332 %	-1.421 %
Concentration RSD	332.6 %	95.6 %	87.3 %	71.5 %	446.0 %	122.6 %	356.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0006 ppm	-0.0002 ppm	0.0156 ppm	0.0000 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0007 ppm	-0.0005 ppm	0.0051 ppm	0.0016 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0008 ppm	-0.0003 ppm	0.0254 ppm	-0.0007 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0001 ppm	0.0164 ppm	-0.0010 ppm
Recovery Percentage 1	-0.119 %	-0.271 %	2.289 %	6.402 %	-0.445 %	0.625 %	-0.028 %
Concentration RSD	366.5 %	137.9 %	64.4 %	28.2 %	126.0 %	65.3 %	4,906.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0002 ppm	0.0001 ppm	0.0243 ppm	-0.0001 ppm	-0.0004 ppm	0.0002 ppm	-0.0013 ppm
Concentration per Run 1	-0.0002 ppm	0.0002 ppm	0.0261 ppm	0.0000 ppm	-0.0004 ppm	-0.0001 ppm	-0.0008 ppm
Concentration per Run 2	-0.0001 ppm	0.0002 ppm	0.0236 ppm	-0.0001 ppm	-0.0004 ppm	0.0002 ppm	-0.0012 ppm
Concentration per Run 3	-0.0004 ppm	-0.0001 ppm	0.0231 ppm	-0.0001 ppm	-0.0004 ppm	0.0005 ppm	-0.0018 ppm
Recovery Percentage 1	-2.051 %	0.222 %	1.213 %	-0.283 %	-4.027 %	0.386 %	-12.887 %
Concentration RSD	74.8 %	131.8 %	6.8 %	107.8 %	11.1 %	142.9 %	39.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0006 ppm	0.0004 ppm	0.0001 ppm	-0.0001 ppm	-0.0003 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 1	0.0005 ppm	0.0005 ppm	0.0001 ppm	-0.0001 ppm	-0.0005 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 2	0.0009 ppm	0.0003 ppm	0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 3	0.0005 ppm	0.0004 ppm	0.0001 ppm	-0.0003 ppm	-0.0006 ppm	0.0000 ppm	0.0001 ppm
Recovery Percentage 1	0.129 %	0.851 %	1.176 %	-0.803 %	-1.571 %	0.975 %	1.231 %
Concentration RSD	37.7 %	25.3 %	17.4 %	322.4 %	128.6 %	188.8 %	44.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.5998 %	98.5387 %	99.0224 %	103.4036 %	101.7226 %	102.6830 %	-0.0007 ppm
Concentration per Run 1	99.7727 %	99.5129 %	99.3809 %	103.6861 %	102.4351 %	103.3552 %	-0.0009 ppm
Concentration per Run 2	98.3980 %	96.5397 %	98.9302 %	103.3432 %	101.2590 %	101.2850 %	-0.0007 ppm
Concentration per Run 3	97.6286 %	99.5636 %	98.7560 %	103.1816 %	101.4735 %	103.4087 %	-0.0007 ppm
Recovery Percentage 1							-7.399 %
Concentration RSD	1.1 %	1.8 %	0.3 %	0.2 %	0.6 %	1.2 %	16.5 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: L2512486-01 WG2038644
Analysis started at: 3/12/2025 11:31:10 AM
Rack: 1
Vial: 13

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0037 ppm	-0.0005 ppm	0.0513 ppm	0.0643 ppm	0.0000 ppm	71.5075 ppm
Concentration per Run 1	-0.0003 ppm	0.0019 ppm	-0.0002 ppm	0.0525 ppm	0.0646 ppm	0.0000 ppm	71.9566 ppm
Concentration per Run 2	0.0000 ppm	0.0049 ppm	-0.0008 ppm	0.0506 ppm	0.0641 ppm	0.0000 ppm	71.0086 ppm
Concentration per Run 3	-0.0004 ppm	0.0044 ppm	-0.0003 ppm	0.0507 ppm	0.0642 ppm	0.0001 ppm	71.5573 ppm
Concentration RSD	81.9 %	42.3 %	73.3 %	2.1 %	0.4 %	501.6 %	0.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0002 ppm	0.0006 ppm	0.0004 ppm	0.0013 ppm	0.0043 ppm	1.2628 ppm	2.6640 ppm
Concentration per Run 1	0.0002 ppm	0.0005 ppm	0.0004 ppm	0.0011 ppm	0.0044 ppm	1.2729 ppm	2.6646 ppm
Concentration per Run 2	0.0002 ppm	0.0007 ppm	0.0003 ppm	0.0014 ppm	0.0044 ppm	1.2637 ppm	2.6604 ppm
Concentration per Run 3	0.0002 ppm	0.0004 ppm	0.0004 ppm	0.0014 ppm	0.0040 ppm	1.2518 ppm	2.6670 ppm
Concentration RSD	20.5 %	23.6 %	14.5 %	11.9 %	5.3 %	0.8 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.2888 ppm	0.0018 ppm	134.6218 ppm	0.0053 ppm	-0.0019 ppm	0.0000 ppm	-0.0006 ppm
Concentration per Run 1	0.2908 ppm	0.0021 ppm	134.5459 ppm	0.0051 ppm	-0.0018 ppm	-0.0002 ppm	-0.0020 ppm
Concentration per Run 2	0.2873 ppm	0.0016 ppm	133.2265 ppm	0.0054 ppm	-0.0024 ppm	-0.0001 ppm	-0.0004 ppm
Concentration per Run 3	0.2885 ppm	0.0017 ppm	136.0929 ppm	0.0053 ppm	-0.0016 ppm	0.0003 ppm	0.0007 ppm
Concentration RSD	0.6 %	15.1 %	1.1 %	2.6 %	20.8 %	1,363.4 %	239.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.7907 ppm	0.0011 ppm	0.1599 ppm	0.0002 ppm	-0.0045 ppm	0.0017 ppm	0.0731 ppm
Concentration per Run 1	2.8714 ppm	0.0012 ppm	0.1607 ppm	0.0006 ppm	-0.0040 ppm	0.0018 ppm	0.0757 ppm
Concentration per Run 2	2.7590 ppm	0.0012 ppm	0.1595 ppm	0.0002 ppm	-0.0039 ppm	0.0017 ppm	0.0721 ppm
Concentration per Run 3	2.7418 ppm	0.0008 ppm	0.1594 ppm	-0.0001 ppm	-0.0057 ppm	0.0015 ppm	0.0715 ppm
Concentration RSD	2.5 %	19.7 %	0.5 %	152.5 %	22.0 %	8.5 %	3.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	95.3940 %	93.2936 %	90.5916 %	101.4878 %	84.2279 %	97.5527 %	0.0041 ppm
Concentration per Run 1	94.4204 %	93.6142 %	88.9577 %	100.7137 %	82.1992 %	97.8053 %	0.0040 ppm
Concentration per Run 2	95.8937 %	93.1129 %	91.5204 %	102.4537 %	84.9786 %	97.4305 %	0.0045 ppm
Concentration per Run 3	95.8679 %	93.1537 %	91.2968 %	101.2959 %	85.5060 %	97.4222 %	0.0039 ppm
Concentration RSD	0.9 %	0.3 %	1.6 %	0.9 %	2.1 %	0.2 %	7.5 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: L2512752-02 WG2038644
Analysis started at: 3/12/2025 11:37:48 AM
Rack: 1
Vial: 14

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0574 ppm	-0.0002 ppm	0.0051 ppm	0.0325 ppm	0.0000 ppm	14.0379 ppm
Concentration per Run 1	0.0001 ppm	0.0566 ppm	-0.0008 ppm	0.0053 ppm	0.0328 ppm	0.0000 ppm	14.1877 ppm
Concentration per Run 2	0.0001 ppm	0.0625 ppm	0.0009 ppm	0.0051 ppm	0.0325 ppm	0.0000 ppm	14.0946 ppm
Concentration per Run 3	-0.0003 ppm	0.0529 ppm	-0.0006 ppm	0.0050 ppm	0.0321 ppm	0.0000 ppm	13.8312 ppm
Concentration RSD	935.9 %	8.4 %	526.0 %	2.9 %	1.0 %	58.7 %	1.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0003 ppm	0.0003 ppm	0.0622 ppm	0.0041 ppm	0.3600 ppm	0.5531 ppm	0.7771 ppm
Concentration per Run 1	0.0003 ppm	0.0002 ppm	0.0624 ppm	0.0040 ppm	0.3611 ppm	0.5595 ppm	0.7774 ppm
Concentration per Run 2	0.0003 ppm	0.0002 ppm	0.0620 ppm	0.0040 ppm	0.3636 ppm	0.5506 ppm	0.7782 ppm
Concentration per Run 3	0.0003 ppm	0.0004 ppm	0.0621 ppm	0.0042 ppm	0.3552 ppm	0.5491 ppm	0.7758 ppm
Concentration RSD	13.1 %	38.6 %	0.3 %	2.6 %	1.2 %	1.0 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1460 ppm	0.0004 ppm	132.5679 ppm	0.0021 ppm	0.0070 ppm	-0.0018 ppm	-0.0008 ppm
Concentration per Run 1	0.1472 ppm	0.0004 ppm	131.7969 ppm	0.0021 ppm	0.0072 ppm	-0.0019 ppm	-0.0022 ppm
Concentration per Run 2	0.1467 ppm	0.0003 ppm	132.2863 ppm	0.0020 ppm	0.0068 ppm	-0.0020 ppm	-0.0006 ppm
Concentration per Run 3	0.1440 ppm	0.0004 ppm	133.6205 ppm	0.0021 ppm	0.0069 ppm	-0.0017 ppm	0.0004 ppm
Concentration RSD	1.2 %	13.7 %	0.7 %	3.3 %	3.0 %	8.7 %	164.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.1765 ppm	0.0009 ppm	0.0641 ppm	0.0002 ppm	-0.0036 ppm	0.0005 ppm	0.0111 ppm
Concentration per Run 1	1.1644 ppm	0.0005 ppm	0.0646 ppm	0.0003 ppm	-0.0031 ppm	0.0005 ppm	0.0109 ppm
Concentration per Run 2	1.1686 ppm	0.0010 ppm	0.0644 ppm	0.0000 ppm	-0.0033 ppm	0.0006 ppm	0.0111 ppm
Concentration per Run 3	1.1964 ppm	0.0011 ppm	0.0632 ppm	0.0004 ppm	-0.0043 ppm	0.0004 ppm	0.0112 ppm
Concentration RSD	1.5 %	34.5 %	1.2 %	87.0 %	17.6 %	24.3 %	1.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	96.1610 %	94.3396 %	93.2309 %	102.3526 %	87.2292 %	98.7487 %	0.0013 ppm
Concentration per Run 1	96.3367 %	94.1695 %	93.6282 %	101.3667 %	88.1012 %	98.6939 %	0.0015 ppm
Concentration per Run 2	95.6630 %	94.3939 %	93.7366 %	102.1453 %	87.8625 %	98.7191 %	0.0013 ppm
Concentration per Run 3	96.4833 %	94.4552 %	92.3279 %	103.5458 %	85.7239 %	98.8332 %	0.0012 ppm
Concentration RSD	0.5 %	0.2 %	0.8 %	1.1 %	1.5 %	0.1 %	10.7 %

LabBook: WG2039408_03122025T6.imexp

Sample: CCV
Analysis started at: 3/12/2025 11:44:29 AM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4783 ppm	0.4830 ppm	0.4795 ppm	0.4730 ppm	0.4566 ppm	0.4793 ppm	0.5039 ppm
Concentration per Run 1	0.4812 ppm	0.4745 ppm	0.4746 ppm	0.4676 ppm	0.4513 ppm	0.4721 ppm	0.4938 ppm
Concentration per Run 2	0.4664 ppm	0.4836 ppm	0.4850 ppm	0.4801 ppm	0.4585 ppm	0.4831 ppm	0.5137 ppm
Concentration per Run 3	0.4872 ppm	0.4909 ppm	0.4788 ppm	0.4714 ppm	0.4600 ppm	0.4826 ppm	0.5043 ppm
Recovery Percentage 1	95.658 %	96.601 %	95.899 %	94.601 %	91.317 %	95.857 %	100.789 %
Concentration RSD	2.2 %	1.7 %	1.1 %	1.4 %	1.0 %	1.3 %	2.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4648 ppm	0.4629 ppm	0.4700 ppm	0.4915 ppm	0.4891 ppm	4.8862 ppm	0.4950 ppm
Concentration per Run 1	0.4641 ppm	0.4611 ppm	0.4747 ppm	0.4921 ppm	0.4770 ppm	4.8149 ppm	0.4996 ppm
Concentration per Run 2	0.4716 ppm	0.4697 ppm	0.4579 ppm	0.4848 ppm	0.4944 ppm	4.9096 ppm	0.4827 ppm
Concentration per Run 3	0.4586 ppm	0.4579 ppm	0.4775 ppm	0.4975 ppm	0.4958 ppm	4.9342 ppm	0.5028 ppm
Recovery Percentage 1	92.956 %	92.579 %	94.009 %	98.291 %	97.814 %	97.725 %	99.002 %
Concentration RSD	1.4 %	1.3 %	2.3 %	1.3 %	2.1 %	1.3 %	2.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4760 ppm	0.4671 ppm	9.5451 ppm	0.4749 ppm	0.4831 ppm	0.4651 ppm	0.4824 ppm
Concentration per Run 1	0.4684 ppm	0.4650 ppm	9.4415 ppm	0.4738 ppm	0.4810 ppm	0.4624 ppm	0.4771 ppm
Concentration per Run 2	0.4804 ppm	0.4728 ppm	9.5772 ppm	0.4815 ppm	0.4897 ppm	0.4720 ppm	0.4888 ppm
Concentration per Run 3	0.4793 ppm	0.4634 ppm	9.6165 ppm	0.4694 ppm	0.4785 ppm	0.4608 ppm	0.4814 ppm
Recovery Percentage 1	95.204 %	93.414 %	95.451 %	94.983 %	96.611 %	93.014 %	96.482 %
Concentration RSD	1.4 %	1.1 %	1.0 %	1.3 %	1.2 %	1.3 %	1.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.2980 ppm	0.4705 ppm	0.4616 ppm	0.4650 ppm	0.4794 ppm	0.4844 ppm	0.4601 ppm
Concentration per Run 1	5.2675 ppm	0.4682 ppm	0.4563 ppm	0.4678 ppm	0.4761 ppm	0.4808 ppm	0.4595 ppm
Concentration per Run 2	5.3659 ppm	0.4768 ppm	0.4634 ppm	0.4520 ppm	0.4858 ppm	0.4901 ppm	0.4670 ppm
Concentration per Run 3	5.2607 ppm	0.4663 ppm	0.4649 ppm	0.4751 ppm	0.4763 ppm	0.4824 ppm	0.4536 ppm
Recovery Percentage 1	100.915 %	94.090 %	92.311 %	92.996 %	95.884 %	96.885 %	92.011 %
Concentration RSD	1.1 %	1.2 %	1.0 %	2.5 %	1.2 %	1.0 %	1.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	97.6049 %	98.2231 %	97.1156 %	105.5697 %	96.9290 %	103.8211 %	0.4638 ppm
Concentration per Run 1	98.8495 %	97.5177 %	97.9361 %	107.5499 %	97.1295 %	102.9864 %	0.4578 ppm
Concentration per Run 2	96.5243 %	99.6348 %	95.8288 %	104.2366 %	95.8186 %	106.5848 %	0.4636 ppm
Concentration per Run 3	97.4411 %	97.5169 %	97.5818 %	104.9224 %	97.8388 %	101.8920 %	0.4699 ppm
Recovery Percentage 1							92.751 %
Concentration RSD	1.2 %	1.2 %	1.2 %	1.7 %	1.1 %	2.4 %	1.3 %

LabBook: WG2039408_03122025T6.imexp

Sample: CCB
Analysis started at: 3/12/2025 11:50:49 AM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	-0.0006 ppm	-0.0005 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0012 ppm
Concentration per Run 1	0.0001 ppm	0.0057 ppm	-0.0025 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0040 ppm
Concentration per Run 2	-0.0001 ppm	-0.0054 ppm	0.0009 ppm	-0.0001 ppm	-0.0001 ppm	0.0001 ppm	-0.0056 ppm
Concentration per Run 3	0.0001 ppm	-0.0022 ppm	0.0003 ppm	-0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0051 ppm
Recovery Percentage 1	0.252 %	-0.619 %	-9.096 %	-0.369 %	0.441 %	0.856 %	1.168 %
Concentration RSD	605.3 %	916.9 %	396.5 %	50.2 %	270.1 %	44.2 %	504.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0006 ppm	-0.0001 ppm	-0.0004 ppm	0.0012 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0006 ppm	0.0005 ppm	0.0076 ppm	0.0017 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0006 ppm	0.0011 ppm	0.0312 ppm	0.0004 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0005 ppm	-0.0019 ppm	-0.0399 ppm	0.0014 ppm
Recovery Percentage 1	-0.194 %	0.195 %	2.117 %	5.960 %	-0.160 %	-0.015 %	1.162 %
Concentration RSD	214.7 %	187.2 %	86.2 %	7.1 %	2,010.4 %	9,807.5 %	59.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0002 ppm	0.0002 ppm	0.0208 ppm	-0.0001 ppm	-0.0002 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 1	-0.0001 ppm	0.0004 ppm	0.0202 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm	-0.0006 ppm
Concentration per Run 2	-0.0002 ppm	0.0002 ppm	0.0200 ppm	-0.0003 ppm	-0.0003 ppm	-0.0001 ppm	0.0010 ppm
Concentration per Run 3	-0.0002 ppm	0.0000 ppm	0.0222 ppm	0.0000 ppm	-0.0003 ppm	-0.0003 ppm	0.0006 ppm
Recovery Percentage 1	-1.601 %	0.428 %	1.041 %	-0.329 %	-1.789 %	-0.008 %	3.159 %
Concentration RSD	33.1 %	80.3 %	5.7 %	236.1 %	100.7 %	9,457.2 %	256.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0016 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 1	0.0013 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0009 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 2	0.0020 ppm	0.0001 ppm	0.0001 ppm	-0.0002 ppm	-0.0007 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 3	0.0013 ppm	0.0002 ppm	0.0000 ppm	-0.0001 ppm	0.0006 ppm	0.0001 ppm	0.0000 ppm
Recovery Percentage 1	0.311 %	0.170 %	0.141 %	-1.180 %	1.294 %	0.657 %	-0.021 %
Concentration RSD	24.9 %	137.4 %	485.3 %	38.1 %	325.6 %	101.2 %	1,455.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.7677 %	99.2354 %	98.2033 %	103.5888 %	101.3616 %	103.3406 %	0.0001 ppm
Concentration per Run 1	100.1112 %	100.8078 %	99.0370 %	104.1563 %	102.4052 %	105.3208 %	0.0000 ppm
Concentration per Run 2	98.1281 %	98.3414 %	97.1323 %	103.1364 %	99.9758 %	101.9183 %	0.0005 ppm
Concentration per Run 3	98.0638 %	98.5570 %	98.4407 %	103.4738 %	101.7038 %	102.7827 %	-0.0002 ppm
Recovery Percentage 1							0.924 %
Concentration RSD	1.2 %	1.4 %	1.0 %	0.5 %	1.2 %	1.7 %	405.5 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: WG2038726-1 WG2038726
Analysis started at: 3/12/2025 12:11:26 PM
Rack: 1
Vial: 15

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0027 ppm	-0.0009 ppm	-0.0008 ppm	0.0000 ppm	0.0000 ppm	0.0102 ppm
Concentration per Run 1	0.0001 ppm	-0.0024 ppm	-0.0012 ppm	-0.0006 ppm	-0.0001 ppm	0.0000 ppm	0.0105 ppm
Concentration per Run 2	0.0000 ppm	0.0060 ppm	-0.0011 ppm	-0.0009 ppm	-0.0001 ppm	0.0000 ppm	0.0117 ppm
Concentration per Run 3	-0.0001 ppm	0.0044 ppm	-0.0005 ppm	-0.0010 ppm	0.0002 ppm	0.0000 ppm	0.0084 ppm
Concentration RSD	7,047.2 %	166.8 %	40.6 %	28.0 %	1,045.8 %	89.5 %	16.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0012 ppm	0.0069 ppm	-0.0090 ppm	0.0032 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0012 ppm	0.0075 ppm	0.0055 ppm	0.0017 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0013 ppm	0.0053 ppm	-0.0101 ppm	0.0027 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0012 ppm	0.0079 ppm	-0.0224 ppm	0.0053 ppm
Concentration RSD	93.9 %	36.8 %	161.5 %	5.7 %	20.0 %	156.0 %	58.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	-0.0004 ppm	0.0134 ppm	0.0000 ppm	0.0001 ppm	-0.0016 ppm	-0.0019 ppm
Concentration per Run 1	0.0002 ppm	-0.0005 ppm	0.0145 ppm	0.0000 ppm	0.0001 ppm	-0.0024 ppm	-0.0021 ppm
Concentration per Run 2	-0.0001 ppm	-0.0003 ppm	0.0126 ppm	0.0001 ppm	0.0001 ppm	-0.0011 ppm	-0.0011 ppm
Concentration per Run 3	-0.0002 ppm	-0.0003 ppm	0.0132 ppm	-0.0002 ppm	0.0000 ppm	-0.0014 ppm	-0.0026 ppm
Concentration RSD	756.2 %	26.2 %	7.2 %	588.4 %	77.7 %	42.4 %	39.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0076 ppm	0.0003 ppm	0.0001 ppm	-0.0001 ppm	-0.0002 ppm	0.0000 ppm	0.0004 ppm
Concentration per Run 1	0.0078 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	-0.0006 ppm	0.0000 ppm	0.0005 ppm
Concentration per Run 2	0.0079 ppm	0.0004 ppm	0.0001 ppm	-0.0002 ppm	0.0004 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 3	0.0071 ppm	0.0004 ppm	0.0001 ppm	0.0001 ppm	-0.0003 ppm	-0.0001 ppm	0.0004 ppm
Concentration RSD	5.7 %	97.1 %	13.1 %	213.6 %	260.8 %	67.0 %	33.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.7479 %	98.3016 %	97.4183 %	113.0562 %	102.2412 %	104.6955 %	-0.0005 ppm
Concentration per Run 1	101.5790 %	97.6739 %	96.6886 %	115.4499 %	102.3722 %	105.0105 %	0.0002 ppm
Concentration per Run 2	98.9236 %	99.1861 %	97.6159 %	112.7023 %	102.2231 %	104.9307 %	-0.0013 ppm
Concentration per Run 3	98.7410 %	98.0447 %	97.9505 %	111.0165 %	102.1284 %	104.1452 %	-0.0005 ppm
Concentration RSD	1.6 %	0.8 %	0.7 %	2.0 %	0.1 %	0.5 %	146.3 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: WG2038726-2 WG2038726
Analysis started at: 3/12/2025 12:28:57 PM
Rack: 1
Vial: 16

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0506 ppm	1.8217 ppm	0.1107 ppm	0.9247 ppm	1.7083 ppm	0.0439 ppm	8.8628 ppm
Concentration per Run 1	0.0504 ppm	1.7315 ppm	0.1108 ppm	0.9236 ppm	1.6313 ppm	0.0419 ppm	8.4655 ppm
Concentration per Run 2	0.0510 ppm	1.8446 ppm	0.1113 ppm	0.9246 ppm	1.7221 ppm	0.0443 ppm	8.9706 ppm
Concentration per Run 3	0.0505 ppm	1.8889 ppm	0.1099 ppm	0.9259 ppm	1.7716 ppm	0.0455 ppm	9.1524 ppm
Concentration RSD	0.6 %	4.5 %	0.7 %	0.1 %	4.2 %	4.2 %	4.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0495 ppm	0.4566 ppm	0.1907 ppm	0.2662 ppm	0.9015 ppm	8.8718 ppm	9.7885 ppm
Concentration per Run 1	0.0493 ppm	0.4552 ppm	0.1912 ppm	0.2652 ppm	0.8593 ppm	8.4531 ppm	9.7726 ppm
Concentration per Run 2	0.0496 ppm	0.4575 ppm	0.1898 ppm	0.2663 ppm	0.9092 ppm	8.9612 ppm	9.7725 ppm
Concentration per Run 3	0.0495 ppm	0.4571 ppm	0.1913 ppm	0.2672 ppm	0.9360 ppm	9.2011 ppm	9.8203 ppm
Concentration RSD	0.3 %	0.3 %	0.5 %	0.4 %	4.3 %	4.3 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4490 ppm	0.8895 ppm	9.0392 ppm	0.4749 ppm	0.5028 ppm	0.4522 ppm	0.1087 ppm
Concentration per Run 1	0.4288 ppm	0.8829 ppm	8.6203 ppm	0.4737 ppm	0.5017 ppm	0.4492 ppm	0.1082 ppm
Concentration per Run 2	0.4536 ppm	0.8908 ppm	9.1214 ppm	0.4758 ppm	0.5035 ppm	0.4532 ppm	0.1080 ppm
Concentration per Run 3	0.4647 ppm	0.8947 ppm	9.3761 ppm	0.4751 ppm	0.5033 ppm	0.4542 ppm	0.1099 ppm
Concentration RSD	4.1 %	0.7 %	4.3 %	0.2 %	0.2 %	0.6 %	0.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.0405 ppm	0.8887 ppm	0.8184 ppm	0.9063 ppm	0.1059 ppm	0.5051 ppm	0.4537 ppm
Concentration per Run 1	1.0356 ppm	0.8864 ppm	0.7813 ppm	0.9044 ppm	0.1062 ppm	0.5056 ppm	0.4528 ppm
Concentration per Run 2	1.0418 ppm	0.8907 ppm	0.8248 ppm	0.9051 ppm	0.1062 ppm	0.5059 ppm	0.4554 ppm
Concentration per Run 3	1.0441 ppm	0.8891 ppm	0.8492 ppm	0.9093 ppm	0.1053 ppm	0.5039 ppm	0.4530 ppm
Concentration RSD	0.4 %	0.2 %	4.2 %	0.3 %	0.5 %	0.2 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.1726 %	96.4732 %	95.8685 %	118.4563 %	97.9543 %	104.4769 %	-0.0001 ppm
Concentration per Run 1	100.3985 %	96.4182 %	96.0431 %	124.1911 %	98.3847 %	104.7582 %	0.0000 ppm
Concentration per Run 2	96.9377 %	96.7899 %	95.7733 %	116.8936 %	97.8322 %	104.8061 %	-0.0004 ppm
Concentration per Run 3	97.1818 %	96.2115 %	95.7891 %	114.2841 %	97.6460 %	103.8662 %	0.0000 ppm
Concentration RSD	2.0 %	0.3 %	0.2 %	4.3 %	0.4 %	0.5 %	171.7 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: WG2038726-2 WG2038726
Analysis started at: 3/12/2025 12:35:12 PM
Rack: 1
Vial: 17

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0022 ppm	-0.0012 ppm	0.0007 ppm	0.0001 ppm	0.0000 ppm	0.0460 ppm
Concentration per Run 1	-0.0002 ppm	-0.0005 ppm	-0.0005 ppm	0.0011 ppm	0.0002 ppm	0.0000 ppm	0.0469 ppm
Concentration per Run 2	0.0000 ppm	0.0072 ppm	-0.0023 ppm	0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0476 ppm
Concentration per Run 3	0.0003 ppm	-0.0001 ppm	-0.0008 ppm	0.0006 ppm	0.0001 ppm	0.0000 ppm	0.0435 ppm
Concentration RSD	870.1 %	198.9 %	76.7 %	44.7 %	87.8 %	441.1 %	4.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0004 ppm	0.0007 ppm	0.0027 ppm	0.0062 ppm	0.0031 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0005 ppm	0.0008 ppm	0.0018 ppm	-0.0015 ppm	0.0028 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0007 ppm	0.0035 ppm	-0.0107 ppm	0.0031 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0004 ppm	0.0007 ppm	0.0029 ppm	0.0306 ppm	0.0036 ppm
Concentration RSD	259.1 %	27.8 %	24.3 %	5.9 %	31.9 %	351.9 %	12.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0020 ppm	0.0122 ppm	0.0000 ppm	-0.0005 ppm	0.0007 ppm	-0.0011 ppm
Concentration per Run 1	0.0000 ppm	0.0023 ppm	0.0164 ppm	0.0000 ppm	-0.0005 ppm	0.0006 ppm	-0.0033 ppm
Concentration per Run 2	0.0003 ppm	0.0019 ppm	0.0119 ppm	0.0001 ppm	-0.0012 ppm	0.0003 ppm	-0.0009 ppm
Concentration per Run 3	0.0001 ppm	0.0017 ppm	0.0082 ppm	-0.0001 ppm	0.0000 ppm	0.0011 ppm	0.0009 ppm
Concentration RSD	112.8 %	14.7 %	33.4 %	2,712.1 %	115.8 %	58.5 %	195.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0099 ppm	0.0007 ppm	0.0001 ppm	0.0001 ppm	-0.0014 ppm	0.0000 ppm	0.0029 ppm
Concentration per Run 1	0.0103 ppm	0.0010 ppm	0.0001 ppm	0.0000 ppm	-0.0018 ppm	-0.0001 ppm	0.0029 ppm
Concentration per Run 2	0.0098 ppm	0.0007 ppm	0.0001 ppm	0.0000 ppm	-0.0008 ppm	0.0000 ppm	0.0029 ppm
Concentration per Run 3	0.0097 ppm	0.0004 ppm	0.0002 ppm	0.0002 ppm	-0.0015 ppm	0.0002 ppm	0.0029 ppm
Concentration RSD	2.9 %	41.9 %	33.3 %	246.3 %	37.8 %	1,090.1 %	0.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.9847 %	99.9105 %	99.5628 %	100.8541 %	100.2387 %	103.5999 %	0.9871 ppm
Concentration per Run 1	99.9558 %	99.6946 %	98.7200 %	99.9658 %	99.4435 %	103.1790 %	0.9840 ppm
Concentration per Run 2	98.6095 %	100.1930 %	100.1169 %	100.7871 %	100.4544 %	103.9877 %	0.9939 ppm
Concentration per Run 3	98.3887 %	99.8440 %	99.8515 %	101.8094 %	100.8181 %	103.6329 %	0.9835 ppm
Concentration RSD	0.9 %	0.3 %	0.7 %	0.9 %	0.7 %	0.4 %	0.6 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: WG2038726-2 WG2038726
Analysis started at: 3/12/2025 12:41:50 PM
Rack: 1
Vial: 18

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0053 ppm	-0.0017 ppm	0.0001 ppm	0.0020 ppm	0.0000 ppm	0.0115 ppm
Concentration per Run 1	0.0001 ppm	0.0104 ppm	-0.0013 ppm	0.0000 ppm	0.0020 ppm	0.0000 ppm	0.0084 ppm
Concentration per Run 2	0.0000 ppm	0.0012 ppm	-0.0018 ppm	0.0001 ppm	0.0019 ppm	0.0000 ppm	0.0154 ppm
Concentration per Run 3	-0.0002 ppm	0.0044 ppm	-0.0020 ppm	0.0001 ppm	0.0020 ppm	0.0001 ppm	0.0108 ppm
Concentration RSD	2,494.6 %	88.2 %	21.1 %	94.9 %	2.9 %	34.2 %	30.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0007 ppm	0.0018 ppm	-0.0019 ppm	0.0025 ppm
Concentration per Run 1	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0009 ppm	0.0031 ppm	-0.0165 ppm	0.0024 ppm
Concentration per Run 2	0.0001 ppm	0.0004 ppm	0.0004 ppm	0.0007 ppm	0.0015 ppm	-0.0059 ppm	0.0023 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0003 ppm	0.0006 ppm	0.0009 ppm	0.0168 ppm	0.0027 ppm
Concentration RSD	48.7 %	65.6 %	22.0 %	20.5 %	62.6 %	904.5 %	9.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0004 ppm	0.0002 ppm	0.0053 ppm	0.0004 ppm	-0.0010 ppm	0.0001 ppm	-0.0010 ppm
Concentration per Run 1	0.0004 ppm	0.0003 ppm	0.0013 ppm	0.0006 ppm	-0.0008 ppm	0.0002 ppm	-0.0005 ppm
Concentration per Run 2	0.0006 ppm	0.0002 ppm	0.0093 ppm	0.0001 ppm	-0.0012 ppm	0.0001 ppm	-0.0011 ppm
Concentration per Run 3	0.0003 ppm	0.0002 ppm	0.0052 ppm	0.0005 ppm	-0.0011 ppm	-0.0002 ppm	-0.0014 ppm
Concentration RSD	35.7 %	20.7 %	75.5 %	56.9 %	22.1 %	368.4 %	44.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.9990 ppm	0.0003 ppm	0.0000 ppm	-0.0002 ppm	-0.0014 ppm	0.0004 ppm	0.0004 ppm
Concentration per Run 1	0.9983 ppm	0.0004 ppm	0.0001 ppm	-0.0002 ppm	-0.0011 ppm	0.0004 ppm	0.0004 ppm
Concentration per Run 2	1.0021 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0016 ppm	0.0004 ppm	0.0005 ppm
Concentration per Run 3	0.9967 ppm	0.0004 ppm	0.0001 ppm	-0.0001 ppm	-0.0016 ppm	0.0006 ppm	0.0004 ppm
Concentration RSD	0.3 %	51.1 %	188.4 %	26.0 %	19.2 %	22.6 %	10.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.6254 %	100.4956 %	100.3533 %	103.0557 %	101.7475 %	103.7733 %	-0.0005 ppm
Concentration per Run 1	101.7704 %	98.3981 %	100.6780 %	103.7203 %	102.0055 %	102.1336 %	-0.0017 ppm
Concentration per Run 2	98.2065 %	101.8475 %	100.1672 %	102.0783 %	101.5089 %	104.8870 %	0.0005 ppm
Concentration per Run 3	98.8994 %	101.2412 %	100.2147 %	103.3686 %	101.7282 %	104.2991 %	-0.0003 ppm
Concentration RSD	1.9 %	1.8 %	0.3 %	0.8 %	0.2 %	1.4 %	231.3 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: L2500778-40 WG2038726
Analysis started at: 3/12/2025 12:48:26 PM
Rack: 1
Vial: 19

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0112 ppm	-0.0013 ppm	0.0059 ppm	0.0124 ppm	0.0000 ppm	59.7228 ppm
Concentration per Run 1	0.0001 ppm	0.0154 ppm	-0.0013 ppm	0.0064 ppm	0.0125 ppm	0.0000 ppm	60.0067 ppm
Concentration per Run 2	0.0003 ppm	0.0078 ppm	-0.0017 ppm	0.0056 ppm	0.0123 ppm	0.0000 ppm	59.8822 ppm
Concentration per Run 3	-0.0003 ppm	0.0105 ppm	-0.0009 ppm	0.0056 ppm	0.0123 ppm	0.0000 ppm	59.2796 ppm
Concentration RSD	10,209.8 %	34.7 %	32.7 %	7.7 %	0.9 %	1,543.0 %	0.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0001 ppm	-0.0002 ppm	0.0014 ppm	0.0007 ppm	0.0126 ppm	9.2250 ppm	8.2705 ppm
Concentration per Run 1	0.0000 ppm	-0.0004 ppm	0.0013 ppm	0.0007 ppm	0.0134 ppm	9.2922 ppm	8.2832 ppm
Concentration per Run 2	-0.0001 ppm	-0.0002 ppm	0.0015 ppm	0.0008 ppm	0.0123 ppm	9.2196 ppm	8.2834 ppm
Concentration per Run 3	-0.0001 ppm	-0.0002 ppm	0.0013 ppm	0.0007 ppm	0.0120 ppm	9.1632 ppm	8.2450 ppm
Concentration RSD	34.2 %	52.9 %	8.1 %	7.3 %	5.7 %	0.7 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0089 ppm	0.0043 ppm	34.4581 ppm	-0.0001 ppm	-0.0028 ppm	-0.0005 ppm	-0.0011 ppm
Concentration per Run 1	0.0088 ppm	0.0043 ppm	34.6452 ppm	-0.0003 ppm	-0.0031 ppm	-0.0012 ppm	-0.0007 ppm
Concentration per Run 2	0.0091 ppm	0.0045 ppm	34.4395 ppm	0.0000 ppm	-0.0026 ppm	-0.0005 ppm	-0.0023 ppm
Concentration per Run 3	0.0088 ppm	0.0040 ppm	34.2897 ppm	-0.0002 ppm	-0.0027 ppm	0.0003 ppm	-0.0004 ppm
Concentration RSD	1.8 %	4.9 %	0.5 %	110.2 %	7.8 %	153.6 %	91.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.5283 ppm	0.0000 ppm	0.2584 ppm	0.0008 ppm	-0.0005 ppm	0.0003 ppm	0.0006 ppm
Concentration per Run 1	5.5710 ppm	0.0001 ppm	0.2592 ppm	0.0007 ppm	-0.0009 ppm	0.0003 ppm	0.0006 ppm
Concentration per Run 2	5.5126 ppm	0.0000 ppm	0.2590 ppm	0.0011 ppm	-0.0005 ppm	0.0003 ppm	0.0006 ppm
Concentration per Run 3	5.5012 ppm	-0.0001 ppm	0.2570 ppm	0.0006 ppm	-0.0002 ppm	0.0002 ppm	0.0005 ppm
Concentration RSD	0.7 %	464.6 %	0.5 %	37.9 %	67.3 %	19.6 %	15.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.1403 %	97.7007 %	96.1119 %	98.6609 %	94.8696 %	99.0930 %	0.0044 ppm
Concentration per Run 1	100.9551 %	97.8398 %	95.8263 %	98.1072 %	94.4964 %	99.1741 %	0.0042 ppm
Concentration per Run 2	98.0174 %	97.3412 %	96.2117 %	98.2711 %	94.9990 %	98.7104 %	0.0050 ppm
Concentration per Run 3	98.4485 %	97.9211 %	96.2978 %	99.6043 %	95.1133 %	99.3944 %	0.0041 ppm
Concentration RSD	1.6 %	0.3 %	0.3 %	0.8 %	0.3 %	0.4 %	11.0 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: WG2038726-3 WG2038726
Analysis started at: 3/12/2025 12:55:00 PM
Rack: 1
Vial: 20

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0519 ppm	2.1049 ppm	0.1143 ppm	0.9683 ppm	1.9972 ppm	0.0510 ppm	68.7983 ppm
Concentration per Run 1	0.0521 ppm	2.0943 ppm	0.1148 ppm	0.9691 ppm	1.9927 ppm	0.0509 ppm	68.6164 ppm
Concentration per Run 2	0.0520 ppm	2.1231 ppm	0.1129 ppm	0.9608 ppm	2.0068 ppm	0.0512 ppm	69.3165 ppm
Concentration per Run 3	0.0518 ppm	2.0974 ppm	0.1151 ppm	0.9752 ppm	1.9922 ppm	0.0508 ppm	68.4620 ppm
Concentration RSD	0.3 %	0.8 %	1.1 %	0.7 %	0.4 %	0.4 %	0.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0505 ppm	0.4695 ppm	0.1968 ppm	0.2582 ppm	1.0346 ppm	19.9600 ppm	18.3533 ppm
Concentration per Run 1	0.0510 ppm	0.4722 ppm	0.1973 ppm	0.2582 ppm	1.0302 ppm	20.0121 ppm	18.3628 ppm
Concentration per Run 2	0.0499 ppm	0.4657 ppm	0.1972 ppm	0.2577 ppm	1.0404 ppm	20.0358 ppm	18.3504 ppm
Concentration per Run 3	0.0506 ppm	0.4708 ppm	0.1961 ppm	0.2586 ppm	1.0333 ppm	19.8322 ppm	18.3467 ppm
Concentration RSD	1.0 %	0.7 %	0.3 %	0.2 %	0.5 %	0.6 %	0.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5196 ppm	0.9044 ppm	44.5059 ppm	0.4776 ppm	0.5044 ppm	0.4761 ppm	0.1157 ppm
Concentration per Run 1	0.5169 ppm	0.9030 ppm	44.5835 ppm	0.4800 ppm	0.5068 ppm	0.4746 ppm	0.1154 ppm
Concentration per Run 2	0.5235 ppm	0.8969 ppm	44.6382 ppm	0.4739 ppm	0.5003 ppm	0.4734 ppm	0.1160 ppm
Concentration per Run 3	0.5184 ppm	0.9134 ppm	44.2961 ppm	0.4788 ppm	0.5062 ppm	0.4804 ppm	0.1157 ppm
Concentration RSD	0.7 %	0.9 %	0.4 %	0.7 %	0.7 %	0.8 %	0.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	6.6875 ppm	0.9174 ppm	1.2220 ppm	0.9730 ppm	0.1077 ppm	0.4986 ppm	0.4745 ppm
Concentration per Run 1	6.7009 ppm	0.9219 ppm	1.2192 ppm	0.9750 ppm	0.1071 ppm	0.4992 ppm	0.4797 ppm
Concentration per Run 2	6.6466 ppm	0.9095 ppm	1.2277 ppm	0.9727 ppm	0.1065 ppm	0.4951 ppm	0.4693 ppm
Concentration per Run 3	6.7151 ppm	0.9209 ppm	1.2192 ppm	0.9712 ppm	0.1095 ppm	0.5014 ppm	0.4745 ppm
Concentration RSD	0.5 %	0.7 %	0.4 %	0.2 %	1.5 %	0.6 %	1.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.8550 %	97.2325 %	95.8657 %	101.4137 %	93.7083 %	99.2164 %	0.0037 ppm
Concentration per Run 1	101.3675 %	97.0844 %	95.7244 %	101.9448 %	93.5226 %	99.0459 %	0.0044 ppm
Concentration per Run 2	97.2190 %	97.2796 %	96.5042 %	100.4018 %	94.0739 %	99.2108 %	0.0038 ppm
Concentration per Run 3	97.9784 %	97.3335 %	95.3686 %	101.8945 %	93.5285 %	99.3927 %	0.0030 ppm
Concentration RSD	2.2 %	0.1 %	0.6 %	0.9 %	0.3 %	0.2 %	19.2 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: WG2038726-4 WG2038726
Analysis started at: 3/12/2025 1:01:16 PM
Rack: 1
Vial: 21

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0094 ppm	-0.0005 ppm	0.0072 ppm	0.0122 ppm	0.0000 ppm	58.5417 ppm
Concentration per Run 1	-0.0005 ppm	0.0078 ppm	0.0000 ppm	0.0075 ppm	0.0122 ppm	0.0000 ppm	58.9022 ppm
Concentration per Run 2	-0.0003 ppm	0.0117 ppm	0.0000 ppm	0.0070 ppm	0.0123 ppm	0.0000 ppm	58.4976 ppm
Concentration per Run 3	0.0002 ppm	0.0089 ppm	-0.0016 ppm	0.0071 ppm	0.0122 ppm	0.0000 ppm	58.2255 ppm
Concentration RSD	154.0 %	21.1 %	173.7 %	3.6 %	0.2 %	145.5 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0001 ppm	-0.0003 ppm	-0.0001 ppm	0.0007 ppm	0.0051 ppm	9.1590 ppm	8.2690 ppm
Concentration per Run 1	-0.0001 ppm	-0.0002 ppm	-0.0001 ppm	0.0007 ppm	0.0049 ppm	9.1311 ppm	8.2085 ppm
Concentration per Run 2	-0.0001 ppm	-0.0004 ppm	0.0000 ppm	0.0005 ppm	0.0054 ppm	9.1792 ppm	8.2828 ppm
Concentration per Run 3	-0.0001 ppm	-0.0003 ppm	-0.0002 ppm	0.0009 ppm	0.0049 ppm	9.1667 ppm	8.3158 ppm
Concentration RSD	28.0 %	28.3 %	115.6 %	23.6 %	6.2 %	0.3 %	0.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0087 ppm	0.0070 ppm	33.9231 ppm	-0.0002 ppm	-0.0027 ppm	0.0015 ppm	-0.0004 ppm
Concentration per Run 1	0.0088 ppm	0.0074 ppm	33.7828 ppm	-0.0003 ppm	-0.0027 ppm	0.0017 ppm	-0.0013 ppm
Concentration per Run 2	0.0087 ppm	0.0070 ppm	34.0328 ppm	-0.0002 ppm	-0.0026 ppm	0.0018 ppm	-0.0003 ppm
Concentration per Run 3	0.0087 ppm	0.0065 ppm	33.9537 ppm	-0.0002 ppm	-0.0028 ppm	0.0010 ppm	0.0004 ppm
Concentration RSD	0.4 %	6.1 %	0.4 %	21.4 %	3.2 %	26.7 %	229.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.5341 ppm	0.0015 ppm	0.2560 ppm	0.0007 ppm	0.0000 ppm	0.0003 ppm	0.0001 ppm
Concentration per Run 1	5.5394 ppm	0.0015 ppm	0.2564 ppm	0.0004 ppm	0.0004 ppm	0.0002 ppm	0.0001 ppm
Concentration per Run 2	5.5185 ppm	0.0016 ppm	0.2566 ppm	0.0006 ppm	-0.0006 ppm	0.0004 ppm	0.0001 ppm
Concentration per Run 3	5.5442 ppm	0.0014 ppm	0.2549 ppm	0.0009 ppm	0.0003 ppm	0.0003 ppm	0.0002 ppm
Concentration RSD	0.2 %	7.0 %	0.4 %	40.0 %	1,234.9 %	35.8 %	28.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.7433 %	99.3371 %	96.5152 %	100.2795 %	94.6493 %	99.0724 %	0.0034 ppm
Concentration per Run 1	101.5532 %	100.1562 %	96.7596 %	99.4196 %	94.6810 %	99.7314 %	0.0032 ppm
Concentration per Run 2	98.9578 %	99.2375 %	96.9311 %	100.5431 %	94.8660 %	98.8426 %	0.0043 ppm
Concentration per Run 3	98.7189 %	98.6178 %	95.8549 %	100.8759 %	94.4010 %	98.6433 %	0.0028 ppm
Concentration RSD	1.6 %	0.8 %	0.6 %	0.8 %	0.2 %	0.6 %	21.9 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: WG2038726-5 WG2038726
Analysis started at: 3/12/2025 1:07:50 PM
Rack: 1
Vial: 22

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0373 ppm	2.0535 ppm	0.1230 ppm	0.9711 ppm	1.9455 ppm	0.0500 ppm	66.4467 ppm
Concentration per Run 1	0.0377 ppm	2.0396 ppm	0.1243 ppm	0.9796 ppm	1.9325 ppm	0.0496 ppm	66.2059 ppm
Concentration per Run 2	0.0378 ppm	2.0663 ppm	0.1223 ppm	0.9668 ppm	1.9538 ppm	0.0500 ppm	66.4810 ppm
Concentration per Run 3	0.0364 ppm	2.0546 ppm	0.1222 ppm	0.9669 ppm	1.9503 ppm	0.0503 ppm	66.6532 ppm
Concentration RSD	2.1 %	0.7 %	1.0 %	0.8 %	0.6 %	0.7 %	0.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0500 ppm	0.4620 ppm	0.1903 ppm	0.2483 ppm	1.0121 ppm	19.7649 ppm	17.8665 ppm
Concentration per Run 1	0.0504 ppm	0.4669 ppm	0.1922 ppm	0.2511 ppm	0.9990 ppm	19.7614 ppm	18.0946 ppm
Concentration per Run 2	0.0497 ppm	0.4593 ppm	0.1931 ppm	0.2515 ppm	1.0166 ppm	19.8500 ppm	18.1100 ppm
Concentration per Run 3	0.0498 ppm	0.4599 ppm	0.1856 ppm	0.2424 ppm	1.0208 ppm	19.6832 ppm	17.3948 ppm
Concentration RSD	0.8 %	0.9 %	2.2 %	2.1 %	1.1 %	0.4 %	2.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5080 ppm	0.9106 ppm	43.4470 ppm	0.4693 ppm	0.5175 ppm	0.4660 ppm	0.1248 ppm
Concentration per Run 1	0.5059 ppm	0.9132 ppm	43.3018 ppm	0.4740 ppm	0.5231 ppm	0.4678 ppm	0.1279 ppm
Concentration per Run 2	0.5080 ppm	0.9058 ppm	43.6724 ppm	0.4671 ppm	0.5139 ppm	0.4632 ppm	0.1231 ppm
Concentration per Run 3	0.5099 ppm	0.9129 ppm	43.3669 ppm	0.4669 ppm	0.5154 ppm	0.4669 ppm	0.1236 ppm
Concentration RSD	0.4 %	0.5 %	0.5 %	0.9 %	1.0 %	0.5 %	2.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	6.2181 ppm	0.9292 ppm	1.2154 ppm	0.9601 ppm	0.1171 ppm	0.4891 ppm	0.4680 ppm
Concentration per Run 1	6.2834 ppm	0.9390 ppm	1.2084 ppm	0.9724 ppm	0.1189 ppm	0.4930 ppm	0.4724 ppm
Concentration per Run 2	6.1802 ppm	0.9251 ppm	1.2193 ppm	0.9721 ppm	0.1173 ppm	0.4892 ppm	0.4661 ppm
Concentration per Run 3	6.1908 ppm	0.9237 ppm	1.2186 ppm	0.9358 ppm	0.1152 ppm	0.4851 ppm	0.4656 ppm
Concentration RSD	0.9 %	0.9 %	0.5 %	2.2 %	1.6 %	0.8 %	0.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.3696 %	98.4937 %	94.9752 %	101.1181 %	92.9955 %	100.0060 %	0.0029 ppm
Concentration per Run 1	101.6948 %	97.4872 %	94.3874 %	101.5226 %	92.1991 %	98.9634 %	0.0033 ppm
Concentration per Run 2	98.8437 %	97.3836 %	95.2702 %	101.4096 %	93.4523 %	98.9295 %	0.0029 ppm
Concentration per Run 3	97.5705 %	100.6104 %	95.2681 %	100.4220 %	93.3352 %	102.1249 %	0.0026 ppm
Concentration RSD	2.1 %	1.9 %	0.5 %	0.6 %	0.7 %	1.8 %	12.0 %

LabBook: WG2039408_03122025T6.imexp

Sample: CCV
Analysis started at: 3/12/2025 1:14:07 PM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4786 ppm	0.4856 ppm	0.4765 ppm	0.4723 ppm	0.4645 ppm	0.4841 ppm	0.5029 ppm
Concentration per Run 1	0.4778 ppm	0.4821 ppm	0.4754 ppm	0.4685 ppm	0.4569 ppm	0.4768 ppm	0.4985 ppm
Concentration per Run 2	0.4791 ppm	0.4927 ppm	0.4709 ppm	0.4694 ppm	0.4669 ppm	0.4866 ppm	0.5014 ppm
Concentration per Run 3	0.4788 ppm	0.4821 ppm	0.4831 ppm	0.4789 ppm	0.4696 ppm	0.4891 ppm	0.5089 ppm
Recovery Percentage 1	95.712 %	97.130 %	95.292 %	94.454 %	92.892 %	96.829 %	100.589 %
Concentration RSD	0.1 %	1.3 %	1.3 %	1.2 %	1.4 %	1.3 %	1.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4600 ppm	0.4646 ppm	0.4796 ppm	0.4792 ppm	0.4936 ppm	5.0461 ppm	0.4960 ppm
Concentration per Run 1	0.4584 ppm	0.4613 ppm	0.4793 ppm	0.4773 ppm	0.4838 ppm	4.9543 ppm	0.4949 ppm
Concentration per Run 2	0.4501 ppm	0.4562 ppm	0.4795 ppm	0.4808 ppm	0.4948 ppm	5.0895 ppm	0.4963 ppm
Concentration per Run 3	0.4715 ppm	0.4762 ppm	0.4799 ppm	0.4795 ppm	0.5021 ppm	5.0944 ppm	0.4966 ppm
Recovery Percentage 1	91.994 %	92.916 %	95.915 %	95.844 %	98.715 %	100.921 %	99.193 %
Concentration RSD	2.3 %	2.2 %	0.1 %	0.4 %	1.9 %	1.6 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4768 ppm	0.4602 ppm	9.5492 ppm	0.4691 ppm	0.4726 ppm	0.4719 ppm	0.4822 ppm
Concentration per Run 1	0.4712 ppm	0.4559 ppm	9.3894 ppm	0.4657 ppm	0.4669 ppm	0.4662 ppm	0.4780 ppm
Concentration per Run 2	0.4790 ppm	0.4519 ppm	9.6076 ppm	0.4606 ppm	0.4665 ppm	0.4658 ppm	0.4794 ppm
Concentration per Run 3	0.4803 ppm	0.4727 ppm	9.6505 ppm	0.4811 ppm	0.4842 ppm	0.4839 ppm	0.4890 ppm
Recovery Percentage 1	95.367 %	92.031 %	95.492 %	93.824 %	94.511 %	94.389 %	96.432 %
Concentration RSD	1.0 %	2.4 %	1.5 %	2.3 %	2.1 %	2.2 %	1.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.1726 ppm	0.4674 ppm	0.4717 ppm	0.4805 ppm	0.4746 ppm	0.4758 ppm	0.4619 ppm
Concentration per Run 1	5.1106 ppm	0.4638 ppm	0.4647 ppm	0.4809 ppm	0.4689 ppm	0.4724 ppm	0.4611 ppm
Concentration per Run 2	5.1077 ppm	0.4590 ppm	0.4741 ppm	0.4811 ppm	0.4693 ppm	0.4737 ppm	0.4509 ppm
Concentration per Run 3	5.2995 ppm	0.4793 ppm	0.4763 ppm	0.4796 ppm	0.4856 ppm	0.4814 ppm	0.4735 ppm
Recovery Percentage 1	98.526 %	93.476 %	94.340 %	96.110 %	94.917 %	95.167 %	92.370 %
Concentration RSD	2.1 %	2.3 %	1.3 %	0.2 %	2.0 %	1.0 %	2.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.6520 %	99.5792 %	98.9339 %	104.0144 %	97.6786 %	102.0900 %	0.4741 ppm
Concentration per Run 1	99.5696 %	99.5486 %	99.6224 %	105.2499 %	98.6348 %	102.0762 %	0.4658 ppm
Concentration per Run 2	98.3093 %	99.6961 %	99.5402 %	103.6417 %	98.9600 %	102.2225 %	0.4789 ppm
Concentration per Run 3	98.0771 %	99.4931 %	97.6389 %	103.1515 %	95.4410 %	101.9714 %	0.4777 ppm
Recovery Percentage 1							94.829 %
Concentration RSD	0.8 %	0.1 %	1.1 %	1.1 %	2.0 %	0.1 %	1.5 %

LabBook: WG2039408_03122025T6.imexp

Sample: CCB
Analysis started at: 3/12/2025 1:20:26 PM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0005 ppm
Concentration per Run 1	-0.0001 ppm	0.0020 ppm	0.0000 ppm	0.0011 ppm	0.0001 ppm	0.0000 ppm	-0.0035 ppm
Concentration per Run 2	0.0001 ppm	0.0042 ppm	-0.0006 ppm	0.0010 ppm	-0.0001 ppm	0.0000 ppm	0.0076 ppm
Concentration per Run 3	-0.0003 ppm	-0.0066 ppm	0.0003 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	-0.0028 ppm
Recovery Percentage 1	-1.458 %	-0.145 %	-2.231 %	3.079 %	-0.023 %	0.328 %	0.461 %
Concentration RSD	198.2 %	3,956.3 %	394.5 %	17.8 %	3,548.6 %	133.4 %	1,342.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0004 ppm	-0.0004 ppm	0.0251 ppm	0.0015 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0004 ppm	-0.0001 ppm	0.0221 ppm	0.0029 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm	-0.0020 ppm	0.0319 ppm	-0.0003 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0005 ppm	0.0009 ppm	0.0213 ppm	0.0020 ppm
Recovery Percentage 1	0.002 %	0.122 %	0.642 %	3.770 %	-0.816 %	1.004 %	1.538 %
Concentration RSD	15,724.2 %	35.6 %	322.1 %	42.6 %	358.2 %	23.6 %	109.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0001 ppm	0.0011 ppm	0.0092 ppm	-0.0001 ppm	-0.0004 ppm	0.0005 ppm	0.0002 ppm
Concentration per Run 1	0.0001 ppm	0.0013 ppm	0.0101 ppm	-0.0001 ppm	-0.0006 ppm	0.0018 ppm	-0.0001 ppm
Concentration per Run 2	-0.0005 ppm	0.0011 ppm	0.0080 ppm	0.0000 ppm	-0.0007 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 3	0.0001 ppm	0.0009 ppm	0.0095 ppm	-0.0003 ppm	0.0001 ppm	-0.0004 ppm	0.0004 ppm
Recovery Percentage 1	-0.965 %	2.268 %	0.460 %	-0.522 %	-4.206 %	0.990 %	1.537 %
Concentration RSD	370.8 %	16.7 %	11.7 %	97.0 %	108.7 %	230.9 %	164.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0012 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 1	0.0011 ppm	0.0005 ppm	0.0000 ppm	0.0003 ppm	0.0002 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 2	0.0013 ppm	0.0008 ppm	0.0001 ppm	-0.0003 ppm	-0.0005 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 3	0.0013 ppm	0.0008 ppm	-0.0001 ppm	0.0001 ppm	-0.0002 ppm	-0.0001 ppm	0.0000 ppm
Recovery Percentage 1	0.245 %	1.404 %	0.103 %	0.291 %	-0.628 %	-0.660 %	-1.136 %
Concentration RSD	9.1 %	21.6 %	905.4 %	1,179.2 %	283.6 %	99.5 %	151.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.7671 %	100.6217 %	99.0840 %	101.9572 %	101.1595 %	102.7879 %	0.0001 ppm
Concentration per Run 1	99.2045 %	101.8230 %	99.1277 %	101.5700 %	100.8270 %	103.8843 %	-0.0003 ppm
Concentration per Run 2	98.1948 %	99.4644 %	99.0544 %	101.8077 %	101.3618 %	101.7082 %	0.0008 ppm
Concentration per Run 3	98.9021 %	100.5777 %	99.0697 %	102.4940 %	101.2897 %	102.7713 %	-0.0001 ppm
Recovery Percentage 1							0.969 %
Concentration RSD	0.5 %	1.2 %	0.0 %	0.5 %	0.3 %	1.1 %	595.7 %

ICP DataTrace 6

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LabBook: WG2039408_03122025T6.imexp

Sample: WG2039059-1 WG2039059
Analysis started at: 3/12/2025 1:42:13 PM
Rack: 1
Vial: 25

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0039 ppm	-0.0003 ppm	-0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0502 ppm
Concentration per Run 1	-0.0001 ppm	0.0067 ppm	-0.0004 ppm	-0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0527 ppm
Concentration per Run 2	0.0002 ppm	0.0019 ppm	-0.0009 ppm	-0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0541 ppm
Concentration per Run 3	0.0000 ppm	0.0029 ppm	0.0005 ppm	-0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0436 ppm
Concentration RSD	916.5 %	65.9 %	236.5 %	19.2 %	579.8 %	47.7 %	11.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0009 ppm	0.0027 ppm	-0.0020 ppm	0.0049 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0009 ppm	0.0026 ppm	0.0036 ppm	0.0029 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0009 ppm	0.0036 ppm	-0.0151 ppm	0.0061 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0008 ppm	0.0018 ppm	0.0056 ppm	0.0058 ppm
Concentration RSD	110.2 %	1,076.6 %	72.8 %	8.7 %	34.4 %	575.4 %	35.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	-0.0002 ppm	0.0101 ppm	0.0000 ppm	-0.0004 ppm	-0.0010 ppm	-0.0008 ppm
Concentration per Run 1	0.0002 ppm	-0.0002 ppm	0.0115 ppm	0.0000 ppm	-0.0002 ppm	-0.0012 ppm	0.0006 ppm
Concentration per Run 2	0.0002 ppm	-0.0002 ppm	0.0098 ppm	0.0000 ppm	-0.0005 ppm	-0.0005 ppm	-0.0012 ppm
Concentration per Run 3	0.0002 ppm	-0.0002 ppm	0.0089 ppm	0.0001 ppm	-0.0004 ppm	-0.0013 ppm	-0.0017 ppm
Concentration RSD	2.6 %	13.3 %	13.2 %	219.7 %	42.6 %	46.1 %	159.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0068 ppm	0.0000 ppm	0.0001 ppm	-0.0002 ppm	-0.0004 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 1	0.0063 ppm	0.0002 ppm	0.0001 ppm	-0.0002 ppm	-0.0002 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 2	0.0070 ppm	0.0001 ppm	0.0001 ppm	-0.0002 ppm	0.0001 ppm	0.0001 ppm	0.0004 ppm
Concentration per Run 3	0.0069 ppm	-0.0004 ppm	0.0001 ppm	-0.0002 ppm	-0.0012 ppm	-0.0001 ppm	0.0004 ppm
Concentration RSD	6.2 %	1,300.9 %	13.8 %	14.8 %	174.9 %	806.4 %	29.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.7825 %	99.5586 %	98.7487 %	112.9441 %	102.1976 %	106.3215 %	-0.0007 ppm
Concentration per Run 1	101.3298 %	99.5374 %	99.0361 %	115.8027 %	102.7642 %	106.5528 %	-0.0011 ppm
Concentration per Run 2	98.8982 %	99.5340 %	98.6142 %	112.1438 %	102.0822 %	106.2734 %	-0.0002 ppm
Concentration per Run 3	99.1194 %	99.6043 %	98.5957 %	110.8859 %	101.7463 %	106.1383 %	-0.0007 ppm
Concentration RSD	1.3 %	0.0 %	0.3 %	2.3 %	0.5 %	0.2 %	73.3 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: WG2039059-2 WG2039059
Analysis started at: 3/12/2025 1:48:46 PM
Rack: 1
Vial: 26

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0506 ppm	2.0742 ppm	0.1110 ppm	0.9276 ppm	1.9664 ppm	0.0502 ppm	10.3192 ppm
Concentration per Run 1	0.0506 ppm	2.0893 ppm	0.1107 ppm	0.9296 ppm	1.9785 ppm	0.0506 ppm	10.4461 ppm
Concentration per Run 2	0.0504 ppm	2.0820 ppm	0.1111 ppm	0.9295 ppm	1.9707 ppm	0.0500 ppm	10.2706 ppm
Concentration per Run 3	0.0507 ppm	2.0514 ppm	0.1113 ppm	0.9238 ppm	1.9499 ppm	0.0499 ppm	10.2408 ppm
Concentration RSD	0.3 %	1.0 %	0.3 %	0.4 %	0.8 %	0.8 %	1.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0496 ppm	0.4590 ppm	0.1931 ppm	0.2604 ppm	1.0354 ppm	10.3733 ppm	9.9972 ppm
Concentration per Run 1	0.0495 ppm	0.4583 ppm	0.1940 ppm	0.2598 ppm	1.0421 ppm	10.4447 ppm	10.0123 ppm
Concentration per Run 2	0.0498 ppm	0.4603 ppm	0.1928 ppm	0.2610 ppm	1.0305 ppm	10.4166 ppm	9.9954 ppm
Concentration per Run 3	0.0495 ppm	0.4583 ppm	0.1924 ppm	0.2604 ppm	1.0336 ppm	10.2584 ppm	9.9838 ppm
Concentration RSD	0.3 %	0.2 %	0.4 %	0.2 %	0.6 %	1.0 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5133 ppm	0.9045 ppm	10.4495 ppm	0.4749 ppm	0.5083 ppm	0.4567 ppm	0.1088 ppm
Concentration per Run 1	0.5188 ppm	0.9005 ppm	10.4985 ppm	0.4740 ppm	0.5087 ppm	0.4556 ppm	0.1085 ppm
Concentration per Run 2	0.5114 ppm	0.9070 ppm	10.5093 ppm	0.4761 ppm	0.5076 ppm	0.4571 ppm	0.1103 ppm
Concentration per Run 3	0.5095 ppm	0.9060 ppm	10.3407 ppm	0.4748 ppm	0.5086 ppm	0.4575 ppm	0.1075 ppm
Concentration RSD	1.0 %	0.4 %	0.9 %	0.2 %	0.1 %	0.2 %	1.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.0645 ppm	0.9025 ppm	0.9584 ppm	0.9369 ppm	0.1068 ppm	0.5005 ppm	0.4574 ppm
Concentration per Run 1	1.0665 ppm	0.9007 ppm	0.9654 ppm	0.9375 ppm	0.1058 ppm	0.5009 ppm	0.4560 ppm
Concentration per Run 2	1.0649 ppm	0.9040 ppm	0.9600 ppm	0.9370 ppm	0.1063 ppm	0.5013 ppm	0.4586 ppm
Concentration per Run 3	1.0619 ppm	0.9029 ppm	0.9498 ppm	0.9363 ppm	0.1084 ppm	0.4992 ppm	0.4576 ppm
Concentration RSD	0.2 %	0.2 %	0.8 %	0.1 %	1.3 %	0.2 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.3309 %	97.9467 %	96.2453 %	102.0214 %	96.8163 %	102.7274 %	-0.0004 ppm
Concentration per Run 1	99.0139 %	97.9386 %	96.3131 %	100.9548 %	96.9943 %	102.6893 %	-0.0005 ppm
Concentration per Run 2	98.7797 %	97.9508 %	95.8416 %	102.8381 %	96.4144 %	102.7638 %	-0.0001 ppm
Concentration per Run 3	97.1990 %	97.9507 %	96.5812 %	102.2714 %	97.0403 %	102.7290 %	-0.0005 ppm
Concentration RSD	1.0 %	0.0 %	0.4 %	0.9 %	0.4 %	0.0 %	72.2 %

LabBook: WG2039408_03122025T6.imexp

Sample: WG2038726-6D5 WG2038726
Analysis started at: 3/12/2025 1:55:02 PM
Rack: 1
Vial: 23

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0025 ppm	-0.0005 ppm	0.0022 ppm	0.0024 ppm	0.0000 ppm	11.3835 ppm
Concentration per Run 1	0.0002 ppm	0.0032 ppm	-0.0006 ppm	0.0021 ppm	0.0025 ppm	0.0000 ppm	11.3073 ppm
Concentration per Run 2	-0.0005 ppm	0.0043 ppm	-0.0014 ppm	0.0021 ppm	0.0024 ppm	0.0000 ppm	11.3945 ppm
Concentration per Run 3	-0.0002 ppm	-0.0002 ppm	0.0005 ppm	0.0023 ppm	0.0024 ppm	0.0000 ppm	11.4488 ppm
Concentration RSD	222.1 %	95.1 %	180.4 %	5.2 %	3.6 %	40.6 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0009 ppm	0.0027 ppm	1.6454 ppm	1.6748 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0007 ppm	0.0035 ppm	1.6200 ppm	1.6830 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0008 ppm	0.0011 ppm	1.6651 ppm	1.6727 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0010 ppm	0.0035 ppm	1.6513 ppm	1.6685 ppm
Concentration RSD	62.0 %	50.6 %	559.2 %	18.0 %	50.8 %	1.4 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0017 ppm	0.0030 ppm	6.3523 ppm	-0.0001 ppm	-0.0004 ppm	0.0014 ppm	-0.0004 ppm
Concentration per Run 1	0.0015 ppm	0.0033 ppm	6.2533 ppm	-0.0001 ppm	-0.0001 ppm	0.0015 ppm	0.0019 ppm
Concentration per Run 2	0.0017 ppm	0.0030 ppm	6.3649 ppm	0.0000 ppm	-0.0008 ppm	0.0014 ppm	-0.0006 ppm
Concentration per Run 3	0.0019 ppm	0.0026 ppm	6.4387 ppm	-0.0002 ppm	-0.0003 ppm	0.0013 ppm	-0.0025 ppm
Concentration RSD	9.8 %	11.5 %	1.5 %	136.1 %	86.7 %	7.8 %	537.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.0870 ppm	0.0009 ppm	0.0492 ppm	0.0001 ppm	-0.0005 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 1	1.0715 ppm	0.0013 ppm	0.0485 ppm	0.0001 ppm	-0.0008 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 2	1.0954 ppm	0.0009 ppm	0.0494 ppm	0.0001 ppm	-0.0004 ppm	-0.0001 ppm	0.0004 ppm
Concentration per Run 3	1.0942 ppm	0.0007 ppm	0.0496 ppm	0.0002 ppm	-0.0004 ppm	0.0001 ppm	0.0004 ppm
Concentration RSD	1.2 %	30.6 %	1.2 %	40.1 %	49.3 %	755.9 %	12.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	97.1733 %	97.8497 %	97.5313 %	104.3637 %	99.1326 %	101.9793 %	0.0006 ppm
Concentration per Run 1	97.9591 %	97.7077 %	98.9579 %	105.0053 %	100.2824 %	101.8003 %	0.0002 ppm
Concentration per Run 2	96.7000 %	98.0542 %	96.6289 %	104.0640 %	98.4101 %	102.1884 %	0.0003 ppm
Concentration per Run 3	96.8609 %	97.7872 %	97.0070 %	104.0218 %	98.7055 %	101.9490 %	0.0012 ppm
Concentration RSD	0.7 %	0.2 %	1.3 %	0.5 %	1.0 %	0.2 %	97.3 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: L2511871-01 WG2038726
Analysis started at: 3/12/2025 2:01:37 PM
Rack: 1
Vial: 24

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0562 ppm	-0.0007 ppm	0.0365 ppm	0.0522 ppm	0.0000 ppm	43.3787 ppm
Concentration per Run 1	0.0001 ppm	0.0549 ppm	-0.0027 ppm	0.0365 ppm	0.0526 ppm	0.0000 ppm	43.6301 ppm
Concentration per Run 2	0.0000 ppm	0.0552 ppm	0.0012 ppm	0.0368 ppm	0.0521 ppm	0.0001 ppm	43.7693 ppm
Concentration per Run 3	0.0000 ppm	0.0583 ppm	-0.0006 ppm	0.0363 ppm	0.0518 ppm	0.0000 ppm	42.7367 ppm
Concentration RSD	2,621.8 %	3.4 %	278.3 %	0.6 %	0.8 %	134.0 %	1.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0001 ppm	0.0002 ppm	0.0008 ppm	0.0040 ppm	0.1151 ppm	4.2251 ppm	14.2566 ppm
Concentration per Run 1	-0.0001 ppm	0.0003 ppm	0.0010 ppm	0.0042 ppm	0.1161 ppm	4.2421 ppm	14.2417 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0008 ppm	0.0038 ppm	0.1161 ppm	4.1982 ppm	14.3111 ppm
Concentration per Run 3	-0.0001 ppm	0.0002 ppm	0.0006 ppm	0.0039 ppm	0.1131 ppm	4.2348 ppm	14.2169 ppm
Concentration RSD	55.8 %	71.3 %	25.9 %	4.3 %	1.5 %	0.6 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1105 ppm	0.0022 ppm	54.3112 ppm	0.0019 ppm	-0.0005 ppm	-0.0001 ppm	-0.0011 ppm
Concentration per Run 1	0.1110 ppm	0.0022 ppm	54.6066 ppm	0.0020 ppm	-0.0002 ppm	-0.0007 ppm	-0.0004 ppm
Concentration per Run 2	0.1116 ppm	0.0023 ppm	54.1081 ppm	0.0019 ppm	-0.0005 ppm	0.0005 ppm	0.0000 ppm
Concentration per Run 3	0.1088 ppm	0.0021 ppm	54.2188 ppm	0.0019 ppm	-0.0009 ppm	-0.0001 ppm	-0.0031 ppm
Concentration RSD	1.3 %	5.9 %	0.5 %	4.3 %	68.6 %	475.4 %	145.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.3704 ppm	0.0007 ppm	0.2124 ppm	0.0026 ppm	-0.0001 ppm	0.0005 ppm	0.0068 ppm
Concentration per Run 1	1.3697 ppm	0.0007 ppm	0.2138 ppm	0.0022 ppm	-0.0002 ppm	0.0007 ppm	0.0067 ppm
Concentration per Run 2	1.3691 ppm	0.0005 ppm	0.2124 ppm	0.0025 ppm	-0.0006 ppm	0.0004 ppm	0.0067 ppm
Concentration per Run 3	1.3724 ppm	0.0009 ppm	0.2111 ppm	0.0033 ppm	0.0005 ppm	0.0005 ppm	0.0070 ppm
Concentration RSD	0.1 %	30.2 %	0.6 %	20.8 %	547.0 %	22.6 %	2.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.7221 %	95.9106 %	94.3412 %	99.3384 %	93.7924 %	99.4209 %	0.0046 ppm
Concentration per Run 1	100.7714 %	95.8608 %	94.6240 %	98.9399 %	93.7857 %	99.3525 %	0.0044 ppm
Concentration per Run 2	96.8777 %	95.7054 %	94.0592 %	98.3139 %	93.9990 %	99.2031 %	0.0047 ppm
Concentration per Run 3	98.5171 %	96.1657 %	94.3404 %	100.7616 %	93.5926 %	99.7070 %	0.0046 ppm
Concentration RSD	2.0 %	0.2 %	0.3 %	1.3 %	0.2 %	0.3 %	3.3 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: L2512368-10 WG2039059
Analysis started at: 3/12/2025 2:08:12 PM
Rack: 1
Vial: 27

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0127 ppm	-0.0006 ppm	0.0165 ppm	0.0308 ppm	0.0000 ppm	13.8039 ppm
Concentration per Run 1	0.0001 ppm	0.0112 ppm	-0.0013 ppm	0.0166 ppm	0.0311 ppm	0.0000 ppm	13.8830 ppm
Concentration per Run 2	-0.0001 ppm	0.0154 ppm	-0.0003 ppm	0.0165 ppm	0.0306 ppm	0.0000 ppm	13.8717 ppm
Concentration per Run 3	0.0004 ppm	0.0117 ppm	-0.0002 ppm	0.0164 ppm	0.0308 ppm	0.0001 ppm	13.6569 ppm
Concentration RSD	146.8 %	18.1 %	92.6 %	0.6 %	0.8 %	1,364.3 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0003 ppm	0.0012 ppm	0.0009 ppm	0.0168 ppm	2.1884 ppm	2.7199 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0012 ppm	0.0009 ppm	0.0152 ppm	2.2261 ppm	2.7401 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	0.0012 ppm	0.0010 ppm	0.0182 ppm	2.1589 ppm	2.7108 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	0.0012 ppm	0.0008 ppm	0.0170 ppm	2.1803 ppm	2.7088 ppm
Concentration RSD	45.9 %	20.1 %	0.9 %	12.3 %	9.2 %	1.6 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0016 ppm	0.0000 ppm	12.2210 ppm	-0.0002 ppm	-0.0023 ppm	-0.0003 ppm	-0.0011 ppm
Concentration per Run 1	0.0016 ppm	0.0000 ppm	12.3010 ppm	-0.0003 ppm	-0.0025 ppm	-0.0002 ppm	-0.0021 ppm
Concentration per Run 2	0.0016 ppm	0.0000 ppm	12.1936 ppm	-0.0004 ppm	-0.0024 ppm	-0.0004 ppm	-0.0009 ppm
Concentration per Run 3	0.0017 ppm	-0.0001 ppm	12.1683 ppm	0.0000 ppm	-0.0020 ppm	-0.0003 ppm	-0.0004 ppm
Concentration RSD	4.2 %	230.0 %	0.6 %	107.5 %	10.2 %	39.8 %	77.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.1940 ppm	0.0004 ppm	0.0588 ppm	0.0004 ppm	0.0000 ppm	0.0002 ppm	0.0125 ppm
Concentration per Run 1	4.2079 ppm	0.0007 ppm	0.0590 ppm	0.0004 ppm	0.0007 ppm	0.0001 ppm	0.0125 ppm
Concentration per Run 2	4.1933 ppm	0.0002 ppm	0.0588 ppm	0.0002 ppm	0.0003 ppm	0.0001 ppm	0.0125 ppm
Concentration per Run 3	4.1807 ppm	0.0002 ppm	0.0586 ppm	0.0007 ppm	-0.0009 ppm	0.0003 ppm	0.0125 ppm
Concentration RSD	0.3 %	69.3 %	0.3 %	55.4 %	3,933.7 %	83.9 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.9985 %	97.8894 %	96.4674 %	101.5558 %	97.0669 %	100.9612 %	-0.0003 ppm
Concentration per Run 1	101.0439 %	97.7919 %	96.5229 %	101.4565 %	97.0323 %	100.3521 %	-0.0001 ppm
Concentration per Run 2	97.5808 %	98.0152 %	96.5392 %	100.7390 %	96.8649 %	101.1277 %	-0.0016 ppm
Concentration per Run 3	98.3709 %	97.8610 %	96.3400 %	102.4719 %	97.3036 %	101.4039 %	0.0007 ppm
Concentration RSD	1.8 %	0.1 %	0.1 %	0.9 %	0.2 %	0.5 %	378.9 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: WG2039059-3 WG2039059
Analysis started at: 3/12/2025 2:14:45 PM
Rack: 1
Vial: 28

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0510 ppm	2.0696 ppm	0.1128 ppm	0.9565 ppm	1.9853 ppm	0.0503 ppm	23.4503 ppm
Concentration per Run 1	0.0506 ppm	2.0712 ppm	0.1140 ppm	0.9575 ppm	1.9856 ppm	0.0508 ppm	23.6332 ppm
Concentration per Run 2	0.0512 ppm	2.0764 ppm	0.1129 ppm	0.9543 ppm	1.9926 ppm	0.0503 ppm	23.4039 ppm
Concentration per Run 3	0.0513 ppm	2.0613 ppm	0.1116 ppm	0.9577 ppm	1.9776 ppm	0.0500 ppm	23.3140 ppm
Concentration RSD	0.8 %	0.4 %	1.0 %	0.2 %	0.4 %	0.8 %	0.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0497 ppm	0.4578 ppm	0.1936 ppm	0.2629 ppm	1.0342 ppm	12.4873 ppm	12.5803 ppm
Concentration per Run 1	0.0497 ppm	0.4581 ppm	0.1940 ppm	0.2627 ppm	1.0341 ppm	12.4377 ppm	12.5783 ppm
Concentration per Run 2	0.0498 ppm	0.4592 ppm	0.1943 ppm	0.2624 ppm	1.0346 ppm	12.6121 ppm	12.6125 ppm
Concentration per Run 3	0.0495 ppm	0.4561 ppm	0.1924 ppm	0.2637 ppm	1.0338 ppm	12.4120 ppm	12.5501 ppm
Concentration RSD	0.3 %	0.3 %	0.5 %	0.3 %	0.0 %	0.9 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5091 ppm	0.8976 ppm	22.5238 ppm	0.4736 ppm	0.5061 ppm	0.4650 ppm	0.1129 ppm
Concentration per Run 1	0.5125 ppm	0.8930 ppm	22.4572 ppm	0.4748 ppm	0.5064 ppm	0.4646 ppm	0.1145 ppm
Concentration per Run 2	0.5076 ppm	0.8993 ppm	22.7029 ppm	0.4740 ppm	0.5074 ppm	0.4653 ppm	0.1128 ppm
Concentration per Run 3	0.5073 ppm	0.9004 ppm	22.4114 ppm	0.4719 ppm	0.5046 ppm	0.4649 ppm	0.1114 ppm
Concentration RSD	0.6 %	0.4 %	0.7 %	0.3 %	0.3 %	0.1 %	1.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.2878 ppm	0.8993 ppm	1.0004 ppm	0.9285 ppm	0.1085 ppm	0.5000 ppm	0.4704 ppm
Concentration per Run 1	5.2928 ppm	0.9023 ppm	1.0013 ppm	0.9284 ppm	0.1099 ppm	0.5004 ppm	0.4713 ppm
Concentration per Run 2	5.2886 ppm	0.9003 ppm	1.0037 ppm	0.9300 ppm	0.1079 ppm	0.4999 ppm	0.4719 ppm
Concentration per Run 3	5.2820 ppm	0.8953 ppm	0.9963 ppm	0.9271 ppm	0.1076 ppm	0.4996 ppm	0.4679 ppm
Concentration RSD	0.1 %	0.4 %	0.4 %	0.2 %	1.2 %	0.1 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.9208 %	96.2757 %	94.9019 %	102.2517 %	94.8761 %	101.1333 %	-0.0003 ppm
Concentration per Run 1	100.0062 %	96.3974 %	94.8305 %	101.6428 %	94.8999 %	101.2500 %	-0.0007 ppm
Concentration per Run 2	98.5404 %	96.0710 %	95.0047 %	102.3343 %	94.7042 %	100.9377 %	-0.0001 ppm
Concentration per Run 3	98.2157 %	96.3587 %	94.8706 %	102.7779 %	95.0241 %	101.2123 %	-0.0001 ppm
Concentration RSD	1.0 %	0.2 %	0.1 %	0.6 %	0.2 %	0.2 %	102.0 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: WG2039059-4 WG2039059
Analysis started at: 3/12/2025 2:20:59 PM
Rack: 1
Vial: 29

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0512 ppm	2.0590 ppm	0.1134 ppm	0.9631 ppm	1.9655 ppm	0.0499 ppm	23.6335 ppm
Concentration per Run 1	0.0512 ppm	2.0626 ppm	0.1124 ppm	0.9535 ppm	1.9662 ppm	0.0501 ppm	23.7360 ppm
Concentration per Run 2	0.0513 ppm	2.0588 ppm	0.1150 ppm	0.9676 ppm	1.9696 ppm	0.0499 ppm	23.6206 ppm
Concentration per Run 3	0.0510 ppm	2.0557 ppm	0.1128 ppm	0.9681 ppm	1.9608 ppm	0.0497 ppm	23.5439 ppm
Concentration RSD	0.3 %	0.2 %	1.2 %	0.9 %	0.2 %	0.5 %	0.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0497 ppm	0.4570 ppm	0.1928 ppm	0.2611 ppm	1.0285 ppm	12.4827 ppm	12.7028 ppm
Concentration per Run 1	0.0495 ppm	0.4529 ppm	0.1933 ppm	0.2610 ppm	1.0235 ppm	12.4622 ppm	12.7298 ppm
Concentration per Run 2	0.0500 ppm	0.4605 ppm	0.1926 ppm	0.2618 ppm	1.0309 ppm	12.5435 ppm	12.7247 ppm
Concentration per Run 3	0.0497 ppm	0.4577 ppm	0.1925 ppm	0.2605 ppm	1.0313 ppm	12.4424 ppm	12.6538 ppm
Concentration RSD	0.5 %	0.8 %	0.2 %	0.2 %	0.4 %	0.4 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5062 ppm	0.9071 ppm	22.4913 ppm	0.4729 ppm	0.5108 ppm	0.4650 ppm	0.1129 ppm
Concentration per Run 1	0.5090 ppm	0.8917 ppm	22.4971 ppm	0.4690 ppm	0.5068 ppm	0.4573 ppm	0.1114 ppm
Concentration per Run 2	0.5057 ppm	0.9160 ppm	22.5483 ppm	0.4764 ppm	0.5139 ppm	0.4684 ppm	0.1130 ppm
Concentration per Run 3	0.5038 ppm	0.9136 ppm	22.4285 ppm	0.4731 ppm	0.5117 ppm	0.4693 ppm	0.1143 ppm
Concentration RSD	0.5 %	1.5 %	0.3 %	0.8 %	0.7 %	1.4 %	1.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.3093 ppm	0.9106 ppm	1.0046 ppm	0.9389 ppm	0.1089 ppm	0.4948 ppm	0.4714 ppm
Concentration per Run 1	5.2539 ppm	0.9026 ppm	1.0051 ppm	0.9401 ppm	0.1074 ppm	0.4906 ppm	0.4691 ppm
Concentration per Run 2	5.3481 ppm	0.9159 ppm	1.0059 ppm	0.9402 ppm	0.1100 ppm	0.4963 ppm	0.4745 ppm
Concentration per Run 3	5.3259 ppm	0.9134 ppm	1.0026 ppm	0.9362 ppm	0.1093 ppm	0.4974 ppm	0.4706 ppm
Concentration RSD	0.9 %	0.8 %	0.2 %	0.2 %	1.2 %	0.7 %	0.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.0110 %	95.7809 %	95.4436 %	102.4309 %	95.2032 %	100.7894 %	-0.0014 ppm
Concentration per Run 1	99.0226 %	95.7998 %	96.4809 %	101.9437 %	96.4037 %	100.8685 %	-0.0013 ppm
Concentration per Run 2	97.7551 %	95.5590 %	94.9156 %	102.5633 %	94.4148 %	100.5110 %	-0.0009 ppm
Concentration per Run 3	97.2553 %	95.9840 %	94.9342 %	102.7856 %	94.7911 %	100.9885 %	-0.0019 ppm
Concentration RSD	0.9 %	0.2 %	0.9 %	0.4 %	1.1 %	0.2 %	39.3 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: WG2039059-5 WG2039059
Analysis started at: 3/12/2025 2:27:14 PM
Rack: 1
Vial: 30

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0344 ppm	2.0411 ppm	0.1224 ppm	0.9749 ppm	1.9551 ppm	0.0500 ppm	23.1390 ppm
Concentration per Run 1	0.0235 ppm	2.0375 ppm	0.1225 ppm	0.9792 ppm	1.9506 ppm	0.0499 ppm	23.2272 ppm
Concentration per Run 2	0.0275 ppm	2.0483 ppm	0.1223 ppm	0.9695 ppm	1.9638 ppm	0.0502 ppm	23.2139 ppm
Concentration per Run 3	0.0523 ppm	2.0376 ppm	0.1224 ppm	0.9758 ppm	1.9508 ppm	0.0497 ppm	22.9760 ppm
Concentration RSD	45.3 %	0.3 %	0.1 %	0.5 %	0.4 %	0.5 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0503 ppm	0.4613 ppm	0.1939 ppm	0.2627 ppm	1.0288 ppm	12.6657 ppm	12.8022 ppm
Concentration per Run 1	0.0507 ppm	0.4663 ppm	0.1935 ppm	0.2616 ppm	1.0275 ppm	12.6319 ppm	12.7835 ppm
Concentration per Run 2	0.0498 ppm	0.4572 ppm	0.1938 ppm	0.2632 ppm	1.0289 ppm	12.7297 ppm	12.8302 ppm
Concentration per Run 3	0.0502 ppm	0.4605 ppm	0.1943 ppm	0.2631 ppm	1.0301 ppm	12.6353 ppm	12.7928 ppm
Concentration RSD	0.9 %	1.0 %	0.2 %	0.3 %	0.1 %	0.4 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5042 ppm	0.9253 ppm	22.4588 ppm	0.4761 ppm	0.5290 ppm	0.4638 ppm	0.1223 ppm
Concentration per Run 1	0.5059 ppm	0.9293 ppm	22.3842 ppm	0.4813 ppm	0.5340 ppm	0.4652 ppm	0.1222 ppm
Concentration per Run 2	0.5061 ppm	0.9178 ppm	22.5983 ppm	0.4716 ppm	0.5245 ppm	0.4603 ppm	0.1208 ppm
Concentration per Run 3	0.5005 ppm	0.9289 ppm	22.3940 ppm	0.4754 ppm	0.5286 ppm	0.4660 ppm	0.1237 ppm
Concentration RSD	0.6 %	0.7 %	0.5 %	1.0 %	0.9 %	0.7 %	1.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.9521 ppm	0.9369 ppm	1.0119 ppm	0.9535 ppm	0.1190 ppm	0.4993 ppm	0.4733 ppm
Concentration per Run 1	5.0021 ppm	0.9458 ppm	1.0095 ppm	0.9498 ppm	0.1209 ppm	0.5019 ppm	0.4786 ppm
Concentration per Run 2	4.9142 ppm	0.9288 ppm	1.0161 ppm	0.9562 ppm	0.1181 ppm	0.4962 ppm	0.4685 ppm
Concentration per Run 3	4.9400 ppm	0.9361 ppm	1.0101 ppm	0.9546 ppm	0.1179 ppm	0.4997 ppm	0.4728 ppm
Concentration RSD	0.9 %	0.9 %	0.4 %	0.4 %	1.4 %	0.6 %	1.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.0080 %	96.3097 %	95.3854 %	103.5941 %	94.5424 %	101.0500 %	-0.0002 ppm
Concentration per Run 1	100.1209 %	96.6056 %	94.9054 %	102.8995 %	93.6291 %	101.4736 %	0.0004 ppm
Concentration per Run 2	98.1437 %	96.1894 %	96.1274 %	103.3403 %	95.5447 %	100.9737 %	0.0003 ppm
Concentration per Run 3	98.7595 %	96.1341 %	95.1234 %	104.5427 %	94.4534 %	100.7027 %	-0.0013 ppm
Concentration RSD	1.0 %	0.3 %	0.7 %	0.8 %	1.0 %	0.4 %	484.5 %

LabBook: WG2039408_03122025T6.imexp

Sample: WG2039059-6D5 WG2039059
Analysis started at: 3/12/2025 2:33:30 PM
Rack: 1
Vial: 31

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0056 ppm	0.0061 ppm	0.0000 ppm	2.7554 ppm
Concentration per Run 1	0.0001 ppm	-0.0007 ppm	0.0001 ppm	0.0059 ppm	0.0061 ppm	0.0000 ppm	2.7520 ppm
Concentration per Run 2	0.0000 ppm	-0.0036 ppm	0.0008 ppm	0.0054 ppm	0.0061 ppm	0.0000 ppm	2.7563 ppm
Concentration per Run 3	-0.0001 ppm	0.0050 ppm	-0.0002 ppm	0.0054 ppm	0.0061 ppm	0.0000 ppm	2.7581 ppm
Concentration RSD	260.0 %	1,826.1 %	253.0 %	5.0 %	0.6 %	91.0 %	0.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0007 ppm	0.0043 ppm	0.4413 ppm	0.5395 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0008 ppm	0.0044 ppm	0.4288 ppm	0.5393 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0006 ppm	0.0059 ppm	0.4505 ppm	0.5409 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0006 ppm	0.0027 ppm	0.4446 ppm	0.5384 ppm
Concentration RSD	280.5 %	295.5 %	376.0 %	16.2 %	36.9 %	2.5 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0003 ppm	0.0028 ppm	2.3575 ppm	-0.0001 ppm	-0.0007 ppm	0.0029 ppm	-0.0011 ppm
Concentration per Run 1	0.0003 ppm	0.0033 ppm	2.3562 ppm	0.0000 ppm	-0.0007 ppm	0.0040 ppm	-0.0017 ppm
Concentration per Run 2	0.0003 ppm	0.0026 ppm	2.3612 ppm	-0.0001 ppm	-0.0006 ppm	0.0032 ppm	-0.0015 ppm
Concentration per Run 3	0.0004 ppm	0.0025 ppm	2.3550 ppm	-0.0001 ppm	-0.0007 ppm	0.0015 ppm	0.0000 ppm
Concentration RSD	8.5 %	15.5 %	0.1 %	76.2 %	8.6 %	43.7 %	84.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.8148 ppm	0.0016 ppm	0.0117 ppm	0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0026 ppm
Concentration per Run 1	0.8149 ppm	0.0018 ppm	0.0117 ppm	0.0002 ppm	0.0005 ppm	0.0001 ppm	0.0026 ppm
Concentration per Run 2	0.8138 ppm	0.0016 ppm	0.0118 ppm	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0026 ppm
Concentration per Run 3	0.8158 ppm	0.0012 ppm	0.0117 ppm	0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0027 ppm
Concentration RSD	0.1 %	20.3 %	0.7 %	80.0 %	71.4 %	69.7 %	1.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.4920 %	98.9092 %	98.5387 %	102.4949 %	100.7345 %	102.5660 %	-0.0005 ppm
Concentration per Run 1	99.5441 %	98.8025 %	98.9283 %	102.3597 %	100.5890 %	102.3730 %	-0.0002 ppm
Concentration per Run 2	98.1978 %	99.0732 %	98.3923 %	102.6698 %	101.2701 %	102.7547 %	-0.0010 ppm
Concentration per Run 3	97.7342 %	98.8520 %	98.2955 %	102.4551 %	100.3446 %	102.5704 %	-0.0003 ppm
Concentration RSD	1.0 %	0.1 %	0.3 %	0.2 %	0.5 %	0.2 %	82.9 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: CCV
Analysis started at: 3/12/2025 2:40:06 PM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4757 ppm	0.4809 ppm	0.4743 ppm	0.4713 ppm	0.4621 ppm	0.4805 ppm	0.4994 ppm
Concentration per Run 1	0.4484 ppm	0.4782 ppm	0.4785 ppm	0.4746 ppm	0.4557 ppm	0.4747 ppm	0.4923 ppm
Concentration per Run 2	0.4980 ppm	0.4784 ppm	0.4735 ppm	0.4713 ppm	0.4646 ppm	0.4824 ppm	0.5004 ppm
Concentration per Run 3	0.4807 ppm	0.4862 ppm	0.4708 ppm	0.4678 ppm	0.4658 ppm	0.4846 ppm	0.5055 ppm
Recovery Percentage 1	95.139 %	96.185 %	94.852 %	94.252 %	92.411 %	96.108 %	99.876 %
Concentration RSD	5.3 %	1.0 %	0.8 %	0.7 %	1.2 %	1.1 %	1.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4571 ppm	0.4584 ppm	0.4724 ppm	0.4806 ppm	0.4895 ppm	4.9681 ppm	0.4917 ppm
Concentration per Run 1	0.4598 ppm	0.4614 ppm	0.4463 ppm	0.4502 ppm	0.4810 ppm	4.8994 ppm	0.4618 ppm
Concentration per Run 2	0.4578 ppm	0.4589 ppm	0.4979 ppm	0.5056 ppm	0.4911 ppm	5.0136 ppm	0.5187 ppm
Concentration per Run 3	0.4536 ppm	0.4551 ppm	0.4731 ppm	0.4859 ppm	0.4963 ppm	4.9913 ppm	0.4946 ppm
Recovery Percentage 1	91.414 %	91.689 %	94.483 %	96.117 %	97.893 %	99.362 %	98.343 %
Concentration RSD	0.7 %	0.7 %	5.5 %	5.8 %	1.6 %	1.2 %	5.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4752 ppm	0.4586 ppm	9.6248 ppm	0.4671 ppm	0.4735 ppm	0.4636 ppm	0.4794 ppm
Concentration per Run 1	0.4687 ppm	0.4608 ppm	9.5161 ppm	0.4700 ppm	0.4758 ppm	0.4663 ppm	0.4836 ppm
Concentration per Run 2	0.4764 ppm	0.4588 ppm	9.7077 ppm	0.4680 ppm	0.4748 ppm	0.4648 ppm	0.4816 ppm
Concentration per Run 3	0.4806 ppm	0.4561 ppm	9.6507 ppm	0.4632 ppm	0.4698 ppm	0.4598 ppm	0.4729 ppm
Recovery Percentage 1	95.045 %	91.717 %	96.248 %	93.411 %	94.692 %	92.720 %	95.871 %
Concentration RSD	1.3 %	0.5 %	1.0 %	0.7 %	0.7 %	0.7 %	1.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.1850 ppm	0.4640 ppm	0.4672 ppm	0.4723 ppm	0.4731 ppm	0.4779 ppm	0.4550 ppm
Concentration per Run 1	5.2178 ppm	0.4672 ppm	0.4608 ppm	0.4459 ppm	0.4773 ppm	0.4775 ppm	0.4571 ppm
Concentration per Run 2	5.1903 ppm	0.4637 ppm	0.4698 ppm	0.4956 ppm	0.4733 ppm	0.4817 ppm	0.4562 ppm
Concentration per Run 3	5.1468 ppm	0.4610 ppm	0.4711 ppm	0.4755 ppm	0.4686 ppm	0.4745 ppm	0.4516 ppm
Recovery Percentage 1	98.761 %	92.799 %	93.445 %	94.462 %	94.610 %	95.579 %	90.995 %
Concentration RSD	0.7 %	0.7 %	1.2 %	5.3 %	0.9 %	0.8 %	0.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.2282 %	99.4961 %	98.3486 %	104.6658 %	98.0619 %	103.2751 %	0.4743 ppm
Concentration per Run 1	99.4958 %	104.7305 %	97.7962 %	106.2073 %	97.4470 %	108.5057 %	0.4689 ppm
Concentration per Run 2	98.1871 %	94.5332 %	98.3326 %	104.7809 %	98.0757 %	98.7944 %	0.4796 ppm
Concentration per Run 3	97.0016 %	99.2246 %	98.9168 %	103.0092 %	98.6630 %	102.5253 %	0.4745 ppm
Recovery Percentage 1							94.864 %
Concentration RSD	1.3 %	5.1 %	0.6 %	1.5 %	0.6 %	4.7 %	1.1 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: CCB
Analysis started at: 3/12/2025 2:46:25 PM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	-0.0042 ppm	-0.0006 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0031 ppm
Concentration per Run 1	-0.0001 ppm	-0.0052 ppm	-0.0014 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0027 ppm
Concentration per Run 2	0.0004 ppm	-0.0033 ppm	-0.0001 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm
Concentration per Run 3	0.0003 ppm	-0.0039 ppm	-0.0005 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	0.0062 ppm
Recovery Percentage 1	2.996 %	-4.159 %	-12.887 %	2.879 %	-0.129 %	-0.426 %	3.083 %
Concentration RSD	148.6 %	22.9 %	104.6 %	15.0 %	233.7 %	17.9 %	95.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0005 ppm	0.0130 ppm	0.0008 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0003 ppm	0.0002 ppm	0.0283 ppm	0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0012 ppm	0.0038 ppm	0.0018 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0005 ppm	0.0002 ppm	0.0069 ppm	0.0007 ppm
Recovery Percentage 1	0.136 %	0.231 %	1.808 %	2.195 %	1.089 %	0.519 %	0.836 %
Concentration RSD	258.0 %	176.2 %	75.8 %	144.1 %	100.1 %	102.8 %	101.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0001 ppm	0.0008 ppm	0.0040 ppm	-0.0001 ppm	0.0000 ppm	0.0007 ppm	-0.0009 ppm
Concentration per Run 1	0.0002 ppm	0.0009 ppm	0.0041 ppm	-0.0001 ppm	0.0000 ppm	0.0010 ppm	-0.0009 ppm
Concentration per Run 2	-0.0001 ppm	0.0008 ppm	0.0043 ppm	0.0000 ppm	0.0004 ppm	0.0004 ppm	-0.0016 ppm
Concentration per Run 3	-0.0003 ppm	0.0006 ppm	0.0034 ppm	-0.0001 ppm	-0.0005 ppm	0.0007 ppm	-0.0002 ppm
Recovery Percentage 1	-0.559 %	1.528 %	0.198 %	-0.391 %	-0.070 %	1.373 %	-9.076 %
Concentration RSD	474.7 %	21.6 %	12.3 %	64.6 %	6,610.0 %	39.9 %	78.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0014 ppm	0.0005 ppm	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 1	0.0010 ppm	0.0005 ppm	0.0000 ppm	0.0001 ppm	0.0013 ppm	0.0002 ppm	-0.0002 ppm
Concentration per Run 2	0.0009 ppm	0.0006 ppm	-0.0001 ppm	-0.0002 ppm	0.0003 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 3	0.0022 ppm	0.0003 ppm	0.0000 ppm	-0.0003 ppm	-0.0006 ppm	0.0001 ppm	-0.0002 ppm
Recovery Percentage 1	0.273 %	0.971 %	0.023 %	-1.276 %	1.806 %	1.056 %	-1.975 %
Concentration RSD	52.1 %	26.6 %	2,618.1 %	157.1 %	266.7 %	42.9 %	146.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	97.7055 %	101.3674 %	99.7376 %	102.0733 %	101.4756 %	103.8767 %	0.0000 ppm
Concentration per Run 1	98.9100 %	100.5407 %	100.1933 %	102.5425 %	101.9033 %	103.0418 %	0.0003 ppm
Concentration per Run 2	97.8422 %	102.7998 %	99.6101 %	102.0176 %	101.5480 %	105.1540 %	-0.0006 ppm
Concentration per Run 3	96.3643 %	100.7615 %	99.4094 %	101.6597 %	100.9755 %	103.4343 %	0.0002 ppm
Recovery Percentage 1							-0.393 %
Concentration RSD	1.3 %	1.2 %	0.4 %	0.4 %	0.5 %	1.1 %	1,357.1 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: L2512368-04 WG2039059
Analysis started at: 3/12/2025 3:09:34 PM
Rack: 1
Vial: 37

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0035 ppm	-0.0007 ppm	0.0163 ppm	0.0180 ppm	0.0000 ppm	26.9443 ppm
Concentration per Run 1	-0.0001 ppm	0.0099 ppm	-0.0009 ppm	0.0165 ppm	0.0182 ppm	0.0000 ppm	27.0936 ppm
Concentration per Run 2	0.0001 ppm	-0.0002 ppm	-0.0001 ppm	0.0162 ppm	0.0180 ppm	0.0000 ppm	27.0539 ppm
Concentration per Run 3	0.0000 ppm	0.0007 ppm	-0.0013 ppm	0.0161 ppm	0.0179 ppm	0.0000 ppm	26.6853 ppm
Concentration RSD	434.1 %	160.9 %	83.4 %	1.3 %	0.9 %	249.1 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0019 ppm	0.0005 ppm	0.0176 ppm	1.1879 ppm	5.5491 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0019 ppm	0.0004 ppm	0.0157 ppm	1.1850 ppm	5.5343 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0015 ppm	0.0006 ppm	0.0191 ppm	1.1739 ppm	5.5362 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0022 ppm	0.0006 ppm	0.0178 ppm	1.2047 ppm	5.5770 ppm
Concentration RSD	119.3 %	158.7 %	17.5 %	20.6 %	9.8 %	1.3 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0028 ppm	0.0000 ppm	9.4976 ppm	0.0157 ppm	-0.0019 ppm	-0.0004 ppm	-0.0018 ppm
Concentration per Run 1	0.0028 ppm	0.0000 ppm	9.5451 ppm	0.0156 ppm	-0.0020 ppm	-0.0004 ppm	-0.0031 ppm
Concentration per Run 2	0.0027 ppm	-0.0001 ppm	9.4801 ppm	0.0159 ppm	-0.0018 ppm	-0.0009 ppm	-0.0012 ppm
Concentration per Run 3	0.0028 ppm	0.0000 ppm	9.4676 ppm	0.0157 ppm	-0.0018 ppm	0.0002 ppm	-0.0012 ppm
Concentration RSD	1.9 %	65.4 %	0.4 %	1.0 %	5.5 %	141.1 %	58.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.4933 ppm	0.0002 ppm	0.0891 ppm	0.0001 ppm	-0.0002 ppm	0.0003 ppm	0.0131 ppm
Concentration per Run 1	3.5114 ppm	0.0000 ppm	0.0894 ppm	0.0002 ppm	0.0002 ppm	0.0004 ppm	0.0132 ppm
Concentration per Run 2	3.4891 ppm	0.0002 ppm	0.0891 ppm	-0.0001 ppm	0.0006 ppm	0.0002 ppm	0.0130 ppm
Concentration per Run 3	3.4793 ppm	0.0002 ppm	0.0888 ppm	0.0003 ppm	-0.0014 ppm	0.0003 ppm	0.0130 ppm
Concentration RSD	0.5 %	75.3 %	0.4 %	140.6 %	474.3 %	40.7 %	0.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.9036 %	100.0290 %	98.8399 %	101.0954 %	98.4305 %	101.7206 %	-0.0004 ppm
Concentration per Run 1	101.7826 %	100.4678 %	98.7971 %	100.9055 %	98.0980 %	101.9923 %	-0.0007 ppm
Concentration per Run 2	98.7666 %	100.2031 %	98.8349 %	100.5414 %	98.5610 %	101.8665 %	0.0000 ppm
Concentration per Run 3	99.1615 %	99.4162 %	98.8877 %	101.8392 %	98.6326 %	101.3029 %	-0.0003 ppm
Concentration RSD	1.6 %	0.5 %	0.0 %	0.7 %	0.3 %	0.4 %	93.5 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: L2512368-05 WG2039059
Analysis started at: 3/12/2025 3:16:07 PM
Rack: 1
Vial: 38

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0058 ppm	-0.0021 ppm	0.0126 ppm	0.0391 ppm	0.0000 ppm	22.5156 ppm
Concentration per Run 1	-0.0003 ppm	0.0069 ppm	-0.0022 ppm	0.0129 ppm	0.0391 ppm	0.0000 ppm	22.4881 ppm
Concentration per Run 2	-0.0002 ppm	0.0080 ppm	-0.0017 ppm	0.0126 ppm	0.0393 ppm	0.0001 ppm	22.6611 ppm
Concentration per Run 3	0.0000 ppm	0.0025 ppm	-0.0023 ppm	0.0125 ppm	0.0390 ppm	0.0000 ppm	22.3977 ppm
Concentration RSD	97.6 %	50.0 %	13.9 %	1.5 %	0.3 %	141.1 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0003 ppm	0.0019 ppm	0.0003 ppm	0.0236 ppm	1.2119 ppm	4.8448 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	0.0018 ppm	0.0004 ppm	0.0234 ppm	1.2169 ppm	4.8798 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	0.0018 ppm	0.0004 ppm	0.0239 ppm	1.2126 ppm	4.8408 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0020 ppm	0.0002 ppm	0.0237 ppm	1.2061 ppm	4.8137 ppm
Concentration RSD	89.8 %	12.9 %	3.8 %	38.0 %	1.2 %	0.5 %	0.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0013 ppm	-0.0002 ppm	10.5302 ppm	0.0089 ppm	-0.0025 ppm	-0.0004 ppm	-0.0012 ppm
Concentration per Run 1	0.0014 ppm	-0.0003 ppm	10.5404 ppm	0.0090 ppm	-0.0017 ppm	-0.0006 ppm	-0.0005 ppm
Concentration per Run 2	0.0012 ppm	-0.0003 ppm	10.5507 ppm	0.0089 ppm	-0.0026 ppm	-0.0007 ppm	-0.0010 ppm
Concentration per Run 3	0.0014 ppm	0.0000 ppm	10.4996 ppm	0.0089 ppm	-0.0031 ppm	0.0003 ppm	-0.0020 ppm
Concentration RSD	6.7 %	99.4 %	0.3 %	0.5 %	27.7 %	155.9 %	69.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.6089 ppm	0.0003 ppm	0.0944 ppm	0.0004 ppm	-0.0015 ppm	0.0001 ppm	0.0121 ppm
Concentration per Run 1	5.6342 ppm	0.0003 ppm	0.0948 ppm	0.0004 ppm	-0.0023 ppm	0.0002 ppm	0.0120 ppm
Concentration per Run 2	5.6053 ppm	0.0004 ppm	0.0944 ppm	0.0001 ppm	-0.0011 ppm	0.0001 ppm	0.0122 ppm
Concentration per Run 3	5.5873 ppm	0.0001 ppm	0.0941 ppm	0.0005 ppm	-0.0010 ppm	0.0001 ppm	0.0122 ppm
Concentration RSD	0.4 %	72.6 %	0.3 %	59.9 %	51.0 %	41.5 %	0.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.9341 %	101.2146 %	99.3397 %	100.1550 %	98.3201 %	101.6922 %	0.0000 ppm
Concentration per Run 1	102.2078 %	101.0709 %	99.1632 %	100.3245 %	97.8889 %	101.3752 %	-0.0004 ppm
Concentration per Run 2	98.7092 %	101.1487 %	99.3332 %	99.6209 %	98.3223 %	101.5680 %	0.0002 ppm
Concentration per Run 3	98.8851 %	101.4241 %	99.5227 %	100.5197 %	98.7490 %	102.1332 %	0.0002 ppm
Concentration RSD	2.0 %	0.2 %	0.2 %	0.5 %	0.4 %	0.4 %	4,061.0 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: L2512368-07 WG2039059
Analysis started at: 3/12/2025 3:22:40 PM
Rack: 1
Vial: 39

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0082 ppm	-0.0015 ppm	0.0513 ppm	0.1158 ppm	0.0000 ppm	78.5492 ppm
Concentration per Run 1	-0.0001 ppm	0.0057 ppm	-0.0017 ppm	0.0516 ppm	0.1159 ppm	0.0000 ppm	78.9769 ppm
Concentration per Run 2	-0.0003 ppm	0.0083 ppm	-0.0021 ppm	0.0515 ppm	0.1169 ppm	0.0000 ppm	79.1756 ppm
Concentration per Run 3	0.0001 ppm	0.0107 ppm	-0.0006 ppm	0.0508 ppm	0.1147 ppm	0.0001 ppm	77.4952 ppm
Concentration RSD	236.0 %	30.0 %	54.0 %	0.9 %	0.9 %	88.4 %	1.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0001 ppm	0.0001 ppm	0.0010 ppm	0.0024 ppm	0.0139 ppm	11.9986 ppm	14.3092 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0011 ppm	0.0025 ppm	0.0139 ppm	11.9913 ppm	14.3637 ppm
Concentration per Run 2	-0.0001 ppm	0.0001 ppm	0.0010 ppm	0.0024 ppm	0.0141 ppm	12.1341 ppm	14.2599 ppm
Concentration per Run 3	-0.0001 ppm	0.0001 ppm	0.0009 ppm	0.0024 ppm	0.0138 ppm	11.8705 ppm	14.3041 ppm
Concentration RSD	37.5 %	32.8 %	8.3 %	1.5 %	0.9 %	1.1 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	3.3089 ppm	0.0000 ppm	14.0813 ppm	0.0009 ppm	-0.0025 ppm	-0.0006 ppm	-0.0016 ppm
Concentration per Run 1	3.3287 ppm	0.0000 ppm	14.0673 ppm	0.0009 ppm	-0.0025 ppm	-0.0011 ppm	-0.0023 ppm
Concentration per Run 2	3.3329 ppm	0.0002 ppm	14.2121 ppm	0.0009 ppm	-0.0027 ppm	-0.0002 ppm	-0.0017 ppm
Concentration per Run 3	3.2651 ppm	0.0000 ppm	13.9644 ppm	0.0009 ppm	-0.0024 ppm	-0.0006 ppm	-0.0009 ppm
Concentration RSD	1.1 %	567.2 %	0.9 %	3.2 %	7.0 %	69.9 %	44.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.6282 ppm	0.0002 ppm	0.3140 ppm	0.0007 ppm	-0.0022 ppm	0.0067 ppm	0.0152 ppm
Concentration per Run 1	4.6480 ppm	0.0004 ppm	0.3147 ppm	0.0006 ppm	-0.0017 ppm	0.0067 ppm	0.0153 ppm
Concentration per Run 2	4.6397 ppm	-0.0001 ppm	0.3167 ppm	0.0010 ppm	-0.0028 ppm	0.0068 ppm	0.0151 ppm
Concentration per Run 3	4.5971 ppm	0.0003 ppm	0.3105 ppm	0.0005 ppm	-0.0020 ppm	0.0067 ppm	0.0152 ppm
Concentration RSD	0.6 %	170.1 %	1.0 %	37.6 %	24.0 %	0.2 %	0.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.1487 %	99.8198 %	97.3046 %	99.4995 %	94.6377 %	99.2154 %	0.0002 ppm
Concentration per Run 1	101.7568 %	99.7588 %	96.9471 %	99.0487 %	94.1955 %	99.0762 %	0.0009 ppm
Concentration per Run 2	98.9511 %	99.9143 %	97.1985 %	98.9722 %	94.8322 %	99.2864 %	-0.0011 ppm
Concentration per Run 3	99.7382 %	99.7863 %	97.7683 %	100.4777 %	94.8853 %	99.2837 %	0.0008 ppm
Concentration RSD	1.4 %	0.1 %	0.4 %	0.9 %	0.4 %	0.1 %	585.5 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: L2512368-08 WG2039059
Analysis started at: 3/12/2025 3:29:13 PM
Rack: 1
Vial: 40

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0086 ppm	-0.0001 ppm	0.0160 ppm	0.0319 ppm	0.0000 ppm	31.5075 ppm
Concentration per Run 1	-0.0001 ppm	0.0022 ppm	0.0000 ppm	0.0159 ppm	0.0320 ppm	0.0000 ppm	31.3622 ppm
Concentration per Run 2	0.0002 ppm	0.0095 ppm	0.0003 ppm	0.0159 ppm	0.0319 ppm	0.0000 ppm	31.5915 ppm
Concentration per Run 3	0.0002 ppm	0.0139 ppm	-0.0005 ppm	0.0161 ppm	0.0318 ppm	0.0000 ppm	31.5688 ppm
Concentration RSD	130.7 %	69.2 %	411.0 %	0.8 %	0.3 %	4,515.1 %	0.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0023 ppm	0.0004 ppm	0.0644 ppm	1.6186 ppm	5.7812 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0025 ppm	0.0003 ppm	0.0639 ppm	1.6323 ppm	5.7588 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0021 ppm	0.0006 ppm	0.0649 ppm	1.6257 ppm	5.7719 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0022 ppm	0.0004 ppm	0.0645 ppm	1.5979 ppm	5.8129 ppm
Concentration RSD	145.5 %	61.2 %	8.1 %	35.2 %	0.7 %	1.1 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0147 ppm	-0.0003 ppm	12.5014 ppm	0.0043 ppm	-0.0024 ppm	-0.0005 ppm	-0.0021 ppm
Concentration per Run 1	0.0146 ppm	-0.0003 ppm	12.5662 ppm	0.0043 ppm	-0.0019 ppm	-0.0004 ppm	-0.0035 ppm
Concentration per Run 2	0.0147 ppm	-0.0002 ppm	12.4981 ppm	0.0042 ppm	-0.0026 ppm	-0.0009 ppm	-0.0019 ppm
Concentration per Run 3	0.0147 ppm	-0.0004 ppm	12.4400 ppm	0.0044 ppm	-0.0028 ppm	-0.0002 ppm	-0.0008 ppm
Concentration RSD	0.6 %	33.4 %	0.5 %	2.3 %	19.4 %	71.9 %	66.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.0570 ppm	0.0004 ppm	0.1095 ppm	0.0003 ppm	-0.0010 ppm	0.0003 ppm	0.0135 ppm
Concentration per Run 1	5.0642 ppm	0.0004 ppm	0.1095 ppm	0.0006 ppm	-0.0007 ppm	0.0005 ppm	0.0136 ppm
Concentration per Run 2	5.0584 ppm	0.0005 ppm	0.1097 ppm	0.0003 ppm	-0.0015 ppm	0.0002 ppm	0.0134 ppm
Concentration per Run 3	5.0484 ppm	0.0002 ppm	0.1093 ppm	0.0001 ppm	-0.0009 ppm	0.0003 ppm	0.0134 ppm
Concentration RSD	0.2 %	42.5 %	0.2 %	69.2 %	41.4 %	56.1 %	1.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.3535 %	101.1558 %	99.1155 %	101.8644 %	96.1775 %	100.6976 %	-0.0004 ppm
Concentration per Run 1	102.9922 %	101.1150 %	99.2142 %	102.4684 %	95.9089 %	100.7565 %	-0.0012 ppm
Concentration per Run 2	99.6195 %	101.1285 %	98.7789 %	101.8552 %	96.3704 %	100.8421 %	-0.0002 ppm
Concentration per Run 3	98.4488 %	101.2238 %	99.3534 %	101.2698 %	96.2532 %	100.4942 %	0.0003 ppm
Concentration RSD	2.4 %	0.1 %	0.3 %	0.6 %	0.2 %	0.2 %	197.6 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: L2512368-11 WG2039059
Analysis started at: 3/12/2025 3:35:46 PM
Rack: 1
Vial: 41

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.1192 ppm	-0.0011 ppm	0.0066 ppm	0.0027 ppm	0.0001 ppm	8.5410 ppm
Concentration per Run 1	-0.0001 ppm	0.1189 ppm	-0.0005 ppm	0.0067 ppm	0.0027 ppm	0.0001 ppm	8.5381 ppm
Concentration per Run 2	0.0004 ppm	0.1204 ppm	-0.0014 ppm	0.0066 ppm	0.0028 ppm	0.0001 ppm	8.5662 ppm
Concentration per Run 3	-0.0002 ppm	0.1183 ppm	-0.0016 ppm	0.0064 ppm	0.0025 ppm	0.0000 ppm	8.5187 ppm
Concentration RSD	510.9 %	0.9 %	52.4 %	2.5 %	4.2 %	98.4 %	0.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0005 ppm	0.0013 ppm	0.0004 ppm	1.1770 ppm	1.0511 ppm	3.2629 ppm
Concentration per Run 1	0.0000 ppm	-0.0005 ppm	0.0014 ppm	0.0003 ppm	1.1734 ppm	1.0450 ppm	3.2707 ppm
Concentration per Run 2	0.0001 ppm	-0.0006 ppm	0.0012 ppm	0.0004 ppm	1.1827 ppm	1.0666 ppm	3.2668 ppm
Concentration per Run 3	0.0001 ppm	-0.0005 ppm	0.0013 ppm	0.0003 ppm	1.1750 ppm	1.0416 ppm	3.2511 ppm
Concentration RSD	47.0 %	8.7 %	7.1 %	15.5 %	0.4 %	1.3 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0352 ppm	-0.0001 ppm	5.9580 ppm	-0.0006 ppm	-0.0059 ppm	-0.0004 ppm	-0.0002 ppm
Concentration per Run 1	0.0351 ppm	0.0000 ppm	5.9572 ppm	-0.0005 ppm	-0.0064 ppm	-0.0008 ppm	0.0002 ppm
Concentration per Run 2	0.0356 ppm	0.0000 ppm	6.0153 ppm	-0.0006 ppm	-0.0057 ppm	-0.0002 ppm	-0.0005 ppm
Concentration per Run 3	0.0349 ppm	-0.0002 ppm	5.9015 ppm	-0.0005 ppm	-0.0057 ppm	-0.0003 ppm	-0.0003 ppm
Concentration RSD	1.1 %	162.3 %	1.0 %	13.6 %	6.3 %	70.5 %	170.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	12.4610 ppm	0.0003 ppm	0.0385 ppm	0.0067 ppm	-0.0007 ppm	0.0007 ppm	0.0117 ppm
Concentration per Run 1	12.5020 ppm	0.0002 ppm	0.0385 ppm	0.0067 ppm	-0.0003 ppm	0.0006 ppm	0.0117 ppm
Concentration per Run 2	12.4503 ppm	0.0006 ppm	0.0388 ppm	0.0065 ppm	-0.0012 ppm	0.0008 ppm	0.0117 ppm
Concentration per Run 3	12.4307 ppm	0.0002 ppm	0.0381 ppm	0.0068 ppm	-0.0006 ppm	0.0006 ppm	0.0118 ppm
Concentration RSD	0.3 %	63.7 %	0.9 %	2.5 %	65.4 %	15.5 %	0.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.7265 %	102.7531 %	101.0950 %	99.7128 %	99.6627 %	102.0995 %	0.0016 ppm
Concentration per Run 1	103.6287 %	102.9259 %	100.9428 %	100.3324 %	99.3218 %	102.1252 %	0.0020 ppm
Concentration per Run 2	99.9530 %	102.6403 %	101.1055 %	99.6620 %	100.0329 %	102.0190 %	0.0015 ppm
Concentration per Run 3	98.5977 %	102.6931 %	101.2368 %	99.1440 %	99.6333 %	102.1543 %	0.0011 ppm
Concentration RSD	2.6 %	0.1 %	0.1 %	0.6 %	0.4 %	0.1 %	31.1 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: L2512368-01 WG2039059
Analysis started at: 3/12/2025 3:42:20 PM
Rack: 1
Vial: 32

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0051 ppm	-0.0010 ppm	0.0115 ppm	0.0152 ppm	0.0000 ppm	24.0971 ppm
Concentration per Run 1	0.0000 ppm	0.0063 ppm	-0.0011 ppm	0.0117 ppm	0.0152 ppm	0.0000 ppm	24.0961 ppm
Concentration per Run 2	0.0000 ppm	-0.0037 ppm	-0.0005 ppm	0.0115 ppm	0.0152 ppm	0.0001 ppm	24.2049 ppm
Concentration per Run 3	0.0003 ppm	0.0125 ppm	-0.0015 ppm	0.0115 ppm	0.0152 ppm	0.0000 ppm	23.9903 ppm
Concentration RSD	186.3 %	161.8 %	47.7 %	1.1 %	0.1 %	97.7 %	0.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0012 ppm	0.0001 ppm	0.0098 ppm	1.8893 ppm	4.6953 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0008 ppm	0.0000 ppm	0.0106 ppm	1.9010 ppm	4.7139 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0011 ppm	0.0001 ppm	0.0096 ppm	1.8853 ppm	4.6829 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0017 ppm	0.0002 ppm	0.0091 ppm	1.8815 ppm	4.6891 ppm
Concentration RSD	56.5 %	70.9 %	36.9 %	96.1 %	7.9 %	0.5 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0180 ppm	0.0001 ppm	9.1821 ppm	0.0000 ppm	-0.0010 ppm	-0.0009 ppm	-0.0001 ppm
Concentration per Run 1	0.0182 ppm	0.0000 ppm	9.2133 ppm	-0.0001 ppm	-0.0009 ppm	-0.0006 ppm	-0.0011 ppm
Concentration per Run 2	0.0183 ppm	0.0002 ppm	9.1689 ppm	0.0001 ppm	-0.0013 ppm	-0.0009 ppm	0.0012 ppm
Concentration per Run 3	0.0174 ppm	0.0001 ppm	9.1642 ppm	0.0000 ppm	-0.0009 ppm	-0.0011 ppm	-0.0004 ppm
Concentration RSD	2.9 %	93.4 %	0.3 %	1,152.5 %	22.3 %	31.9 %	1,226.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.6293 ppm	0.0005 ppm	0.0804 ppm	0.0003 ppm	-0.0009 ppm	0.0007 ppm	0.0134 ppm
Concentration per Run 1	1.6348 ppm	0.0007 ppm	0.0806 ppm	0.0003 ppm	-0.0007 ppm	0.0008 ppm	0.0136 ppm
Concentration per Run 2	1.6247 ppm	0.0000 ppm	0.0805 ppm	0.0005 ppm	-0.0009 ppm	0.0008 ppm	0.0133 ppm
Concentration per Run 3	1.6283 ppm	0.0007 ppm	0.0800 ppm	0.0003 ppm	-0.0010 ppm	0.0004 ppm	0.0134 ppm
Concentration RSD	0.3 %	93.6 %	0.4 %	31.0 %	20.1 %	34.7 %	1.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.7743 %	102.6039 %	100.5306 %	99.1344 %	99.3913 %	100.9597 %	-0.0002 ppm
Concentration per Run 1	103.0101 %	102.6237 %	100.5799 %	99.0689 %	98.8995 %	100.8794 %	-0.0002 ppm
Concentration per Run 2	99.4028 %	103.0632 %	100.6284 %	98.5564 %	99.5988 %	101.3286 %	0.0007 ppm
Concentration per Run 3	99.9099 %	102.1249 %	100.3836 %	99.7781 %	99.6756 %	100.6712 %	-0.0012 ppm
Concentration RSD	1.9 %	0.5 %	0.1 %	0.6 %	0.4 %	0.3 %	431.7 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: WG2039059-7 WG2039059
Analysis started at: 3/12/2025 3:48:53 PM
Rack: 1
Vial: 33

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0501 ppm	2.0238 ppm	0.1091 ppm	0.9356 ppm	1.9349 ppm	0.0492 ppm	33.0355 ppm
Concentration per Run 1	0.0500 ppm	2.0047 ppm	0.1094 ppm	0.9362 ppm	1.9224 ppm	0.0490 ppm	32.7875 ppm
Concentration per Run 2	0.0499 ppm	2.0395 ppm	0.1086 ppm	0.9356 ppm	1.9438 ppm	0.0494 ppm	33.2398 ppm
Concentration per Run 3	0.0503 ppm	2.0273 ppm	0.1094 ppm	0.9351 ppm	1.9386 ppm	0.0493 ppm	33.0792 ppm
Concentration RSD	0.4 %	0.9 %	0.4 %	0.1 %	0.6 %	0.5 %	0.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0486 ppm	0.4572 ppm	0.1918 ppm	0.2412 ppm	0.9938 ppm	12.5258 ppm	14.4369 ppm
Concentration per Run 1	0.0487 ppm	0.4566 ppm	0.1922 ppm	0.2424 ppm	0.9825 ppm	12.5008 ppm	14.4798 ppm
Concentration per Run 2	0.0486 ppm	0.4574 ppm	0.1918 ppm	0.2395 ppm	1.0016 ppm	12.5574 ppm	14.3914 ppm
Concentration per Run 3	0.0487 ppm	0.4576 ppm	0.1913 ppm	0.2418 ppm	0.9974 ppm	12.5193 ppm	14.4396 ppm
Concentration RSD	0.1 %	0.1 %	0.2 %	0.6 %	1.0 %	0.2 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4940 ppm	0.9000 ppm	19.1975 ppm	0.4606 ppm	0.4897 ppm	0.4647 ppm	0.1108 ppm
Concentration per Run 1	0.4911 ppm	0.8938 ppm	19.1127 ppm	0.4596 ppm	0.4896 ppm	0.4613 ppm	0.1093 ppm
Concentration per Run 2	0.4968 ppm	0.9005 ppm	19.3057 ppm	0.4612 ppm	0.4896 ppm	0.4622 ppm	0.1107 ppm
Concentration per Run 3	0.4942 ppm	0.9056 ppm	19.1741 ppm	0.4610 ppm	0.4899 ppm	0.4707 ppm	0.1123 ppm
Concentration RSD	0.6 %	0.7 %	0.5 %	0.2 %	0.0 %	1.1 %	1.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.6835 ppm	0.8880 ppm	1.0288 ppm	0.9708 ppm	0.1047 ppm	0.4770 ppm	0.4748 ppm
Concentration per Run 1	2.6767 ppm	0.8888 ppm	1.0225 ppm	0.9730 ppm	0.1052 ppm	0.4781 ppm	0.4758 ppm
Concentration per Run 2	2.6839 ppm	0.8867 ppm	1.0334 ppm	0.9669 ppm	0.1055 ppm	0.4764 ppm	0.4747 ppm
Concentration per Run 3	2.6900 ppm	0.8885 ppm	1.0307 ppm	0.9724 ppm	0.1034 ppm	0.4766 ppm	0.4738 ppm
Concentration RSD	0.2 %	0.1 %	0.6 %	0.3 %	1.1 %	0.2 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.1235 %	101.2797 %	99.3037 %	102.7622 %	96.9598 %	101.0754 %	0.0000 ppm
Concentration per Run 1	103.7926 %	101.3915 %	99.4078 %	103.8308 %	97.2259 %	101.1668 %	-0.0006 ppm
Concentration per Run 2	99.7927 %	101.2257 %	99.3226 %	101.9578 %	96.9694 %	101.0991 %	-0.0002 ppm
Concentration per Run 3	99.7851 %	101.2220 %	99.1807 %	102.4980 %	96.6842 %	100.9603 %	0.0009 ppm
Concentration RSD	2.3 %	0.1 %	0.1 %	0.9 %	0.3 %	0.1 %	2,782.2 %

LabBook: WG2039408_03122025T6.imexp

Sample: WG2039059-8 WG2039059
Analysis started at: 3/12/2025 3:55:10 PM
Rack: 1
Vial: 34

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0062 ppm	-0.0012 ppm	0.0132 ppm	0.0151 ppm	0.0000 ppm	23.8416 ppm
Concentration per Run 1	0.0000 ppm	-0.0007 ppm	-0.0015 ppm	0.0135 ppm	0.0151 ppm	0.0001 ppm	23.8328 ppm
Concentration per Run 2	0.0005 ppm	0.0119 ppm	-0.0029 ppm	0.0129 ppm	0.0152 ppm	0.0000 ppm	23.9302 ppm
Concentration per Run 3	-0.0001 ppm	0.0076 ppm	0.0007 ppm	0.0132 ppm	0.0149 ppm	0.0000 ppm	23.7616 ppm
Concentration RSD	235.1 %	102.5 %	150.9 %	2.1 %	0.8 %	95.1 %	0.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0002 ppm	0.0025 ppm	1.8823 ppm	4.6573 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0003 ppm	0.0004 ppm	0.0020 ppm	1.8891 ppm	4.6743 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0001 ppm	0.0029 ppm	1.8995 ppm	4.6507 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0002 ppm	0.0025 ppm	1.8583 ppm	4.6469 ppm
Concentration RSD	42.0 %	3.5 %	33.4 %	64.1 %	18.6 %	1.1 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0014 ppm	0.0029 ppm	9.1185 ppm	0.0000 ppm	-0.0011 ppm	0.0016 ppm	-0.0007 ppm
Concentration per Run 1	0.0013 ppm	0.0034 ppm	9.1634 ppm	-0.0002 ppm	-0.0015 ppm	0.0014 ppm	-0.0003 ppm
Concentration per Run 2	0.0017 ppm	0.0029 ppm	9.1385 ppm	0.0001 ppm	-0.0009 ppm	0.0017 ppm	-0.0019 ppm
Concentration per Run 3	0.0013 ppm	0.0025 ppm	9.0534 ppm	0.0002 ppm	-0.0009 ppm	0.0015 ppm	0.0000 ppm
Concentration RSD	17.6 %	14.7 %	0.6 %	1,793.4 %	32.1 %	7.6 %	140.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.6417 ppm	0.0010 ppm	0.0798 ppm	0.0004 ppm	-0.0006 ppm	0.0007 ppm	0.0132 ppm
Concentration per Run 1	1.6429 ppm	0.0012 ppm	0.0799 ppm	0.0007 ppm	-0.0010 ppm	0.0007 ppm	0.0133 ppm
Concentration per Run 2	1.6379 ppm	0.0013 ppm	0.0800 ppm	0.0002 ppm	-0.0012 ppm	0.0006 ppm	0.0132 ppm
Concentration per Run 3	1.6443 ppm	0.0006 ppm	0.0794 ppm	0.0003 ppm	0.0005 ppm	0.0007 ppm	0.0132 ppm
Concentration RSD	0.2 %	36.5 %	0.4 %	69.4 %	163.0 %	8.3 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.2394 %	103.3035 %	100.1651 %	100.7029 %	99.6145 %	102.4167 %	-0.0007 ppm
Concentration per Run 1	102.2414 %	103.5024 %	100.1362 %	100.7208 %	99.5443 %	102.7317 %	-0.0012 ppm
Concentration per Run 2	99.5588 %	103.5339 %	100.4105 %	100.5021 %	99.7791 %	102.0538 %	-0.0003 ppm
Concentration per Run 3	98.9180 %	102.8741 %	99.9487 %	100.8859 %	99.5201 %	102.4646 %	-0.0007 ppm
Concentration RSD	1.8 %	0.4 %	0.2 %	0.2 %	0.1 %	0.3 %	60.6 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: WG2039059-9 WG2039059
Analysis started at: 3/12/2025 4:01:45 PM
Rack: 1
Vial: 35

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0272 ppm	2.0524 ppm	0.1201 ppm	0.9570 ppm	1.9563 ppm	0.0504 ppm	32.7754 ppm
Concentration per Run 1	0.0271 ppm	2.0492 ppm	0.1190 ppm	0.9528 ppm	1.9482 ppm	0.0502 ppm	32.6788 ppm
Concentration per Run 2	0.0271 ppm	2.0579 ppm	0.1204 ppm	0.9569 ppm	1.9608 ppm	0.0505 ppm	32.8502 ppm
Concentration per Run 3	0.0274 ppm	2.0500 ppm	0.1208 ppm	0.9614 ppm	1.9598 ppm	0.0505 ppm	32.7973 ppm
Concentration RSD	0.6 %	0.2 %	0.8 %	0.4 %	0.4 %	0.4 %	0.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0497 ppm	0.4638 ppm	0.1964 ppm	0.2432 ppm	1.0262 ppm	12.8390 ppm	14.6242 ppm
Concentration per Run 1	0.0494 ppm	0.4614 ppm	0.1969 ppm	0.2439 ppm	1.0173 ppm	12.7906 ppm	14.6077 ppm
Concentration per Run 2	0.0499 ppm	0.4653 ppm	0.1963 ppm	0.2423 ppm	1.0277 ppm	12.8795 ppm	14.6157 ppm
Concentration per Run 3	0.0498 ppm	0.4646 ppm	0.1960 ppm	0.2435 ppm	1.0336 ppm	12.8470 ppm	14.6491 ppm
Concentration RSD	0.6 %	0.5 %	0.2 %	0.4 %	0.8 %	0.4 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5073 ppm	0.9240 ppm	19.1950 ppm	0.4675 ppm	0.5113 ppm	0.4624 ppm	0.1212 ppm
Concentration per Run 1	0.5050 ppm	0.9137 ppm	19.1242 ppm	0.4653 ppm	0.5099 ppm	0.4568 ppm	0.1216 ppm
Concentration per Run 2	0.5086 ppm	0.9248 ppm	19.2523 ppm	0.4687 ppm	0.5117 ppm	0.4636 ppm	0.1197 ppm
Concentration per Run 3	0.5084 ppm	0.9335 ppm	19.2086 ppm	0.4686 ppm	0.5124 ppm	0.4667 ppm	0.1223 ppm
Concentration RSD	0.4 %	1.1 %	0.3 %	0.4 %	0.2 %	1.1 %	1.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.3649 ppm	0.9215 ppm	1.0538 ppm	1.0013 ppm	0.1160 ppm	0.4841 ppm	0.4824 ppm
Concentration per Run 1	2.3574 ppm	0.9170 ppm	1.0482 ppm	1.0036 ppm	0.1158 ppm	0.4801 ppm	0.4791 ppm
Concentration per Run 2	2.3681 ppm	0.9240 ppm	1.0565 ppm	1.0006 ppm	0.1152 ppm	0.4845 ppm	0.4852 ppm
Concentration per Run 3	2.3692 ppm	0.9234 ppm	1.0567 ppm	0.9997 ppm	0.1170 ppm	0.4875 ppm	0.4828 ppm
Concentration RSD	0.3 %	0.4 %	0.5 %	0.2 %	0.8 %	0.8 %	0.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.6508 %	101.4912 %	99.4555 %	100.9027 %	97.0833 %	100.9772 %	0.0000 ppm
Concentration per Run 1	102.0841 %	101.0506 %	100.1497 %	100.7982 %	97.7974 %	100.6624 %	-0.0008 ppm
Concentration per Run 2	100.1490 %	101.6759 %	99.4163 %	101.0237 %	96.8917 %	101.1045 %	0.0007 ppm
Concentration per Run 3	99.7193 %	101.7470 %	98.8005 %	100.8862 %	96.5608 %	101.1648 %	0.0003 ppm
Concentration RSD	1.3 %	0.4 %	0.7 %	0.1 %	0.7 %	0.3 %	1,629.3 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: WG2039059-10d5 WG2039059
Analysis started at: 3/12/2025 4:08:02 PM
Rack: 1
Vial: 36

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	-0.0011 ppm	-0.0003 ppm	0.0038 ppm	0.0030 ppm	0.0000 ppm	4.7578 ppm
Concentration per Run 1	-0.0001 ppm	0.0007 ppm	-0.0018 ppm	0.0037 ppm	0.0029 ppm	0.0000 ppm	4.7039 ppm
Concentration per Run 2	-0.0004 ppm	-0.0047 ppm	-0.0003 ppm	0.0038 ppm	0.0032 ppm	0.0000 ppm	4.7665 ppm
Concentration per Run 3	0.0000 ppm	0.0009 ppm	0.0012 ppm	0.0038 ppm	0.0031 ppm	0.0001 ppm	4.8028 ppm
Concentration RSD	124.7 %	299.4 %	511.1 %	2.3 %	5.1 %	137.0 %	1.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0002 ppm	0.0029 ppm	0.3880 ppm	0.9495 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0002 ppm	0.0019 ppm	0.4106 ppm	0.9433 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0029 ppm	0.3662 ppm	0.9522 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0003 ppm	-0.0003 ppm	0.0037 ppm	0.3873 ppm	0.9529 ppm
Concentration RSD	106.4 %	172.8 %	282.7 %	47.1 %	31.6 %	5.7 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0026 ppm	0.0027 ppm	1.7852 ppm	-0.0001 ppm	-0.0002 ppm	0.0024 ppm	0.0002 ppm
Concentration per Run 1	0.0025 ppm	0.0032 ppm	1.7757 ppm	-0.0003 ppm	-0.0001 ppm	0.0031 ppm	0.0011 ppm
Concentration per Run 2	0.0025 ppm	0.0028 ppm	1.7843 ppm	0.0000 ppm	-0.0007 ppm	0.0024 ppm	-0.0004 ppm
Concentration per Run 3	0.0027 ppm	0.0023 ppm	1.7954 ppm	0.0000 ppm	0.0001 ppm	0.0018 ppm	0.0001 ppm
Concentration RSD	4.1 %	15.4 %	0.6 %	151.7 %	173.1 %	26.8 %	333.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.3235 ppm	0.0014 ppm	0.0159 ppm	0.0002 ppm	-0.0006 ppm	0.0002 ppm	0.0028 ppm
Concentration per Run 1	0.3277 ppm	0.0017 ppm	0.0157 ppm	0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0028 ppm
Concentration per Run 2	0.3214 ppm	0.0014 ppm	0.0159 ppm	0.0004 ppm	-0.0004 ppm	0.0003 ppm	0.0028 ppm
Concentration per Run 3	0.3213 ppm	0.0012 ppm	0.0160 ppm	0.0002 ppm	-0.0014 ppm	0.0000 ppm	0.0028 ppm
Concentration RSD	1.1 %	17.3 %	0.9 %	60.0 %	105.1 %	109.9 %	1.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.7232 %	104.0825 %	102.0993 %	101.6705 %	102.5457 %	102.7417 %	-0.0001 ppm
Concentration per Run 1	102.6724 %	105.0834 %	101.2811 %	102.7416 %	101.7570 %	103.6393 %	0.0001 ppm
Concentration per Run 2	100.6552 %	102.9598 %	102.4340 %	101.9585 %	102.9385 %	101.7980 %	0.0004 ppm
Concentration per Run 3	98.8419 %	104.2043 %	102.5829 %	100.3116 %	102.9417 %	102.7878 %	-0.0006 ppm
Concentration RSD	1.9 %	1.0 %	0.7 %	1.2 %	0.7 %	0.9 %	710.0 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: CCV
Analysis started at: 3/12/2025 4:14:37 PM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4688 ppm	0.4793 ppm	0.4623 ppm	0.4610 ppm	0.4588 ppm	0.4807 ppm	0.4976 ppm
Concentration per Run 1	0.4498 ppm	0.4694 ppm	0.4648 ppm	0.4614 ppm	0.4492 ppm	0.4710 ppm	0.4877 ppm
Concentration per Run 2	0.4680 ppm	0.4824 ppm	0.4584 ppm	0.4583 ppm	0.4612 ppm	0.4849 ppm	0.5048 ppm
Concentration per Run 3	0.4887 ppm	0.4862 ppm	0.4638 ppm	0.4633 ppm	0.4659 ppm	0.4862 ppm	0.5004 ppm
Recovery Percentage 1	93.767 %	95.864 %	92.461 %	92.201 %	91.754 %	96.144 %	99.527 %
Concentration RSD	4.2 %	1.8 %	0.7 %	0.6 %	1.9 %	1.8 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4523 ppm	0.4609 ppm	0.4754 ppm	0.4531 ppm	0.4869 ppm	5.0607 ppm	0.4830 ppm
Concentration per Run 1	0.4549 ppm	0.4627 ppm	0.4555 ppm	0.4337 ppm	0.4729 ppm	4.9716 ppm	0.4652 ppm
Concentration per Run 2	0.4493 ppm	0.4581 ppm	0.4725 ppm	0.4482 ppm	0.4925 ppm	5.0865 ppm	0.4790 ppm
Concentration per Run 3	0.4526 ppm	0.4617 ppm	0.4984 ppm	0.4775 ppm	0.4955 ppm	5.1239 ppm	0.5048 ppm
Recovery Percentage 1	90.456 %	92.173 %	95.090 %	90.627 %	97.386 %	101.213 %	96.599 %
Concentration RSD	0.6 %	0.5 %	4.5 %	4.9 %	2.5 %	1.6 %	4.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4713 ppm	0.4610 ppm	9.2589 ppm	0.4593 ppm	0.4576 ppm	0.4667 ppm	0.4719 ppm
Concentration per Run 1	0.4617 ppm	0.4620 ppm	9.0960 ppm	0.4614 ppm	0.4592 ppm	0.4679 ppm	0.4725 ppm
Concentration per Run 2	0.4758 ppm	0.4583 ppm	9.2931 ppm	0.4561 ppm	0.4535 ppm	0.4627 ppm	0.4692 ppm
Concentration per Run 3	0.4763 ppm	0.4627 ppm	9.3875 ppm	0.4604 ppm	0.4600 ppm	0.4696 ppm	0.4740 ppm
Recovery Percentage 1	94.252 %	92.200 %	92.589 %	91.868 %	91.514 %	93.349 %	94.374 %
Concentration RSD	1.8 %	0.5 %	1.6 %	0.6 %	0.8 %	0.8 %	0.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.9588 ppm	0.4557 ppm	0.4695 ppm	0.4883 ppm	0.4614 ppm	0.4623 ppm	0.4623 ppm
Concentration per Run 1	4.9663 ppm	0.4575 ppm	0.4600 ppm	0.4687 ppm	0.4608 ppm	0.4600 ppm	0.4647 ppm
Concentration per Run 2	4.9301 ppm	0.4521 ppm	0.4724 ppm	0.4862 ppm	0.4593 ppm	0.4594 ppm	0.4594 ppm
Concentration per Run 3	4.9802 ppm	0.4574 ppm	0.4762 ppm	0.5100 ppm	0.4640 ppm	0.4674 ppm	0.4627 ppm
Recovery Percentage 1	94.454 %	91.135 %	93.909 %	97.654 %	92.273 %	92.456 %	92.456 %
Concentration RSD	0.5 %	0.7 %	1.8 %	4.2 %	0.5 %	1.0 %	0.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.4342 %	103.4128 %	102.1084 %	103.3072 %	99.6993 %	103.2963 %	0.4672 ppm
Concentration per Run 1	101.5272 %	107.0072 %	102.0095 %	105.9148 %	99.4533 %	106.8644 %	0.4593 ppm
Concentration per Run 2	98.0068 %	104.8651 %	102.5281 %	101.8532 %	100.3191 %	103.4913 %	0.4671 ppm
Concentration per Run 3	98.7687 %	98.3660 %	101.7877 %	102.1537 %	99.3255 %	99.5333 %	0.4753 ppm
Recovery Percentage 1							93.446 %
Concentration RSD	1.9 %	4.4 %	0.4 %	2.2 %	0.5 %	3.6 %	1.7 %

LabBook: WG2039408_03122025T6.imexp

Sample: CCB
Analysis started at: 3/12/2025 4:20:56 PM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	-0.0003 ppm	-0.0003 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0015 ppm
Concentration per Run 1	0.0005 ppm	0.0028 ppm	-0.0008 ppm	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0006 ppm
Concentration per Run 2	-0.0001 ppm	-0.0012 ppm	0.0002 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0046 ppm
Concentration per Run 3	0.0000 ppm	-0.0024 ppm	-0.0005 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0007 ppm
Recovery Percentage 1	1.783 %	-0.255 %	-6.791 %	0.655 %	-0.146 %	0.025 %	1.512 %
Concentration RSD	235.1 %	1,071.1 %	158.4 %	67.0 %	610.1 %	2,036.6 %	180.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0000 ppm	-0.0003 ppm	0.0003 ppm	0.0132 ppm	-0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	0.0007 ppm	0.0250 ppm	0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	-0.0001 ppm	-0.0002 ppm	0.0002 ppm	0.0226 ppm	-0.0002 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0002 ppm	-0.0004 ppm	0.0002 ppm	-0.0081 ppm	-0.0005 ppm
Recovery Percentage 1	-0.526 %	0.317 %	-0.065 %	-3.147 %	0.658 %	0.527 %	-0.208 %
Concentration RSD	52.9 %	89.6 %	2,955.7 %	28.9 %	86.1 %	139.9 %	137.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0002 ppm	0.0006 ppm	-0.0062 ppm	-0.0001 ppm	-0.0003 ppm	0.0004 ppm	-0.0003 ppm
Concentration per Run 1	-0.0005 ppm	0.0008 ppm	-0.0086 ppm	-0.0001 ppm	-0.0004 ppm	0.0001 ppm	-0.0011 ppm
Concentration per Run 2	0.0001 ppm	0.0006 ppm	-0.0035 ppm	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0007 ppm
Concentration per Run 3	-0.0003 ppm	0.0005 ppm	-0.0065 ppm	-0.0002 ppm	-0.0003 ppm	0.0009 ppm	-0.0004 ppm
Recovery Percentage 1	-2.306 %	1.240 %	-0.310 %	-0.328 %	-2.636 %	0.814 %	-2.685 %
Concentration RSD	118.4 %	20.0 %	41.5 %	138.1 %	52.2 %	116.0 %	349.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0003 ppm	0.0003 ppm	0.0001 ppm	-0.0002 ppm	0.0003 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 1	-0.0007 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0011 ppm	0.0003 ppm	-0.0002 ppm
Concentration per Run 2	-0.0002 ppm	-0.0001 ppm	0.0001 ppm	-0.0003 ppm	0.0005 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 3	0.0001 ppm	0.0006 ppm	0.0001 ppm	-0.0004 ppm	-0.0005 ppm	0.0000 ppm	-0.0001 ppm
Recovery Percentage 1	-0.057 %	0.608 %	0.626 %	-2.493 %	1.727 %	1.429 %	-2.185 %
Concentration RSD	145.7 %	110.1 %	34.4 %	70.6 %	224.7 %	109.3 %	58.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.7669 %	105.5585 %	103.1652 %	100.2325 %	103.8052 %	103.0754 %	-0.0002 ppm
Concentration per Run 1	102.5268 %	106.2423 %	103.2375 %	100.6519 %	104.3136 %	103.9100 %	-0.0011 ppm
Concentration per Run 2	100.3730 %	104.3075 %	103.3837 %	100.0235 %	104.3770 %	101.7537 %	-0.0005 ppm
Concentration per Run 3	99.4010 %	106.1258 %	102.8743 %	100.0220 %	102.7251 %	103.5625 %	0.0010 ppm
Recovery Percentage 1							-2.019 %
Concentration RSD	1.6 %	1.0 %	0.3 %	0.4 %	0.9 %	1.1 %	517.8 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: WG2037871-1 WG2037871
Analysis started at: 3/12/2025 4:33:48 PM
Rack: 1
Vial: 53

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0114 ppm	-0.0020 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0264 ppm
Concentration per Run 1	0.0001 ppm	0.0114 ppm	-0.0023 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0257 ppm
Concentration per Run 2	0.0000 ppm	0.0124 ppm	-0.0025 ppm	0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0236 ppm
Concentration per Run 3	0.0001 ppm	0.0103 ppm	-0.0011 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0298 ppm
Recovery Percentage 1	0.789 %	11.351 %	-39.022 %	1.083 %	0.974 %	0.061 %	26.383 %
Concentration RSD	109.7 %	9.3 %	38.8 %	66.0 %	22.8 %	791.7 %	11.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0004 ppm	0.0006 ppm	0.0001 ppm	0.0193 ppm	0.0113 ppm	0.0049 ppm
Concentration per Run 1	0.0001 ppm	-0.0004 ppm	0.0007 ppm	0.0001 ppm	0.0180 ppm	0.0182 ppm	0.0043 ppm
Concentration per Run 2	0.0001 ppm	-0.0004 ppm	0.0006 ppm	0.0001 ppm	0.0199 ppm	-0.0003 ppm	0.0063 ppm
Concentration per Run 3	0.0001 ppm	-0.0004 ppm	0.0005 ppm	0.0001 ppm	0.0199 ppm	0.0160 ppm	0.0040 ppm
Recovery Percentage 1	2.818 %	-1.880 %	5.936 %	1.191 %	38.572 %	0.452 %	4.860 %
Concentration RSD	9.9 %	5.1 %	16.0 %	30.4 %	5.8 %	89.7 %	26.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0006 ppm	0.0001 ppm	0.0153 ppm	0.0002 ppm	0.0008 ppm	0.0000 ppm	-0.0008 ppm
Concentration per Run 1	0.0006 ppm	0.0003 ppm	0.0134 ppm	0.0000 ppm	0.0009 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 2	0.0006 ppm	0.0001 ppm	0.0169 ppm	0.0003 ppm	0.0005 ppm	-0.0005 ppm	-0.0014 ppm
Concentration per Run 3	0.0006 ppm	0.0000 ppm	0.0156 ppm	0.0003 ppm	0.0009 ppm	0.0003 ppm	-0.0009 ppm
Recovery Percentage 1	5.985 %	0.263 %	0.764 %	0.799 %	7.691 %	-0.061 %	-7.784 %
Concentration RSD	6.0 %	92.3 %	11.6 %	67.6 %	25.6 %	1,384.7 %	84.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0200 ppm	0.0068 ppm	0.0001 ppm	0.0004 ppm	-0.0023 ppm	0.0001 ppm	**0.0029 ppm**
Concentration per Run 1	0.0206 ppm	0.0069 ppm	0.0001 ppm	0.0008 ppm	-0.0024 ppm	0.0002 ppm	0.0029 ppm
Concentration per Run 2	0.0193 ppm	0.0069 ppm	0.0001 ppm	-0.0002 ppm	-0.0023 ppm	0.0001 ppm	0.0029 ppm
Concentration per Run 3	0.0200 ppm	0.0065 ppm	0.0001 ppm	0.0005 ppm	-0.0023 ppm	0.0000 ppm	0.0029 ppm
Recovery Percentage 1	3.991 %	13.569 %	0.897 %	3.543 %	-11.688 %	0.939 %	58.455 %
Concentration RSD	3.3 %	3.3 %	28.4 %	132.5 %	3.0 %	113.4 %	**0.7 %**

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.1875 %	103.3784 %	101.9723 %	108.8813 %	98.4874 %	103.3659 %	0.0002 ppm
Concentration per Run 1	100.2314 %	103.3046 %	101.5020 %	113.5251 %	98.1171 %	103.4420 %	0.0005 ppm
Concentration per Run 2	98.9062 %	103.2518 %	102.4017 %	108.0713 %	98.7536 %	103.2452 %	-0.0004 ppm
Concentration per Run 3	98.4250 %	103.5788 %	102.0133 %	105.0475 %	98.5916 %	103.4104 %	0.0006 ppm
Recovery Percentage 1							2.271 %
Concentration RSD	0.9 %	0.2 %	0.4 %	3.9 %	0.3 %	0.1 %	241.6 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: WG2037871-2d2 WG2037871
Analysis started at: 3/12/2025 4:40:25 PM
Rack: 1
Vial: 54

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0513 ppm	2.2263 ppm	0.1167 ppm	0.9475 ppm	2.1077 ppm	0.0547 ppm	11.6050 ppm
Concentration per Run 1	0.0505 ppm	2.2483 ppm	0.1179 ppm	0.9609 ppm	2.1339 ppm	0.0551 ppm	11.6873 ppm
Concentration per Run 2	0.0524 ppm	2.2246 ppm	0.1167 ppm	0.9520 ppm	2.1053 ppm	0.0548 ppm	11.6146 ppm
Concentration per Run 3	0.0511 ppm	2.2061 ppm	0.1154 ppm	0.9295 ppm	2.0838 ppm	0.0543 ppm	11.5133 ppm
Concentration RSD	1.9 %	1.0 %	1.1 %	1.7 %	1.2 %	0.7 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0502 ppm	0.4683 ppm	0.2036 ppm	0.2489 ppm	1.1370 ppm	11.7560 ppm	10.5736 ppm
Concentration per Run 1	0.0510 ppm	0.4754 ppm	0.1996 ppm	0.2492 ppm	1.1440 ppm	11.8869 ppm	10.3933 ppm
Concentration per Run 2	0.0501 ppm	0.4666 ppm	0.2075 ppm	0.2518 ppm	1.1354 ppm	11.7513 ppm	10.8096 ppm
Concentration per Run 3	0.0497 ppm	0.4627 ppm	0.2039 ppm	0.2458 ppm	1.1315 ppm	11.6299 ppm	10.5180 ppm
Concentration RSD	1.3 %	1.4 %	1.9 %	1.2 %	0.6 %	1.1 %	2.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5434 ppm	0.9686 ppm	11.3784 ppm	0.4702 ppm	0.5158 ppm	0.4678 ppm	0.1149 ppm
Concentration per Run 1	0.5471 ppm	0.9820 ppm	11.5282 ppm	0.4769 ppm	0.5238 ppm	0.4761 ppm	0.1157 ppm
Concentration per Run 2	0.5436 ppm	0.9720 ppm	11.3784 ppm	0.4687 ppm	0.5134 ppm	0.4642 ppm	0.1141 ppm
Concentration per Run 3	0.5395 ppm	0.9518 ppm	11.2285 ppm	0.4649 ppm	0.5102 ppm	0.4632 ppm	0.1150 ppm
Concentration RSD	0.7 %	1.6 %	1.3 %	1.3 %	1.4 %	1.5 %	0.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.5758 ppm	0.9519 ppm	1.0919 ppm	1.0646 ppm	0.1146 ppm	0.4924 ppm	0.4745 ppm
Concentration per Run 1	1.6004 ppm	0.9669 ppm	1.1053 ppm	1.0454 ppm	0.1162 ppm	0.4927 ppm	0.4811 ppm
Concentration per Run 2	1.5722 ppm	0.9474 ppm	1.0909 ppm	1.0862 ppm	0.1135 ppm	0.4948 ppm	0.4731 ppm
Concentration per Run 3	1.5548 ppm	0.9413 ppm	1.0796 ppm	1.0623 ppm	0.1142 ppm	0.4896 ppm	0.4693 ppm
Concentration RSD	1.5 %	1.4 %	1.2 %	1.9 %	1.2 %	0.5 %	1.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.2561 %	102.3768 %	101.1587 %	99.5034 %	97.3298 %	101.2136 %	0.0002 ppm
Concentration per Run 1	99.1952 %	103.1449 %	101.3838 %	99.2448 %	97.4020 %	103.4656 %	0.0000 ppm
Concentration per Run 2	98.5122 %	101.5516 %	100.6813 %	99.6038 %	97.7497 %	99.2313 %	0.0004 ppm
Concentration per Run 3	97.0610 %	102.4338 %	101.4109 %	99.6616 %	96.8378 %	100.9440 %	0.0004 ppm
Concentration RSD	1.1 %	0.8 %	0.4 %	0.2 %	0.5 %	2.1 %	104.5 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: L2512075-01d2 WG2037871
Analysis started at: 3/12/2025 4:49:52 PM
Rack: 1
Vial: 55

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0004 ppm	73.2757 ppm	0.1299 ppm	0.0242 ppm	0.6759 ppm	0.0096 ppm	34.9056 ppm
Concentration per Run 1	-0.0005 ppm	70.5397 ppm	0.1312 ppm	0.0246 ppm	0.6503 ppm	0.0092 ppm	33.6647 ppm
Concentration per Run 2	-0.0003 ppm	74.1424 ppm	0.1327 ppm	0.0243 ppm	0.6838 ppm	0.0097 ppm	35.1693 ppm
Concentration per Run 3	-0.0003 ppm	75.1448 ppm	0.1259 ppm	0.0236 ppm	0.6935 ppm	0.0099 ppm	35.8828 ppm
Concentration RSD	37.6 %	3.3 %	2.8 %	2.2 %	3.4 %	3.5 %	3.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0003 ppm	0.0623 ppm	0.1517 ppm	0.2098 ppm	306.6360 [SIC 500]	8.5641 ppm	18.6891 ppm
Concentration per Run 1	0.0007 ppm	0.0637 ppm	0.1532 ppm	0.2100 ppm	294.1637 ppm	8.2397 ppm	18.7782 ppm
Concentration per Run 2	0.0002 ppm	0.0625 ppm	0.1518 ppm	0.2106 ppm	311.1276 ppm	8.7028 ppm	18.7137 ppm
Concentration per Run 3	0.0001 ppm	0.0607 ppm	0.1503 ppm	0.2086 ppm	314.6166 ppm	8.7498 ppm	18.5754 ppm
Concentration RSD	108.5 %	2.5 %	1.0 %	0.5 %	3.6 %	3.3 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	2.3233 ppm	0.0058 ppm	15.2507 ppm	0.1171 ppm	0.1864 ppm	-0.0072 ppm	0.0120 ppm
Concentration per Run 1	2.2413 ppm	0.0059 ppm	14.6499 ppm	0.1198 ppm	0.1909 ppm	-0.0061 ppm	0.0121 ppm
Concentration per Run 2	2.3421 ppm	0.0060 ppm	15.4984 ppm	0.1175 ppm	0.1866 ppm	-0.0073 ppm	0.0125 ppm
Concentration per Run 3	2.3865 ppm	0.0056 ppm	15.6037 ppm	0.1140 ppm	0.1819 ppm	-0.0082 ppm	0.0115 ppm
Concentration RSD	3.2 %	3.8 %	3.4 %	2.5 %	2.4 %	15.1 %	3.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	7.0060 ppm	0.0071 ppm	0.1330 ppm	0.6836 ppm	-0.0052 ppm	0.1746 ppm	0.4641 ppm
Concentration per Run 1	7.1675 ppm	0.0071 ppm	0.1280 ppm	0.6868 ppm	-0.0042 ppm	0.1757 ppm	0.4753 ppm
Concentration per Run 2	7.0246 ppm	0.0077 ppm	0.1344 ppm	0.6837 ppm	-0.0060 ppm	0.1753 ppm	0.4657 ppm
Concentration per Run 3	6.8258 ppm	0.0064 ppm	0.1366 ppm	0.6805 ppm	-0.0054 ppm	0.1729 ppm	0.4512 ppm
Concentration RSD	2.4 %	9.3 %	3.4 %	0.5 %	17.0 %	0.9 %	2.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	114.1437 %	111.9523 %	109.6371 %	111.9245 %	91.1589 %	103.5209 %	0.0868 ppm
Concentration per Run 1	115.0761 %	112.0963 %	109.7176 %	116.1124 %	91.0123 %	103.7216 %	0.0834 ppm
Concentration per Run 2	113.9367 %	112.0627 %	109.5108 %	111.1015 %	90.7984 %	103.5561 %	0.0885 ppm
Concentration per Run 3	113.4182 %	111.6979 %	109.6830 %	108.5595 %	91.6660 %	103.2849 %	0.0884 ppm
Concentration RSD	0.7 %	0.2 %	0.1 %	3.4 %	0.5 %	0.2 %	3.4 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: WG2037871-3d2 WG2037871
Analysis started at: 3/12/2025 4:56:22 PM
Rack: 1
Vial: 56

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0409 ppm	75.3418 ppm	0.2604 ppm	0.7478 ppm	2.3230 ppm	0.0487 ppm	27.2516 ppm
Concentration per Run 1	0.0409 ppm	75.6581 ppm	0.2636 ppm	0.7531 ppm	2.3310 ppm	0.0489 ppm	27.4176 ppm
Concentration per Run 2	0.0408 ppm	75.1658 ppm	0.2609 ppm	0.7514 ppm	2.3221 ppm	0.0486 ppm	27.1194 ppm
Concentration per Run 3	0.0409 ppm	75.2015 ppm	0.2568 ppm	0.7388 ppm	2.3158 ppm	0.0487 ppm	27.2179 ppm
Concentration RSD	0.2 %	0.4 %	1.3 %	1.0 %	0.3 %	0.3 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0447 ppm	0.4590 ppm	0.2938 ppm	0.3898 ppm	306.2289 [SIC 500]	17.6684 ppm	25.3496 ppm
Concentration per Run 1	0.0451 ppm	0.4612 ppm	0.2939 ppm	0.3911 ppm	305.4462 ppm	17.7272 ppm	25.3860 ppm
Concentration per Run 2	0.0445 ppm	0.4573 ppm	0.2929 ppm	0.3926 ppm	304.7780 ppm	17.6266 ppm	25.2993 ppm
Concentration per Run 3	0.0443 ppm	0.4584 ppm	0.2945 ppm	0.3858 ppm	308.4624 ppm	17.6514 ppm	25.3636 ppm
Concentration RSD	0.9 %	0.4 %	0.3 %	0.9 %	0.6 %	0.3 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	2.8778 ppm	0.7508 ppm	26.4868 ppm	0.5192 ppm	0.6757 ppm	0.1100 ppm	0.0855 ppm
Concentration per Run 1	2.8933 ppm	0.7562 ppm	26.5979 ppm	0.5228 ppm	0.6810 ppm	0.1099 ppm	0.0873 ppm
Concentration per Run 2	2.8707 ppm	0.7533 ppm	26.4358 ppm	0.5171 ppm	0.6726 ppm	0.1101 ppm	0.0839 ppm
Concentration per Run 3	2.8694 ppm	0.7428 ppm	26.4267 ppm	0.5176 ppm	0.6736 ppm	0.1099 ppm	0.0854 ppm
Concentration RSD	0.5 %	0.9 %	0.4 %	0.6 %	0.7 %	0.1 %	2.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	8.2025 ppm	0.7563 ppm	1.0649 ppm	1.3410 ppm	0.0934 ppm	0.5196 ppm	0.8349 ppm
Concentration per Run 1	8.2646 ppm	0.7600 ppm	1.0679 ppm	1.3455 ppm	0.0941 ppm	0.5206 ppm	0.8389 ppm
Concentration per Run 2	8.1806 ppm	0.7547 ppm	1.0644 ppm	1.3381 ppm	0.0919 ppm	0.5205 ppm	0.8309 ppm
Concentration per Run 3	8.1623 ppm	0.7540 ppm	1.0624 ppm	1.3393 ppm	0.0941 ppm	0.5177 ppm	0.8350 ppm
Concentration RSD	0.7 %	0.4 %	0.3 %	0.3 %	1.4 %	0.3 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	110.1116 %	109.4631 %	107.5419 %	105.4526 %	90.1039 %	102.7400 %	0.0918 ppm
Concentration per Run 1	110.0385 %	109.2793 %	107.5400 %	104.6983 %	90.2123 %	102.5615 %	0.0921 ppm
Concentration per Run 2	110.5452 %	109.5976 %	107.2049 %	106.1805 %	90.4736 %	102.8385 %	0.0923 ppm
Concentration per Run 3	109.7510 %	109.5124 %	107.8809 %	105.4791 %	89.6258 %	102.8201 %	0.0910 ppm
Concentration RSD	0.4 %	0.2 %	0.3 %	0.7 %	0.5 %	0.2 %	0.7 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: WG2037871-4d2 WG2037871
Analysis started at: 3/12/2025 5:02:47 PM
Rack: 1
Vial: 57

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0004 ppm	75.5636 ppm	0.1235 ppm	0.0201 ppm	0.6684 ppm	0.0084 ppm	21.2694 ppm
Concentration per Run 1	-0.0004 ppm	75.9643 ppm	0.1290 ppm	0.0208 ppm	0.6723 ppm	0.0085 ppm	21.3198 ppm
Concentration per Run 2	-0.0006 ppm	75.5485 ppm	0.1234 ppm	0.0204 ppm	0.6685 ppm	0.0084 ppm	21.3076 ppm
Concentration per Run 3	-0.0002 ppm	75.1780 ppm	0.1182 ppm	0.0192 ppm	0.6644 ppm	0.0084 ppm	21.1807 ppm
Concentration RSD	56.6 %	0.5 %	4.3 %	4.2 %	0.6 %	0.6 %	0.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0550 ppm	0.1456 ppm	0.1809 ppm	317.1162 [SIC 500]	8.7641 ppm	16.3188 ppm
Concentration per Run 1	0.0003 ppm	0.0570 ppm	0.1464 ppm	0.1815 ppm	318.6847 ppm	8.8560 ppm	16.4345 ppm
Concentration per Run 2	0.0002 ppm	0.0552 ppm	0.1457 ppm	0.1814 ppm	318.6316 ppm	8.7290 ppm	16.3222 ppm
Concentration per Run 3	-0.0002 ppm	0.0528 ppm	0.1446 ppm	0.1799 ppm	314.0321 ppm	8.7073 ppm	16.1996 ppm
Concentration RSD	298.8 %	3.8 %	0.6 %	0.5 %	0.8 %	0.9 %	0.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	2.3530 ppm	0.0047 ppm	13.7899 ppm	0.1103 ppm	0.1575 ppm	-0.0076 ppm	0.0129 ppm
Concentration per Run 1	2.3617 ppm	0.0049 ppm	13.9313 ppm	0.1142 ppm	0.1645 ppm	-0.0072 ppm	0.0150 ppm
Concentration per Run 2	2.3568 ppm	0.0048 ppm	13.7358 ppm	0.1108 ppm	0.1564 ppm	-0.0091 ppm	0.0109 ppm
Concentration per Run 3	2.3404 ppm	0.0044 ppm	13.7025 ppm	0.1058 ppm	0.1516 ppm	-0.0065 ppm	0.0127 ppm
Concentration RSD	0.5 %	5.8 %	0.9 %	3.8 %	4.1 %	17.6 %	15.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.7569 ppm	0.0069 ppm	0.1042 ppm	0.6654 ppm	-0.0051 ppm	0.1691 ppm	0.4278 ppm
Concentration per Run 1	3.9049 ppm	0.0076 ppm	0.1047 ppm	0.6703 ppm	-0.0068 ppm	0.1711 ppm	0.4416 ppm
Concentration per Run 2	3.7618 ppm	0.0066 ppm	0.1043 ppm	0.6659 ppm	-0.0042 ppm	0.1686 ppm	0.4286 ppm
Concentration per Run 3	3.6039 ppm	0.0065 ppm	0.1035 ppm	0.6598 ppm	-0.0043 ppm	0.1676 ppm	0.4133 ppm
Concentration RSD	4.0 %	8.6 %	0.6 %	0.8 %	28.3 %	1.1 %	3.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	111.1478 %	110.3273 %	108.4873 %	106.4475 %	92.2469 %	103.4074 %	0.0907 ppm
Concentration per Run 1	112.4160 %	110.3722 %	107.9210 %	106.7797 %	91.5681 %	103.4060 %	0.0913 ppm
Concentration per Run 2	110.5163 %	110.0516 %	108.5499 %	106.1604 %	92.0994 %	103.1677 %	0.0906 ppm
Concentration per Run 3	110.5111 %	110.5582 %	108.9911 %	106.4026 %	93.0730 %	103.6484 %	0.0901 ppm
Concentration RSD	1.0 %	0.2 %	0.5 %	0.3 %	0.8 %	0.2 %	0.7 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: WG2037871-5d2 WG2037871
Analysis started at: 3/12/2025 5:09:19 PM
Rack: 1
Vial: 58

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0326 ppm	78.1357 ppm	0.2398 ppm	0.8125 ppm	2.4880 ppm	0.0570 ppm	43.5800 ppm
Concentration per Run 1	0.0338 ppm	78.1258 ppm	0.2400 ppm	0.8092 ppm	2.4889 ppm	0.0572 ppm	43.6228 ppm
Concentration per Run 2	0.0323 ppm	77.9947 ppm	0.2389 ppm	0.8152 ppm	2.4830 ppm	0.0570 ppm	43.6942 ppm
Concentration per Run 3	0.0317 ppm	78.2867 ppm	0.2405 ppm	0.8132 ppm	2.4922 ppm	0.0567 ppm	43.4228 ppm
Concentration RSD	3.3 %	0.2 %	0.3 %	0.4 %	0.2 %	0.4 %	0.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0522 ppm	0.5347 ppm	0.3496 ppm	0.4350 ppm	333.0531 [SIC 500]	18.7539 ppm	28.2762 ppm
Concentration per Run 1	0.0521 ppm	0.5331 ppm	0.3586 ppm	0.4513 ppm	332.3123 ppm	18.7413 ppm	29.1279 ppm
Concentration per Run 2	0.0523 ppm	0.5371 ppm	0.3465 ppm	0.4265 ppm	334.1241 ppm	18.6308 ppm	27.9822 ppm
Concentration per Run 3	0.0522 ppm	0.5340 ppm	0.3436 ppm	0.4272 ppm	332.7229 ppm	18.8896 ppm	27.7184 ppm
Concentration RSD	0.2 %	0.4 %	2.3 %	3.2 %	0.3 %	0.7 %	2.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	2.7914 ppm	0.8210 ppm	24.5187 ppm	0.5931 ppm	0.6935 ppm	0.4637 ppm	0.1082 ppm
Concentration per Run 1	2.7983 ppm	0.8171 ppm	24.4864 ppm	0.5911 ppm	0.6907 ppm	0.4629 ppm	0.1070 ppm
Concentration per Run 2	2.7890 ppm	0.8235 ppm	24.3859 ppm	0.5961 ppm	0.6967 ppm	0.4661 ppm	0.1081 ppm
Concentration per Run 3	2.7870 ppm	0.8223 ppm	24.6837 ppm	0.5923 ppm	0.6930 ppm	0.4623 ppm	0.1095 ppm
Concentration RSD	0.2 %	0.4 %	0.6 %	0.4 %	0.4 %	0.4 %	1.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	10.4284 ppm	0.9254 ppm	1.0449 ppm	1.6129 ppm	0.1042 ppm	0.6012 ppm	0.9842 ppm
Concentration per Run 1	10.3729 ppm	0.9234 ppm	1.0451 ppm	1.6606 ppm	0.1044 ppm	0.6013 ppm	0.9837 ppm
Concentration per Run 2	10.4820 ppm	0.9286 ppm	1.0428 ppm	1.5948 ppm	0.1037 ppm	0.6007 ppm	0.9871 ppm
Concentration per Run 3	10.4304 ppm	0.9243 ppm	1.0467 ppm	1.5832 ppm	0.1043 ppm	0.6017 ppm	0.9818 ppm
Concentration RSD	0.5 %	0.3 %	0.2 %	2.6 %	0.4 %	0.1 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	113.7569 %	111.0272 %	110.5323 %	105.9575 %	90.0278 %	100.7737 %	0.0878 ppm
Concentration per Run 1	114.4611 %	107.5903 %	110.9000 %	105.7677 %	90.3604 %	98.2666 %	0.0874 ppm
Concentration per Run 2	113.2099 %	112.6887 %	110.3415 %	105.8288 %	89.6411 %	101.5671 %	0.0879 ppm
Concentration per Run 3	113.5997 %	112.8027 %	110.3553 %	106.2761 %	90.0820 %	102.4874 %	0.0881 ppm
Concentration RSD	0.6 %	2.7 %	0.3 %	0.3 %	0.4 %	2.2 %	0.4 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: WG2037871-6d10 WG2037871
Analysis started at: 3/12/2025 5:15:44 PM
Rack: 1
Vial: 59

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	14.2705 ppm	0.0293 ppm	0.0068 ppm	0.1314 ppm	0.0019 ppm	6.9974 ppm
Concentration per Run 1	0.0002 ppm	13.8607 ppm	0.0304 ppm	0.0070 ppm	0.1274 ppm	0.0018 ppm	6.8049 ppm
Concentration per Run 2	-0.0002 ppm	14.4182 ppm	0.0279 ppm	0.0067 ppm	0.1330 ppm	0.0019 ppm	7.0898 ppm
Concentration per Run 3	-0.0001 ppm	14.5327 ppm	0.0296 ppm	0.0066 ppm	0.1339 ppm	0.0019 ppm	7.0974 ppm
Concentration RSD	529.7 %	2.5 %	4.3 %	3.0 %	2.7 %	3.6 %	2.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0002 ppm	0.0125 ppm	0.0311 ppm	0.0422 ppm	65.3371 ppm	1.6745 ppm	3.9263 ppm
Concentration per Run 1	0.0002 ppm	0.0124 ppm	0.0308 ppm	0.0419 ppm	63.5368 ppm	1.6487 ppm	3.8688 ppm
Concentration per Run 2	0.0002 ppm	0.0126 ppm	0.0313 ppm	0.0422 ppm	66.1460 ppm	1.6807 ppm	3.9657 ppm
Concentration per Run 3	0.0002 ppm	0.0124 ppm	0.0313 ppm	0.0423 ppm	66.3284 ppm	1.6941 ppm	3.9443 ppm
Concentration RSD	0.5 %	1.1 %	0.9 %	0.5 %	2.4 %	1.4 %	1.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4668 ppm	0.0017 ppm	2.8633 ppm	0.0212 ppm	0.0377 ppm	-0.0017 ppm	0.0009 ppm
Concentration per Run 1	0.4542 ppm	0.0017 ppm	2.7646 ppm	0.0210 ppm	0.0378 ppm	-0.0020 ppm	0.0006 ppm
Concentration per Run 2	0.4716 ppm	0.0018 ppm	2.8930 ppm	0.0214 ppm	0.0377 ppm	-0.0010 ppm	-0.0005 ppm
Concentration per Run 3	0.4746 ppm	0.0016 ppm	2.9322 ppm	0.0212 ppm	0.0377 ppm	-0.0020 ppm	0.0025 ppm
Concentration RSD	2.4 %	7.3 %	3.1 %	1.0 %	0.2 %	36.3 %	178.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.4633 ppm	0.0016 ppm	0.0264 ppm	0.1376 ppm	-0.0009 ppm	0.0375 ppm	0.0962 ppm
Concentration per Run 1	1.4584 ppm	0.0013 ppm	0.0256 ppm	0.1358 ppm	-0.0008 ppm	0.0374 ppm	0.0958 ppm
Concentration per Run 2	1.4686 ppm	0.0020 ppm	0.0266 ppm	0.1390 ppm	-0.0011 ppm	0.0376 ppm	0.0966 ppm
Concentration per Run 3	1.4629 ppm	0.0015 ppm	0.0269 ppm	0.1379 ppm	-0.0009 ppm	0.0374 ppm	0.0962 ppm
Concentration RSD	0.3 %	21.8 %	2.5 %	1.2 %	15.7 %	0.2 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	103.0616 %	105.9334 %	104.8728 %	106.0628 %	99.4217 %	104.0500 %	0.0172 ppm
Concentration per Run 1	104.3959 %	107.2416 %	104.7811 %	108.6187 %	99.7764 %	105.4810 %	0.0158 ppm
Concentration per Run 2	102.5349 %	105.1107 %	104.6934 %	105.1380 %	99.1335 %	103.1316 %	0.0176 ppm
Concentration per Run 3	102.2539 %	105.4480 %	105.1439 %	104.4317 %	99.3550 %	103.5375 %	0.0183 ppm
Concentration RSD	1.1 %	1.1 %	0.2 %	2.1 %	0.3 %	1.2 %	7.4 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: L2512009-01d2 WG2037871
Analysis started at: 3/12/2025 5:22:12 PM
Rack: 1
Vial: 60

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0008 ppm	279.3172 ppm	0.0090 ppm	0.0136 ppm	2.0684 ppm	0.0021 ppm	119.6855 ppm
Concentration per Run 1	-0.0007 ppm	274.4644 ppm	0.0102 ppm	0.0137 ppm	2.0838 ppm	0.0022 ppm	120.3398 ppm
Concentration per Run 2	-0.0011 ppm	280.0578 ppm	0.0099 ppm	0.0138 ppm	2.0595 ppm	0.0021 ppm	119.8763 ppm
Concentration per Run 3	-0.0006 ppm	283.4294 ppm	0.0069 ppm	0.0134 ppm	2.0620 ppm	0.0021 ppm	118.8402 ppm
Concentration RSD	29.7 %	1.6 %	20.1 %	1.3 %	0.6 %	1.6 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0009 ppm	0.2202 ppm	0.4250 ppm	0.7671 ppm	365.0714 [SIC 500]	204.9816 ppm	258.2959 ppm
Concentration per Run 1	0.0011 ppm	0.2233 ppm	0.4347 ppm	0.7887 ppm	364.1699 ppm	207.3051 ppm	264.1345 ppm
Concentration per Run 2	0.0007 ppm	0.2202 ppm	0.4347 ppm	0.7783 ppm	369.5773 ppm	203.4301 ppm	264.0346 ppm
Concentration per Run 3	0.0010 ppm	0.2172 ppm	0.4057 ppm	0.7344 ppm	361.4671 ppm	204.2097 ppm	246.7186 ppm
Concentration RSD	24.3 %	1.4 %	3.9 %	3.8 %	1.1 %	1.0 %	3.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	3.8427 ppm	0.0202 ppm	5.6238 ppm	0.5173 ppm	0.0488 ppm	-0.0092 ppm	0.0145 ppm
Concentration per Run 1	3.8666 ppm	0.0204 ppm	5.7055 ppm	0.5248 ppm	0.0497 ppm	-0.0098 ppm	0.0112 ppm
Concentration per Run 2	3.8433 ppm	0.0200 ppm	5.5576 ppm	0.5157 ppm	0.0470 ppm	-0.0093 ppm	0.0167 ppm
Concentration per Run 3	3.8182 ppm	0.0202 ppm	5.6082 ppm	0.5115 ppm	0.0497 ppm	-0.0087 ppm	0.0156 ppm
Concentration RSD	0.6 %	1.1 %	1.3 %	1.3 %	3.1 %	5.8 %	20.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	17.9963 ppm	0.0128 ppm	0.1623 ppm	16.4559 ppm	-0.0072 ppm	0.6829 ppm	0.6929 ppm
Concentration per Run 1	18.2310 ppm	0.0130 ppm	0.1633 ppm	16.9048 ppm	-0.0052 ppm	0.6851 ppm	0.7024 ppm
Concentration per Run 2	17.9340 ppm	0.0118 ppm	0.1617 ppm	16.7378 ppm	-0.0089 ppm	0.6843 ppm	0.6923 ppm
Concentration per Run 3	17.8238 ppm	0.0135 ppm	0.1619 ppm	15.7252 ppm	-0.0077 ppm	0.6792 ppm	0.6840 ppm
Concentration RSD	1.2 %	6.6 %	0.6 %	3.9 %	26.0 %	0.5 %	1.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	104.4721 %	103.2614 %	99.3709 %	105.1705 %	79.6875 %	100.7030 %	0.5188 ppm
Concentration per Run 1	105.1344 %	101.5889 %	99.2191 %	104.9261 %	78.9846 %	98.4747 %	0.5263 ppm
Concentration per Run 2	103.7969 %	101.5528 %	99.3744 %	104.8535 %	79.8737 %	98.7354 %	0.5132 ppm
Concentration per Run 3	104.4851 %	106.6425 %	99.5191 %	105.7319 %	80.2042 %	104.8988 %	0.5170 ppm
Concentration RSD	0.6 %	2.8 %	0.2 %	0.5 %	0.8 %	3.6 %	1.3 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: CCV
Analysis started at: 3/12/2025 5:35:35 PM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4703 ppm	0.4843 ppm	0.4594 ppm	0.4571 ppm	0.4580 ppm	0.4832 ppm	0.5055 ppm
Concentration per Run 1	0.4569 ppm	0.4809 ppm	0.4601 ppm	0.4564 ppm	0.4506 ppm	0.4756 ppm	0.4911 ppm
Concentration per Run 2	0.4784 ppm	0.4877 ppm	0.4585 ppm	0.4561 ppm	0.4621 ppm	0.4853 ppm	0.5071 ppm
Concentration per Run 3	0.4756 ppm	0.4842 ppm	0.4595 ppm	0.4589 ppm	0.4613 ppm	0.4887 ppm	0.5184 ppm
Recovery Percentage 1	94.061 %	96.850 %	91.875 %	91.423 %	91.595 %	96.635 %	101.105 %
Concentration RSD	2.5 %	0.7 %	0.2 %	0.3 %	1.4 %	1.4 %	2.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4522 ppm	0.4579 ppm	0.4755 ppm	0.4486 ppm	0.4932 ppm	5.1352 ppm	0.4852 ppm
Concentration per Run 1	0.4520 ppm	0.4578 ppm	0.4582 ppm	0.4398 ppm	0.4843 ppm	5.0560 ppm	0.4704 ppm
Concentration per Run 2	0.4531 ppm	0.4585 ppm	0.4861 ppm	0.4534 ppm	0.4958 ppm	5.1714 ppm	0.4941 ppm
Concentration per Run 3	0.4517 ppm	0.4574 ppm	0.4823 ppm	0.4526 ppm	0.4995 ppm	5.1784 ppm	0.4910 ppm
Recovery Percentage 1	90.450 %	91.584 %	95.103 %	89.724 %	98.646 %	102.705 %	97.033 %
Concentration RSD	0.2 %	0.1 %	3.2 %	1.7 %	1.6 %	1.3 %	2.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4758 ppm	0.4596 ppm	9.2301 ppm	0.4585 ppm	0.4563 ppm	0.4609 ppm	0.4692 ppm
Concentration per Run 1	0.4688 ppm	0.4592 ppm	9.0829 ppm	0.4583 ppm	0.4571 ppm	0.4622 ppm	0.4698 ppm
Concentration per Run 2	0.4770 ppm	0.4592 ppm	9.3236 ppm	0.4589 ppm	0.4564 ppm	0.4591 ppm	0.4670 ppm
Concentration per Run 3	0.4815 ppm	0.4604 ppm	9.2839 ppm	0.4584 ppm	0.4554 ppm	0.4615 ppm	0.4707 ppm
Recovery Percentage 1	95.161 %	91.926 %	92.301 %	91.704 %	91.260 %	92.185 %	93.840 %
Concentration RSD	1.4 %	0.2 %	1.4 %	0.1 %	0.2 %	0.3 %	0.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.9381 ppm	0.4537 ppm	0.4708 ppm	0.4864 ppm	0.4580 ppm	0.4599 ppm	0.4632 ppm
Concentration per Run 1	4.9422 ppm	0.4546 ppm	0.4634 ppm	0.4705 ppm	0.4584 ppm	0.4581 ppm	0.4630 ppm
Concentration per Run 2	4.9306 ppm	0.4532 ppm	0.4745 ppm	0.4958 ppm	0.4583 ppm	0.4606 ppm	0.4643 ppm
Concentration per Run 3	4.9415 ppm	0.4533 ppm	0.4746 ppm	0.4928 ppm	0.4574 ppm	0.4610 ppm	0.4621 ppm
Recovery Percentage 1	94.059 %	90.741 %	94.160 %	97.271 %	91.604 %	91.978 %	92.631 %
Concentration RSD	0.1 %	0.2 %	1.4 %	2.8 %	0.1 %	0.3 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.1721 %	104.9420 %	103.4411 %	102.5399 %	101.2014 %	104.3092 %	0.4668 ppm
Concentration per Run 1	101.6106 %	107.4335 %	103.4926 %	104.7875 %	101.2333 %	107.4744 %	0.4620 ppm
Concentration per Run 2	98.4571 %	103.5101 %	103.5113 %	102.1075 %	101.0542 %	102.4581 %	0.4707 ppm
Concentration per Run 3	97.4487 %	103.8823 %	103.3192 %	100.7248 %	101.3167 %	102.9953 %	0.4678 ppm
Recovery Percentage 1							93.364 %
Concentration RSD	2.2 %	2.1 %	0.1 %	2.0 %	0.1 %	2.6 %	0.9 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: CCB
Analysis started at: 3/12/2025 5:41:55 PM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	-0.0035 ppm	0.0002 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0026 ppm
Concentration per Run 1	0.0002 ppm	-0.0064 ppm	-0.0012 ppm	-0.0004 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 2	-0.0004 ppm	0.0012 ppm	0.0007 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0008 ppm
Concentration per Run 3	-0.0001 ppm	-0.0053 ppm	0.0011 ppm	-0.0002 ppm	-0.0001 ppm	0.0000 ppm	0.0086 ppm
Recovery Percentage 1	-1.888 %	-3.479 %	3.864 %	-0.584 %	-0.043 %	-0.088 %	2.577 %
Concentration RSD	228.3 %	117.9 %	651.6 %	145.1 %	2,044.3 %	399.0 %	202.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0006 ppm	0.0282 ppm	-0.0004 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0002 ppm	-0.0003 ppm	0.0023 ppm	0.0199 ppm	-0.0007 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0003 ppm	0.0003 ppm	0.0295 ppm	-0.0004 ppm
Concentration per Run 3	-0.0001 ppm	-0.0001 ppm	-0.0002 ppm	-0.0004 ppm	-0.0009 ppm	0.0352 ppm	0.0000 ppm
Recovery Percentage 1	-1.081 %	-0.129 %	-1.045 %	-3.414 %	1.155 %	1.128 %	-0.366 %
Concentration RSD	67.8 %	196.8 %	189.6 %	15.6 %	275.2 %	27.4 %	84.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0003 ppm	-0.0119 ppm	-0.0001 ppm	-0.0001 ppm	0.0003 ppm	-0.0010 ppm
Concentration per Run 1	0.0002 ppm	0.0004 ppm	-0.0095 ppm	0.0000 ppm	0.0000 ppm	0.0015 ppm	-0.0021 ppm
Concentration per Run 2	-0.0003 ppm	0.0003 ppm	-0.0138 ppm	-0.0001 ppm	-0.0007 ppm	-0.0002 ppm	-0.0004 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	-0.0123 ppm	-0.0002 ppm	0.0005 ppm	-0.0004 ppm	-0.0005 ppm
Recovery Percentage 1	-0.388 %	0.613 %	-0.594 %	-0.410 %	-0.520 %	0.562 %	-10.223 %
Concentration RSD	575.9 %	26.2 %	18.5 %	98.7 %	1,154.4 %	372.4 %	95.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0032 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0007 ppm	0.0001 ppm	0.0003 ppm
Concentration per Run 1	0.0037 ppm	0.0006 ppm	0.0001 ppm	-0.0001 ppm	0.0011 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 2	0.0030 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0004 ppm
Concentration per Run 3	0.0028 ppm	0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0011 ppm	0.0001 ppm	0.0005 ppm
Recovery Percentage 1	0.632 %	0.433 %	0.319 %	0.351 %	3.731 %	1.147 %	6.273 %
Concentration RSD	16.0 %	146.5 %	84.7 %	315.2 %	80.1 %	23.3 %	82.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.4040 %	107.4126 %	105.4535 %	103.5345 %	105.6865 %	104.2054 %	-0.0003 ppm
Concentration per Run 1	103.1403 %	108.8220 %	105.5963 %	105.3823 %	105.2329 %	105.3948 %	-0.0007 ppm
Concentration per Run 2	99.1106 %	106.5725 %	105.3291 %	103.0410 %	105.8083 %	103.5774 %	-0.0004 ppm
Concentration per Run 3	98.9610 %	106.8432 %	105.4351 %	102.1801 %	106.0184 %	103.6442 %	0.0001 ppm
Recovery Percentage 1							-3.258 %
Concentration RSD	2.4 %	1.1 %	0.1 %	1.6 %	0.4 %	1.0 %	134.5 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: L2512075-07d2 WG2037871
Analysis started at: 3/12/2025 5:48:35 PM
Rack: 2
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	78.6919 ppm	0.0274 ppm	0.0115 ppm	0.4145 ppm	0.0081 ppm	86.9814 ppm
Concentration per Run 1	-0.0001 ppm	78.6967 ppm	0.0280 ppm	0.0117 ppm	0.4152 ppm	0.0081 ppm	86.6492 ppm
Concentration per Run 2	-0.0003 ppm	78.6900 ppm	0.0274 ppm	0.0115 ppm	0.4138 ppm	0.0081 ppm	87.1434 ppm
Concentration per Run 3	0.0005 ppm	78.6891 ppm	0.0268 ppm	0.0112 ppm	0.4144 ppm	0.0081 ppm	87.1514 ppm
Concentration RSD	10,755.0 %	0.0 %	2.3 %	2.0 %	0.2 %	0.3 %	0.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0020 ppm	0.1960 ppm	0.1396 ppm	0.1830 ppm	388.5761 [SIC 500]	10.0510 ppm	38.5034 ppm
Concentration per Run 1	0.0023 ppm	0.1989 ppm	0.1440 ppm	0.1855 ppm	386.3599 ppm	10.0730 ppm	39.5647 ppm
Concentration per Run 2	0.0020 ppm	0.1963 ppm	0.1371 ppm	0.1812 ppm	390.9936 ppm	10.0109 ppm	38.0382 ppm
Concentration per Run 3	0.0018 ppm	0.1929 ppm	0.1377 ppm	0.1824 ppm	388.3747 ppm	10.0692 ppm	37.9073 ppm
Concentration RSD	12.9 %	1.5 %	2.8 %	1.2 %	0.6 %	0.3 %	2.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	8.8822 ppm	0.0031 ppm	9.6889 ppm	0.2850 ppm	0.2211 ppm	-0.0084 ppm	0.0116 ppm
Concentration per Run 1	8.8664 ppm	0.0031 ppm	9.7019 ppm	0.2896 ppm	0.2242 ppm	-0.0068 ppm	0.0132 ppm
Concentration per Run 2	8.8855 ppm	0.0031 ppm	9.6597 ppm	0.2860 ppm	0.2225 ppm	-0.0085 ppm	0.0124 ppm
Concentration per Run 3	8.8947 ppm	0.0032 ppm	9.7050 ppm	0.2794 ppm	0.2166 ppm	-0.0098 ppm	0.0093 ppm
Concentration RSD	0.2 %	1.8 %	0.3 %	1.8 %	1.8 %	17.8 %	17.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.6252 ppm	0.0067 ppm	0.1711 ppm	0.3224 ppm	-0.0086 ppm	0.1473 ppm	0.7183 ppm
Concentration per Run 1	4.6930 ppm	0.0066 ppm	0.1712 ppm	0.3318 ppm	-0.0082 ppm	0.1481 ppm	0.7301 ppm
Concentration per Run 2	4.6400 ppm	0.0068 ppm	0.1709 ppm	0.3184 ppm	-0.0090 ppm	0.1472 ppm	0.7189 ppm
Concentration per Run 3	4.5426 ppm	0.0066 ppm	0.1713 ppm	0.3171 ppm	-0.0087 ppm	0.1466 ppm	0.7058 ppm
Concentration RSD	1.6 %	1.7 %	0.1 %	2.5 %	4.9 %	0.5 %	1.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	110.9198 %	110.7977 %	108.7554 %	104.1209 %	87.2808 %	98.7501 %	0.1647 ppm
Concentration per Run 1	112.1325 %	110.0740 %	108.5963 %	104.2876 %	86.7303 %	96.4349 %	0.1648 ppm
Concentration per Run 2	110.3203 %	111.1876 %	108.7425 %	104.1103 %	87.1600 %	99.7741 %	0.1646 ppm
Concentration per Run 3	110.3068 %	111.1315 %	108.9274 %	103.9648 %	87.9522 %	100.0413 %	0.1646 ppm
Concentration RSD	0.9 %	0.6 %	0.2 %	0.2 %	0.7 %	2.0 %	0.1 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: L2512075-11d2 WG2037871
Analysis started at: 3/12/2025 5:55:09 PM
Rack: 2
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0007 ppm	116.2913 ppm	0.0417 ppm	0.0070 ppm	1.3745 ppm	0.0057 ppm	5.6871 ppm
Concentration per Run 1	-0.0007 ppm	117.0647 ppm	0.0404 ppm	0.0067 ppm	1.3844 ppm	0.0057 ppm	5.7092 ppm
Concentration per Run 2	-0.0008 ppm	114.7455 ppm	0.0422 ppm	0.0069 ppm	1.3556 ppm	0.0057 ppm	5.6221 ppm
Concentration per Run 3	-0.0006 ppm	117.0636 ppm	0.0424 ppm	0.0074 ppm	1.3834 ppm	0.0058 ppm	5.7301 ppm
Concentration RSD	14.8 %	1.2 %	2.6 %	5.0 %	1.2 %	1.0 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.1163 ppm	0.2212 ppm	0.2618 ppm	257.6187 [SIC 500]	6.5556 ppm	46.1143 ppm
Concentration per Run 1	0.0000 ppm	0.1191 ppm	0.2165 ppm	0.2583 ppm	259.7952 ppm	6.6135 ppm	45.1764 ppm
Concentration per Run 2	-0.0001 ppm	0.1138 ppm	0.2270 ppm	0.2663 ppm	256.2268 ppm	6.4912 ppm	47.3778 ppm
Concentration per Run 3	0.0000 ppm	0.1160 ppm	0.2200 ppm	0.2609 ppm	256.8341 ppm	6.5621 ppm	45.7885 ppm
Concentration RSD	363.1 %	2.3 %	2.4 %	1.6 %	0.7 %	0.9 %	2.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	2.3868 ppm	-0.0002 ppm	14.5621 ppm	0.3328 ppm	0.1311 ppm	-0.0062 ppm	0.0077 ppm
Concentration per Run 1	2.4032 ppm	-0.0001 ppm	14.6842 ppm	0.3404 ppm	0.1335 ppm	-0.0065 ppm	0.0065 ppm
Concentration per Run 2	2.3568 ppm	-0.0002 ppm	14.3731 ppm	0.3250 ppm	0.1285 ppm	-0.0069 ppm	0.0065 ppm
Concentration per Run 3	2.4005 ppm	-0.0004 ppm	14.6289 ppm	0.3329 ppm	0.1314 ppm	-0.0051 ppm	0.0101 ppm
Concentration RSD	1.1 %	57.6 %	1.1 %	2.3 %	1.9 %	15.5 %	26.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.7193 ppm	0.0075 ppm	0.0668 ppm	1.0894 ppm	-0.0057 ppm	0.1669 ppm	0.9494 ppm
Concentration per Run 1	4.8329 ppm	0.0077 ppm	0.0673 ppm	1.0651 ppm	-0.0054 ppm	0.1675 ppm	0.9740 ppm
Concentration per Run 2	4.6065 ppm	0.0072 ppm	0.0657 ppm	1.1213 ppm	-0.0058 ppm	0.1652 ppm	0.9301 ppm
Concentration per Run 3	4.7186 ppm	0.0077 ppm	0.0672 ppm	1.0819 ppm	-0.0059 ppm	0.1680 ppm	0.9440 ppm
Concentration RSD	2.4 %	4.0 %	1.3 %	2.6 %	4.5 %	0.9 %	2.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	111.1185 %	113.9838 %	111.0503 %	105.7473 %	92.6455 %	104.4570 %	0.2819 ppm
Concentration per Run 1	112.0161 %	115.1262 %	110.8505 %	105.5116 %	91.8917 %	106.9563 %	0.2845 ppm
Concentration per Run 2	110.9000 %	112.1519 %	112.0951 %	106.9492 %	94.9153 %	101.5060 %	0.2770 ppm
Concentration per Run 3	110.4394 %	114.6733 %	110.2054 %	104.7812 %	91.1295 %	104.9085 %	0.2841 ppm
Concentration RSD	0.7 %	1.4 %	0.9 %	1.0 %	2.2 %	2.6 %	1.5 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: eL2512075-12d2 WG2037871
Analysis started at: 3/12/2025 6:01:41 PM
Rack: 2
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	29.8789 ppm	0.2393 ppm	0.0203 ppm	0.5469 ppm	0.0084 ppm	4.5148 ppm
Concentration per Run 1	-0.0002 ppm	29.8547 ppm	0.2437 ppm	0.0206 ppm	0.5466 ppm	0.0084 ppm	4.4834 ppm
Concentration per Run 2	-0.0007 ppm	29.9459 ppm	0.2375 ppm	0.0204 ppm	0.5471 ppm	0.0084 ppm	4.5414 ppm
Concentration per Run 3	0.0001 ppm	29.8361 ppm	0.2367 ppm	0.0199 ppm	0.5470 ppm	0.0084 ppm	4.5196 ppm
Concentration RSD	159.5 %	0.2 %	1.6 %	1.7 %	0.0 %	0.4 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0038 ppm	0.0394 ppm	0.1173 ppm	0.1795 ppm	514.5962 [SIC 500]	11.3945 ppm	7.6393 ppm
Concentration per Run 1	0.0040 ppm	0.0404 ppm	0.1178 ppm	0.1787 ppm	513.9782 ppm	11.4510 ppm	7.6677 ppm
Concentration per Run 2	0.0036 ppm	0.0392 ppm	0.1169 ppm	0.1800 ppm	519.2395 ppm	11.3110 ppm	7.6430 ppm
Concentration per Run 3	0.0038 ppm	0.0386 ppm	0.1171 ppm	0.1797 ppm	510.5709 ppm	11.4214 ppm	7.6073 ppm
Concentration RSD	4.6 %	2.3 %	0.4 %	0.4 %	0.8 %	0.6 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.3079 ppm	0.0046 ppm	8.4787 ppm	0.0797 ppm	0.2829 ppm	-0.0083 ppm	0.0245 ppm
Concentration per Run 1	1.3039 ppm	0.0048 ppm	8.5102 ppm	0.0812 ppm	0.2892 ppm	-0.0078 ppm	0.0232 ppm
Concentration per Run 2	1.3106 ppm	0.0046 ppm	8.4380 ppm	0.0795 ppm	0.2813 ppm	-0.0095 ppm	0.0259 ppm
Concentration per Run 3	1.3092 ppm	0.0043 ppm	8.4878 ppm	0.0782 ppm	0.2783 ppm	-0.0076 ppm	0.0245 ppm
Concentration RSD	0.3 %	5.4 %	0.4 %	1.9 %	2.0 %	12.8 %	5.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.2426 ppm	0.0087 ppm	0.1880 ppm	0.4358 ppm	-0.0041 ppm	0.1798 ppm	0.4562 ppm
Concentration per Run 1	3.3156 ppm	0.0089 ppm	0.1880 ppm	0.4373 ppm	-0.0037 ppm	0.1800 ppm	0.4660 ppm
Concentration per Run 2	3.2322 ppm	0.0086 ppm	0.1880 ppm	0.4355 ppm	-0.0036 ppm	0.1793 ppm	0.4557 ppm
Concentration per Run 3	3.1799 ppm	0.0087 ppm	0.1880 ppm	0.4345 ppm	-0.0050 ppm	0.1799 ppm	0.4467 ppm
Concentration RSD	2.1 %	1.8 %	0.0 %	0.3 %	18.7 %	0.2 %	2.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	109.3449 %	109.5626 %	105.4251 %	106.8360 %	88.6725 %	103.0658 %	0.0375 ppm
Concentration per Run 1	110.3666 %	109.0218 %	104.8947 %	107.3421 %	87.6402 %	102.6010 %	0.0373 ppm
Concentration per Run 2	108.6191 %	109.5057 %	105.4349 %	106.3923 %	88.8037 %	103.0923 %	0.0375 ppm
Concentration per Run 3	109.0488 %	110.1602 %	105.9455 %	106.7737 %	89.5736 %	103.5042 %	0.0377 ppm
Concentration RSD	0.8 %	0.5 %	0.5 %	0.4 %	1.1 %	0.4 %	0.6 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: LDR 500 Fe fails
Analysis started at: 3/12/2025 6:08:13 PM
Rack: 2
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0018 ppm	0.0056 ppm	-0.0011 ppm	0.0004 ppm	0.0000 ppm	0.0073 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	0.0056 ppm	-0.0013 ppm	0.0004 ppm	0.0000 ppm	0.0036 ppm
Concentration per Run 2	0.0004 ppm	0.0006 ppm	0.0067 ppm	-0.0010 ppm	0.0004 ppm	0.0000 ppm	0.0098 ppm
Concentration per Run 3	0.0003 ppm	0.0050 ppm	0.0044 ppm	-0.0012 ppm	0.0005 ppm	0.0000 ppm	0.0086 ppm
Concentration RSD	57.7 %	151.9 %	21.4 %	16.5 %	15.9 %	302.7 %	44.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0029 ppm	0.0001 ppm	-0.0020 ppm	-0.0055 ppm	438.2295 [SIC 500]	0.0166 ppm	0.0342 ppm
Concentration per Run 1	0.0029 ppm	0.0003 ppm	-0.0020 ppm	-0.0050 ppm	433.4181 ppm	0.0148 ppm	0.0338 ppm
Concentration per Run 2	0.0029 ppm	-0.0002 ppm	-0.0021 ppm	-0.0054 ppm	440.4791 ppm	0.0173 ppm	0.0352 ppm
Concentration per Run 3	0.0028 ppm	0.0001 ppm	-0.0019 ppm	-0.0060 ppm	440.7912 ppm	0.0179 ppm	0.0336 ppm
Concentration RSD	1.0 %	289.9 %	5.9 %	9.8 %	1.0 %	9.9 %	2.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0006 ppm	-0.0042 ppm	-0.0036 ppm	-0.0126 ppm	0.0027 ppm	-0.0079 ppm	0.0134 ppm
Concentration per Run 1	0.0007 ppm	-0.0041 ppm	-0.0045 ppm	-0.0124 ppm	0.0035 ppm	-0.0089 ppm	0.0128 ppm
Concentration per Run 2	0.0004 ppm	-0.0042 ppm	-0.0049 ppm	-0.0131 ppm	0.0024 ppm	-0.0063 ppm	0.0142 ppm
Concentration per Run 3	0.0006 ppm	-0.0042 ppm	-0.0015 ppm	-0.0122 ppm	0.0021 ppm	-0.0085 ppm	0.0133 ppm
Concentration RSD	24.2 %	1.3 %	52.2 %	3.6 %	27.2 %	18.0 %	5.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0090 ppm	0.0023 ppm	0.0005 ppm	-0.0002 ppm	-0.0017 ppm	0.0024 ppm	0.0027 ppm
Concentration per Run 1	0.0092 ppm	0.0020 ppm	0.0004 ppm	-0.0003 ppm	-0.0030 ppm	0.0023 ppm	0.0027 ppm
Concentration per Run 2	0.0088 ppm	0.0023 ppm	0.0005 ppm	-0.0001 ppm	-0.0006 ppm	0.0024 ppm	0.0026 ppm
Concentration per Run 3	0.0090 ppm	0.0024 ppm	0.0005 ppm	-0.0003 ppm	-0.0015 ppm	0.0024 ppm	0.0026 ppm
Concentration RSD	2.6 %	8.3 %	13.7 %	61.9 %	71.1 %	2.9 %	0.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.5460 %	102.3158 %	99.5179 %	103.1334 %	92.2397 %	101.0675 %	0.0001 ppm
Concentration per Run 1	100.2613 %	102.5298 %	99.1896 %	105.6064 %	91.7735 %	101.2920 %	-0.0005 ppm
Concentration per Run 2	99.0268 %	104.5691 %	98.4046 %	102.8062 %	90.9365 %	103.2877 %	0.0006 ppm
Concentration per Run 3	96.3499 %	99.8485 %	100.9594 %	100.9876 %	94.0091 %	98.6228 %	0.0002 ppm
Concentration RSD	2.0 %	2.3 %	1.3 %	2.3 %	1.7 %	2.3 %	587.0 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: LDR 400 Fe fails
Analysis started at: 3/12/2025 6:19:59 PM
Rack: 2
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	-0.0050 ppm	0.0029 ppm	-0.0013 ppm	0.0002 ppm	0.0000 ppm	0.0047 ppm
Concentration per Run 1	0.0002 ppm	-0.0011 ppm	0.0033 ppm	-0.0013 ppm	0.0002 ppm	0.0000 ppm	-0.0023 ppm
Concentration per Run 2	0.0003 ppm	-0.0052 ppm	0.0035 ppm	-0.0013 ppm	0.0002 ppm	0.0001 ppm	0.0077 ppm
Concentration per Run 3	0.0001 ppm	-0.0088 ppm	0.0018 ppm	-0.0014 ppm	0.0003 ppm	0.0000 ppm	0.0087 ppm
Concentration RSD	46.6 %	77.1 %	31.8 %	5.2 %	39.3 %	85.0 %	128.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0012 ppm	0.0000 ppm	-0.0009 ppm	-0.0024 ppm	224.4278 [SIC 500]	0.0148 ppm	0.0164 ppm
Concentration per Run 1	0.0012 ppm	0.0002 ppm	-0.0011 ppm	-0.0025 ppm	220.2179 ppm	0.0182 ppm	0.0151 ppm
Concentration per Run 2	0.0013 ppm	0.0001 ppm	-0.0011 ppm	-0.0023 ppm	224.3760 ppm	0.0065 ppm	0.0169 ppm
Concentration per Run 3	0.0012 ppm	-0.0001 ppm	-0.0005 ppm	-0.0024 ppm	228.6896 ppm	0.0197 ppm	0.0171 ppm
Concentration RSD	6.1 %	321.2 %	34.3 %	3.7 %	1.9 %	48.6 %	6.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	-0.0025 ppm	-0.0035 ppm	-0.0115 ppm	0.0011 ppm	-0.0041 ppm	0.0063 ppm
Concentration per Run 1	0.0003 ppm	-0.0025 ppm	-0.0047 ppm	-0.0117 ppm	0.0011 ppm	-0.0050 ppm	0.0078 ppm
Concentration per Run 2	-0.0001 ppm	-0.0025 ppm	-0.0060 ppm	-0.0113 ppm	0.0007 ppm	-0.0041 ppm	0.0063 ppm
Concentration per Run 3	0.0002 ppm	-0.0026 ppm	0.0004 ppm	-0.0114 ppm	0.0017 ppm	-0.0032 ppm	0.0049 ppm
Concentration RSD	165.2 %	1.4 %	97.5 %	1.9 %	40.8 %	22.9 %	23.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0034 ppm	0.0010 ppm	0.0003 ppm	-0.0002 ppm	-0.0003 ppm	0.0011 ppm	0.0017 ppm
Concentration per Run 1	0.0040 ppm	0.0010 ppm	0.0002 ppm	-0.0002 ppm	-0.0007 ppm	0.0012 ppm	0.0018 ppm
Concentration per Run 2	0.0031 ppm	0.0009 ppm	0.0003 ppm	-0.0003 ppm	-0.0008 ppm	0.0009 ppm	0.0018 ppm
Concentration per Run 3	0.0032 ppm	0.0012 ppm	0.0002 ppm	-0.0003 ppm	0.0007 ppm	0.0013 ppm	0.0017 ppm
Concentration RSD	14.9 %	13.5 %	17.7 %	22.1 %	322.7 %	17.4 %	4.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.0161 %	104.7174 %	102.0553 %	105.3214 %	97.9184 %	104.3721 %	0.0000 ppm
Concentration per Run 1	99.4598 %	105.8682 %	102.5500 %	107.6150 %	97.8700 %	105.1677 %	-0.0007 ppm
Concentration per Run 2	98.8975 %	104.1970 %	101.2501 %	104.9065 %	97.3258 %	104.1016 %	0.0004 ppm
Concentration per Run 3	98.6909 %	104.0870 %	102.3657 %	103.4428 %	98.5593 %	103.8468 %	0.0004 ppm
Concentration RSD	0.4 %	1.0 %	0.7 %	2.0 %	0.6 %	0.7 %	4,305.2 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: CCV
Analysis started at: 3/12/2025 6:30:06 PM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4697 ppm	0.4790 ppm	0.4531 ppm	0.4516 ppm	0.4528 ppm	0.4756 ppm	0.5002 ppm
Concentration per Run 1	0.4707 ppm	0.4692 ppm	0.4549 ppm	0.4527 ppm	0.4469 ppm	0.4685 ppm	0.4932 ppm
Concentration per Run 2	0.4696 ppm	0.4872 ppm	0.4532 ppm	0.4514 ppm	0.4550 ppm	0.4788 ppm	0.5028 ppm
Concentration per Run 3	0.4688 ppm	0.4806 ppm	0.4511 ppm	0.4506 ppm	0.4566 ppm	0.4796 ppm	0.5046 ppm
Recovery Percentage 1	93.939 %	95.806 %	90.614 %	90.315 %	90.561 %	95.130 %	100.044 %
Concentration RSD	0.2 %	1.9 %	0.4 %	0.2 %	1.1 %	1.3 %	1.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4477 ppm	0.4532 ppm	0.4738 ppm	0.4481 ppm	0.4856 ppm	5.0244 ppm	0.4849 ppm
Concentration per Run 1	0.4478 ppm	0.4537 ppm	0.4757 ppm	0.4483 ppm	0.4794 ppm	4.9683 ppm	0.4868 ppm
Concentration per Run 2	0.4481 ppm	0.4529 ppm	0.4721 ppm	0.4482 ppm	0.4877 ppm	5.0446 ppm	0.4846 ppm
Concentration per Run 3	0.4473 ppm	0.4532 ppm	0.4736 ppm	0.4479 ppm	0.4896 ppm	5.0604 ppm	0.4833 ppm
Recovery Percentage 1	89.541 %	90.647 %	94.760 %	89.624 %	97.117 %	100.489 %	96.981 %
Concentration RSD	0.1 %	0.1 %	0.4 %	0.0 %	1.1 %	1.0 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4701 ppm	0.4560 ppm	9.1457 ppm	0.4544 ppm	0.4525 ppm	0.4552 ppm	0.4619 ppm
Concentration per Run 1	0.4637 ppm	0.4563 ppm	9.0676 ppm	0.4546 ppm	0.4528 ppm	0.4549 ppm	0.4641 ppm
Concentration per Run 2	0.4729 ppm	0.4559 ppm	9.1795 ppm	0.4546 ppm	0.4527 ppm	0.4551 ppm	0.4593 ppm
Concentration per Run 3	0.4737 ppm	0.4558 ppm	9.1901 ppm	0.4541 ppm	0.4520 ppm	0.4558 ppm	0.4622 ppm
Recovery Percentage 1	94.020 %	91.198 %	91.457 %	90.882 %	90.497 %	91.050 %	92.372 %
Concentration RSD	1.2 %	0.1 %	0.7 %	0.1 %	0.1 %	0.1 %	0.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.8922 ppm	0.4503 ppm	0.4649 ppm	0.4844 ppm	0.4542 ppm	0.4550 ppm	0.4585 ppm
Concentration per Run 1	4.8970 ppm	0.4506 ppm	0.4584 ppm	0.4850 ppm	0.4552 ppm	0.4550 ppm	0.4579 ppm
Concentration per Run 2	4.8926 ppm	0.4500 ppm	0.4674 ppm	0.4831 ppm	0.4533 ppm	0.4563 ppm	0.4592 ppm
Concentration per Run 3	4.8870 ppm	0.4503 ppm	0.4689 ppm	0.4851 ppm	0.4540 ppm	0.4537 ppm	0.4583 ppm
Recovery Percentage 1	93.185 %	90.058 %	92.983 %	96.878 %	90.835 %	90.999 %	91.692 %
Concentration RSD	0.1 %	0.1 %	1.2 %	0.2 %	0.2 %	0.3 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.9985 %	104.9829 %	104.3725 %	103.7800 %	102.2336 %	104.5917 %	0.4620 ppm
Concentration per Run 1	101.7205 %	104.8276 %	104.2894 %	105.3550 %	102.3670 %	104.3866 %	0.4570 ppm
Concentration per Run 2	99.2197 %	105.4852 %	104.3307 %	103.0856 %	102.0675 %	105.0376 %	0.4635 ppm
Concentration per Run 3	99.0552 %	104.6360 %	104.4974 %	102.8993 %	102.2665 %	104.3509 %	0.4656 ppm
Recovery Percentage 1							92.409 %
Concentration RSD	1.5 %	0.4 %	0.1 %	1.3 %	0.1 %	0.4 %	1.0 %

LabBook: WG2039408_03122025T6.imexp

Sample: CCB
Analysis started at: 3/12/2025 6:36:26 PM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	-0.0026 ppm	-0.0006 ppm	-0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0035 ppm
Concentration per Run 1	-0.0001 ppm	-0.0021 ppm	-0.0010 ppm	-0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0035 ppm
Concentration per Run 2	-0.0001 ppm	-0.0069 ppm	-0.0002 ppm	-0.0007 ppm	-0.0001 ppm	0.0000 ppm	0.0027 ppm
Concentration per Run 3	-0.0001 ppm	0.0012 ppm	-0.0006 ppm	-0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0045 ppm
Recovery Percentage 1	-1.326 %	-2.599 %	-11.812 %	-2.151 %	-0.382 %	0.557 %	3.537 %
Concentration RSD	36.0 %	157.0 %	74.4 %	18.9 %	248.8 %	47.8 %	26.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0005 ppm	0.0081 ppm	-0.0001 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0000 ppm	-0.0004 ppm	0.0008 ppm	0.0032 ppm	-0.0003 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0004 ppm	0.0006 ppm	0.0095 ppm	-0.0006 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0003 ppm	0.0001 ppm	0.0117 ppm	0.0005 ppm
Recovery Percentage 1	-0.106 %	-0.071 %	0.402 %	-3.366 %	0.980 %	0.324 %	-0.107 %
Concentration RSD	187.6 %	527.7 %	154.7 %	21.3 %	80.9 %	54.5 %	543.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0002 ppm	0.0002 ppm	-0.0165 ppm	0.0000 ppm	0.0001 ppm	0.0005 ppm	-0.0008 ppm
Concentration per Run 1	-0.0004 ppm	0.0004 ppm	-0.0171 ppm	0.0001 ppm	0.0004 ppm	0.0004 ppm	-0.0018 ppm
Concentration per Run 2	-0.0002 ppm	0.0002 ppm	-0.0166 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 3	0.0001 ppm	0.0002 ppm	-0.0158 ppm	-0.0001 ppm	-0.0001 ppm	0.0012 ppm	-0.0004 ppm
Recovery Percentage 1	-1.827 %	0.477 %	-0.825 %	0.005 %	0.544 %	1.078 %	-8.293 %
Concentration RSD	120.9 %	44.4 %	3.9 %	6,795.2 %	490.1 %	113.2 %	101.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0000 ppm	0.0003 ppm	0.0000 ppm	-0.0002 ppm	0.0006 ppm	0.0002 ppm	0.0001 ppm
Concentration per Run 1	-0.0004 ppm	0.0001 ppm	0.0001 ppm	-0.0003 ppm	0.0005 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 2	0.0001 ppm	0.0003 ppm	0.0000 ppm	-0.0001 ppm	0.0008 ppm	0.0004 ppm	0.0001 ppm
Concentration per Run 3	0.0004 ppm	0.0004 ppm	0.0000 ppm	-0.0002 ppm	0.0006 ppm	0.0002 ppm	0.0002 ppm
Recovery Percentage 1	0.009 %	0.547 %	0.215 %	-1.872 %	3.096 %	2.300 %	2.986 %
Concentration RSD	1,019.1 %	52.9 %	220.5 %	47.3 %	31.9 %	86.1 %	50.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.7162 %	106.8695 %	105.8415 %	104.3372 %	105.7931 %	105.5304 %	-0.0004 ppm
Concentration per Run 1	103.4360 %	107.0919 %	106.2001 %	105.4484 %	107.1068 %	105.8228 %	-0.0011 ppm
Concentration per Run 2	101.4251 %	106.7192 %	106.1492 %	104.2950 %	106.2444 %	105.3976 %	-0.0009 ppm
Concentration per Run 3	100.2875 %	106.7975 %	105.1750 %	103.2681 %	104.0280 %	105.3707 %	0.0007 ppm
Recovery Percentage 1							-4.248 %
Concentration RSD	1.6 %	0.2 %	0.5 %	1.0 %	1.5 %	0.2 %	225.2 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: L2512075-01d4 WG2037871
Analysis started at: 3/12/2025 6:54:20 PM
Rack: 2
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	34.6248 ppm	0.0671 ppm	0.0119 ppm	0.3052 ppm	0.0045 ppm	16.6621 ppm
Concentration per Run 1	0.0002 ppm	33.7915 ppm	0.0677 ppm	0.0118 ppm	0.3004 ppm	0.0043 ppm	16.2052 ppm
Concentration per Run 2	-0.0006 ppm	34.9634 ppm	0.0672 ppm	0.0123 ppm	0.3076 ppm	0.0046 ppm	16.8815 ppm
Concentration per Run 3	-0.0005 ppm	35.1196 ppm	0.0664 ppm	0.0116 ppm	0.3075 ppm	0.0045 ppm	16.8995 ppm
Concentration RSD	148.9 %	2.1 %	1.0 %	3.0 %	1.4 %	2.8 %	2.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0008 ppm	0.0302 ppm	0.0742 ppm	0.1019 ppm	152.1468 ppm	4.0064 ppm	9.2610 ppm
Concentration per Run 1	0.0007 ppm	0.0306 ppm	0.0743 ppm	0.1021 ppm	149.6586 ppm	3.9365 ppm	9.2640 ppm
Concentration per Run 2	0.0007 ppm	0.0302 ppm	0.0732 ppm	0.1017 ppm	155.4974 ppm	4.0384 ppm	9.1261 ppm
Concentration per Run 3	0.0009 ppm	0.0300 ppm	0.0752 ppm	0.1019 ppm	151.2842 ppm	4.0444 ppm	9.3927 ppm
Concentration RSD	11.6 %	1.1 %	1.4 %	0.2 %	2.0 %	1.5 %	1.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.1049 ppm	0.0022 ppm	6.8565 ppm	0.0548 ppm	0.0912 ppm	-0.0031 ppm	0.0046 ppm
Concentration per Run 1	1.0771 ppm	0.0022 ppm	6.6957 ppm	0.0552 ppm	0.0925 ppm	-0.0033 ppm	0.0064 ppm
Concentration per Run 2	1.1182 ppm	0.0022 ppm	6.9260 ppm	0.0547 ppm	0.0902 ppm	-0.0034 ppm	0.0044 ppm
Concentration per Run 3	1.1193 ppm	0.0022 ppm	6.9479 ppm	0.0543 ppm	0.0910 ppm	-0.0027 ppm	0.0029 ppm
Concentration RSD	2.2 %	1.3 %	2.0 %	0.8 %	1.3 %	10.8 %	37.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.7544 ppm	0.0034 ppm	0.0627 ppm	0.3244 ppm	-0.0021 ppm	0.0883 ppm	0.2313 ppm
Concentration per Run 1	3.7793 ppm	0.0033 ppm	0.0613 ppm	0.3254 ppm	-0.0028 ppm	0.0883 ppm	0.2339 ppm
Concentration per Run 2	3.7459 ppm	0.0034 ppm	0.0632 ppm	0.3189 ppm	-0.0012 ppm	0.0883 ppm	0.2312 ppm
Concentration per Run 3	3.7381 ppm	0.0034 ppm	0.0636 ppm	0.3289 ppm	-0.0025 ppm	0.0883 ppm	0.2289 ppm
Concentration RSD	0.6 %	1.4 %	2.0 %	1.6 %	39.9 %	0.0 %	1.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	108.3089 %	109.4883 %	108.8361 %	110.0234 %	98.7812 %	105.9732 %	0.0403 ppm
Concentration per Run 1	110.1003 %	109.6367 %	108.4733 %	112.7709 %	98.0543 %	105.8742 %	0.0392 ppm
Concentration per Run 2	107.1477 %	109.7753 %	108.9415 %	108.6537 %	99.0204 %	107.4523 %	0.0408 ppm
Concentration per Run 3	107.6788 %	109.0528 %	109.0936 %	108.6458 %	99.2688 %	104.5932 %	0.0410 ppm
Concentration RSD	1.5 %	0.4 %	0.3 %	2.2 %	0.6 %	1.4 %	2.4 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: WG2037871-3d4 WG2037871
Analysis started at: 3/12/2025 7:00:46 PM
Rack: 2
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0206 ppm	36.6733 ppm	0.1376 ppm	0.3960 ppm	1.0731 ppm	0.0231 ppm	13.3389 ppm
Concentration per Run 1	0.0211 ppm	35.7157 ppm	0.1384 ppm	0.3933 ppm	1.0531 ppm	0.0226 ppm	13.0054 ppm
Concentration per Run 2	0.0205 ppm	36.9606 ppm	0.1356 ppm	0.3964 ppm	1.0799 ppm	0.0233 ppm	13.4319 ppm
Concentration per Run 3	0.0201 ppm	37.3435 ppm	0.1387 ppm	0.3983 ppm	1.0864 ppm	0.0235 ppm	13.5795 ppm
Concentration RSD	2.5 %	2.3 %	1.3 %	0.6 %	1.6 %	1.9 %	2.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0219 ppm	0.2249 ppm	0.1489 ppm	0.1994 ppm	156.6134 ppm	8.3916 ppm	13.1131 ppm
Concentration per Run 1	0.0219 ppm	0.2237 ppm	0.1512 ppm	0.2045 ppm	152.6605 ppm	8.1932 ppm	13.3137 ppm
Concentration per Run 2	0.0219 ppm	0.2251 ppm	0.1485 ppm	0.1951 ppm	157.7692 ppm	8.4512 ppm	13.1069 ppm
Concentration per Run 3	0.0220 ppm	0.2261 ppm	0.1468 ppm	0.1985 ppm	159.4104 ppm	8.5302 ppm	12.9186 ppm
Concentration RSD	0.2 %	0.5 %	1.5 %	2.4 %	2.2 %	2.1 %	1.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.4024 ppm	0.3876 ppm	12.2137 ppm	0.2533 ppm	0.3338 ppm	0.0514 ppm	0.0451 ppm
Concentration per Run 1	1.3692 ppm	0.3851 ppm	11.8956 ppm	0.2522 ppm	0.3328 ppm	0.0515 ppm	0.0438 ppm
Concentration per Run 2	1.4122 ppm	0.3879 ppm	12.3086 ppm	0.2536 ppm	0.3339 ppm	0.0517 ppm	0.0462 ppm
Concentration per Run 3	1.4259 ppm	0.3899 ppm	12.4368 ppm	0.2540 ppm	0.3348 ppm	0.0510 ppm	0.0454 ppm
Concentration RSD	2.1 %	0.6 %	2.3 %	0.4 %	0.3 %	0.7 %	2.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.2797 ppm	0.3840 ppm	0.5080 ppm	0.6605 ppm	0.0451 ppm	0.2670 ppm	0.4164 ppm
Concentration per Run 1	4.2475 ppm	0.3833 ppm	0.4943 ppm	0.6699 ppm	0.0443 ppm	0.2668 ppm	0.4151 ppm
Concentration per Run 2	4.2855 ppm	0.3828 ppm	0.5118 ppm	0.6609 ppm	0.0456 ppm	0.2657 ppm	0.4159 ppm
Concentration per Run 3	4.3060 ppm	0.3860 ppm	0.5179 ppm	0.6508 ppm	0.0454 ppm	0.2686 ppm	0.4182 ppm
Concentration RSD	0.7 %	0.4 %	2.4 %	1.4 %	1.5 %	0.5 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	105.8850 %	106.4408 %	107.0833 %	107.3272 %	96.7673 %	103.7932 %	0.0436 ppm
Concentration per Run 1	107.3948 %	104.5113 %	107.7606 %	109.7278 %	97.4243 %	102.7647 %	0.0424 ppm
Concentration per Run 2	105.0549 %	108.1207 %	107.0086 %	106.3953 %	96.5679 %	103.3415 %	0.0438 ppm
Concentration per Run 3	105.2053 %	106.6904 %	106.4806 %	105.8585 %	96.3097 %	105.2733 %	0.0447 ppm
Concentration RSD	1.2 %	1.7 %	0.6 %	2.0 %	0.6 %	1.3 %	2.6 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: WG2037871-4d4 WG2037871
Analysis started at: 3/12/2025 7:07:04 PM
Rack: 2
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	34.4860 ppm	0.0647 ppm	0.0099 ppm	0.2953 ppm	0.0038 ppm	9.6828 ppm
Concentration per Run 1	0.0000 ppm	33.5086 ppm	0.0650 ppm	0.0099 ppm	0.2897 ppm	0.0037 ppm	9.3929 ppm
Concentration per Run 2	-0.0004 ppm	34.8056 ppm	0.0655 ppm	0.0101 ppm	0.2971 ppm	0.0038 ppm	9.7798 ppm
Concentration per Run 3	-0.0005 ppm	35.1440 ppm	0.0637 ppm	0.0099 ppm	0.2990 ppm	0.0039 ppm	9.8756 ppm
Concentration RSD	82.1 %	2.5 %	1.4 %	1.4 %	1.7 %	2.7 %	2.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0006 ppm	0.0275 ppm	0.0714 ppm	0.0886 ppm	153.2541 ppm	3.9185 ppm	8.1663 ppm
Concentration per Run 1	0.0006 ppm	0.0274 ppm	0.0710 ppm	0.0892 ppm	149.0772 ppm	3.8082 ppm	8.1975 ppm
Concentration per Run 2	0.0007 ppm	0.0277 ppm	0.0708 ppm	0.0867 ppm	155.2417 ppm	3.9408 ppm	8.0537 ppm
Concentration per Run 3	0.0006 ppm	0.0275 ppm	0.0724 ppm	0.0899 ppm	155.4433 ppm	4.0067 ppm	8.2476 ppm
Concentration RSD	8.7 %	0.6 %	1.2 %	1.9 %	2.4 %	2.6 %	1.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.0749 ppm	0.0021 ppm	5.9820 ppm	0.0525 ppm	0.0789 ppm	-0.0034 ppm	0.0056 ppm
Concentration per Run 1	1.0422 ppm	0.0023 ppm	5.8126 ppm	0.0521 ppm	0.0780 ppm	-0.0036 ppm	0.0067 ppm
Concentration per Run 2	1.0866 ppm	0.0019 ppm	6.0271 ppm	0.0527 ppm	0.0792 ppm	-0.0044 ppm	0.0042 ppm
Concentration per Run 3	1.0957 ppm	0.0020 ppm	6.1063 ppm	0.0526 ppm	0.0794 ppm	-0.0020 ppm	0.0057 ppm
Concentration RSD	2.7 %	8.5 %	2.5 %	0.6 %	1.0 %	36.1 %	22.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.5431 ppm	0.0036 ppm	0.0478 ppm	0.3098 ppm	-0.0019 ppm	0.0863 ppm	0.2183 ppm
Concentration per Run 1	2.5230 ppm	0.0042 ppm	0.0463 ppm	0.3101 ppm	-0.0026 ppm	0.0853 ppm	0.2178 ppm
Concentration per Run 2	2.5576 ppm	0.0035 ppm	0.0482 ppm	0.3063 ppm	-0.0010 ppm	0.0866 ppm	0.2185 ppm
Concentration per Run 3	2.5487 ppm	0.0031 ppm	0.0490 ppm	0.3129 ppm	-0.0020 ppm	0.0869 ppm	0.2186 ppm
Concentration RSD	0.7 %	14.1 %	2.8 %	1.1 %	44.0 %	1.0 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	106.9852 %	108.0369 %	107.4389 %	109.2227 %	98.5655 %	105.1990 %	0.0398 ppm
Concentration per Run 1	109.0067 %	108.1757 %	108.0760 %	112.4004 %	99.0459 %	105.0806 %	0.0381 ppm
Concentration per Run 2	106.0418 %	109.3432 %	107.0024 %	108.0348 %	98.2418 %	106.2321 %	0.0406 ppm
Concentration per Run 3	105.9070 %	106.5918 %	107.2383 %	107.2328 %	98.4089 %	104.2844 %	0.0407 ppm
Concentration RSD	1.6 %	1.3 %	0.5 %	2.5 %	0.4 %	0.9 %	3.7 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: WG2037871-5d4 WG2037871
Analysis started at: 3/12/2025 7:13:30 PM
Rack: 2
Vial: 9

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0319 ppm	37.9802 ppm	0.1755 ppm	0.8547 ppm	2.0023 ppm	0.0504 ppm	26.0476 ppm
Concentration per Run 1	0.0320 ppm	36.8710 ppm	0.1744 ppm	0.8449 ppm	1.9673 ppm	0.0490 ppm	25.4504 ppm
Concentration per Run 2	0.0303 ppm	38.3839 ppm	0.1756 ppm	0.8601 ppm	2.0157 ppm	0.0508 ppm	26.2265 ppm
Concentration per Run 3	0.0335 ppm	38.6856 ppm	0.1766 ppm	0.8593 ppm	2.0239 ppm	0.0512 ppm	26.4659 ppm
Concentration RSD	5.0 %	2.6 %	0.6 %	1.0 %	1.5 %	2.3 %	2.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0498 ppm	0.4861 ppm	0.2585 ppm	0.3215 ppm	162.7586 ppm	13.9999 ppm	18.3745 ppm
Concentration per Run 1	0.0489 ppm	0.4777 ppm	0.2611 ppm	0.3221 ppm	159.6659 ppm	13.6020 ppm	18.5538 ppm
Concentration per Run 2	0.0503 ppm	0.4897 ppm	0.2394 ppm	0.3035 ppm	162.0505 ppm	14.1281 ppm	17.0425 ppm
Concentration per Run 3	0.0502 ppm	0.4909 ppm	0.2749 ppm	0.3389 ppm	166.5595 ppm	14.2696 ppm	19.5273 ppm
Concentration RSD	1.5 %	1.5 %	6.9 %	5.5 %	2.2 %	2.5 %	6.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.5800 ppm	0.8505 ppm	16.2613 ppm	0.5124 ppm	0.5871 ppm	0.4495 ppm	0.1132 ppm
Concentration per Run 1	1.5415 ppm	0.8389 ppm	15.7533 ppm	0.5033 ppm	0.5760 ppm	0.4392 ppm	0.1123 ppm
Concentration per Run 2	1.5924 ppm	0.8545 ppm	16.4518 ppm	0.5167 ppm	0.5933 ppm	0.4543 ppm	0.1149 ppm
Concentration per Run 3	1.6061 ppm	0.8580 ppm	16.5787 ppm	0.5174 ppm	0.5921 ppm	0.4550 ppm	0.1124 ppm
Concentration RSD	2.2 %	1.2 %	2.7 %	1.6 %	1.6 %	2.0 %	1.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.2232 ppm	0.9013 ppm	0.9523 ppm	1.2435 ppm	0.1083 ppm	0.5225 ppm	0.7039 ppm
Concentration per Run 1	5.1112 ppm	0.8833 ppm	0.9231 ppm	1.2554 ppm	0.1067 ppm	0.5179 ppm	0.6912 ppm
Concentration per Run 2	5.2804 ppm	0.9106 ppm	0.9629 ppm	1.1548 ppm	0.1093 ppm	0.5211 ppm	0.7086 ppm
Concentration per Run 3	5.2781 ppm	0.9102 ppm	0.9709 ppm	1.3202 ppm	0.1089 ppm	0.5285 ppm	0.7121 ppm
Concentration RSD	1.9 %	1.7 %	2.7 %	6.7 %	1.3 %	1.0 %	1.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	107.5433 %	110.2101 %	107.4893 %	107.8503 %	95.6430 %	105.6415 %	0.0410 ppm
Concentration per Run 1	108.2001 %	109.7972 %	108.6248 %	109.9006 %	97.4388 %	104.5145 %	0.0401 ppm
Concentration per Run 2	107.4674 %	116.3479 %	107.0148 %	107.2935 %	94.7542 %	112.8103 %	0.0413 ppm
Concentration per Run 3	106.9624 %	104.4852 %	106.8284 %	106.3568 %	94.7360 %	99.5995 %	0.0416 ppm
Concentration RSD	0.6 %	5.4 %	0.9 %	1.7 %	1.6 %	6.3 %	1.9 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: WG2037871-6d20 WG2037871
Analysis started at: 3/12/2025 7:19:52 PM
Rack: 2
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	7.1412 ppm	0.0141 ppm	0.0033 ppm	0.0654 ppm	0.0009 ppm	3.5024 ppm
Concentration per Run 1	0.0002 ppm	6.9440 ppm	0.0132 ppm	0.0034 ppm	0.0638 ppm	0.0009 ppm	3.4089 ppm
Concentration per Run 2	0.0000 ppm	7.2080 ppm	0.0143 ppm	0.0032 ppm	0.0664 ppm	0.0009 ppm	3.5475 ppm
Concentration per Run 3	-0.0001 ppm	7.2716 ppm	0.0149 ppm	0.0032 ppm	0.0661 ppm	0.0009 ppm	3.5507 ppm
Concentration RSD	454.3 %	2.4 %	6.1 %	4.0 %	2.2 %	2.5 %	2.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0061 ppm	0.0157 ppm	0.0207 ppm	32.4819 ppm	0.8172 ppm	1.9917 ppm
Concentration per Run 1	0.0001 ppm	0.0062 ppm	0.0155 ppm	0.0207 ppm	31.5882 ppm	0.7988 ppm	1.9822 ppm
Concentration per Run 2	0.0001 ppm	0.0061 ppm	0.0159 ppm	0.0205 ppm	32.8223 ppm	0.8338 ppm	1.9956 ppm
Concentration per Run 3	0.0001 ppm	0.0061 ppm	0.0158 ppm	0.0208 ppm	33.0351 ppm	0.8189 ppm	1.9972 ppm
Concentration RSD	19.3 %	1.3 %	1.3 %	0.8 %	2.4 %	2.2 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.2301 ppm	0.0015 ppm	1.3978 ppm	0.0101 ppm	0.0185 ppm	0.0001 ppm	0.0018 ppm
Concentration per Run 1	0.2240 ppm	0.0015 ppm	1.3508 ppm	0.0099 ppm	0.0181 ppm	-0.0003 ppm	0.0021 ppm
Concentration per Run 2	0.2324 ppm	0.0016 ppm	1.4163 ppm	0.0103 ppm	0.0191 ppm	-0.0001 ppm	0.0023 ppm
Concentration per Run 3	0.2339 ppm	0.0014 ppm	1.4262 ppm	0.0100 ppm	0.0182 ppm	0.0006 ppm	0.0012 ppm
Concentration RSD	2.3 %	5.1 %	2.9 %	2.1 %	2.9 %	881.0 %	31.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.7537 ppm	0.0008 ppm	0.0130 ppm	0.0673 ppm	-0.0002 ppm	0.0188 ppm	0.0466 ppm
Concentration per Run 1	0.7519 ppm	0.0010 ppm	0.0125 ppm	0.0672 ppm	-0.0001 ppm	0.0185 ppm	0.0467 ppm
Concentration per Run 2	0.7552 ppm	0.0006 ppm	0.0132 ppm	0.0671 ppm	-0.0001 ppm	0.0190 ppm	0.0466 ppm
Concentration per Run 3	0.7542 ppm	0.0007 ppm	0.0134 ppm	0.0676 ppm	-0.0004 ppm	0.0188 ppm	0.0466 ppm
Concentration RSD	0.2 %	20.7 %	3.4 %	0.4 %	82.7 %	1.3 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	103.1443 %	106.5134 %	105.4807 %	108.2138 %	104.0603 %	105.6086 %	0.0077 ppm
Concentration per Run 1	105.5277 %	106.5667 %	105.8819 %	110.6991 %	104.0564 %	105.7038 %	0.0080 ppm
Concentration per Run 2	101.3459 %	106.3407 %	105.5768 %	106.9365 %	103.8860 %	105.4303 %	0.0077 ppm
Concentration per Run 3	102.5593 %	106.6327 %	104.9835 %	107.0059 %	104.2384 %	105.6917 %	0.0075 ppm
Concentration RSD	2.1 %	0.1 %	0.4 %	2.0 %	0.2 %	0.1 %	2.8 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: L2512075-07d4 WG2037871
Analysis started at: 3/12/2025 7:26:24 PM
Rack: 2
Vial: 11

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	37.5560 ppm	0.0134 ppm	0.0060 ppm	0.1905 ppm	0.0038 ppm	41.6575 ppm
Concentration per Run 1	0.0001 ppm	36.8644 ppm	0.0137 ppm	0.0061 ppm	0.1889 ppm	0.0038 ppm	40.9637 ppm
Concentration per Run 2	0.0001 ppm	37.7574 ppm	0.0127 ppm	0.0060 ppm	0.1912 ppm	0.0039 ppm	41.8926 ppm
Concentration per Run 3	0.0001 ppm	38.0463 ppm	0.0139 ppm	0.0059 ppm	0.1912 ppm	0.0039 ppm	42.1161 ppm
Concentration RSD	24.0 %	1.6 %	4.8 %	1.9 %	0.7 %	1.6 %	1.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0012 ppm	0.0953 ppm	0.0676 ppm	0.0927 ppm	196.0184 ppm	4.6366 ppm	19.1152 ppm
Concentration per Run 1	0.0013 ppm	0.0947 ppm	0.0675 ppm	0.0929 ppm	190.4768 ppm	4.5294 ppm	19.1313 ppm
Concentration per Run 2	0.0012 ppm	0.0963 ppm	0.0680 ppm	0.0932 ppm	197.0675 ppm	4.6727 ppm	19.1266 ppm
Concentration per Run 3	0.0011 ppm	0.0948 ppm	0.0675 ppm	0.0921 ppm	200.5109 ppm	4.7077 ppm	19.0876 ppm
Concentration RSD	6.0 %	0.9 %	0.4 %	0.6 %	2.6 %	2.0 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	4.2688 ppm	0.0013 ppm	4.5006 ppm	0.1347 ppm	0.1083 ppm	-0.0037 ppm	0.0058 ppm
Concentration per Run 1	4.1953 ppm	0.0015 ppm	4.4119 ppm	0.1342 ppm	0.1074 ppm	-0.0031 ppm	0.0047 ppm
Concentration per Run 2	4.2906 ppm	0.0013 ppm	4.5287 ppm	0.1363 ppm	0.1093 ppm	-0.0044 ppm	0.0058 ppm
Concentration per Run 3	4.3206 ppm	0.0012 ppm	4.5612 ppm	0.1337 ppm	0.1081 ppm	-0.0035 ppm	0.0070 ppm
Concentration RSD	1.5 %	10.5 %	1.7 %	1.0 %	0.9 %	17.5 %	20.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.4068 ppm	0.0033 ppm	0.0807 ppm	0.1534 ppm	-0.0038 ppm	0.0767 ppm	0.3517 ppm
Concentration per Run 1	2.3940 ppm	0.0032 ppm	0.0792 ppm	0.1536 ppm	-0.0034 ppm	0.0765 ppm	0.3492 ppm
Concentration per Run 2	2.4331 ppm	0.0034 ppm	0.0810 ppm	0.1540 ppm	-0.0044 ppm	0.0770 ppm	0.3559 ppm
Concentration per Run 3	2.3932 ppm	0.0032 ppm	0.0820 ppm	0.1526 ppm	-0.0035 ppm	0.0766 ppm	0.3500 ppm
Concentration RSD	0.9 %	2.6 %	1.7 %	0.5 %	13.8 %	0.3 %	1.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	104.8030 %	107.9322 %	105.7263 %	106.6282 %	93.7571 %	103.4473 %	0.0761 ppm
Concentration per Run 1	105.3763 %	108.0290 %	106.1929 %	108.4446 %	94.3476 %	103.4611 %	0.0733 ppm
Concentration per Run 2	104.4135 %	107.9430 %	105.2522 %	106.0292 %	92.8012 %	103.5231 %	0.0772 ppm
Concentration per Run 3	104.6192 %	107.8245 %	105.7339 %	105.4109 %	94.1223 %	103.3577 %	0.0778 ppm
Concentration RSD	0.5 %	0.1 %	0.4 %	1.5 %	0.9 %	0.1 %	3.2 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: L2512075-11d4 WG2037871
Analysis started at: 3/12/2025 7:32:56 PM
Rack: 2
Vial: 12

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	51.4275 ppm	0.0227 ppm	0.0035 ppm	0.6059 ppm	0.0025 ppm	2.4910 ppm
Concentration per Run 1	-0.0004 ppm	50.6951 ppm	0.0220 ppm	0.0033 ppm	0.6017 ppm	0.0025 ppm	2.4400 ppm
Concentration per Run 2	-0.0003 ppm	52.5532 ppm	0.0224 ppm	0.0036 ppm	0.6148 ppm	0.0026 ppm	2.5545 ppm
Concentration per Run 3	0.0001 ppm	51.0342 ppm	0.0237 ppm	0.0035 ppm	0.6013 ppm	0.0025 ppm	2.4785 ppm
Concentration RSD	153.8 %	1.9 %	3.9 %	4.5 %	1.3 %	1.2 %	2.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0004 ppm	0.0551 ppm	0.1052 ppm	0.1301 ppm	119.9405 ppm	2.8733 ppm	22.2557 ppm
Concentration per Run 1	0.0004 ppm	0.0547 ppm	0.1056 ppm	0.1301 ppm	118.2295 ppm	2.8328 ppm	22.3591 ppm
Concentration per Run 2	0.0004 ppm	0.0546 ppm	0.1063 ppm	0.1320 ppm	122.4684 ppm	2.9340 ppm	22.4977 ppm
Concentration per Run 3	0.0003 ppm	0.0560 ppm	0.1036 ppm	0.1281 ppm	119.1237 ppm	2.8530 ppm	21.9103 ppm
Concentration RSD	16.1 %	1.4 %	1.3 %	1.5 %	1.9 %	1.9 %	1.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.0754 ppm	-0.0003 ppm	6.5833 ppm	0.1581 ppm	0.0654 ppm	-0.0025 ppm	0.0038 ppm
Concentration per Run 1	1.0613 ppm	-0.0002 ppm	6.4675 ppm	0.1572 ppm	0.0644 ppm	-0.0036 ppm	0.0031 ppm
Concentration per Run 2	1.0981 ppm	-0.0003 ppm	6.7403 ppm	0.1566 ppm	0.0650 ppm	-0.0017 ppm	0.0054 ppm
Concentration per Run 3	1.0668 ppm	-0.0003 ppm	6.5422 ppm	0.1606 ppm	0.0667 ppm	-0.0021 ppm	0.0029 ppm
Concentration RSD	1.8 %	25.8 %	2.1 %	1.4 %	1.8 %	39.8 %	36.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.8947 ppm	0.0038 ppm	0.0295 ppm	0.5140 ppm	-0.0033 ppm	0.0825 ppm	0.4532 ppm
Concentration per Run 1	1.8782 ppm	0.0038 ppm	0.0290 ppm	0.5166 ppm	-0.0040 ppm	0.0821 ppm	0.4490 ppm
Concentration per Run 2	1.8772 ppm	0.0037 ppm	0.0301 ppm	0.5212 ppm	-0.0029 ppm	0.0816 ppm	0.4492 ppm
Concentration per Run 3	1.9287 ppm	0.0039 ppm	0.0293 ppm	0.5042 ppm	-0.0032 ppm	0.0838 ppm	0.4614 ppm
Concentration RSD	1.6 %	2.1 %	1.9 %	1.7 %	16.8 %	1.5 %	1.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	106.7397 %	108.8875 %	105.9898 %	108.8597 %	96.7899 %	105.6612 %	0.1222 ppm
Concentration per Run 1	107.0986 %	107.9601 %	106.8042 %	110.0076 %	97.2689 %	105.2359 %	0.1212 ppm
Concentration per Run 2	105.7418 %	108.1177 %	106.9314 %	107.0803 %	97.7105 %	104.2969 %	0.1239 ppm
Concentration per Run 3	107.3787 %	110.5848 %	104.2337 %	109.4912 %	95.3901 %	107.4509 %	0.1217 ppm
Concentration RSD	0.8 %	1.4 %	1.4 %	1.4 %	1.3 %	1.5 %	1.2 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: L2512075-12d10 WG2037871
Analysis started at: 3/12/2025 7:39:21 PM
Rack: 2
Vial: 13

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	5.9043 ppm	0.0502 ppm	0.0039 ppm	0.1089 ppm	0.0016 ppm	0.9179 ppm
Concentration per Run 1	0.0002 ppm	5.6842 ppm	0.0512 ppm	0.0038 ppm	0.1061 ppm	0.0016 ppm	0.8932 ppm
Concentration per Run 2	-0.0001 ppm	5.9688 ppm	0.0492 ppm	0.0039 ppm	0.1101 ppm	0.0017 ppm	0.9194 ppm
Concentration per Run 3	0.0003 ppm	6.0601 ppm	0.0503 ppm	0.0041 ppm	0.1105 ppm	0.0016 ppm	0.9410 ppm
Concentration RSD	139.5 %	3.3 %	2.0 %	4.8 %	2.2 %	2.5 %	2.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0006 ppm	0.0074 ppm	0.0243 ppm	0.0379 ppm	115.1140 ppm	2.1750 ppm	1.7015 ppm
Concentration per Run 1	0.0006 ppm	0.0073 ppm	0.0245 ppm	0.0379 ppm	111.3535 ppm	2.0914 ppm	1.7035 ppm
Concentration per Run 2	0.0005 ppm	0.0073 ppm	0.0242 ppm	0.0378 ppm	116.2870 ppm	2.1978 ppm	1.7015 ppm
Concentration per Run 3	0.0006 ppm	0.0075 ppm	0.0241 ppm	0.0379 ppm	117.7016 ppm	2.2356 ppm	1.6995 ppm
Concentration RSD	5.7 %	1.2 %	0.9 %	0.2 %	2.9 %	3.4 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.2631 ppm	0.0004 ppm	1.6419 ppm	0.0097 ppm	0.0548 ppm	-0.0024 ppm	0.0046 ppm
Concentration per Run 1	0.2543 ppm	0.0005 ppm	1.5694 ppm	0.0097 ppm	0.0540 ppm	-0.0020 ppm	0.0052 ppm
Concentration per Run 2	0.2655 ppm	0.0004 ppm	1.6602 ppm	0.0096 ppm	0.0543 ppm	-0.0033 ppm	0.0056 ppm
Concentration per Run 3	0.2693 ppm	0.0004 ppm	1.6961 ppm	0.0099 ppm	0.0561 ppm	-0.0018 ppm	0.0029 ppm
Concentration RSD	3.0 %	16.0 %	4.0 %	1.8 %	2.1 %	35.0 %	32.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.6873 ppm	0.0016 ppm	0.0372 ppm	0.0877 ppm	-0.0002 ppm	0.0373 ppm	0.0878 ppm
Concentration per Run 1	0.6860 ppm	0.0020 ppm	0.0357 ppm	0.0876 ppm	-0.0002 ppm	0.0373 ppm	0.0880 ppm
Concentration per Run 2	0.6790 ppm	0.0011 ppm	0.0376 ppm	0.0877 ppm	-0.0012 ppm	0.0372 ppm	0.0867 ppm
Concentration per Run 3	0.6967 ppm	0.0016 ppm	0.0382 ppm	0.0878 ppm	0.0007 ppm	0.0372 ppm	0.0886 ppm
Concentration RSD	1.3 %	27.6 %	3.6 %	0.1 %	456.4 %	0.1 %	1.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	102.8721 %	105.6931 %	105.2493 %	108.8668 %	102.0246 %	105.3482 %	0.0071 ppm
Concentration per Run 1	104.4681 %	105.9629 %	105.5291 %	111.7790 %	102.0619 %	105.6668 %	0.0072 ppm
Concentration per Run 2	102.1092 %	105.7224 %	105.7014 %	107.9896 %	103.0397 %	105.2788 %	0.0072 ppm
Concentration per Run 3	102.0392 %	105.3941 %	104.5174 %	106.8318 %	100.9722 %	105.0991 %	0.0069 ppm
Concentration RSD	1.3 %	0.3 %	0.6 %	2.4 %	1.0 %	0.3 %	2.6 %

LabBook: WG2039408_03122025T6.imexp

Sample: CCV
Analysis started at: 3/12/2025 7:45:47 PM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4700 ppm	0.4723 ppm	0.4554 ppm	0.4501 ppm	0.4546 ppm	0.4690 ppm	0.4950 ppm
Concentration per Run 1	0.4707 ppm	0.4627 ppm	0.4550 ppm	0.4483 ppm	0.4478 ppm	0.4589 ppm	0.4867 ppm
Concentration per Run 2	0.4704 ppm	0.4725 ppm	0.4534 ppm	0.4495 ppm	0.4579 ppm	0.4724 ppm	0.4982 ppm
Concentration per Run 3	0.4691 ppm	0.4815 ppm	0.4578 ppm	0.4524 ppm	0.4581 ppm	0.4758 ppm	0.5000 ppm
Recovery Percentage 1	94.010 %	94.454 %	91.083 %	90.016 %	90.922 %	93.807 %	98.995 %
Concentration RSD	0.2 %	2.0 %	0.5 %	0.5 %	1.3 %	1.9 %	1.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4554 ppm	0.4557 ppm	0.4730 ppm	0.4516 ppm	0.4849 ppm	4.9459 ppm	0.4821 ppm
Concentration per Run 1	0.4545 ppm	0.4544 ppm	0.4753 ppm	0.4516 ppm	0.4798 ppm	4.8017 ppm	0.4855 ppm
Concentration per Run 2	0.4487 ppm	0.4513 ppm	0.4696 ppm	0.4522 ppm	0.4867 ppm	5.0012 ppm	0.4788 ppm
Concentration per Run 3	0.4630 ppm	0.4615 ppm	0.4742 ppm	0.4509 ppm	0.4882 ppm	5.0349 ppm	0.4819 ppm
Recovery Percentage 1	91.083 %	91.148 %	94.605 %	90.312 %	96.981 %	98.919 %	96.410 %
Concentration RSD	1.6 %	1.2 %	0.6 %	0.1 %	0.9 %	2.5 %	0.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4647 ppm	0.4625 ppm	9.0540 ppm	0.4601 ppm	0.4607 ppm	0.4564 ppm	0.4618 ppm
Concentration per Run 1	0.4559 ppm	0.4597 ppm	8.8166 ppm	0.4593 ppm	0.4591 ppm	0.4543 ppm	0.4598 ppm
Concentration per Run 2	0.4666 ppm	0.4609 ppm	9.1703 ppm	0.4542 ppm	0.4563 ppm	0.4519 ppm	0.4607 ppm
Concentration per Run 3	0.4715 ppm	0.4670 ppm	9.1750 ppm	0.4669 ppm	0.4667 ppm	0.4630 ppm	0.4651 ppm
Recovery Percentage 1	92.932 %	92.499 %	90.540 %	92.029 %	92.137 %	91.281 %	92.366 %
Concentration RSD	1.7 %	0.8 %	2.3 %	1.4 %	1.2 %	1.3 %	0.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.9634 ppm	0.4559 ppm	0.4581 ppm	0.4796 ppm	0.4598 ppm	0.4560 ppm	0.4632 ppm
Concentration per Run 1	4.9383 ppm	0.4544 ppm	0.4470 ppm	0.4812 ppm	0.4586 ppm	0.4555 ppm	0.4622 ppm
Concentration per Run 2	4.9351 ppm	0.4515 ppm	0.4633 ppm	0.4778 ppm	0.4544 ppm	0.4545 ppm	0.4555 ppm
Concentration per Run 3	5.0167 ppm	0.4620 ppm	0.4639 ppm	0.4799 ppm	0.4662 ppm	0.4580 ppm	0.4720 ppm
Recovery Percentage 1	94.540 %	91.189 %	91.613 %	95.927 %	91.951 %	91.203 %	92.646 %
Concentration RSD	0.9 %	1.2 %	2.1 %	0.4 %	1.3 %	0.4 %	1.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.2086 %	104.3620 %	104.2524 %	105.1061 %	101.6176 %	104.8516 %	0.4566 ppm
Concentration per Run 1	99.5820 %	103.9837 %	104.4109 %	106.4582 %	101.8157 %	104.4711 %	0.4428 ppm
Concentration per Run 2	99.9129 %	104.6168 %	104.4522 %	105.4600 %	102.4563 %	105.0724 %	0.4645 ppm
Concentration per Run 3	98.1309 %	104.4855 %	103.8941 %	103.4002 %	100.5807 %	105.0112 %	0.4626 ppm
Recovery Percentage 1							91.323 %
Concentration RSD	1.0 %	0.3 %	0.3 %	1.5 %	0.9 %	0.3 %	2.6 %

LabBook: WG2039408_03122025T6.imexp

Sample: CCB
Analysis started at: 3/12/2025 7:52:06 PM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	-0.0015 ppm	0.0004 ppm	-0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0031 ppm
Concentration per Run 1	-0.0001 ppm	-0.0001 ppm	0.0002 ppm	-0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0032 ppm
Concentration per Run 2	-0.0002 ppm	-0.0023 ppm	0.0007 ppm	-0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0052 ppm
Concentration per Run 3	0.0001 ppm	-0.0023 ppm	0.0003 ppm	-0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0008 ppm
Recovery Percentage 1	-0.727 %	-1.548 %	7.966 %	-1.473 %	0.265 %	-0.035 %	3.082 %
Concentration RSD	339.6 %	81.3 %	65.9 %	10.4 %	165.3 %	887.1 %	70.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0010 ppm	0.0118 ppm	0.0011 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0002 ppm	0.0000 ppm	0.0016 ppm	-0.0083 ppm	-0.0002 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	-0.0002 ppm	-0.0001 ppm	0.0357 ppm	0.0006 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0015 ppm	0.0078 ppm	0.0030 ppm
Recovery Percentage 1	0.085 %	0.076 %	-1.245 %	-1.075 %	1.974 %	0.470 %	1.120 %
Concentration RSD	372.6 %	573.5 %	56.1 %	88.2 %	96.8 %	189.2 %	145.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0001 ppm	0.0003 ppm	-0.0162 ppm	0.0000 ppm	-0.0001 ppm	-0.0005 ppm	0.0004 ppm
Concentration per Run 1	-0.0003 ppm	0.0005 ppm	-0.0176 ppm	0.0001 ppm	0.0000 ppm	0.0005 ppm	0.0008 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	-0.0131 ppm	0.0000 ppm	-0.0001 ppm	-0.0011 ppm	0.0010 ppm
Concentration per Run 3	-0.0001 ppm	0.0002 ppm	-0.0180 ppm	0.0000 ppm	-0.0002 ppm	-0.0010 ppm	-0.0005 ppm
Recovery Percentage 1	-1.285 %	0.693 %	-0.811 %	0.070 %	-0.902 %	-0.972 %	4.311 %
Concentration RSD	133.6 %	48.2 %	16.8 %	305.7 %	114.0 %	184.6 %	187.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0003 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 1	0.0005 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0006 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 2	0.0006 ppm	-0.0002 ppm	0.0000 ppm	0.0006 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 3	0.0002 ppm	0.0004 ppm	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0001 ppm	0.0002 ppm
Recovery Percentage 1	0.086 %	0.253 %	0.150 %	2.368 %	1.661 %	0.805 %	3.313 %
Concentration RSD	39.2 %	229.5 %	213.2 %	148.9 %	90.3 %	52.9 %	14.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.9066 %	105.9918 %	104.6281 %	103.5535 %	106.5195 %	106.1930 %	-0.0003 ppm
Concentration per Run 1	103.9917 %	105.7547 %	105.1888 %	105.2616 %	106.7972 %	105.8991 %	-0.0005 ppm
Concentration per Run 2	99.0191 %	105.9067 %	103.7934 %	101.9569 %	105.5292 %	106.1425 %	-0.0001 ppm
Concentration per Run 3	99.7090 %	106.3141 %	104.9020 %	103.4422 %	107.2321 %	106.5373 %	-0.0002 ppm
Recovery Percentage 1							-2.550 %
Concentration RSD	2.7 %	0.3 %	0.7 %	1.6 %	0.8 %	0.3 %	79.9 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: L2512368-13 WG2039059
Analysis started at: 3/12/2025 8:35:53 PM
Rack: 1
Vial: 42

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0129 ppm	-0.0015 ppm	0.0161 ppm	0.0401 ppm	0.0000 ppm	12.9141 ppm
Concentration per Run 1	-0.0001 ppm	0.0106 ppm	-0.0006 ppm	0.0161 ppm	0.0392 ppm	0.0000 ppm	12.4078 ppm
Concentration per Run 2	-0.0001 ppm	0.0143 ppm	-0.0029 ppm	0.0162 ppm	0.0405 ppm	0.0000 ppm	12.9816 ppm
Concentration per Run 3	0.0000 ppm	0.0137 ppm	-0.0011 ppm	0.0159 ppm	0.0405 ppm	0.0000 ppm	13.3527 ppm
Concentration RSD	148.9 %	15.5 %	80.7 %	1.0 %	1.9 %	133.4 %	3.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0004 ppm	0.0008 ppm	0.0007 ppm	0.0084 ppm	1.8335 ppm	4.4613 ppm
Concentration per Run 1	0.0000 ppm	-0.0004 ppm	0.0009 ppm	0.0006 ppm	0.0072 ppm	1.7448 ppm	4.4705 ppm
Concentration per Run 2	0.0000 ppm	-0.0004 ppm	0.0008 ppm	0.0006 ppm	0.0090 ppm	1.8497 ppm	4.4603 ppm
Concentration per Run 3	0.0000 ppm	-0.0004 ppm	0.0006 ppm	0.0008 ppm	0.0089 ppm	1.9061 ppm	4.4532 ppm
Concentration RSD	109.2 %	7.9 %	18.8 %	14.5 %	11.9 %	4.5 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0044 ppm	-0.0003 ppm	10.4138 ppm	0.0000 ppm	-0.0030 ppm	-0.0004 ppm	0.0007 ppm
Concentration per Run 1	0.0040 ppm	-0.0003 ppm	9.9868 ppm	0.0001 ppm	-0.0029 ppm	-0.0001 ppm	-0.0009 ppm
Concentration per Run 2	0.0046 ppm	-0.0004 ppm	10.5033 ppm	-0.0001 ppm	-0.0031 ppm	-0.0011 ppm	0.0011 ppm
Concentration per Run 3	0.0045 ppm	-0.0003 ppm	10.7514 ppm	0.0001 ppm	-0.0031 ppm	0.0001 ppm	0.0018 ppm
Concentration RSD	7.2 %	15.4 %	3.7 %	995.3 %	3.5 %	183.7 %	214.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	6.2248 ppm	0.0003 ppm	0.0650 ppm	0.0004 ppm	-0.0010 ppm	0.0001 ppm	0.0124 ppm
Concentration per Run 1	6.2311 ppm	0.0003 ppm	0.0623 ppm	0.0003 ppm	-0.0014 ppm	0.0000 ppm	0.0123 ppm
Concentration per Run 2	6.2165 ppm	0.0000 ppm	0.0654 ppm	0.0007 ppm	-0.0001 ppm	0.0002 ppm	0.0123 ppm
Concentration per Run 3	6.2268 ppm	0.0006 ppm	0.0673 ppm	0.0003 ppm	-0.0015 ppm	0.0003 ppm	0.0125 ppm
Concentration RSD	0.1 %	99.9 %	3.9 %	58.3 %	76.3 %	88.4 %	0.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.7961 %	102.2497 %	101.4574 %	115.8680 %	102.7623 %	106.7537 %	-0.0004 ppm
Concentration per Run 1	102.7670 %	102.0016 %	101.2151 %	120.2720 %	102.9516 %	106.8029 %	-0.0001 ppm
Concentration per Run 2	100.2891 %	102.3805 %	101.5458 %	115.4487 %	102.9822 %	106.7840 %	-0.0011 ppm
Concentration per Run 3	99.3324 %	102.3671 %	101.6114 %	111.8833 %	102.3532 %	106.6740 %	-0.0001 ppm
Concentration RSD	1.8 %	0.2 %	0.2 %	3.6 %	0.3 %	0.1 %	150.4 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: L2512368-14 WG2039059
Analysis started at: 3/12/2025 8:42:26 PM
Rack: 1
Vial: 43

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0491 ppm	-0.0016 ppm	0.0106 ppm	0.0015 ppm	0.0000 ppm	31.9265 ppm
Concentration per Run 1	0.0001 ppm	0.0488 ppm	-0.0006 ppm	0.0106 ppm	0.0014 ppm	0.0000 ppm	31.8209 ppm
Concentration per Run 2	0.0001 ppm	0.0548 ppm	-0.0037 ppm	0.0107 ppm	0.0015 ppm	0.0000 ppm	32.1188 ppm
Concentration per Run 3	-0.0002 ppm	0.0438 ppm	-0.0005 ppm	0.0107 ppm	0.0015 ppm	0.0000 ppm	31.8396 ppm
Concentration RSD	973.8 %	11.2 %	113.0 %	0.5 %	2.6 %	619.7 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0009 ppm	0.0068 ppm	0.0005 ppm	0.1821 ppm	1.6527 ppm	3.8889 ppm
Concentration per Run 1	0.0001 ppm	-0.0009 ppm	0.0066 ppm	0.0006 ppm	0.1816 ppm	1.6411 ppm	3.8979 ppm
Concentration per Run 2	0.0001 ppm	-0.0010 ppm	0.0069 ppm	0.0005 ppm	0.1826 ppm	1.6531 ppm	3.8867 ppm
Concentration per Run 3	0.0001 ppm	-0.0009 ppm	0.0069 ppm	0.0004 ppm	0.1821 ppm	1.6640 ppm	3.8822 ppm
Concentration RSD	18.9 %	5.7 %	2.4 %	27.2 %	0.3 %	0.7 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0623 ppm	-0.0001 ppm	7.8311 ppm	0.0029 ppm	-0.0097 ppm	-0.0003 ppm	-0.0009 ppm
Concentration per Run 1	0.0622 ppm	-0.0002 ppm	7.7493 ppm	0.0029 ppm	-0.0093 ppm	-0.0007 ppm	-0.0017 ppm
Concentration per Run 2	0.0623 ppm	-0.0001 ppm	7.8791 ppm	0.0028 ppm	-0.0097 ppm	0.0003 ppm	-0.0005 ppm
Concentration per Run 3	0.0625 ppm	-0.0001 ppm	7.8648 ppm	0.0030 ppm	-0.0101 ppm	-0.0005 ppm	-0.0006 ppm
Concentration RSD	0.3 %	61.0 %	0.9 %	3.1 %	4.0 %	186.1 %	67.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	20.5304 [SIC 200]	0.0002 ppm	0.1526 ppm	0.0031 ppm	-0.0005 ppm	0.0004 ppm	0.0139 ppm
Concentration per Run 1	20.5027 ppm	0.0004 ppm	0.1518 ppm	0.0034 ppm	-0.0011 ppm	0.0002 ppm	0.0140 ppm
Concentration per Run 2	20.4923 ppm	0.0001 ppm	0.1535 ppm	0.0029 ppm	-0.0007 ppm	0.0005 ppm	0.0138 ppm
Concentration per Run 3	20.5961 ppm	0.0002 ppm	0.1526 ppm	0.0032 ppm	0.0002 ppm	0.0003 ppm	0.0138 ppm
Concentration RSD	0.3 %	63.3 %	0.5 %	8.3 %	123.8 %	44.2 %	0.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.1685 %	102.8385 %	102.4707 %	102.4707 %	100.7441 %	103.7378 %	0.0027 ppm
Concentration per Run 1	102.8611 %	102.7186 %	102.9360 %	102.5745 %	100.6756 %	103.5469 %	0.0032 ppm
Concentration per Run 2	100.2887 %	102.9310 %	102.4031 %	102.1279 %	101.0964 %	103.8351 %	0.0028 ppm
Concentration per Run 3	100.3558 %	102.8659 %	102.0731 %	102.7097 %	100.4605 %	103.8314 %	0.0022 ppm
Concentration RSD	1.4 %	0.1 %	0.4 %	0.3 %	0.3 %	0.2 %	18.7 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: L2512368-16 WG2039059
Analysis started at: 3/12/2025 8:49:01 PM
Rack: 1
Vial: 44

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0082 ppm	-0.0015 ppm	0.0136 ppm	0.0405 ppm	0.0000 ppm	20.5336 ppm
Concentration per Run 1	0.0000 ppm	0.0127 ppm	-0.0015 ppm	0.0135 ppm	0.0393 ppm	0.0000 ppm	20.3326 ppm
Concentration per Run 2	0.0002 ppm	0.0083 ppm	-0.0021 ppm	0.0134 ppm	0.0408 ppm	0.0000 ppm	20.3547 ppm
Concentration per Run 3	0.0001 ppm	0.0035 ppm	-0.0009 ppm	0.0139 ppm	0.0415 ppm	0.0000 ppm	20.9137 ppm
Concentration RSD	133.4 %	56.0 %	42.7 %	2.2 %	2.8 %	78.6 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0004 ppm	0.0006 ppm	0.0003 ppm	0.0035 ppm	1.9946 ppm	6.0085 ppm
Concentration per Run 1	0.0000 ppm	-0.0004 ppm	0.0003 ppm	0.0003 ppm	0.0028 ppm	1.9609 ppm	6.0109 ppm
Concentration per Run 2	0.0000 ppm	-0.0005 ppm	0.0008 ppm	0.0002 ppm	0.0045 ppm	1.9988 ppm	6.0035 ppm
Concentration per Run 3	0.0000 ppm	-0.0004 ppm	0.0008 ppm	0.0004 ppm	0.0032 ppm	2.0242 ppm	6.0111 ppm
Concentration RSD	164.0 %	19.1 %	41.9 %	33.6 %	25.3 %	1.6 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0047 ppm	-0.0003 ppm	10.4871 ppm	0.0001 ppm	-0.0038 ppm	-0.0007 ppm	-0.0011 ppm
Concentration per Run 1	0.0044 ppm	-0.0006 ppm	10.3147 ppm	0.0002 ppm	-0.0037 ppm	-0.0017 ppm	-0.0010 ppm
Concentration per Run 2	0.0050 ppm	-0.0003 ppm	10.4664 ppm	0.0002 ppm	-0.0042 ppm	-0.0004 ppm	0.0004 ppm
Concentration per Run 3	0.0049 ppm	-0.0002 ppm	10.6802 ppm	0.0000 ppm	-0.0036 ppm	0.0001 ppm	-0.0027 ppm
Concentration RSD	7.0 %	57.5 %	1.8 %	64.5 %	7.5 %	141.6 %	140.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	7.4040 ppm	0.0007 ppm	0.0909 ppm	0.0003 ppm	-0.0011 ppm	0.0002 ppm	0.0125 ppm
Concentration per Run 1	7.3865 ppm	0.0012 ppm	0.0896 ppm	0.0004 ppm	-0.0006 ppm	0.0003 ppm	0.0124 ppm
Concentration per Run 2	7.4402 ppm	0.0006 ppm	0.0906 ppm	0.0002 ppm	-0.0016 ppm	0.0002 ppm	0.0125 ppm
Concentration per Run 3	7.3852 ppm	0.0003 ppm	0.0925 ppm	0.0004 ppm	-0.0010 ppm	0.0001 ppm	0.0125 ppm
Concentration RSD	0.4 %	66.1 %	1.7 %	45.2 %	51.0 %	50.6 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.2237 %	102.7456 %	101.9821 %	101.8784 %	100.9668 %	103.6144 %	0.0001 ppm
Concentration per Run 1	103.3297 %	102.9173 %	102.3044 %	102.4869 %	101.5161 %	103.7755 %	-0.0002 ppm
Concentration per Run 2	101.3228 %	102.8984 %	102.2266 %	102.9010 %	100.4668 %	103.7474 %	0.0006 ppm
Concentration per Run 3	99.0187 %	102.4212 %	101.4152 %	100.2472 %	100.9176 %	103.3203 %	-0.0001 ppm
Concentration RSD	2.1 %	0.3 %	0.5 %	1.4 %	0.5 %	0.2 %	437.9 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: L2512368-17 WG2039059
Analysis started at: 3/12/2025 8:55:35 PM
Rack: 1
Vial: 45

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0020 ppm	-0.0014 ppm	0.0117 ppm	0.0231 ppm	0.0001 ppm	14.5303 ppm
Concentration per Run 1	0.0000 ppm	-0.0005 ppm	-0.0017 ppm	0.0116 ppm	0.0224 ppm	0.0001 ppm	14.3760 ppm
Concentration per Run 2	-0.0002 ppm	0.0050 ppm	-0.0010 ppm	0.0120 ppm	0.0234 ppm	0.0000 ppm	14.4922 ppm
Concentration per Run 3	0.0000 ppm	0.0014 ppm	-0.0015 ppm	0.0114 ppm	0.0235 ppm	0.0000 ppm	14.7227 ppm
Concentration RSD	342.2 %	143.0 %	27.1 %	2.3 %	2.7 %	39.1 %	1.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0029 ppm	0.0013 ppm	0.0004 ppm	0.3405 ppm	1.2358 ppm	6.1818 ppm
Concentration per Run 1	0.0001 ppm	0.0029 ppm	0.0013 ppm	0.0002 ppm	0.3348 ppm	1.2086 ppm	6.1901 ppm
Concentration per Run 2	0.0001 ppm	0.0029 ppm	0.0013 ppm	0.0005 ppm	0.3420 ppm	1.2451 ppm	6.1867 ppm
Concentration per Run 3	0.0001 ppm	0.0030 ppm	0.0014 ppm	0.0005 ppm	0.3447 ppm	1.2538 ppm	6.1685 ppm
Concentration RSD	5.8 %	2.9 %	6.5 %	41.4 %	1.5 %	1.9 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0245 ppm	-0.0004 ppm	14.1655 ppm	0.0049 ppm	-0.0052 ppm	-0.0003 ppm	-0.0002 ppm
Concentration per Run 1	0.0242 ppm	-0.0005 ppm	13.9495 ppm	0.0050 ppm	-0.0052 ppm	-0.0006 ppm	0.0000 ppm
Concentration per Run 2	0.0247 ppm	-0.0004 ppm	14.1521 ppm	0.0049 ppm	-0.0049 ppm	-0.0002 ppm	-0.0004 ppm
Concentration per Run 3	0.0248 ppm	-0.0003 ppm	14.3950 ppm	0.0047 ppm	-0.0055 ppm	0.0000 ppm	-0.0001 ppm
Concentration RSD	1.3 %	24.8 %	1.6 %	3.3 %	6.2 %	122.5 %	115.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	9.8654 ppm	0.0003 ppm	0.0739 ppm	0.0004 ppm	-0.0006 ppm	0.0001 ppm	0.0257 ppm
Concentration per Run 1	9.8637 ppm	0.0001 ppm	0.0727 ppm	0.0005 ppm	-0.0003 ppm	0.0000 ppm	0.0257 ppm
Concentration per Run 2	9.8602 ppm	0.0001 ppm	0.0740 ppm	0.0002 ppm	-0.0012 ppm	0.0001 ppm	0.0256 ppm
Concentration per Run 3	9.8723 ppm	0.0007 ppm	0.0749 ppm	0.0004 ppm	-0.0002 ppm	0.0002 ppm	0.0259 ppm
Concentration RSD	0.1 %	95.4 %	1.5 %	40.1 %	99.3 %	58.2 %	0.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.3271 %	103.2289 %	102.5356 %	102.3442 %	101.7602 %	104.7617 %	0.0025 ppm
Concentration per Run 1	102.7555 %	103.0036 %	102.2192 %	103.3808 %	102.0090 %	104.4225 %	0.0029 ppm
Concentration per Run 2	100.1091 %	103.0990 %	102.4792 %	102.8901 %	101.8049 %	104.7086 %	0.0027 ppm
Concentration per Run 3	98.1165 %	103.5842 %	102.9084 %	100.7617 %	101.4668 %	105.1540 %	0.0018 ppm
Concentration RSD	2.3 %	0.3 %	0.3 %	1.4 %	0.3 %	0.4 %	23.8 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: L2512368-19 WG2039059
Analysis started at: 3/12/2025 9:02:10 PM
Rack: 1
Vial: 46

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0074 ppm	-0.0005 ppm	0.0138 ppm	0.0410 ppm	0.0000 ppm	20.8918 ppm
Concentration per Run 1	0.0001 ppm	0.0117 ppm	-0.0004 ppm	0.0138 ppm	0.0403 ppm	0.0000 ppm	20.8542 ppm
Concentration per Run 2	-0.0001 ppm	0.0109 ppm	0.0006 ppm	0.0136 ppm	0.0414 ppm	0.0000 ppm	20.9429 ppm
Concentration per Run 3	0.0003 ppm	-0.0003 ppm	-0.0015 ppm	0.0139 ppm	0.0414 ppm	0.0000 ppm	20.8782 ppm
Concentration RSD	348.4 %	90.0 %	232.9 %	1.1 %	1.5 %	114.6 %	0.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0005 ppm	0.0007 ppm	0.0003 ppm	0.0035 ppm	2.0301 ppm	6.1118 ppm
Concentration per Run 1	0.0000 ppm	-0.0005 ppm	0.0006 ppm	0.0004 ppm	0.0042 ppm	2.0207 ppm	6.0926 ppm
Concentration per Run 2	0.0000 ppm	-0.0006 ppm	0.0008 ppm	0.0002 ppm	0.0042 ppm	2.0320 ppm	6.1166 ppm
Concentration per Run 3	0.0000 ppm	-0.0004 ppm	0.0006 ppm	0.0004 ppm	0.0022 ppm	2.0376 ppm	6.1263 ppm
Concentration RSD	6.0 %	24.2 %	15.6 %	35.8 %	32.8 %	0.4 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0029 ppm	-0.0005 ppm	10.6556 ppm	0.0001 ppm	-0.0039 ppm	-0.0003 ppm	-0.0021 ppm
Concentration per Run 1	0.0030 ppm	-0.0006 ppm	10.5721 ppm	-0.0003 ppm	-0.0040 ppm	-0.0006 ppm	-0.0028 ppm
Concentration per Run 2	0.0028 ppm	-0.0003 ppm	10.7102 ppm	0.0004 ppm	-0.0036 ppm	0.0000 ppm	-0.0031 ppm
Concentration per Run 3	0.0031 ppm	-0.0005 ppm	10.6844 ppm	0.0001 ppm	-0.0041 ppm	-0.0003 ppm	-0.0004 ppm
Concentration RSD	5.7 %	32.9 %	0.7 %	527.5 %	6.5 %	90.4 %	69.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	7.5192 ppm	0.0004 ppm	0.0923 ppm	0.0004 ppm	-0.0006 ppm	0.0001 ppm	0.0129 ppm
Concentration per Run 1	7.4942 ppm	0.0003 ppm	0.0920 ppm	0.0005 ppm	-0.0009 ppm	0.0002 ppm	0.0129 ppm
Concentration per Run 2	7.4970 ppm	0.0003 ppm	0.0929 ppm	0.0003 ppm	0.0000 ppm	0.0002 ppm	0.0130 ppm
Concentration per Run 3	7.5665 ppm	0.0004 ppm	0.0921 ppm	0.0003 ppm	-0.0008 ppm	0.0000 ppm	0.0129 ppm
Concentration RSD	0.5 %	22.9 %	0.5 %	26.9 %	92.9 %	100.1 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.2225 %	103.2014 %	102.5529 %	102.3316 %	101.3335 %	103.9444 %	0.0007 ppm
Concentration per Run 1	103.1592 %	103.2218 %	103.2842 %	102.7041 %	101.5855 %	103.9388 %	0.0012 ppm
Concentration per Run 2	100.5556 %	103.1401 %	102.3605 %	102.3369 %	101.5472 %	103.8676 %	0.0011 ppm
Concentration per Run 3	99.9527 %	103.2422 %	102.0140 %	101.9539 %	100.8678 %	104.0267 %	-0.0004 ppm
Concentration RSD	1.7 %	0.1 %	0.6 %	0.4 %	0.4 %	0.1 %	134.7 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: L2512607-01 WG2039059
Analysis started at: 3/12/2025 9:08:46 PM
Rack: 1
Vial: 47

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0075 ppm	-0.0018 ppm	0.0401 ppm	0.0486 ppm	0.0000 ppm	15.4183 ppm
Concentration per Run 1	0.0001 ppm	0.0107 ppm	-0.0023 ppm	0.0400 ppm	0.0474 ppm	0.0000 ppm	15.4023 ppm
Concentration per Run 2	0.0000 ppm	0.0056 ppm	-0.0017 ppm	0.0401 ppm	0.0491 ppm	0.0000 ppm	15.3835 ppm
Concentration per Run 3	0.0001 ppm	0.0063 ppm	-0.0013 ppm	0.0403 ppm	0.0493 ppm	0.0000 ppm	15.4692 ppm
Concentration RSD	130.1 %	36.8 %	29.9 %	0.3 %	2.2 %	1,661.5 %	0.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0003 ppm	0.0004 ppm	0.0086 ppm	1.7260 ppm	4.8788 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	0.0003 ppm	0.0005 ppm	0.0089 ppm	1.7363 ppm	4.8744 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0004 ppm	0.0084 ppm	1.7412 ppm	4.8856 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	0.0003 ppm	0.0004 ppm	0.0085 ppm	1.7006 ppm	4.8763 ppm
Concentration RSD	137.5 %	45.5 %	0.7 %	11.8 %	3.0 %	1.3 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0042 ppm	-0.0004 ppm	55.9326 ppm	0.0001 ppm	-0.0017 ppm	-0.0006 ppm	0.0004 ppm
Concentration per Run 1	0.0040 ppm	-0.0004 ppm	55.6976 ppm	0.0002 ppm	-0.0017 ppm	-0.0005 ppm	0.0007 ppm
Concentration per Run 2	0.0046 ppm	-0.0003 ppm	56.2505 ppm	0.0000 ppm	-0.0017 ppm	-0.0011 ppm	0.0009 ppm
Concentration per Run 3	0.0040 ppm	-0.0004 ppm	55.8497 ppm	0.0000 ppm	-0.0018 ppm	-0.0003 ppm	-0.0005 ppm
Concentration RSD	8.0 %	18.3 %	0.5 %	187.0 %	4.2 %	67.3 %	209.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.2567 ppm	0.0002 ppm	0.0641 ppm	0.0004 ppm	-0.0004 ppm	0.0002 ppm	0.0006 ppm
Concentration per Run 1	3.2701 ppm	0.0000 ppm	0.0639 ppm	0.0003 ppm	-0.0006 ppm	0.0002 ppm	0.0006 ppm
Concentration per Run 2	3.2721 ppm	0.0005 ppm	0.0643 ppm	0.0005 ppm	-0.0004 ppm	0.0003 ppm	0.0007 ppm
Concentration per Run 3	3.2280 ppm	0.0001 ppm	0.0641 ppm	0.0005 ppm	-0.0001 ppm	0.0001 ppm	0.0005 ppm
Concentration RSD	0.8 %	120.9 %	0.3 %	20.2 %	72.4 %	33.7 %	17.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.7310 %	102.7501 %	102.4037 %	102.4906 %	100.4146 %	103.4608 %	-0.0003 ppm
Concentration per Run 1	102.7385 %	103.0938 %	102.9463 %	102.4581 %	100.3210 %	103.6550 %	-0.0005 ppm
Concentration per Run 2	100.4181 %	102.5647 %	101.9176 %	102.8055 %	99.9262 %	103.3592 %	-0.0001 ppm
Concentration per Run 3	99.0363 %	102.5918 %	102.3473 %	102.2083 %	100.9965 %	103.3682 %	-0.0002 ppm
Concentration RSD	1.9 %	0.3 %	0.5 %	0.3 %	0.5 %	0.2 %	80.7 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: L2512607-02 WG2039059
Analysis started at: 3/12/2025 9:15:21 PM
Rack: 1
Vial: 48

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0015 ppm	0.0298 ppm	-0.0013 ppm	0.0063 ppm	0.0122 ppm	0.0000 ppm	10.3237 ppm
Concentration per Run 1	0.0015 ppm	0.0296 ppm	-0.0012 ppm	0.0062 ppm	0.0117 ppm	0.0000 ppm	10.2247 ppm
Concentration per Run 2	0.0017 ppm	0.0308 ppm	-0.0010 ppm	0.0066 ppm	0.0125 ppm	0.0000 ppm	10.4164 ppm
Concentration per Run 3	0.0014 ppm	0.0290 ppm	-0.0019 ppm	0.0062 ppm	0.0123 ppm	0.0001 ppm	10.3301 ppm
Concentration RSD	11.1 %	3.0 %	33.6 %	3.4 %	3.3 %	218.8 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0002 ppm	-0.0002 ppm	0.0055 ppm	0.0017 ppm	0.0570 ppm	0.8542 ppm	4.4269 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	0.0056 ppm	0.0018 ppm	0.0541 ppm	0.8509 ppm	4.4680 ppm
Concentration per Run 2	0.0002 ppm	-0.0002 ppm	0.0053 ppm	0.0017 ppm	0.0586 ppm	0.8829 ppm	4.3964 ppm
Concentration per Run 3	0.0002 ppm	-0.0002 ppm	0.0056 ppm	0.0016 ppm	0.0585 ppm	0.8289 ppm	4.4162 ppm
Concentration RSD	9.0 %	13.8 %	3.7 %	5.6 %	4.5 %	3.2 %	0.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0019 ppm	0.0002 ppm	6.4076 ppm	0.0022 ppm	-0.0041 ppm	0.0001 ppm	-0.0010 ppm
Concentration per Run 1	0.0017 ppm	0.0001 ppm	6.3785 ppm	0.0022 ppm	-0.0045 ppm	0.0000 ppm	-0.0023 ppm
Concentration per Run 2	0.0019 ppm	0.0001 ppm	6.4484 ppm	0.0023 ppm	-0.0039 ppm	0.0011 ppm	-0.0011 ppm
Concentration per Run 3	0.0020 ppm	0.0002 ppm	6.3959 ppm	0.0021 ppm	-0.0038 ppm	-0.0009 ppm	0.0005 ppm
Concentration RSD	8.3 %	25.9 %	0.6 %	3.7 %	9.2 %	1,347.9 %	147.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	8.9361 ppm	0.0003 ppm	0.0518 ppm	0.0018 ppm	-0.0006 ppm	0.0002 ppm	0.0074 ppm
Concentration per Run 1	8.9319 ppm	0.0003 ppm	0.0515 ppm	0.0019 ppm	-0.0009 ppm	0.0001 ppm	0.0074 ppm
Concentration per Run 2	8.9263 ppm	0.0002 ppm	0.0520 ppm	0.0017 ppm	-0.0003 ppm	0.0002 ppm	0.0073 ppm
Concentration per Run 3	8.9502 ppm	0.0005 ppm	0.0518 ppm	0.0019 ppm	-0.0008 ppm	0.0003 ppm	0.0073 ppm
Concentration RSD	0.1 %	34.2 %	0.5 %	6.9 %	50.6 %	64.5 %	0.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.7414 %	104.4248 %	103.4738 %	103.5811 %	103.3480 %	105.4342 %	0.0016 ppm
Concentration per Run 1	104.6262 %	104.3088 %	103.3999 %	104.4206 %	103.4135 %	104.4463 %	0.0014 ppm
Concentration per Run 2	100.0564 %	104.5706 %	103.4045 %	102.9608 %	103.5262 %	105.8624 %	0.0015 ppm
Concentration per Run 3	100.5417 %	104.3949 %	103.6170 %	103.3620 %	103.1043 %	105.9938 %	0.0020 ppm
Concentration RSD	2.5 %	0.1 %	0.1 %	0.7 %	0.2 %	0.8 %	18.6 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: L2512607-03 WG2039059
Analysis started at: 3/12/2025 9:21:57 PM
Rack: 1
Vial: 49

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0301 ppm	-0.0008 ppm	0.0168 ppm	0.0580 ppm	0.0000 ppm	5.8430 ppm
Concentration per Run 1	-0.0003 ppm	0.0342 ppm	-0.0009 ppm	0.0169 ppm	0.0566 ppm	0.0000 ppm	5.8026 ppm
Concentration per Run 2	-0.0001 ppm	0.0249 ppm	-0.0008 ppm	0.0166 ppm	0.0585 ppm	0.0000 ppm	5.8712 ppm
Concentration per Run 3	0.0001 ppm	0.0312 ppm	-0.0008 ppm	0.0169 ppm	0.0587 ppm	0.0001 ppm	5.8552 ppm
Concentration RSD	190.4 %	15.7 %	8.0 %	1.0 %	2.0 %	119.3 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0002 ppm	0.0012 ppm	0.0006 ppm	0.0603 ppm	1.2515 ppm	2.0324 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	0.0010 ppm	0.0006 ppm	0.0586 ppm	1.2539 ppm	2.0097 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	0.0015 ppm	0.0005 ppm	0.0615 ppm	1.2461 ppm	2.0290 ppm
Concentration per Run 3	0.0001 ppm	-0.0003 ppm	0.0010 ppm	0.0007 ppm	0.0608 ppm	1.2545 ppm	2.0583 ppm
Concentration RSD	44.1 %	63.4 %	22.1 %	12.4 %	2.6 %	0.4 %	1.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0206 ppm	-0.0003 ppm	73.3367 ppm	0.0006 ppm	-0.0023 ppm	-0.0008 ppm	0.0018 ppm
Concentration per Run 1	0.0204 ppm	-0.0002 ppm	72.8266 ppm	0.0004 ppm	-0.0024 ppm	-0.0007 ppm	0.0013 ppm
Concentration per Run 2	0.0208 ppm	-0.0003 ppm	73.3232 ppm	0.0008 ppm	-0.0023 ppm	-0.0007 ppm	0.0016 ppm
Concentration per Run 3	0.0207 ppm	-0.0003 ppm	73.8602 ppm	0.0006 ppm	-0.0022 ppm	-0.0009 ppm	0.0024 ppm
Concentration RSD	1.1 %	21.7 %	0.7 %	33.7 %	5.5 %	13.9 %	33.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.4971 ppm	0.0136 ppm	0.0301 ppm	0.0021 ppm	-0.0001 ppm	0.0002 ppm	0.0025 ppm
Concentration per Run 1	4.5073 ppm	0.0136 ppm	0.0297 ppm	0.0021 ppm	0.0008 ppm	0.0003 ppm	0.0025 ppm
Concentration per Run 2	4.4535 ppm	0.0130 ppm	0.0302 ppm	0.0022 ppm	-0.0011 ppm	0.0002 ppm	0.0024 ppm
Concentration per Run 3	4.5304 ppm	0.0141 ppm	0.0303 ppm	0.0019 ppm	-0.0001 ppm	0.0002 ppm	0.0025 ppm
Concentration RSD	0.9 %	3.8 %	1.0 %	6.2 %	746.2 %	23.2 %	2.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.3123 %	100.8841 %	101.6833 %	103.7811 %	99.3470 %	101.3685 %	-0.0001 ppm
Concentration per Run 1	102.5206 %	101.0040 %	101.9389 %	104.4912 %	99.3957 %	102.0777 %	-0.0002 ppm
Concentration per Run 2	99.0796 %	100.5875 %	102.6071 %	103.3187 %	100.2952 %	101.2351 %	0.0001 ppm
Concentration per Run 3	99.3366 %	101.0607 %	100.5039 %	103.5334 %	98.3500 %	100.7926 %	-0.0001 ppm
Concentration RSD	1.9 %	0.3 %	1.1 %	0.6 %	1.0 %	0.6 %	252.2 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: L2512607-04 WG2039059
Analysis started at: 3/12/2025 9:28:33 PM
Rack: 1
Vial: 50

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0012 ppm	0.0124 ppm	-0.0021 ppm	0.0123 ppm	0.0344 ppm	0.0000 ppm	13.6478 ppm
Concentration per Run 1	0.0012 ppm	0.0130 ppm	-0.0026 ppm	0.0122 ppm	0.0335 ppm	0.0000 ppm	13.5676 ppm
Concentration per Run 2	0.0012 ppm	0.0124 ppm	-0.0014 ppm	0.0123 ppm	0.0346 ppm	0.0001 ppm	13.6747 ppm
Concentration per Run 3	0.0011 ppm	0.0117 ppm	-0.0023 ppm	0.0126 ppm	0.0350 ppm	0.0000 ppm	13.7012 ppm
Concentration RSD	6.7 %	5.5 %	29.9 %	1.9 %	2.2 %	171.3 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0002 ppm	0.0044 ppm	0.0017 ppm	0.0163 ppm	1.1170 ppm	5.3918 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	0.0042 ppm	0.0016 ppm	0.0157 ppm	1.0993 ppm	5.3919 ppm
Concentration per Run 2	0.0001 ppm	-0.0003 ppm	0.0044 ppm	0.0018 ppm	0.0162 ppm	1.1392 ppm	5.4069 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	0.0047 ppm	0.0018 ppm	0.0168 ppm	1.1124 ppm	5.3764 ppm
Concentration RSD	24.2 %	34.0 %	5.8 %	5.9 %	3.3 %	1.8 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0012 ppm	-0.0002 ppm	13.2700 ppm	0.0037 ppm	-0.0048 ppm	-0.0002 ppm	-0.0002 ppm
Concentration per Run 1	0.0013 ppm	-0.0003 ppm	13.1618 ppm	0.0037 ppm	-0.0044 ppm	0.0002 ppm	0.0005 ppm
Concentration per Run 2	0.0015 ppm	-0.0002 ppm	13.3559 ppm	0.0037 ppm	-0.0054 ppm	-0.0009 ppm	-0.0012 ppm
Concentration per Run 3	0.0009 ppm	-0.0002 ppm	13.2922 ppm	0.0036 ppm	-0.0045 ppm	0.0002 ppm	0.0001 ppm
Concentration RSD	24.9 %	18.9 %	0.7 %	1.8 %	11.3 %	331.2 %	435.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	9.1250 ppm	0.0015 ppm	0.0774 ppm	0.0006 ppm	-0.0003 ppm	0.0003 ppm	0.0115 ppm
Concentration per Run 1	9.1063 ppm	0.0012 ppm	0.0765 ppm	0.0005 ppm	-0.0006 ppm	0.0005 ppm	0.0116 ppm
Concentration per Run 2	9.1170 ppm	0.0016 ppm	0.0780 ppm	0.0008 ppm	0.0005 ppm	0.0003 ppm	0.0115 ppm
Concentration per Run 3	9.1516 ppm	0.0017 ppm	0.0777 ppm	0.0004 ppm	-0.0007 ppm	0.0003 ppm	0.0115 ppm
Concentration RSD	0.3 %	18.4 %	1.0 %	32.1 %	260.2 %	31.7 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.3486 %	103.1591 %	102.6134 %	102.7284 %	102.1034 %	104.4303 %	0.0020 ppm
Concentration per Run 1	102.9176 %	103.2970 %	102.6617 %	103.3757 %	102.2873 %	104.4946 %	0.0017 ppm
Concentration per Run 2	99.7183 %	103.0806 %	103.3321 %	102.6338 %	101.9440 %	104.3563 %	0.0019 ppm
Concentration per Run 3	98.4099 %	103.0996 %	101.8462 %	102.1756 %	102.0788 %	104.4400 %	0.0023 ppm
Concentration RSD	2.3 %	0.1 %	0.7 %	0.6 %	0.2 %	0.1 %	17.0 %

LabBook: WG2039408_03122025T6.imexp

Sample: L2512607-05 WG2039059
Analysis started at: 3/12/2025 9:35:06 PM
Rack: 1
Vial: 51

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0096 ppm	-0.0006 ppm	0.0237 ppm	0.0150 ppm	0.0000 ppm	14.3873 ppm
Concentration per Run 1	-0.0002 ppm	0.0108 ppm	-0.0001 ppm	0.0232 ppm	0.0146 ppm	0.0000 ppm	14.3007 ppm
Concentration per Run 2	-0.0003 ppm	0.0064 ppm	-0.0004 ppm	0.0241 ppm	0.0153 ppm	0.0001 ppm	14.4321 ppm
Concentration per Run 3	0.0002 ppm	0.0116 ppm	-0.0012 ppm	0.0238 ppm	0.0152 ppm	0.0000 ppm	14.4293 ppm
Concentration RSD	289.7 %	29.1 %	97.6 %	1.8 %	2.6 %	235.2 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0004 ppm	0.0016 ppm	0.0003 ppm	0.0626 ppm	1.5278 ppm	6.1254 ppm
Concentration per Run 1	0.0001 ppm	-0.0004 ppm	0.0016 ppm	0.0002 ppm	0.0614 ppm	1.5388 ppm	6.1516 ppm
Concentration per Run 2	0.0000 ppm	-0.0004 ppm	0.0018 ppm	0.0003 ppm	0.0640 ppm	1.5321 ppm	6.1116 ppm
Concentration per Run 3	0.0000 ppm	-0.0004 ppm	0.0014 ppm	0.0005 ppm	0.0625 ppm	1.5125 ppm	6.1129 ppm
Concentration RSD	21.7 %	8.2 %	11.7 %	32.1 %	2.1 %	0.9 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0169 ppm	-0.0004 ppm	22.0035 ppm	-0.0001 ppm	-0.0039 ppm	-0.0004 ppm	-0.0008 ppm
Concentration per Run 1	0.0170 ppm	-0.0005 ppm	21.8565 ppm	0.0000 ppm	-0.0036 ppm	0.0004 ppm	-0.0008 ppm
Concentration per Run 2	0.0169 ppm	-0.0004 ppm	22.1466 ppm	-0.0002 ppm	-0.0041 ppm	-0.0007 ppm	-0.0007 ppm
Concentration per Run 3	0.0170 ppm	-0.0003 ppm	22.0075 ppm	-0.0001 ppm	-0.0040 ppm	-0.0008 ppm	-0.0009 ppm
Concentration RSD	0.3 %	17.8 %	0.7 %	65.2 %	7.8 %	183.1 %	9.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	7.8663 ppm	0.0002 ppm	0.0773 ppm	0.0006 ppm	-0.0006 ppm	0.0000 ppm	0.0007 ppm
Concentration per Run 1	7.8424 ppm	0.0002 ppm	0.0768 ppm	0.0008 ppm	-0.0004 ppm	0.0003 ppm	0.0007 ppm
Concentration per Run 2	7.8798 ppm	0.0002 ppm	0.0776 ppm	0.0003 ppm	-0.0007 ppm	-0.0002 ppm	0.0006 ppm
Concentration per Run 3	7.8769 ppm	0.0001 ppm	0.0773 ppm	0.0008 ppm	-0.0006 ppm	-0.0002 ppm	0.0008 ppm
Concentration RSD	0.3 %	43.3 %	0.5 %	38.8 %	23.5 %	798.9 %	13.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.9255 %	103.7809 %	102.4789 %	102.5048 %	101.8574 %	104.6419 %	0.0019 ppm
Concentration per Run 1	103.3862 %	103.3740 %	103.4048 %	103.2915 %	102.1509 %	104.3282 %	0.0017 ppm
Concentration per Run 2	100.2627 %	103.9884 %	102.1562 %	102.5020 %	101.6116 %	104.9553 %	0.0011 ppm
Concentration per Run 3	99.1278 %	103.9803 %	101.8757 %	101.7210 %	101.8097 %	104.6421 %	0.0030 ppm
Concentration RSD	2.2 %	0.3 %	0.8 %	0.8 %	0.3 %	0.3 %	49.4 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: CCV
Analysis started at: 3/12/2025 9:41:40 PM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4672 ppm	0.4651 ppm	0.4564 ppm	0.4505 ppm	0.4539 ppm	0.4633 ppm	0.4933 ppm
Concentration per Run 1	0.4610 ppm	0.4581 ppm	0.4563 ppm	0.4497 ppm	0.4459 ppm	0.4519 ppm	0.4809 ppm
Concentration per Run 2	0.4723 ppm	0.4668 ppm	0.4590 ppm	0.4516 ppm	0.4568 ppm	0.4683 ppm	0.5025 ppm
Concentration per Run 3	0.4682 ppm	0.4704 ppm	0.4540 ppm	0.4501 ppm	0.4590 ppm	0.4697 ppm	0.4964 ppm
Recovery Percentage 1	93.439 %	93.016 %	91.286 %	90.091 %	90.776 %	92.660 %	98.656 %
Concentration RSD	1.2 %	1.4 %	0.6 %	0.2 %	1.5 %	2.1 %	2.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4503 ppm	0.4487 ppm	0.4660 ppm	0.4572 ppm	0.4727 ppm	4.8856 ppm	0.4814 ppm
Concentration per Run 1	0.4483 ppm	0.4471 ppm	0.4612 ppm	0.4538 ppm	0.4595 ppm	4.7873 ppm	0.4757 ppm
Concentration per Run 2	0.4500 ppm	0.4484 ppm	0.4718 ppm	0.4596 ppm	0.4796 ppm	4.9393 ppm	0.4837 ppm
Concentration per Run 3	0.4526 ppm	0.4506 ppm	0.4649 ppm	0.4581 ppm	0.4789 ppm	4.9301 ppm	0.4849 ppm
Recovery Percentage 1	90.056 %	89.741 %	93.190 %	91.441 %	94.535 %	97.711 %	96.288 %
Concentration RSD	0.5 %	0.4 %	1.2 %	0.7 %	2.4 %	1.7 %	1.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4605 ppm	0.4660 ppm	9.0129 ppm	0.4546 ppm	0.4589 ppm	0.4488 ppm	0.4598 ppm
Concentration per Run 1	0.4499 ppm	0.4647 ppm	8.8172 ppm	0.4535 ppm	0.4578 ppm	0.4477 ppm	0.4600 ppm
Concentration per Run 2	0.4650 ppm	0.4675 ppm	9.0951 ppm	0.4538 ppm	0.4586 ppm	0.4491 ppm	0.4615 ppm
Concentration per Run 3	0.4665 ppm	0.4659 ppm	9.1264 ppm	0.4566 ppm	0.4601 ppm	0.4497 ppm	0.4580 ppm
Recovery Percentage 1	92.091 %	93.204 %	90.129 %	90.926 %	91.770 %	89.768 %	91.966 %
Concentration RSD	2.0 %	0.3 %	1.9 %	0.4 %	0.3 %	0.2 %	0.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.9462 ppm	0.4510 ppm	0.4520 ppm	0.4687 ppm	0.4562 ppm	0.4592 ppm	0.4552 ppm
Concentration per Run 1	4.9385 ppm	0.4495 ppm	0.4410 ppm	0.4641 ppm	0.4558 ppm	0.4589 ppm	0.4532 ppm
Concentration per Run 2	4.9446 ppm	0.4516 ppm	0.4565 ppm	0.4734 ppm	0.4568 ppm	0.4598 ppm	0.4546 ppm
Concentration per Run 3	4.9554 ppm	0.4518 ppm	0.4585 ppm	0.4687 ppm	0.4559 ppm	0.4590 ppm	0.4576 ppm
Recovery Percentage 1	94.213 %	90.191 %	90.397 %	93.750 %	91.232 %	91.847 %	91.035 %
Concentration RSD	0.2 %	0.3 %	2.1 %	1.0 %	0.1 %	0.1 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.3966 %	104.0107 %	103.3411 %	106.3506 %	102.5043 %	106.3076 %	0.4537 ppm
Concentration per Run 1	100.9510 %	104.2737 %	103.4668 %	108.7107 %	102.8313 %	107.4543 %	0.4441 ppm
Concentration per Run 2	98.8212 %	103.5848 %	103.3147 %	105.4140 %	102.6595 %	105.3256 %	0.4571 ppm
Concentration per Run 3	98.4176 %	104.1737 %	103.2417 %	104.9272 %	102.0220 %	106.1430 %	0.4599 ppm
Recovery Percentage 1							90.735 %
Concentration RSD	1.4 %	0.4 %	0.1 %	1.9 %	0.4 %	1.0 %	1.9 %

LabBook: WG2039408_03122025T6.imexp

Sample: CCB
Analysis started at: 3/12/2025 9:48:00 PM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	-0.0003 ppm	-0.0002 ppm	-0.0006 ppm	-0.0001 ppm	0.0000 ppm	0.0031 ppm
Concentration per Run 1	0.0000 ppm	-0.0010 ppm	0.0008 ppm	-0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0086 ppm
Concentration per Run 2	0.0000 ppm	0.0011 ppm	-0.0009 ppm	-0.0007 ppm	-0.0001 ppm	0.0001 ppm	-0.0004 ppm
Concentration per Run 3	0.0000 ppm	-0.0009 ppm	-0.0004 ppm	-0.0008 ppm	0.0000 ppm	0.0000 ppm	0.0011 ppm
Recovery Percentage 1	0.244 %	-0.259 %	-3.515 %	-2.146 %	-0.540 %	0.354 %	3.103 %
Concentration RSD	111.2 %	442.9 %	483.5 %	24.0 %	108.5 %	164.2 %	155.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0073 ppm	-0.0014 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0007 ppm	0.0100 ppm	-0.0005 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0006 ppm	-0.0091 ppm	-0.0019 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0000 ppm	0.0001 ppm	0.0211 ppm	-0.0018 ppm
Recovery Percentage 1	-0.668 %	0.064 %	-1.396 %	0.264 %	0.031 %	0.293 %	-1.384 %
Concentration RSD	26.9 %	144.0 %	119.9 %	132.4 %	4,282.5 %	208.8 %	55.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0001 ppm	0.0002 ppm	-0.0138 ppm	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0007 ppm
Concentration per Run 1	-0.0001 ppm	0.0003 ppm	-0.0151 ppm	0.0001 ppm	-0.0002 ppm	0.0002 ppm	0.0005 ppm
Concentration per Run 2	-0.0004 ppm	0.0002 ppm	-0.0119 ppm	-0.0001 ppm	-0.0001 ppm	-0.0004 ppm	0.0002 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	-0.0144 ppm	-0.0001 ppm	0.0001 ppm	0.0007 ppm	0.0014 ppm
Recovery Percentage 1	-1.330 %	0.458 %	-0.688 %	-0.175 %	-0.581 %	0.287 %	7.172 %
Concentration RSD	170.7 %	46.7 %	12.3 %	289.9 %	257.1 %	386.2 %	81.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0005 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0008 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 1	-0.0001 ppm	0.0001 ppm	0.0000 ppm	-0.0004 ppm	0.0008 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 2	-0.0005 ppm	-0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0013 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 3	-0.0010 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0003 ppm	0.0000 ppm
Recovery Percentage 1	-0.109 %	-0.178 %	0.107 %	-1.443 %	4.078 %	1.041 %	0.338 %
Concentration RSD	81.9 %	305.9 %	467.0 %	148.8 %	58.3 %	165.8 %	581.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.2201 %	105.1820 %	104.5168 %	102.7110 %	106.1809 %	105.6666 %	0.0000 ppm
Concentration per Run 1	102.5251 %	105.3812 %	104.2077 %	103.4893 %	105.9262 %	105.8006 %	0.0002 ppm
Concentration per Run 2	99.6189 %	104.8543 %	104.6892 %	102.5468 %	106.1989 %	105.3287 %	-0.0001 ppm
Concentration per Run 3	98.5163 %	105.3106 %	104.6536 %	102.0968 %	106.4176 %	105.8706 %	-0.0001 ppm
Recovery Percentage 1							-0.025 %
Concentration RSD	2.1 %	0.3 %	0.3 %	0.7 %	0.2 %	0.3 %	8,237.5 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: XWRONG SPOT
Analysis started at: 3/12/2025 9:54:39 PM
Rack: 1
Vial: 14

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0549 ppm	0.0008 ppm	-0.0019 ppm	0.0319 ppm	0.0000 ppm	13.9679 ppm
Concentration per Run 1	0.0000 ppm	0.0522 ppm	0.0000 ppm	0.0000 ppm	0.0321 ppm	0.0000 ppm	14.0656 ppm
Concentration per Run 2	0.0001 ppm	0.0539 ppm	0.0008 ppm	-0.0019 ppm	0.0319 ppm	0.0000 ppm	13.9200 ppm
Concentration per Run 3	0.0000 ppm	0.0586 ppm	0.0007 ppm	-0.0019 ppm	0.0318 ppm	0.0000 ppm	13.9180 ppm
Recovery Percentage 1	1.334 %	54.913 %	15.485 %	-6.327 %	319.357 %	0.483 %	13,967.853 %
Concentration RSD	74.5 %	6.0 %	5.4 %	2.9 %	0.4 %	66.9 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0639 ppm	0.0035 ppm	0.3577 ppm	0.5545 ppm	0.7824 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0631 ppm	0.0035 ppm	0.3597 ppm	0.5397 ppm	0.7768 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0647 ppm	0.0035 ppm	0.3561 ppm	0.5676 ppm	0.7879 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	0.3574 ppm	0.5561 ppm	0.0000 ppm
Recovery Percentage 1	-0.252 %	-0.987 %	638.971 %	34.797 %	715.473 %	22.178 %	782.357 %
Concentration RSD	6.3 %	11.9 %	1.8 %	1.1 %	0.5 %	2.5 %	1.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1443 ppm	-0.0004 ppm	126.4784 ppm	0.0006 ppm	0.0005 ppm	-0.0006 ppm	0.0015 ppm
Concentration per Run 1	0.1459 ppm	0.0000 ppm	128.3018 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 2	0.1437 ppm	-0.0004 ppm	126.6044 ppm	0.0005 ppm	0.0005 ppm	-0.0009 ppm	0.0018 ppm
Concentration per Run 3	0.1432 ppm	-0.0004 ppm	124.5290 ppm	0.0006 ppm	0.0005 ppm	-0.0004 ppm	0.0013 ppm
Recovery Percentage 1	1,442.898 %	-0.848 %	6,323.920 %	2.281 %	4.689 %	-1.247 %	15.202 %
Concentration RSD	1.0 %	0.4 %	1.5 %	15.8 %	3.7 %	59.7 %	23.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0031 ppm	-0.0001 ppm	0.0639 ppm	0.0003 ppm	0.0019 ppm	0.0013 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0639 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 2	-0.0049 ppm	0.0000 ppm	0.0640 ppm	0.0001 ppm	0.0017 ppm	0.0013 ppm	0.0001 ppm
Concentration per Run 3	0.0111 ppm	-0.0001 ppm	0.0638 ppm	0.0000 ppm	0.0021 ppm	0.0013 ppm	0.0002 ppm
Recovery Percentage 1	0.619 %	-0.176 %	639.217 %	2.622 %	9.414 %	12.856 %	2.845 %
Concentration RSD	366.7 %	85.8 %	0.1 %	82.1 %	12.8 %	2.9 %	82.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	96.7348 %	97.7098 %	439.2913 %	100.9091 %	390.4014 %	99.0143 %	0.0021 ppm
Concentration per Run 1	97.0000 %	99.0719 %	0.0000 %	99.5085 %	0.0000 %	99.6008 %	0.0020 ppm
Concentration per Run 2	96.2594 %	96.3476 %	465.4478 %	101.1621 %	379.2035 %	98.4277 %	0.0019 ppm
Concentration per Run 3	96.9451 %	0.0000 %	413.1348 %	102.0566 %	401.5993 %	0.0000 %	0.0024 ppm
Recovery Percentage 1							21.016 %
Concentration RSD	0.4 %	2.0 %	8.4 %	1.3 %	4.1 %	0.8 %	12.0 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: XWRONG SPOT
Analysis started at: 3/12/2025 10:01:21 PM
Rack: 1
Vial: 15

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0010 ppm	0.0002 ppm	-0.0014 ppm	0.0000 ppm	0.0000 ppm	0.0147 ppm
Concentration per Run 1	-0.0003 ppm	-0.0014 ppm	-0.0008 ppm	-0.0009 ppm	0.0001 ppm	0.0001 ppm	0.0157 ppm
Concentration per Run 2	0.0000 ppm	0.0038 ppm	**0.0000 ppm**	**0.0000 ppm**	0.0000 ppm	0.0001 ppm	0.0143 ppm
Concentration per Run 3	0.0001 ppm	0.0007 ppm	0.0012 ppm	-0.0019 ppm	-0.0001 ppm	0.0000 ppm	0.0140 ppm
Concentration RSD	325.5 %	261.0 %	828.6 %	50.4 %	474.0 %	130.0 %	6.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0080 ppm	0.0197 ppm	0.0024 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0003 ppm	-0.0001 ppm	0.0079 ppm	0.0252 ppm	0.0025 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0083 ppm	0.0191 ppm	0.0026 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0001 ppm	0.0078 ppm	0.0148 ppm	0.0019 ppm
Concentration RSD	28,107.2 %	81.8 %	134.7 %	275.6 %	3.0 %	26.5 %	16.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	-0.0003 ppm	-0.0069 ppm	0.0003 ppm	0.0000 ppm	-0.0001 ppm	0.0014 ppm
Concentration per Run 1	0.0002 ppm	-0.0004 ppm	-0.0111 ppm	0.0001 ppm	-0.0005 ppm	0.0002 ppm	0.0007 ppm
Concentration per Run 2	0.0001 ppm	0.0001 ppm	-0.0077 ppm	0.0003 ppm	0.0000 ppm	0.0002 ppm	**0.0000 ppm**
Concentration per Run 3	0.0004 ppm	-0.0005 ppm	-0.0018 ppm	0.0006 ppm	0.0006 ppm	-0.0006 ppm	0.0020 ppm
Concentration RSD	63.3 %	127.7 %	68.6 %	71.8 %	4,224.4 %	489.6 %	66.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0036 ppm	0.0002 ppm	0.0000 ppm	-0.0003 ppm	0.0006 ppm	0.0007 ppm	0.0003 ppm
Concentration per Run 1	0.0073 ppm	0.0004 ppm	0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0005 ppm
Concentration per Run 2	0.0084 ppm	0.0003 ppm	0.0000 ppm	-0.0005 ppm	-0.0003 ppm	**0.0000 ppm**	0.0003 ppm
Concentration per Run 3	-0.0048 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0018 ppm	0.0012 ppm	0.0001 ppm
Concentration RSD	201.5 %	112.4 %	520.1 %	94.7 %	178.0 %	114.8 %	78.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.2812 %	106.3600 %	**289.1989 %**	100.5189 %	**202.5590 %**	105.8052 %	-0.0001 ppm
Concentration per Run 1	103.9129 %	106.3359 %	105.5417 %	100.3040 %	106.6456 %	105.8830 %	-0.0002 ppm
Concentration per Run 2	100.5475 %	105.6262 %	**0.0000 %**	100.5864 %	130.8589 %	105.1198 %	-0.0004 ppm
Concentration per Run 3	99.3833 %	107.1179 %	**472.8562 %**	100.6664 %	**370.1726 %**	106.4128 %	0.0003 ppm
Concentration RSD	2.3 %	0.7 %	**89.8 %**	0.2 %	**71.9 %**	0.6 %	417.5 %

LabBook: WG2039408_03122025T6.imexp

Sample: WG2039569-1 WG2039569
Analysis started at: 3/12/2025 10:10:24 PM
Rack: 2
Vial: 14

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0009 ppm	-0.0014 ppm	-0.0010 ppm	-0.0001 ppm	0.0000 ppm	0.0303 ppm
Concentration per Run 1	0.0003 ppm	-0.0002 ppm	-0.0009 ppm	-0.0011 ppm	0.0000 ppm	0.0000 ppm	0.0335 ppm
Concentration per Run 2	0.0000 ppm	0.0042 ppm	-0.0016 ppm	-0.0009 ppm	-0.0001 ppm	0.0000 ppm	0.0273 ppm
Concentration per Run 3	-0.0001 ppm	-0.0014 ppm	-0.0017 ppm	-0.0012 ppm	-0.0001 ppm	0.0000 ppm	0.0301 ppm
Concentration RSD	341.6 %	346.8 %	29.3 %	15.1 %	76.0 %	164.1 %	10.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0049 ppm	0.0005 ppm	0.0024 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0028 ppm	-0.0047 ppm	0.0032 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0003 ppm	0.0072 ppm	-0.0019 ppm	0.0023 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0003 ppm	0.0048 ppm	0.0081 ppm	0.0017 ppm
Concentration RSD	917.2 %	33.9 %	98.3 %	13.4 %	44.2 %	1,373.5 %	31.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	-0.0004 ppm	-0.0101 ppm	0.0001 ppm	0.0001 ppm	-0.0013 ppm	-0.0007 ppm
Concentration per Run 1	0.0003 ppm	-0.0004 ppm	-0.0116 ppm	0.0001 ppm	-0.0001 ppm	-0.0011 ppm	0.0001 ppm
Concentration per Run 2	-0.0003 ppm	-0.0003 ppm	-0.0090 ppm	0.0002 ppm	0.0003 ppm	-0.0012 ppm	-0.0010 ppm
Concentration per Run 3	0.0000 ppm	-0.0005 ppm	-0.0097 ppm	0.0000 ppm	0.0002 ppm	-0.0016 ppm	-0.0014 ppm
Concentration RSD	32,294.6 %	19.2 %	13.1 %	81.3 %	145.5 %	20.4 %	104.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0026 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 1	0.0022 ppm	-0.0001 ppm	0.0001 ppm	-0.0002 ppm	-0.0004 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 2	0.0027 ppm	0.0002 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 3	0.0031 ppm	-0.0002 ppm	0.0000 ppm	-0.0001 ppm	-0.0006 ppm	0.0001 ppm	0.0002 ppm
Concentration RSD	16.5 %	507.8 %	256.0 %	241.1 %	111.0 %	2,007.3 %	16.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.3761 %	104.6505 %	103.6580 %	103.8109 %	105.9762 %	106.4763 %	-0.0005 ppm
Concentration per Run 1	104.1286 %	104.8324 %	104.6994 %	104.3630 %	106.5662 %	106.5244 %	-0.0007 ppm
Concentration per Run 2	99.7041 %	104.5471 %	103.0596 %	102.8634 %	105.8509 %	106.4487 %	-0.0003 ppm
Concentration per Run 3	100.2957 %	104.5721 %	103.2149 %	104.2063 %	105.5115 %	106.4559 %	-0.0004 ppm
Concentration RSD	2.4 %	0.2 %	0.9 %	0.8 %	0.5 %	0.0 %	40.6 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: WG2039569-2 WG2039569
Analysis started at: 3/12/2025 10:17:03 PM
Rack: 2
Vial: 15

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0510 ppm	1.9973 ppm	0.1090 ppm	0.9158 ppm	1.8899 ppm	0.0485 ppm	10.2230 ppm
Concentration per Run 1	0.0505 ppm	1.9911 ppm	0.1112 ppm	0.9133 ppm	1.8842 ppm	0.0484 ppm	10.2061 ppm
Concentration per Run 2	0.0518 ppm	1.9995 ppm	0.1074 ppm	0.9165 ppm	1.8933 ppm	0.0487 ppm	10.2867 ppm
Concentration per Run 3	0.0508 ppm	2.0014 ppm	0.1084 ppm	0.9177 ppm	1.8921 ppm	0.0485 ppm	10.1762 ppm
Concentration RSD	1.3 %	0.3 %	1.8 %	0.2 %	0.3 %	0.3 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0486 ppm	0.4488 ppm	0.1939 ppm	0.2467 ppm	0.9993 ppm	10.5601 ppm	10.1859 ppm
Concentration per Run 1	0.0484 ppm	0.4467 ppm	0.1912 ppm	0.2459 ppm	0.9917 ppm	10.5404 ppm	10.0390 ppm
Concentration per Run 2	0.0487 ppm	0.4495 ppm	0.1989 ppm	0.2470 ppm	1.0030 ppm	10.5673 ppm	10.4344 ppm
Concentration per Run 3	0.0488 ppm	0.4503 ppm	0.1915 ppm	0.2471 ppm	1.0032 ppm	10.5726 ppm	10.0843 ppm
Concentration RSD	0.4 %	0.4 %	2.3 %	0.3 %	0.7 %	0.2 %	2.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4964 ppm	0.8922 ppm	10.1025 ppm	0.4604 ppm	0.5043 ppm	0.4480 ppm	0.1095 ppm
Concentration per Run 1	0.4954 ppm	0.8814 ppm	10.0926 ppm	0.4583 ppm	0.5030 ppm	0.4443 ppm	0.1087 ppm
Concentration per Run 2	0.4986 ppm	0.8949 ppm	10.1068 ppm	0.4608 ppm	0.5036 ppm	0.4491 ppm	0.1097 ppm
Concentration per Run 3	0.4953 ppm	0.9002 ppm	10.1080 ppm	0.4622 ppm	0.5062 ppm	0.4505 ppm	0.1101 ppm
Concentration RSD	0.4 %	1.1 %	0.1 %	0.4 %	0.3 %	0.7 %	0.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.8284 ppm	0.8984 ppm	0.9516 ppm	0.9750 ppm	0.1069 ppm	0.4773 ppm	0.4539 ppm
Concentration per Run 1	0.8251 ppm	0.8933 ppm	0.9490 ppm	0.9619 ppm	0.1057 ppm	0.4743 ppm	0.4509 ppm
Concentration per Run 2	0.8293 ppm	0.8993 ppm	0.9533 ppm	0.9976 ppm	0.1075 ppm	0.4800 ppm	0.4544 ppm
Concentration per Run 3	0.8310 ppm	0.9027 ppm	0.9526 ppm	0.9654 ppm	0.1076 ppm	0.4775 ppm	0.4565 ppm
Concentration RSD	0.4 %	0.5 %	0.2 %	2.0 %	1.0 %	0.6 %	0.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.7830 %	102.5622 %	101.7764 %	103.9646 %	101.6406 %	104.0254 %	-0.0007 ppm
Concentration per Run 1	100.7605 %	102.7824 %	102.3070 %	104.2009 %	102.4251 %	105.3266 %	-0.0009 ppm
Concentration per Run 2	98.8055 %	102.2245 %	101.4897 %	103.0486 %	101.1780 %	101.8690 %	-0.0005 ppm
Concentration per Run 3	99.7830 %	102.6796 %	101.5325 %	104.6445 %	101.3187 %	104.8806 %	-0.0008 ppm
Concentration RSD	1.0 %	0.3 %	0.5 %	0.8 %	0.7 %	1.8 %	26.1 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: WG2039569-2 WG2039569
Analysis started at: 3/12/2025 10:23:24 PM
Rack: 2
Vial: 16

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0022 ppm	-0.0014 ppm	0.0006 ppm	0.0019 ppm	0.0001 ppm	0.0133 ppm
Concentration per Run 1	-0.0002 ppm	0.0017 ppm	-0.0017 ppm	0.0009 ppm	0.0019 ppm	0.0000 ppm	0.0211 ppm
Concentration per Run 2	0.0001 ppm	0.0040 ppm	-0.0012 ppm	0.0005 ppm	0.0019 ppm	0.0001 ppm	0.0099 ppm
Concentration per Run 3	-0.0001 ppm	0.0010 ppm	-0.0015 ppm	0.0005 ppm	0.0019 ppm	0.0001 ppm	0.0089 ppm
Concentration RSD	176.0 %	68.7 %	14.8 %	36.0 %	1.7 %	51.8 %	50.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0002 ppm	0.0006 ppm	0.0004 ppm	0.0056 ppm	0.0157 ppm	0.0037 ppm
Concentration per Run 1	0.0001 ppm	0.0003 ppm	0.0007 ppm	0.0004 ppm	0.0066 ppm	0.0257 ppm	0.0044 ppm
Concentration per Run 2	0.0001 ppm	0.0001 ppm	0.0006 ppm	0.0005 ppm	0.0046 ppm	0.0204 ppm	0.0012 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0005 ppm	0.0003 ppm	0.0055 ppm	0.0012 ppm	0.0055 ppm
Concentration RSD	46.6 %	42.6 %	16.7 %	16.2 %	18.1 %	81.8 %	59.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0005 ppm	0.0024 ppm	-0.0083 ppm	0.0005 ppm	-0.0009 ppm	0.0020 ppm	-0.0005 ppm
Concentration per Run 1	0.0004 ppm	0.0028 ppm	-0.0112 ppm	0.0005 ppm	-0.0007 ppm	0.0020 ppm	0.0006 ppm
Concentration per Run 2	0.0003 ppm	0.0022 ppm	-0.0070 ppm	0.0006 ppm	-0.0003 ppm	0.0028 ppm	-0.0018 ppm
Concentration per Run 3	0.0008 ppm	0.0022 ppm	-0.0067 ppm	0.0003 ppm	-0.0016 ppm	0.0013 ppm	-0.0002 ppm
Concentration RSD	56.8 %	15.8 %	30.8 %	27.5 %	75.9 %	37.4 %	261.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.9791 ppm	0.0009 ppm	0.0000 ppm	0.0001 ppm	-0.0010 ppm	0.0005 ppm	0.0010 ppm
Concentration per Run 1	0.9776 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0005 ppm	0.0011 ppm
Concentration per Run 2	0.9804 ppm	0.0011 ppm	-0.0001 ppm	0.0002 ppm	-0.0015 ppm	0.0004 ppm	0.0010 ppm
Concentration per Run 3	0.9795 ppm	0.0007 ppm	0.0000 ppm	0.0002 ppm	-0.0015 ppm	0.0005 ppm	0.0010 ppm
Concentration RSD	0.1 %	24.7 %	2,232.1 %	84.8 %	81.5 %	15.6 %	4.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.8767 %	104.5751 %	103.8420 %	104.7786 %	104.6503 %	106.8223 %	0.0000 ppm
Concentration per Run 1	102.8142 %	104.3965 %	104.1025 %	105.8389 %	104.9308 %	106.6474 %	0.0000 ppm
Concentration per Run 2	100.1612 %	104.6471 %	103.9863 %	104.4119 %	104.5432 %	106.9053 %	0.0008 ppm
Concentration per Run 3	99.6547 %	104.6818 %	103.4372 %	104.0849 %	104.4768 %	106.9140 %	-0.0009 ppm
Concentration RSD	1.7 %	0.1 %	0.3 %	0.9 %	0.2 %	0.1 %	3,444.1 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: L2512805-01 WG2039569
Analysis started at: 3/12/2025 10:30:01 PM
Rack: 2
Vial: 17

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.2942 ppm	-0.0013 ppm	0.0071 ppm	0.0158 ppm	0.0001 ppm	0.5699 ppm
Concentration per Run 1	0.0002 ppm	0.2919 ppm	0.0008 ppm	0.0074 ppm	0.0156 ppm	0.0001 ppm	0.5722 ppm
Concentration per Run 2	-0.0002 ppm	0.2965 ppm	-0.0026 ppm	0.0070 ppm	0.0158 ppm	0.0002 ppm	0.5697 ppm
Concentration per Run 3	0.0002 ppm	0.2941 ppm	-0.0020 ppm	0.0069 ppm	0.0159 ppm	0.0001 ppm	0.5679 ppm
Concentration RSD	355.8 %	0.8 %	143.6 %	3.4 %	1.0 %	18.0 %	0.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0037 ppm	0.0171 ppm	0.4406 ppm	0.6256 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0037 ppm	0.0169 ppm	0.4152 ppm	0.6340 ppm
Concentration per Run 2	0.0001 ppm	0.0002 ppm	0.0005 ppm	0.0037 ppm	0.0163 ppm	0.4602 ppm	0.6238 ppm
Concentration per Run 3	0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0036 ppm	0.0182 ppm	0.4465 ppm	0.6190 ppm
Concentration RSD	10.4 %	17.8 %	37.3 %	1.6 %	5.6 %	5.2 %	1.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1050 ppm	0.0004 ppm	4.4752 ppm	0.0022 ppm	-0.0007 ppm	0.0004 ppm	0.0002 ppm
Concentration per Run 1	0.1048 ppm	0.0004 ppm	4.4460 ppm	0.0024 ppm	-0.0004 ppm	0.0012 ppm	-0.0002 ppm
Concentration per Run 2	0.1052 ppm	0.0004 ppm	4.4822 ppm	0.0020 ppm	-0.0008 ppm	0.0005 ppm	0.0012 ppm
Concentration per Run 3	0.1051 ppm	0.0003 ppm	4.4975 ppm	0.0022 ppm	-0.0010 ppm	-0.0006 ppm	-0.0004 ppm
Concentration RSD	0.2 %	12.2 %	0.6 %	10.2 %	43.6 %	248.9 %	411.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.9307 ppm	0.0005 ppm	0.0088 ppm	0.0000 ppm	-0.0010 ppm	0.0003 ppm	0.0057 ppm
Concentration per Run 1	2.9372 ppm	0.0005 ppm	0.0088 ppm	-0.0001 ppm	-0.0011 ppm	0.0004 ppm	0.0056 ppm
Concentration per Run 2	2.9368 ppm	0.0004 ppm	0.0088 ppm	-0.0001 ppm	-0.0005 ppm	0.0003 ppm	0.0056 ppm
Concentration per Run 3	2.9181 ppm	0.0006 ppm	0.0089 ppm	0.0003 ppm	-0.0015 ppm	0.0003 ppm	0.0057 ppm
Concentration RSD	0.4 %	23.7 %	0.6 %	833.8 %	48.6 %	20.6 %	0.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	102.0528 %	104.6053 %	104.1323 %	104.7513 %	104.2441 %	106.3349 %	-0.0006 ppm
Concentration per Run 1	103.7962 %	104.0483 %	104.3383 %	105.1116 %	104.4481 %	105.6427 %	0.0000 ppm
Concentration per Run 2	101.6781 %	104.7218 %	103.8076 %	104.7821 %	103.9004 %	106.5096 %	-0.0007 ppm
Concentration per Run 3	100.6841 %	105.0458 %	104.2512 %	104.3603 %	104.3839 %	106.8524 %	-0.0012 ppm
Concentration RSD	1.6 %	0.5 %	0.3 %	0.4 %	0.3 %	0.6 %	92.6 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: WG2039569-3 WG2039569
Analysis started at: 3/12/2025 10:36:36 PM
Rack: 2
Vial: 18

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0495 ppm	2.1896 ppm	0.1082 ppm	0.9112 ppm	1.8435 ppm	0.0471 ppm	10.2943 ppm
Concentration per Run 1	0.0493 ppm	2.1509 ppm	0.1086 ppm	0.9098 ppm	1.8106 ppm	0.0461 ppm	10.0846 ppm
Concentration per Run 2	0.0495 ppm	2.2056 ppm	0.1073 ppm	0.9084 ppm	1.8564 ppm	0.0475 ppm	10.3756 ppm
Concentration per Run 3	0.0498 ppm	2.2124 ppm	0.1089 ppm	0.9152 ppm	1.8635 ppm	0.0478 ppm	10.4228 ppm
Concentration RSD	0.5 %	1.5 %	0.8 %	0.4 %	1.6 %	2.0 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0480 ppm	0.4444 ppm	0.1890 ppm	0.2425 ppm	0.9684 ppm	10.5941 ppm	10.3951 ppm
Concentration per Run 1	0.0482 ppm	0.4452 ppm	0.1887 ppm	0.2413 ppm	0.9455 ppm	10.4136 ppm	10.3633 ppm
Concentration per Run 2	0.0478 ppm	0.4428 ppm	0.1887 ppm	0.2427 ppm	0.9779 ppm	10.6350 ppm	10.4052 ppm
Concentration per Run 3	0.0481 ppm	0.4452 ppm	0.1896 ppm	0.2434 ppm	0.9817 ppm	10.7337 ppm	10.4167 ppm
Concentration RSD	0.4 %	0.3 %	0.3 %	0.4 %	2.0 %	1.5 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5693 ppm	0.8683 ppm	13.7435 ppm	0.4558 ppm	0.4931 ppm	0.4481 ppm	0.1083 ppm
Concentration per Run 1	0.5576 ppm	0.8634 ppm	13.5046 ppm	0.4564 ppm	0.4934 ppm	0.4468 ppm	0.1096 ppm
Concentration per Run 2	0.5736 ppm	0.8670 ppm	13.8173 ppm	0.4541 ppm	0.4912 ppm	0.4453 ppm	0.1085 ppm
Concentration per Run 3	0.5766 ppm	0.8746 ppm	13.9085 ppm	0.4568 ppm	0.4947 ppm	0.4524 ppm	0.1068 ppm
Concentration RSD	1.8 %	0.7 %	1.5 %	0.3 %	0.4 %	0.8 %	1.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.5001 ppm	0.8794 ppm	0.9208 ppm	0.9478 ppm	0.1047 ppm	0.4699 ppm	0.4543 ppm
Concentration per Run 1	3.4994 ppm	0.8802 ppm	0.9039 ppm	0.9473 ppm	0.1047 ppm	0.4699 ppm	0.4561 ppm
Concentration per Run 2	3.4874 ppm	0.8768 ppm	0.9273 ppm	0.9475 ppm	0.1048 ppm	0.4678 ppm	0.4531 ppm
Concentration per Run 3	3.5134 ppm	0.8810 ppm	0.9313 ppm	0.9487 ppm	0.1046 ppm	0.4720 ppm	0.4538 ppm
Concentration RSD	0.4 %	0.3 %	1.6 %	0.1 %	0.1 %	0.4 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	102.1017 %	103.6190 %	102.3897 %	106.1221 %	101.6691 %	105.2242 %	-0.0001 ppm
Concentration per Run 1	105.6265 %	103.6439 %	102.5370 %	108.2893 %	101.7926 %	105.3811 %	0.0004 ppm
Concentration per Run 2	100.8049 %	103.5082 %	102.5225 %	105.5444 %	101.8909 %	104.9973 %	-0.0003 ppm
Concentration per Run 3	99.8735 %	103.7048 %	102.1098 %	104.5325 %	101.3238 %	105.2941 %	-0.0003 ppm
Concentration RSD	3.0 %	0.1 %	0.2 %	1.8 %	0.3 %	0.2 %	851.1 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: WG2039569-4 WG2039569
Analysis started at: 3/12/2025 10:42:52 PM
Rack: 2
Vial: 19

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.3023 ppm	-0.0008 ppm	0.0080 ppm	0.0161 ppm	0.0002 ppm	0.5752 ppm
Concentration per Run 1	0.0000 ppm	0.3023 ppm	0.0000 ppm	0.0081 ppm	0.0160 ppm	0.0002 ppm	0.5784 ppm
Concentration per Run 2	-0.0002 ppm	0.3070 ppm	-0.0018 ppm	0.0081 ppm	0.0162 ppm	0.0001 ppm	0.5774 ppm
Concentration per Run 3	-0.0002 ppm	0.2977 ppm	-0.0007 ppm	0.0080 ppm	0.0161 ppm	0.0001 ppm	0.5698 ppm
Concentration RSD	125.5 %	1.5 %	108.2 %	0.9 %	0.7 %	43.2 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0002 ppm	0.0001 ppm	0.0036 ppm	0.0169 ppm	0.4317 ppm	0.6294 ppm
Concentration per Run 1	0.0001 ppm	0.0003 ppm	0.0002 ppm	0.0036 ppm	0.0158 ppm	0.4184 ppm	0.6320 ppm
Concentration per Run 2	0.0001 ppm	0.0002 ppm	0.0001 ppm	0.0037 ppm	0.0183 ppm	0.4470 ppm	0.6305 ppm
Concentration per Run 3	0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0036 ppm	0.0167 ppm	0.4297 ppm	0.6258 ppm
Concentration RSD	21.0 %	20.3 %	95.7 %	2.3 %	7.4 %	3.3 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1070 ppm	0.0025 ppm	4.5338 ppm	0.0022 ppm	-0.0005 ppm	0.0011 ppm	-0.0011 ppm
Concentration per Run 1	0.1070 ppm	0.0029 ppm	4.4918 ppm	0.0024 ppm	-0.0006 ppm	0.0010 ppm	-0.0020 ppm
Concentration per Run 2	0.1076 ppm	0.0026 ppm	4.5590 ppm	0.0022 ppm	-0.0006 ppm	0.0024 ppm	-0.0018 ppm
Concentration per Run 3	0.1065 ppm	0.0021 ppm	4.5504 ppm	0.0021 ppm	-0.0004 ppm	-0.0002 ppm	0.0005 ppm
Concentration RSD	0.5 %	15.3 %	0.8 %	6.9 %	20.9 %	121.2 %	124.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.9440 ppm	0.0009 ppm	0.0090 ppm	0.0001 ppm	-0.0009 ppm	0.0003 ppm	0.0058 ppm
Concentration per Run 1	2.9508 ppm	0.0010 ppm	0.0089 ppm	0.0001 ppm	-0.0002 ppm	0.0003 ppm	0.0058 ppm
Concentration per Run 2	2.9477 ppm	0.0009 ppm	0.0090 ppm	0.0004 ppm	-0.0016 ppm	0.0002 ppm	0.0058 ppm
Concentration per Run 3	2.9335 ppm	0.0008 ppm	0.0089 ppm	-0.0001 ppm	-0.0008 ppm	0.0004 ppm	0.0058 ppm
Concentration RSD	0.3 %	10.2 %	0.7 %	179.6 %	82.3 %	37.7 %	0.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	102.2034 %	105.0773 %	104.2483 %	103.5147 %	104.2007 %	106.3089 %	-0.0003 ppm
Concentration per Run 1	104.2543 %	104.9322 %	104.3206 %	103.8857 %	103.9824 %	106.1144 %	-0.0007 ppm
Concentration per Run 2	100.9134 %	104.9904 %	103.9940 %	102.7384 %	104.1032 %	106.2979 %	0.0001 ppm
Concentration per Run 3	101.4424 %	105.3092 %	104.4303 %	103.9199 %	104.5165 %	106.5144 %	-0.0003 ppm
Concentration RSD	1.8 %	0.2 %	0.2 %	0.6 %	0.3 %	0.2 %	139.1 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: WG2039569-5 WG2039569
Analysis started at: 3/12/2025 10:49:26 PM
Rack: 2
Vial: 20

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0264 ppm	2.2798 ppm	0.1147 ppm	0.9064 ppm	1.8988 ppm	0.0490 ppm	10.7161 ppm
Concentration per Run 1	0.0263 ppm	2.2426 ppm	0.1143 ppm	0.9067 ppm	1.8665 ppm	0.0482 ppm	10.5500 ppm
Concentration per Run 2	0.0264 ppm	2.2908 ppm	0.1151 ppm	0.9043 ppm	1.9079 ppm	0.0493 ppm	10.7610 ppm
Concentration per Run 3	0.0266 ppm	2.3060 ppm	0.1147 ppm	0.9083 ppm	1.9219 ppm	0.0495 ppm	10.8375 ppm
Concentration RSD	0.5 %	1.5 %	0.4 %	0.2 %	1.5 %	1.5 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0484 ppm	0.4445 ppm	0.1905 ppm	0.2463 ppm	1.0132 ppm	11.0166 ppm	10.5444 ppm
Concentration per Run 1	0.0487 ppm	0.4460 ppm	0.1906 ppm	0.2478 ppm	0.9944 ppm	10.8180 ppm	10.5576 ppm
Concentration per Run 2	0.0482 ppm	0.4435 ppm	0.1906 ppm	0.2461 ppm	1.0181 ppm	11.0900 ppm	10.5589 ppm
Concentration per Run 3	0.0484 ppm	0.4441 ppm	0.1902 ppm	0.2449 ppm	1.0271 ppm	11.1417 ppm	10.5167 ppm
Concentration RSD	0.5 %	0.3 %	0.1 %	0.6 %	1.7 %	1.6 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5954 ppm	0.8708 ppm	14.4098 ppm	0.4562 ppm	0.5016 ppm	0.4373 ppm	0.1139 ppm
Concentration per Run 1	0.5872 ppm	0.8687 ppm	14.1836 ppm	0.4579 ppm	0.5031 ppm	0.4359 ppm	0.1140 ppm
Concentration per Run 2	0.5974 ppm	0.8688 ppm	14.4977 ppm	0.4552 ppm	0.5004 ppm	0.4376 ppm	0.1150 ppm
Concentration per Run 3	0.6014 ppm	0.8750 ppm	14.5481 ppm	0.4555 ppm	0.5014 ppm	0.4383 ppm	0.1127 ppm
Concentration RSD	1.2 %	0.4 %	1.4 %	0.3 %	0.3 %	0.3 %	1.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.6311 ppm	0.8898 ppm	0.9580 ppm	0.9557 ppm	0.1113 ppm	0.4743 ppm	0.4574 ppm
Concentration per Run 1	3.6225 ppm	0.8918 ppm	0.9421 ppm	0.9546 ppm	0.1117 ppm	0.4731 ppm	0.4605 ppm
Concentration per Run 2	3.6291 ppm	0.8874 ppm	0.9622 ppm	0.9571 ppm	0.1112 ppm	0.4735 ppm	0.4545 ppm
Concentration per Run 3	3.6415 ppm	0.8901 ppm	0.9698 ppm	0.9553 ppm	0.1110 ppm	0.4764 ppm	0.4572 ppm
Concentration RSD	0.3 %	0.3 %	1.5 %	0.1 %	0.3 %	0.4 %	0.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.8550 %	103.7857 %	102.6412 %	106.0787 %	101.9084 %	105.6814 %	-0.0001 ppm
Concentration per Run 1	104.6174 %	103.9655 %	102.8794 %	107.3218 %	102.0804 %	105.8478 %	0.0000 ppm
Concentration per Run 2	100.5508 %	103.4048 %	102.7836 %	105.4940 %	101.9551 %	105.3192 %	0.0000 ppm
Concentration per Run 3	100.3969 %	103.9867 %	102.2607 %	105.4205 %	101.6898 %	105.8771 %	-0.0004 ppm
Concentration RSD	2.3 %	0.3 %	0.3 %	1.0 %	0.2 %	0.3 %	144.6 %

LabBook: WG2039408_03122025T6.imexp

Sample: WG2039569-6d5 WG2039569
Analysis started at: 3/12/2025 10:55:43 PM
Rack: 2
Vial: 21

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0626 ppm	-0.0008 ppm	0.0023 ppm	0.0032 ppm	0.0000 ppm	0.1216 ppm
Concentration per Run 1	-0.0001 ppm	0.0624 ppm	-0.0008 ppm	0.0027 ppm	0.0032 ppm	0.0000 ppm	0.1201 ppm
Concentration per Run 2	-0.0001 ppm	0.0641 ppm	0.0000 ppm	0.0022 ppm	0.0033 ppm	0.0001 ppm	0.1211 ppm
Concentration per Run 3	-0.0001 ppm	0.0614 ppm	-0.0016 ppm	0.0020 ppm	0.0031 ppm	0.0000 ppm	0.1234 ppm
Concentration RSD	13.2 %	2.2 %	106.6 %	15.3 %	2.7 %	113.4 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0008 ppm	0.0060 ppm	0.1180 ppm	0.1275 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0007 ppm	0.0055 ppm	0.1175 ppm	0.1266 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0010 ppm	0.0061 ppm	0.1224 ppm	0.1280 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0008 ppm	0.0064 ppm	0.1141 ppm	0.1279 ppm
Concentration RSD	57.7 %	118.1 %	5,330.6 %	15.4 %	7.9 %	3.5 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0213 ppm	0.0026 ppm	0.8889 ppm	0.0005 ppm	-0.0002 ppm	0.0026 ppm	0.0006 ppm
Concentration per Run 1	0.0208 ppm	0.0029 ppm	0.8727 ppm	0.0005 ppm	0.0002 ppm	0.0029 ppm	0.0008 ppm
Concentration per Run 2	0.0215 ppm	0.0028 ppm	0.8967 ppm	0.0005 ppm	-0.0004 ppm	0.0026 ppm	0.0017 ppm
Concentration per Run 3	0.0217 ppm	0.0022 ppm	0.8974 ppm	0.0006 ppm	-0.0003 ppm	0.0022 ppm	-0.0008 ppm
Concentration RSD	2.1 %	14.4 %	1.6 %	3.7 %	159.9 %	14.2 %	223.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.5755 ppm	0.0012 ppm	0.0018 ppm	-0.0001 ppm	-0.0003 ppm	0.0001 ppm	0.0012 ppm
Concentration per Run 1	0.5766 ppm	0.0013 ppm	0.0017 ppm	-0.0002 ppm	0.0000 ppm	0.0002 ppm	0.0012 ppm
Concentration per Run 2	0.5706 ppm	0.0010 ppm	0.0018 ppm	-0.0002 ppm	-0.0002 ppm	0.0001 ppm	0.0013 ppm
Concentration per Run 3	0.5792 ppm	0.0014 ppm	0.0018 ppm	0.0001 ppm	-0.0006 ppm	0.0001 ppm	0.0012 ppm
Concentration RSD	0.8 %	17.3 %	2.0 %	156.0 %	103.2 %	44.2 %	3.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.5854 %	105.1809 %	105.3696 %	104.1364 %	106.9302 %	106.9161 %	-0.0006 ppm
Concentration per Run 1	103.9297 %	105.0798 %	105.4965 %	106.3907 %	107.4946 %	106.6699 %	-0.0009 ppm
Concentration per Run 2	98.9260 %	105.3429 %	106.2319 %	102.9303 %	107.5146 %	107.1236 %	-0.0011 ppm
Concentration per Run 3	98.9006 %	105.1199 %	104.3804 %	103.0883 %	105.7814 %	106.9550 %	0.0003 ppm
Concentration RSD	2.9 %	0.1 %	0.9 %	1.9 %	0.9 %	0.2 %	134.5 %

LabBook: WG2039408_03122025T6.imexp

Sample: CCV
Analysis started at: 3/12/2025 11:02:21 PM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4696 ppm	0.4677 ppm	0.4598 ppm	0.4552 ppm	0.4436 ppm	0.4672 ppm	0.4969 ppm
Concentration per Run 1	0.4719 ppm	0.4640 ppm	0.4584 ppm	0.4522 ppm	0.4362 ppm	0.4584 ppm	0.4857 ppm
Concentration per Run 2	0.4704 ppm	0.4709 ppm	0.4587 ppm	0.4540 ppm	0.4470 ppm	0.4713 ppm	0.4988 ppm
Concentration per Run 3	0.4666 ppm	0.4682 ppm	0.4623 ppm	0.4594 ppm	0.4476 ppm	0.4721 ppm	0.5063 ppm
Recovery Percentage 1	93.924 %	93.540 %	91.956 %	91.040 %	88.719 %	93.449 %	99.387 %
Concentration RSD	0.6 %	0.8 %	0.5 %	0.8 %	1.4 %	1.6 %	2.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4547 ppm	0.4523 ppm	0.4707 ppm	0.4572 ppm	0.4769 ppm	4.8873 ppm	0.4845 ppm
Concentration per Run 1	0.4516 ppm	0.4495 ppm	0.4701 ppm	0.4595 ppm	0.4642 ppm	4.8096 ppm	0.4859 ppm
Concentration per Run 2	0.4524 ppm	0.4493 ppm	0.4701 ppm	0.4579 ppm	0.4823 ppm	4.9270 ppm	0.4856 ppm
Concentration per Run 3	0.4601 ppm	0.4582 ppm	0.4720 ppm	0.4542 ppm	0.4842 ppm	4.9253 ppm	0.4820 ppm
Recovery Percentage 1	90.937 %	90.465 %	94.141 %	91.438 %	95.385 %	97.747 %	96.898 %
Concentration RSD	1.0 %	1.1 %	0.2 %	0.6 %	2.3 %	1.4 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4649 ppm	0.4480 ppm	9.0789 ppm	0.4587 ppm	0.4634 ppm	0.4522 ppm	0.4645 ppm
Concentration per Run 1	0.4552 ppm	0.4436 ppm	8.9434 ppm	0.4558 ppm	0.4598 ppm	0.4483 ppm	0.4621 ppm
Concentration per Run 2	0.4699 ppm	0.4447 ppm	9.1601 ppm	0.4557 ppm	0.4613 ppm	0.4507 ppm	0.4617 ppm
Concentration per Run 3	0.4696 ppm	0.4557 ppm	9.1331 ppm	0.4647 ppm	0.4692 ppm	0.4578 ppm	0.4697 ppm
Recovery Percentage 1	92.975 %	89.599 %	90.789 %	91.741 %	92.685 %	90.446 %	92.901 %
Concentration RSD	1.8 %	1.5 %	1.3 %	1.1 %	1.1 %	1.1 %	1.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.9916 ppm	0.4569 ppm	0.4531 ppm	0.4728 ppm	0.4592 ppm	0.4622 ppm	0.4589 ppm
Concentration per Run 1	4.9535 ppm	0.4543 ppm	0.4447 ppm	0.4727 ppm	0.4559 ppm	0.4595 ppm	0.4561 ppm
Concentration per Run 2	4.9642 ppm	0.4555 ppm	0.4569 ppm	0.4726 ppm	0.4554 ppm	0.4605 ppm	0.4563 ppm
Concentration per Run 3	5.0570 ppm	0.4610 ppm	0.4576 ppm	0.4730 ppm	0.4662 ppm	0.4666 ppm	0.4642 ppm
Recovery Percentage 1	95.078 %	91.387 %	90.619 %	94.559 %	91.835 %	92.438 %	91.776 %
Concentration RSD	1.1 %	0.8 %	1.6 %	0.0 %	1.3 %	0.8 %	1.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.0790 %	103.5868 %	102.8093 %	104.7779 %	101.8488 %	105.5202 %	0.4543 ppm
Concentration per Run 1	101.4815 %	103.9019 %	103.3050 %	107.6881 %	102.4837 %	105.4429 %	0.4480 ppm
Concentration per Run 2	97.9801 %	103.5502 %	103.1513 %	103.5197 %	102.5045 %	105.6261 %	0.4579 ppm
Concentration per Run 3	97.7754 %	103.3083 %	101.9715 %	103.1257 %	100.5582 %	105.4915 %	0.4570 ppm
Recovery Percentage 1							90.861 %
Concentration RSD	2.1 %	0.3 %	0.7 %	2.4 %	1.1 %	0.1 %	1.2 %

LabBook: WG2039408_03122025T6.imexp

Sample: CCB
Analysis started at: 3/12/2025 11:08:40 PM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	-0.0008 ppm	0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0019 ppm
Concentration per Run 1	0.0003 ppm	-0.0026 ppm	0.0003 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0019 ppm
Concentration per Run 2	0.0001 ppm	-0.0030 ppm	-0.0008 ppm	0.0003 ppm	-0.0001 ppm	0.0000 ppm	-0.0016 ppm
Concentration per Run 3	0.0001 ppm	0.0034 ppm	0.0006 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0054 ppm
Recovery Percentage 1	2.362 %	-0.752 %	1.160 %	0.793 %	-0.397 %	0.798 %	1.894 %
Concentration RSD	72.8 %	480.5 %	1,254.6 %	192.7 %	156.7 %	8.4 %	184.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0003 ppm	0.0255 ppm	0.0010 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0001 ppm	-0.0006 ppm	0.0299 ppm	0.0018 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0004 ppm	0.0190 ppm	0.0020 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0001 ppm	-0.0008 ppm	0.0277 ppm	-0.0008 ppm
Recovery Percentage 1	-0.137 %	-0.084 %	0.157 %	0.704 %	-0.610 %	1.022 %	0.989 %
Concentration RSD	140.0 %	88.0 %	722.0 %	179.1 %	215.4 %	22.4 %	159.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0001 ppm	0.0007 ppm	-0.0166 ppm	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0001 ppm
Concentration per Run 1	-0.0001 ppm	0.0009 ppm	-0.0183 ppm	-0.0001 ppm	-0.0002 ppm	0.0002 ppm	-0.0007 ppm
Concentration per Run 2	-0.0004 ppm	0.0007 ppm	-0.0155 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0007 ppm
Concentration per Run 3	0.0001 ppm	0.0006 ppm	-0.0160 ppm	0.0001 ppm	-0.0005 ppm	0.0003 ppm	0.0001 ppm
Recovery Percentage 1	-1.347 %	1.412 %	-0.831 %	0.036 %	-2.454 %	0.415 %	0.712 %
Concentration RSD	170.5 %	21.9 %	8.9 %	1,419.0 %	112.4 %	52.4 %	993.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0006 ppm	0.0002 ppm	0.0000 ppm	0.0001 ppm	0.0008 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 1	-0.0003 ppm	0.0005 ppm	-0.0001 ppm	0.0003 ppm	0.0008 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 2	-0.0008 ppm	0.0003 ppm	0.0000 ppm	-0.0001 ppm	0.0010 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 3	-0.0008 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0005 ppm	0.0000 ppm	0.0000 ppm
Recovery Percentage 1	-0.124 %	0.456 %	-0.389 %	0.885 %	3.887 %	0.511 %	0.104 %
Concentration RSD	44.1 %	124.9 %	176.6 %	208.4 %	37.8 %	90.3 %	79.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.7503 %	104.4235 %	104.1559 %	101.9354 %	106.3711 %	105.1825 %	-0.0005 ppm
Concentration per Run 1	103.0613 %	105.0849 %	103.9208 %	103.4893 %	105.5991 %	106.1829 %	0.0000 ppm
Concentration per Run 2	98.6552 %	104.3739 %	104.1966 %	101.6237 %	107.1170 %	105.5948 %	-0.0009 ppm
Concentration per Run 3	97.5345 %	103.8117 %	104.3504 %	100.6934 %	106.3971 %	103.7697 %	-0.0008 ppm
Recovery Percentage 1							-5.289 %
Concentration RSD	2.9 %	0.6 %	0.2 %	1.4 %	0.7 %	1.2 %	94.0 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: L2512207-01 WG2039569
Analysis started at: 3/12/2025 11:15:20 PM
Rack: 2
Vial: 22

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0529 ppm	-0.0014 ppm	0.0058 ppm	0.0431 ppm	0.0000 ppm	31.1570 ppm
Concentration per Run 1	0.0004 ppm	0.0570 ppm	0.0000 ppm	0.0060 ppm	0.0426 ppm	0.0000 ppm	30.8779 ppm
Concentration per Run 2	0.0004 ppm	0.0501 ppm	-0.0026 ppm	0.0058 ppm	0.0435 ppm	0.0000 ppm	31.4114 ppm
Concentration per Run 3	0.0001 ppm	0.0518 ppm	-0.0017 ppm	0.0057 ppm	0.0431 ppm	0.0000 ppm	31.1817 ppm
Concentration RSD	49.3 %	6.8 %	91.7 %	2.4 %	1.0 %	180.8 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0003 ppm	0.0005 ppm	0.0039 ppm	0.0324 ppm	1.4951 ppm	14.1002 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	0.0005 ppm	0.0038 ppm	0.0303 ppm	1.4872 ppm	14.0892 ppm
Concentration per Run 2	0.0001 ppm	-0.0003 ppm	0.0003 ppm	0.0040 ppm	0.0319 ppm	1.5099 ppm	14.0521 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	0.0008 ppm	0.0041 ppm	0.0349 ppm	1.4881 ppm	14.1593 ppm
Concentration RSD	31.1 %	19.6 %	41.4 %	3.8 %	7.3 %	0.9 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0006 ppm	0.0003 ppm	2.1136 ppm	0.0050 ppm	-0.0010 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 1	0.0004 ppm	0.0001 ppm	2.0890 ppm	0.0048 ppm	-0.0008 ppm	0.0003 ppm	-0.0006 ppm
Concentration per Run 2	0.0007 ppm	0.0004 ppm	2.1266 ppm	0.0052 ppm	-0.0010 ppm	0.0003 ppm	0.0001 ppm
Concentration per Run 3	0.0007 ppm	0.0003 ppm	2.1251 ppm	0.0050 ppm	-0.0011 ppm	0.0001 ppm	0.0003 ppm
Concentration RSD	34.1 %	49.5 %	1.0 %	3.9 %	15.1 %	41.8 %	628.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.0609 ppm	0.0006 ppm	0.0476 ppm	0.0013 ppm	-0.0009 ppm	0.0001 ppm	0.0685 ppm
Concentration per Run 1	4.0528 ppm	0.0005 ppm	0.0470 ppm	0.0011 ppm	-0.0008 ppm	0.0001 ppm	0.0685 ppm
Concentration per Run 2	4.0602 ppm	0.0004 ppm	0.0478 ppm	0.0014 ppm	-0.0014 ppm	0.0000 ppm	0.0682 ppm
Concentration per Run 3	4.0696 ppm	0.0009 ppm	0.0479 ppm	0.0014 ppm	-0.0003 ppm	0.0003 ppm	0.0687 ppm
Concentration RSD	0.2 %	40.8 %	1.0 %	12.8 %	64.3 %	113.6 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.8538 %	103.4802 %	101.7687 %	103.6478 %	101.1358 %	105.5350 %	0.0006 ppm
Concentration per Run 1	102.4688 %	103.4793 %	102.0290 %	104.6857 %	101.4546 %	105.5348 %	0.0006 ppm
Concentration per Run 2	98.3896 %	103.8628 %	101.5736 %	102.7534 %	101.1270 %	105.9577 %	0.0004 ppm
Concentration per Run 3	98.7030 %	103.0985 %	101.7036 %	103.5041 %	100.8260 %	105.1124 %	0.0008 ppm
Concentration RSD	2.3 %	0.4 %	0.2 %	0.9 %	0.3 %	0.4 %	40.6 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: L2512805-02 WG2039569
Analysis started at: 3/12/2025 11:21:54 PM
Rack: 2
Vial: 23

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0155 ppm	-0.0015 ppm	0.0135 ppm	0.0077 ppm	0.0000 ppm	5.3943 ppm
Concentration per Run 1	0.0001 ppm	0.0139 ppm	-0.0013 ppm	0.0135 ppm	0.0076 ppm	0.0000 ppm	5.3524 ppm
Concentration per Run 2	-0.0001 ppm	0.0161 ppm	-0.0021 ppm	0.0134 ppm	0.0077 ppm	0.0000 ppm	5.4260 ppm
Concentration per Run 3	0.0000 ppm	0.0164 ppm	-0.0010 ppm	0.0134 ppm	0.0077 ppm	0.0000 ppm	5.4044 ppm
Concentration RSD	1,213.9 %	8.8 %	39.0 %	0.6 %	0.9 %	31.0 %	0.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0002 ppm	0.0001 ppm	0.0027 ppm	0.0178 ppm	4.0606 ppm	1.7401 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	0.0002 ppm	0.0027 ppm	0.0173 ppm	4.0187 ppm	1.7389 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	0.0002 ppm	0.0025 ppm	0.0178 ppm	4.0500 ppm	1.7328 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0028 ppm	0.0183 ppm	4.1131 ppm	1.7486 ppm
Concentration RSD	18.1 %	36.9 %	104.0 %	5.6 %	2.7 %	1.2 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.2695 ppm	-0.0001 ppm	5.3497 ppm	0.0000 ppm	-0.0018 ppm	-0.0001 ppm	-0.0003 ppm
Concentration per Run 1	0.2667 ppm	-0.0001 ppm	5.3119 ppm	-0.0001 ppm	-0.0020 ppm	-0.0004 ppm	-0.0009 ppm
Concentration per Run 2	0.2713 ppm	-0.0001 ppm	5.3641 ppm	0.0001 ppm	-0.0013 ppm	-0.0005 ppm	0.0007 ppm
Concentration per Run 3	0.2704 ppm	0.0000 ppm	5.3732 ppm	0.0000 ppm	-0.0020 ppm	0.0005 ppm	-0.0007 ppm
Concentration RSD	0.9 %	140.3 %	0.6 %	2,384.1 %	23.8 %	446.7 %	293.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.3762 ppm	0.0001 ppm	0.0147 ppm	0.0002 ppm	-0.0016 ppm	0.0006 ppm	0.0020 ppm
Concentration per Run 1	3.3906 ppm	0.0001 ppm	0.0145 ppm	0.0000 ppm	-0.0014 ppm	0.0006 ppm	0.0020 ppm
Concentration per Run 2	3.3678 ppm	0.0003 ppm	0.0147 ppm	0.0002 ppm	-0.0015 ppm	0.0006 ppm	0.0020 ppm
Concentration per Run 3	3.3702 ppm	0.0001 ppm	0.0149 ppm	0.0003 ppm	-0.0020 ppm	0.0006 ppm	0.0021 ppm
Concentration RSD	0.4 %	99.1 %	1.6 %	97.4 %	18.7 %	9.3 %	2.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.9987 %	105.1408 %	104.1496 %	102.8853 %	103.5907 %	105.3722 %	-0.0007 ppm
Concentration per Run 1	104.2536 %	104.9695 %	104.1363 %	103.5615 %	103.3381 %	105.1272 %	-0.0006 ppm
Concentration per Run 2	100.8474 %	105.7534 %	104.2458 %	102.1415 %	103.7993 %	106.0131 %	-0.0004 ppm
Concentration per Run 3	100.8952 %	104.6994 %	104.0668 %	102.9529 %	103.6348 %	104.9763 %	-0.0011 ppm
Concentration RSD	1.9 %	0.5 %	0.1 %	0.7 %	0.2 %	0.5 %	50.5 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: L2512805-03 WG2039569
Analysis started at: 3/12/2025 11:28:29 PM
Rack: 2
Vial: 24

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0216 ppm	-0.0005 ppm	0.0197 ppm	0.0318 ppm	0.0000 ppm	21.8540 ppm
Concentration per Run 1	0.0002 ppm	0.0215 ppm	-0.0010 ppm	0.0196 ppm	0.0315 ppm	0.0000 ppm	21.7661 ppm
Concentration per Run 2	0.0001 ppm	0.0213 ppm	0.0000 ppm	0.0198 ppm	0.0318 ppm	0.0001 ppm	21.9440 ppm
Concentration per Run 3	0.0001 ppm	0.0220 ppm	-0.0003 ppm	0.0196 ppm	0.0319 ppm	0.0000 ppm	21.8518 ppm
Concentration RSD	25.5 %	1.7 %	115.8 %	0.5 %	0.6 %	217.1 %	0.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0107 ppm	0.0025 ppm	0.0033 ppm	0.2663 ppm	10.6391 ppm	9.6527 ppm
Concentration per Run 1	0.0001 ppm	0.0107 ppm	0.0024 ppm	0.0034 ppm	0.2623 ppm	10.5852 ppm	9.6719 ppm
Concentration per Run 2	0.0001 ppm	0.0106 ppm	0.0027 ppm	0.0033 ppm	0.2665 ppm	10.6741 ppm	9.6388 ppm
Concentration per Run 3	0.0001 ppm	0.0107 ppm	0.0025 ppm	0.0032 ppm	0.2700 ppm	10.6581 ppm	9.6473 ppm
Concentration RSD	17.4 %	0.8 %	6.3 %	2.8 %	1.4 %	0.4 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	3.4366 ppm	0.0000 ppm	9.2554 ppm	0.0043 ppm	-0.0013 ppm	-0.0001 ppm	-0.0022 ppm
Concentration per Run 1	3.4183 ppm	-0.0001 ppm	9.1738 ppm	0.0044 ppm	-0.0017 ppm	-0.0007 ppm	-0.0019 ppm
Concentration per Run 2	3.4496 ppm	0.0001 ppm	9.2981 ppm	0.0045 ppm	-0.0016 ppm	0.0004 ppm	-0.0024 ppm
Concentration per Run 3	3.4419 ppm	-0.0001 ppm	9.2942 ppm	0.0042 ppm	-0.0006 ppm	-0.0001 ppm	-0.0021 ppm
Concentration RSD	0.5 %	279.6 %	0.8 %	2.8 %	45.7 %	393.4 %	12.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.7269 ppm	0.0003 ppm	0.0458 ppm	0.0008 ppm	-0.0022 ppm	0.0069 ppm	0.0029 ppm
Concentration per Run 1	2.7260 ppm	0.0005 ppm	0.0455 ppm	0.0009 ppm	-0.0011 ppm	0.0070 ppm	0.0028 ppm
Concentration per Run 2	2.7355 ppm	0.0003 ppm	0.0460 ppm	0.0006 ppm	-0.0025 ppm	0.0069 ppm	0.0029 ppm
Concentration per Run 3	2.7193 ppm	0.0001 ppm	0.0459 ppm	0.0008 ppm	-0.0031 ppm	0.0069 ppm	0.0030 ppm
Concentration RSD	0.3 %	55.2 %	0.6 %	17.7 %	45.1 %	0.8 %	3.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	102.2201 %	103.8018 %	102.3932 %	103.3639 %	100.9444 %	104.1792 %	-0.0004 ppm
Concentration per Run 1	104.5239 %	103.2211 %	102.8058 %	103.7825 %	101.1460 %	103.6063 %	-0.0001 ppm
Concentration per Run 2	101.2869 %	104.0167 %	101.9519 %	103.1004 %	100.5731 %	104.3589 %	-0.0007 ppm
Concentration per Run 3	100.8495 %	104.1676 %	102.4218 %	103.2089 %	101.1140 %	104.5724 %	-0.0004 ppm
Concentration RSD	2.0 %	0.5 %	0.4 %	0.4 %	0.3 %	0.5 %	73.6 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: L2512805-04 WG2039569
Analysis started at: 3/12/2025 11:35:04 PM
Rack: 2
Vial: 25

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0186 ppm	-0.0005 ppm	0.0327 ppm	0.0131 ppm	0.0000 ppm	36.1076 ppm
Concentration per Run 1	0.0002 ppm	0.0184 ppm	0.0002 ppm	0.0327 ppm	0.0130 ppm	0.0000 ppm	35.7838 ppm
Concentration per Run 2	-0.0004 ppm	0.0216 ppm	-0.0002 ppm	0.0326 ppm	0.0132 ppm	0.0000 ppm	36.3322 ppm
Concentration per Run 3	-0.0001 ppm	0.0157 ppm	-0.0014 ppm	0.0329 ppm	0.0131 ppm	0.0000 ppm	36.2070 ppm
Concentration RSD	270.4 %	15.7 %	168.1 %	0.5 %	0.8 %	60.8 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0004 ppm	0.0119 ppm	0.0170 ppm	15.8919 ppm	3.3777 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0119 ppm	0.0161 ppm	15.7525 ppm	3.3791 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0005 ppm	0.0121 ppm	0.0174 ppm	15.9591 ppm	3.3902 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0003 ppm	0.0116 ppm	0.0176 ppm	15.9643 ppm	3.3638 ppm
Concentration RSD	61.8 %	31.7 %	22.5 %	2.3 %	4.7 %	0.8 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0052 ppm	0.0011 ppm	16.9720 ppm	0.0001 ppm	-0.0024 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 1	0.0051 ppm	0.0010 ppm	16.8447 ppm	0.0002 ppm	-0.0024 ppm	0.0010 ppm	-0.0011 ppm
Concentration per Run 2	0.0052 ppm	0.0011 ppm	17.0204 ppm	-0.0001 ppm	-0.0022 ppm	-0.0012 ppm	0.0004 ppm
Concentration per Run 3	0.0052 ppm	0.0012 ppm	17.0509 ppm	0.0003 ppm	-0.0025 ppm	0.0000 ppm	0.0004 ppm
Concentration RSD	1.1 %	5.2 %	0.7 %	175.0 %	6.3 %	2,119.6 %	1,159.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.9038 ppm	0.0002 ppm	0.1207 ppm	0.0006 ppm	-0.0011 ppm	0.0012 ppm	0.0066 ppm
Concentration per Run 1	3.9073 ppm	0.0005 ppm	0.1198 ppm	0.0008 ppm	-0.0006 ppm	0.0011 ppm	0.0066 ppm
Concentration per Run 2	3.8972 ppm	-0.0001 ppm	0.1214 ppm	0.0003 ppm	-0.0010 ppm	0.0011 ppm	0.0066 ppm
Concentration per Run 3	3.9069 ppm	0.0001 ppm	0.1210 ppm	0.0008 ppm	-0.0016 ppm	0.0012 ppm	0.0067 ppm
Concentration RSD	0.1 %	181.8 %	0.7 %	46.4 %	45.5 %	3.5 %	1.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.6262 %	103.5123 %	101.5966 %	102.2588 %	100.7800 %	104.0346 %	-0.0001 ppm
Concentration per Run 1	103.2158 %	103.2437 %	101.6893 %	103.1536 %	100.7397 %	103.6837 %	0.0002 ppm
Concentration per Run 2	99.3659 %	103.8307 %	101.6209 %	101.6642 %	101.0404 %	104.2582 %	0.0003 ppm
Concentration per Run 3	99.2971 %	103.4624 %	101.4797 %	101.9585 %	100.5598 %	104.1618 %	-0.0008 ppm
Concentration RSD	2.2 %	0.3 %	0.1 %	0.8 %	0.2 %	0.3 %	721.6 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: CCV
Analysis started at: 3/12/2025 11:41:39 PM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4703 ppm	0.4730 ppm	0.4549 ppm	0.4506 ppm	0.4466 ppm	0.4695 ppm	0.4962 ppm
Concentration per Run 1	0.4706 ppm	0.4635 ppm	0.4521 ppm	0.4479 ppm	0.4357 ppm	0.4577 ppm	0.4821 ppm
Concentration per Run 2	0.4710 ppm	0.4769 ppm	0.4567 ppm	0.4513 ppm	0.4515 ppm	0.4747 ppm	0.4986 ppm
Concentration per Run 3	0.4692 ppm	0.4787 ppm	0.4558 ppm	0.4526 ppm	0.4527 ppm	0.4761 ppm	0.5079 ppm
Recovery Percentage 1	94.050 %	94.601 %	90.973 %	90.121 %	89.328 %	93.905 %	99.241 %
Concentration RSD	0.2 %	1.8 %	0.5 %	0.5 %	2.1 %	2.2 %	2.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4510 ppm	0.4504 ppm	0.4752 ppm	0.4542 ppm	0.4795 ppm	4.9730 ppm	0.4865 ppm
Concentration per Run 1	0.4423 ppm	0.4418 ppm	0.4766 ppm	0.4544 ppm	0.4667 ppm	4.8665 ppm	0.4872 ppm
Concentration per Run 2	0.4579 ppm	0.4568 ppm	0.4738 ppm	0.4554 ppm	0.4844 ppm	4.9988 ppm	0.4848 ppm
Concentration per Run 3	0.4529 ppm	0.4526 ppm	0.4753 ppm	0.4527 ppm	0.4874 ppm	5.0538 ppm	0.4874 ppm
Recovery Percentage 1	90.203 %	90.078 %	95.048 %	90.837 %	95.905 %	99.461 %	97.297 %
Concentration RSD	1.8 %	1.7 %	0.3 %	0.3 %	2.3 %	1.9 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4650 ppm	0.4414 ppm	9.1091 ppm	0.4541 ppm	0.4567 ppm	0.4491 ppm	0.4628 ppm
Concentration per Run 1	0.4533 ppm	0.4309 ppm	8.8855 ppm	0.4457 ppm	0.4485 ppm	0.4385 ppm	0.4589 ppm
Concentration per Run 2	0.4705 ppm	0.4484 ppm	9.1996 ppm	0.4602 ppm	0.4628 ppm	0.4563 ppm	0.4623 ppm
Concentration per Run 3	0.4711 ppm	0.4450 ppm	9.2421 ppm	0.4565 ppm	0.4586 ppm	0.4526 ppm	0.4671 ppm
Recovery Percentage 1	92.993 %	88.283 %	91.091 %	90.825 %	91.331 %	89.827 %	92.556 %
Concentration RSD	2.2 %	2.1 %	2.1 %	1.7 %	1.6 %	2.1 %	0.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.9127 ppm	0.4518 ppm	0.4559 ppm	0.4775 ppm	0.4559 ppm	0.4573 ppm	0.4579 ppm
Concentration per Run 1	4.8234 ppm	0.4424 ppm	0.4447 ppm	0.4781 ppm	0.4481 ppm	0.4547 ppm	0.4484 ppm
Concentration per Run 2	4.9742 ppm	0.4595 ppm	0.4607 ppm	0.4779 ppm	0.4618 ppm	0.4580 ppm	0.4652 ppm
Concentration per Run 3	4.9405 ppm	0.4536 ppm	0.4623 ppm	0.4766 ppm	0.4579 ppm	0.4591 ppm	0.4600 ppm
Recovery Percentage 1	93.575 %	90.369 %	91.182 %	95.505 %	91.185 %	91.458 %	91.576 %
Concentration RSD	1.6 %	1.9 %	2.1 %	0.2 %	1.5 %	0.5 %	1.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.2220 %	103.6956 %	103.9124 %	104.7378 %	102.8911 %	104.8118 %	0.4591 ppm
Concentration per Run 1	100.4846 %	103.5935 %	104.4167 %	107.0418 %	104.7445 %	104.7298 %	0.4473 ppm
Concentration per Run 2	98.9425 %	103.7316 %	103.7252 %	104.1037 %	101.5056 %	104.8475 %	0.4636 ppm
Concentration per Run 3	98.2390 %	103.7617 %	103.5951 %	103.0678 %	102.4233 %	104.8579 %	0.4663 ppm
Recovery Percentage 1							91.817 %
Concentration RSD	1.2 %	0.1 %	0.4 %	2.0 %	1.6 %	0.1 %	2.2 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: CCB
Analysis started at: 3/12/2025 11:47:59 PM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	-0.0008 ppm	0.0005 ppm	-0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0037 ppm
Concentration per Run 1	-0.0002 ppm	-0.0053 ppm	0.0009 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0014 ppm
Concentration per Run 2	-0.0001 ppm	-0.0027 ppm	0.0002 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0006 ppm
Concentration per Run 3	0.0002 ppm	0.0055 ppm	0.0004 ppm	-0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0090 ppm
Recovery Percentage 1	-0.665 %	-0.838 %	9.651 %	-1.115 %	0.031 %	0.236 %	3.662 %
Concentration RSD	427.5 %	668.8 %	79.6 %	45.1 %	1,868.7 %	308.6 %	126.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0002 ppm	0.0000 ppm	0.0123 ppm	0.0004 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0004 ppm	0.0000 ppm	-0.0001 ppm	0.0232 ppm	0.0027 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	-0.0002 ppm	-0.0002 ppm	-0.0003 ppm	0.0002 ppm	-0.0002 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0002 ppm	-0.0002 ppm	0.0003 ppm	0.0135 ppm	-0.0013 ppm
Recovery Percentage 1	-0.819 %	0.115 %	-1.291 %	-1.605 %	-0.062 %	0.493 %	0.396 %
Concentration RSD	70.7 %	422.6 %	237.4 %	70.8 %	942.6 %	93.6 %	518.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0003 ppm	0.0003 ppm	-0.0103 ppm	0.0000 ppm	0.0000 ppm	-0.0004 ppm	-0.0008 ppm
Concentration per Run 1	0.0000 ppm	0.0004 ppm	-0.0116 ppm	0.0000 ppm	0.0003 ppm	-0.0002 ppm	-0.0017 ppm
Concentration per Run 2	-0.0003 ppm	0.0002 ppm	-0.0105 ppm	0.0002 ppm	-0.0001 ppm	0.0000 ppm	-0.0008 ppm
Concentration per Run 3	-0.0006 ppm	0.0002 ppm	-0.0088 ppm	-0.0001 ppm	-0.0001 ppm	-0.0011 ppm	0.0001 ppm
Recovery Percentage 1	-2.873 %	0.520 %	-0.515 %	0.060 %	0.331 %	-0.878 %	-8.109 %
Concentration RSD	110.4 %	33.6 %	13.5 %	1,029.0 %	671.0 %	134.0 %	113.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0009 ppm	0.0003 ppm	-0.0001 ppm	0.0002 ppm	0.0008 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 1	-0.0009 ppm	0.0004 ppm	-0.0002 ppm	0.0002 ppm	0.0008 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run 2	-0.0008 ppm	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 3	-0.0009 ppm	0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0012 ppm	0.0000 ppm	0.0001 ppm
Recovery Percentage 1	-0.171 %	0.617 %	-0.863 %	1.733 %	3.778 %	1.361 %	0.297 %
Concentration RSD	8.9 %	75.8 %	77.8 %	102.4 %	54.5 %	75.6 %	349.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.8438 %	105.3987 %	106.0359 %	102.5960 %	108.3170 %	104.8454 %	-0.0002 ppm
Concentration per Run 1	103.3335 %	105.2228 %	105.9436 %	103.7195 %	108.9742 %	104.5675 %	0.0001 ppm
Concentration per Run 2	99.2224 %	105.4358 %	106.1190 %	101.8498 %	108.5811 %	103.8793 %	-0.0003 ppm
Concentration per Run 3	99.9756 %	105.5374 %	106.0451 %	102.2186 %	107.3959 %	106.0896 %	-0.0005 ppm
Recovery Percentage 1							-2.178 %
Concentration RSD	2.2 %	0.2 %	0.1 %	1.0 %	0.8 %	1.1 %	141.9 %

LabBook: WG2039408_03122025T6.imexp

Sample: CCV
Analysis started at: 3/12/2025 11:54:38 PM
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4757 ppm	0.4670 ppm	0.4547 ppm	0.4485 ppm	0.4457 ppm	0.4696 ppm	0.4957 ppm
Concentration per Run 1	0.4834 ppm	0.4551 ppm	0.4556 ppm	0.4499 ppm	0.4379 ppm	0.4612 ppm	0.4829 ppm
Concentration per Run 2	0.4728 ppm	0.4737 ppm	0.4541 ppm	0.4482 ppm	0.4484 ppm	0.4731 ppm	0.5031 ppm
Concentration per Run 3	0.4708 ppm	0.4721 ppm	0.4546 ppm	0.4473 ppm	0.4508 ppm	0.4745 ppm	0.5010 ppm
Recovery Percentage 1	95.134 %	93.394 %	90.948 %	89.694 %	89.133 %	93.927 %	99.130 %
Concentration RSD	1.4 %	2.2 %	0.2 %	0.3 %	1.5 %	1.6 %	2.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4522 ppm	0.4516 ppm	0.4796 ppm	0.4583 ppm	0.4789 ppm	4.9449 ppm	0.4924 ppm
Concentration per Run 1	0.4519 ppm	0.4516 ppm	0.4876 ppm	0.4633 ppm	0.4699 ppm	4.8616 ppm	0.4992 ppm
Concentration per Run 2	0.4495 ppm	0.4493 ppm	0.4756 ppm	0.4577 ppm	0.4812 ppm	4.9616 ppm	0.4904 ppm
Concentration per Run 3	0.4553 ppm	0.4540 ppm	0.4756 ppm	0.4539 ppm	0.4857 ppm	5.0114 ppm	0.4877 ppm
Recovery Percentage 1	90.447 %	90.327 %	95.915 %	91.664 %	95.788 %	98.897 %	98.482 %
Concentration RSD	0.6 %	0.5 %	1.4 %	1.0 %	1.7 %	1.5 %	1.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4652 ppm	0.4422 ppm	9.0500 ppm	0.4548 ppm	0.4570 ppm	0.4511 ppm	0.4591 ppm
Concentration per Run 1	0.4578 ppm	0.4413 ppm	8.8913 ppm	0.4547 ppm	0.4571 ppm	0.4488 ppm	0.4599 ppm
Concentration per Run 2	0.4684 ppm	0.4396 ppm	9.1003 ppm	0.4529 ppm	0.4566 ppm	0.4508 ppm	0.4582 ppm
Concentration per Run 3	0.4695 ppm	0.4457 ppm	9.1584 ppm	0.4568 ppm	0.4574 ppm	0.4538 ppm	0.4594 ppm
Recovery Percentage 1	93.048 %	88.443 %	90.500 %	90.962 %	91.408 %	90.222 %	91.829 %
Concentration RSD	1.4 %	0.7 %	1.6 %	0.4 %	0.1 %	0.6 %	0.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.9101 ppm	0.4516 ppm	0.4550 ppm	0.4823 ppm	0.4553 ppm	0.4577 ppm	0.4603 ppm
Concentration per Run 1	4.9128 ppm	0.4521 ppm	0.4467 ppm	0.4895 ppm	0.4568 ppm	0.4582 ppm	0.4600 ppm
Concentration per Run 2	4.8855 ppm	0.4498 ppm	0.4578 ppm	0.4802 ppm	0.4526 ppm	0.4564 ppm	0.4574 ppm
Concentration per Run 3	4.9320 ppm	0.4530 ppm	0.4604 ppm	0.4772 ppm	0.4566 ppm	0.4585 ppm	0.4634 ppm
Recovery Percentage 1	93.526 %	90.328 %	90.992 %	96.458 %	91.063 %	91.540 %	92.060 %
Concentration RSD	0.5 %	0.4 %	1.6 %	1.3 %	0.5 %	0.3 %	0.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.9915 %	104.2707 %	104.3743 %	104.7244 %	102.6806 %	104.5656 %	0.4562 ppm
Concentration per Run 1	101.1604 %	102.9744 %	104.2155 %	106.3227 %	102.8500 %	102.9005 %	0.4480 ppm
Concentration per Run 2	99.0510 %	104.7994 %	104.6700 %	103.7631 %	103.3341 %	105.2060 %	0.4586 ppm
Concentration per Run 3	99.7632 %	105.0382 %	104.2375 %	104.0875 %	101.8577 %	105.5904 %	0.4619 ppm
Recovery Percentage 1							91.232 %
Concentration RSD	1.1 %	1.1 %	0.2 %	1.3 %	0.7 %	1.4 %	1.6 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: CCB
Analysis started at: 3/13/2025 12:01:01 AM
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0007 ppm	-0.0001 ppm	-0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0058 ppm
Concentration per Run 1	-0.0001 ppm	0.0013 ppm	0.0000 ppm	-0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0042 ppm
Concentration per Run 2	-0.0002 ppm	0.0046 ppm	0.0000 ppm	-0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0091 ppm
Concentration per Run 3	0.0003 ppm	-0.0037 ppm	-0.0004 ppm	-0.0004 ppm	-0.0001 ppm	0.0001 ppm	0.0041 ppm
Recovery Percentage 1	0.100 %	0.739 %	-2.462 %	-1.282 %	-0.288 %	0.646 %	5.804 %
Concentration RSD	3,754.4 %	560.9 %	165.9 %	20.2 %	312.3 %	125.2 %	49.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0002 ppm	-0.0002 ppm	0.0005 ppm	0.0186 ppm	0.0008 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0003 ppm	-0.0002 ppm	0.0010 ppm	0.0303 ppm	-0.0008 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0003 ppm	-0.0002 ppm	0.0011 ppm	-0.0015 ppm	0.0022 ppm
Concentration per Run 3	-0.0001 ppm	0.0000 ppm	0.0002 ppm	-0.0002 ppm	-0.0006 ppm	0.0269 ppm	0.0009 ppm
Recovery Percentage 1	-0.510 %	-0.028 %	2.398 %	-2.060 %	1.068 %	0.742 %	0.774 %
Concentration RSD	148.3 %	1,340.2 %	32.6 %	17.2 %	176.6 %	94.1 %	196.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0004 ppm	-0.0145 ppm	-0.0001 ppm	0.0000 ppm	-0.0002 ppm	-0.0006 ppm
Concentration per Run 1	0.0003 ppm	0.0004 ppm	-0.0158 ppm	-0.0001 ppm	-0.0004 ppm	-0.0003 ppm	0.0002 ppm
Concentration per Run 2	0.0002 ppm	0.0004 ppm	-0.0130 ppm	-0.0001 ppm	0.0004 ppm	0.0000 ppm	-0.0018 ppm
Concentration per Run 3	-0.0003 ppm	0.0003 ppm	-0.0146 ppm	-0.0001 ppm	0.0001 ppm	-0.0004 ppm	-0.0001 ppm
Recovery Percentage 1	0.634 %	0.740 %	-0.724 %	-0.441 %	0.188 %	-0.397 %	-5.617 %
Concentration RSD	560.9 %	19.8 %	9.5 %	13.1 %	2,189.8 %	107.5 %	193.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0009 ppm	0.0002 ppm	0.0000 ppm	0.0001 ppm	0.0007 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 1	-0.0006 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0008 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 2	-0.0006 ppm	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0003 ppm	0.0003 ppm	-0.0001 ppm
Concentration per Run 3	-0.0014 ppm	0.0002 ppm	0.0000 ppm	-0.0002 ppm	0.0008 ppm	0.0001 ppm	0.0000 ppm
Recovery Percentage 1	-0.176 %	0.310 %	0.179 %	0.664 %	3.283 %	1.405 %	-0.683 %
Concentration RSD	56.1 %	95.0 %	247.3 %	445.1 %	40.8 %	86.3 %	80.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.6411 %	106.4683 %	106.5102 %	101.9964 %	108.5244 %	105.9635 %	0.0001 ppm
Concentration per Run 1	103.3222 %	106.0514 %	107.0054 %	103.0600 %	109.0337 %	105.4804 %	-0.0004 ppm
Concentration per Run 2	99.1643 %	106.3693 %	106.2775 %	100.9745 %	108.1224 %	105.8858 %	0.0000 ppm
Concentration per Run 3	99.4368 %	106.9841 %	106.2477 %	101.9548 %	108.4169 %	106.5243 %	0.0005 ppm
Recovery Percentage 1							0.598 %
Concentration RSD	2.3 %	0.4 %	0.4 %	1.0 %	0.4 %	0.5 %	728.0 %

ICP DataTrace 6

3/13/2025 7:06:13 AM

LabBook: WG2039408_03122025T6.imexp

Sample: LLOQ RL check
Analysis started at: 3/13/2025 12:07:41 AM
Rack: 0
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0050 ppm	0.0973 ppm	**0.0038 ppm**	0.0272 ppm	0.0092 ppm	0.0049 ppm	0.1053 ppm
Concentration per Run 1	0.0049 ppm	0.0953 ppm	0.0036 ppm	0.0274 ppm	0.0092 ppm	0.0048 ppm	0.1012 ppm
Concentration per Run 2	0.0050 ppm	0.1004 ppm	0.0035 ppm	0.0271 ppm	0.0093 ppm	0.0049 ppm	0.1069 ppm
Concentration per Run 3	0.0052 ppm	0.0962 ppm	0.0043 ppm	0.0273 ppm	0.0093 ppm	0.0049 ppm	0.1078 ppm
Recovery Percentage 1	100.638 %	97.310 %	75.911 %	90.794 %	92.398 %	97.404 %	105.310 %
Concentration RSD	2.6 %	2.8 %	**12.0 %**	0.5 %	0.7 %	0.5 %	3.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0038 ppm	0.0089 ppm	0.0100 ppm	0.0093 ppm	0.0502 ppm	2.5316 ppm	0.1038 ppm
Concentration per Run 1	0.0038 ppm	0.0088 ppm	0.0099 ppm	0.0091 ppm	0.0498 ppm	2.4805 ppm	0.1048 ppm
Concentration per Run 2	0.0037 ppm	0.0090 ppm	0.0100 ppm	0.0093 ppm	0.0497 ppm	2.5801 ppm	0.1040 ppm
Concentration per Run 3	0.0038 ppm	0.0089 ppm	0.0102 ppm	0.0094 ppm	0.0512 ppm	2.5342 ppm	0.1028 ppm
Recovery Percentage 1	94.474 %	89.098 %	100.072 %	92.677 %	100.452 %	101.265 %	103.841 %
Concentration RSD	0.8 %	0.9 %	1.6 %	1.6 %	1.7 %	2.0 %	1.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0099 ppm	0.0449 ppm	1.8783 ppm	0.0181 ppm	0.0087 ppm	0.0451 ppm	0.0088 ppm
Concentration per Run 1	0.0096 ppm	0.0450 ppm	1.8535 ppm	0.0182 ppm	0.0084 ppm	0.0464 ppm	0.0077 ppm
Concentration per Run 2	0.0099 ppm	0.0450 ppm	1.8925 ppm	0.0181 ppm	0.0091 ppm	0.0449 ppm	0.0096 ppm
Concentration per Run 3	0.0102 ppm	0.0449 ppm	1.8890 ppm	0.0180 ppm	0.0085 ppm	0.0441 ppm	0.0090 ppm
Recovery Percentage 1	99.270 %	89.884 %	93.917 %	90.375 %	86.520 %	90.268 %	87.778 %
Concentration RSD	3.3 %	0.2 %	1.2 %	0.6 %	4.9 %	2.6 %	10.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.4810 ppm	0.0459 ppm	0.0093 ppm	0.0099 ppm	0.0177 ppm	0.0095 ppm	0.0052 ppm
Concentration per Run 1	0.4797 ppm	0.0456 ppm	0.0091 ppm	0.0099 ppm	0.0180 ppm	0.0095 ppm	0.0052 ppm
Concentration per Run 2	0.4828 ppm	0.0461 ppm	0.0095 ppm	0.0101 ppm	0.0175 ppm	0.0095 ppm	0.0051 ppm
Concentration per Run 3	0.4805 ppm	0.0460 ppm	0.0093 ppm	0.0097 ppm	0.0177 ppm	0.0094 ppm	0.0052 ppm
Recovery Percentage 1	96.204 %	91.825 %	93.121 %	99.132 %	88.726 %	94.777 %	103.323 %
Concentration RSD	0.3 %	0.5 %	2.2 %	1.8 %	1.4 %	0.7 %	1.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.3052 %	105.2114 %	105.4632 %	102.4139 %	104.6070 %	105.9059 %	0.0092 ppm
Concentration per Run 1	100.3312 %	105.2102 %	105.5587 %	102.8627 %	104.6959 %	105.5902 %	0.0086 ppm
Concentration per Run 2	99.5758 %	105.2333 %	105.3857 %	102.6611 %	104.4099 %	106.0196 %	0.0095 ppm
Concentration per Run 3	98.0087 %	105.1905 %	105.4452 %	101.7179 %	104.7153 %	106.1079 %	0.0095 ppm
Recovery Percentage 1							92.200 %
Concentration RSD	1.2 %	0.0 %	0.1 %	0.6 %	0.2 %	0.3 %	5.5 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: Blank DMC Trace5
Analysis started at: 3/12/2025 5:40:15 AM
Comments <Comment>
Rack: 0
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.4 %	0.1 %	0.8 %	0.5 %	0.1 %	0.5 %	0.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	2.9 %	0.1 %	-0.2 %	0.0 %	-1.3 %	0.1 %	0.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	1.6 %	0.8 %	3.3 %	0.2 %	-0.1 %	-0.1 %	-0.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.1 %	0.0 %	0.2 %	-0.3 %	-0.2 %	-0.6 %	-0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration per Run	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration RSD	0.3 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: ICAL
Analysis started at: 3/12/2025 5:46:41 AM
Comments <Comment>
Rack: 0
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	1.0007 ppm	25.6148 ppm	1.0003 ppm	1.0002 ppm	1.0249 ppm	1.0251 ppm	10.2512 ppm
Concentration per Run 2	0.9997 ppm	24.8686 ppm	0.9999 ppm	1.0015 ppm	0.9958 ppm	0.9970 ppm	9.9585 ppm
Concentration per Run 3	0.9996 ppm	24.5166 ppm	0.9998 ppm	0.9984 ppm	0.9793 ppm	0.9779 ppm	9.7903 ppm
Concentration RSD	0.1 %	2.2 %	0.0 %	0.2 %	2.3 %	2.4 %	2.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	1.0000 ppm
Concentration per Run 1	1.0001 ppm	1.0005 ppm	1.0013 ppm	1.0014 ppm	25.6311 ppm	35.8975 ppm	1.0260 ppm
Concentration per Run 2	1.0015 ppm	1.0015 ppm	0.9958 ppm	0.9961 ppm	24.8715 ppm	34.8277 ppm	0.9930 ppm
Concentration per Run 3	0.9984 ppm	0.9979 ppm	1.0028 ppm	1.0025 ppm	24.4975 ppm	34.2748 ppm	0.9809 ppm
Concentration RSD	0.2 %	0.2 %	0.4 %	0.3 %	2.3 %	2.4 %	2.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	10.0066 ppm	1.0256 ppm	0.9976 ppm	25.6657 ppm	1.0013 ppm	1.0000 ppm	1.0001 ppm
Concentration per Run 2	9.9865 ppm	0.9948 ppm	1.0023 ppm	24.8665 ppm	1.0009 ppm	1.0017 ppm	1.0002 ppm
Concentration per Run 3	10.0069 ppm	0.9796 ppm	1.0001 ppm	24.4678 ppm	0.9979 ppm	0.9984 ppm	0.9996 ppm
Concentration RSD	0.1 %	2.3 %	0.2 %	2.4 %	0.2 %	0.2 %	0.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	1.0000 ppm	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	1.0005 ppm	10.0159 ppm	1.0022 ppm	1.0267 ppm	1.0013 ppm	1.0009 ppm	1.0000 ppm
Concentration per Run 2	1.0042 ppm	10.0005 ppm	1.0003 ppm	0.9953 ppm	0.9980 ppm	1.0022 ppm	0.9974 ppm
Concentration per Run 3	0.9953 ppm	9.9836 ppm	0.9976 ppm	0.9780 ppm	1.0007 ppm	0.9969 ppm	1.0026 ppm
Concentration RSD	0.4 %	0.2 %	0.2 %	2.5 %	0.2 %	0.3 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	1.0000 ppm	94.8877 %	96.4603 %	97.2058 %	96.6548 %	94.9056 %	98.5532 %
Concentration per Run 1	1.0005 ppm	92.5191 %	96.2957 %	96.9919 %	94.1679 %	94.7806 %	98.3584 %
Concentration per Run 2	1.0021 ppm	95.5440 %	96.5322 %	97.2969 %	97.2892 %	94.7901 %	98.7781 %
Concentration per Run 3	0.9973 ppm	96.6002 %	96.5530 %	97.3287 %	98.5073 %	95.1461 %	98.5231 %
Concentration RSD	0.2 %	2.2 %	0.1 %	0.2 %	2.3 %	0.2 %	0.2 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: ICV
Analysis started at: 3/12/2025 5:52:43 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4934 ppm	0.5041 ppm	0.4853 ppm	0.4807 ppm	0.4877 ppm	0.5079 ppm	0.5151 ppm
Concentration per Run 1	0.4949 ppm	0.5163 ppm	0.4875 ppm	0.4813 ppm	0.4993 ppm	0.5203 ppm	0.5301 ppm
Concentration per Run 2	0.4928 ppm	0.5051 ppm	0.4850 ppm	0.4805 ppm	0.4856 ppm	0.5061 ppm	0.5135 ppm
Concentration per Run 3	0.4925 ppm	0.4910 ppm	0.4833 ppm	0.4802 ppm	0.4783 ppm	0.4974 ppm	0.5017 ppm
Recovery Percentage 1	98.680 %	100.828 %	97.051 %	96.134 %	97.545 %	101.588 %	103.021 %
Concentration RSD	0.3 %	2.5 %	0.4 %	0.1 %	2.2 %	2.3 %	2.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4917 ppm	0.5022 ppm	0.4993 ppm	0.4898 ppm	0.5279 ppm	5.2029 ppm	0.5008 ppm
Concentration per Run 1	0.4927 ppm	0.5028 ppm	0.5004 ppm	0.4904 ppm	0.5420 ppm	5.3533 ppm	0.5101 ppm
Concentration per Run 2	0.4913 ppm	0.5022 ppm	0.4976 ppm	0.4887 ppm	0.5270 ppm	5.1568 ppm	0.4999 ppm
Concentration per Run 3	0.4910 ppm	0.5017 ppm	0.4999 ppm	0.4904 ppm	0.5148 ppm	5.0986 ppm	0.4923 ppm
Recovery Percentage 1	98.334 %	100.445 %	99.857 %	97.967 %	105.580 %	104.058 %	100.158 %
Concentration RSD	0.2 %	0.1 %	0.3 %	0.2 %	2.6 %	2.6 %	1.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5058 ppm	0.5026 ppm	0.4879 ppm	10.0526 ppm	0.5020 ppm	0.5037 ppm	0.4969 ppm
Concentration per Run 1	0.5071 ppm	0.5148 ppm	0.4875 ppm	10.2966 ppm	0.5028 ppm	0.5059 ppm	0.4974 ppm
Concentration per Run 2	0.5020 ppm	0.5009 ppm	0.4877 ppm	10.0117 ppm	0.5018 ppm	0.5035 ppm	0.4969 ppm
Concentration per Run 3	0.5083 ppm	0.4922 ppm	0.4886 ppm	9.8496 ppm	0.5015 ppm	0.5015 ppm	0.4963 ppm
Recovery Percentage 1	101.157 %	100.529 %	97.587 %	100.526 %	100.405 %	100.733 %	99.378 %
Concentration RSD	0.7 %	2.3 %	0.1 %	2.3 %	0.1 %	0.4 %	0.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4879 ppm	5.5671 ppm	0.5150 ppm	0.5046 ppm	0.4987 ppm	0.5068 ppm	0.4921 ppm
Concentration per Run 1	0.4870 ppm	5.5748 ppm	0.5159 ppm	0.5162 ppm	0.5003 ppm	0.5074 ppm	0.4936 ppm
Concentration per Run 2	0.4908 ppm	5.5638 ppm	0.5152 ppm	0.5025 ppm	0.4974 ppm	0.5061 ppm	0.4910 ppm
Concentration per Run 3	0.4860 ppm	5.5627 ppm	0.5139 ppm	0.4951 ppm	0.4985 ppm	0.5067 ppm	0.4919 ppm
Recovery Percentage 1	97.585 %	106.040 %	102.995 %	100.915 %	99.746 %	101.352 %	98.426 %
Concentration RSD	0.5 %	0.1 %	0.2 %	2.1 %	0.3 %	0.1 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4977 ppm	95.3610 %	98.6989 %	99.1812 %	97.0764 %	98.5735 %	100.6364 %
Concentration per Run 1	0.4987 ppm	92.7749 %	98.5975 %	99.2184 %	94.4612 %	98.4957 %	100.5081 %
Concentration per Run 2	0.4976 ppm	95.6514 %	99.1674 %	99.1794 %	97.4187 %	98.5810 %	101.1822 %
Concentration per Run 3	0.4969 ppm	97.6567 %	98.3317 %	99.1459 %	99.3493 %	98.6437 %	100.2190 %
Recovery Percentage 1	99.539 %						
Concentration RSD	0.2 %	2.6 %	0.4 %	0.0 %	2.5 %	0.1 %	0.5 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: ICB
Analysis started at: 3/12/2025 5:58:50 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	-0.0031 ppm	-0.0012 ppm	0.0017 ppm	0.0001 ppm	0.0000 ppm	-0.0012 ppm
Concentration per Run 1	0.0006 ppm	-0.0114 ppm	-0.0004 ppm	0.0017 ppm	0.0001 ppm	0.0000 ppm	0.0033 ppm
Concentration per Run 2	0.0005 ppm	-0.0004 ppm	-0.0014 ppm	0.0018 ppm	0.0001 ppm	0.0000 ppm	-0.0028 ppm
Concentration per Run 3	0.0003 ppm	0.0025 ppm	-0.0017 ppm	0.0016 ppm	0.0000 ppm	-0.0001 ppm	-0.0041 ppm
Recovery Percentage 1	6.846 %	-3.072 %	-23.717 %	5.598 %	0.905 %	-0.901 %	-1.201 %
Concentration RSD	25.8 %	239.0 %	55.5 %	4.5 %	57.4 %	164.7 %	330.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0011 ppm	0.0103 ppm	0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0003 ppm	-0.0002 ppm	0.0017 ppm	0.0148 ppm	0.0009 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0004 ppm	-0.0038 ppm	-0.0001 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0012 ppm	0.0198 ppm	-0.0002 ppm
Recovery Percentage 1	0.932 %	0.073 %	-1.031 %	-1.325 %	2.152 %	0.411 %	2.245 %
Concentration RSD	40.5 %	685.1 %	157.4 %	52.4 %	60.8 %	121.0 %	263.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0004 ppm	0.0002 ppm	0.0015 ppm	-0.0130 ppm	0.0000 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 1	-0.0010 ppm	0.0003 ppm	0.0017 ppm	-0.0111 ppm	0.0001 ppm	-0.0008 ppm	-0.0005 ppm
Concentration per Run 2	0.0007 ppm	0.0001 ppm	0.0015 ppm	-0.0094 ppm	0.0001 ppm	0.0006 ppm	-0.0007 ppm
Concentration per Run 3	-0.0007 ppm	0.0001 ppm	0.0014 ppm	-0.0184 ppm	-0.0001 ppm	0.0008 ppm	0.0009 ppm
Recovery Percentage 1	-0.353 %	1.648 %	3.009 %	-0.648 %	0.114 %	1.736 %	-0.216 %
Concentration RSD	253.2 %	48.6 %	12.2 %	37.0 %	459.0 %	508.6 %	799.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0003 ppm	0.0001 ppm	0.0002 ppm	0.0001 ppm	0.0002 ppm	0.0005 ppm	0.0000 ppm
Concentration per Run 1	-0.0013 ppm	0.0007 ppm	0.0008 ppm	0.0000 ppm	0.0004 ppm	0.0013 ppm	0.0000 ppm
Concentration per Run 2	-0.0011 ppm	-0.0006 ppm	-0.0002 ppm	0.0001 ppm	0.0002 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 3	0.0016 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0009 ppm	0.0000 ppm
Recovery Percentage 1	-3.000 %	0.029 %	0.412 %	0.503 %	2.319 %	2.567 %	-0.103 %
Concentration RSD	534.9 %	458.2 %	245.9 %	46.1 %	50.6 %	194.2 %	396.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	100.5718 %	99.9510 %	100.0044 %	101.2042 %	99.8289 %	100.5873 %
Concentration per Run 1	0.0000 ppm	99.3086 %	99.8899 %	100.0118 %	99.5708 %	99.7194 %	100.6852 %
Concentration per Run 2	0.0000 ppm	101.0583 %	99.9773 %	100.1167 %	101.6419 %	100.0757 %	100.7472 %
Concentration per Run 3	-0.0001 ppm	101.3484 %	99.9860 %	99.8849 %	102.3999 %	99.6916 %	100.3294 %
Recovery Percentage 1	-0.524 %						
Concentration RSD	211.9 %	1.1 %	0.1 %	0.1 %	1.4 %	0.2 %	0.2 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: ICV
Analysis started at: 3/12/2025 6:09:22 AM
Comments posistion change
Rack: 0
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4859 ppm	0.4834 ppm	0.4885 ppm	0.4801 ppm	0.4689 ppm	0.4911 ppm	0.4955 ppm
Concentration per Run 1	0.4865 ppm	0.4971 ppm	0.4892 ppm	0.4803 ppm	0.4769 ppm	0.5002 ppm	0.5089 ppm
Concentration per Run 2	0.4859 ppm	0.4718 ppm	0.4881 ppm	0.4799 ppm	0.4671 ppm	0.4883 ppm	0.4892 ppm
Concentration per Run 3	0.4853 ppm	0.4813 ppm	0.4882 ppm	0.4799 ppm	0.4627 ppm	0.4849 ppm	0.4885 ppm
Recovery Percentage 1	97.186 %	96.683 %	97.703 %	96.014 %	93.781 %	98.229 %	99.110 %
Concentration RSD	0.1 %	2.6 %	0.1 %	0.0 %	1.6 %	1.6 %	2.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4914 ppm	0.5016 ppm	0.5007 ppm	0.4929 ppm	0.5058 ppm	4.9964 ppm	0.4750 ppm
Concentration per Run 1	0.4920 ppm	0.5021 ppm	0.5000 ppm	0.4926 ppm	0.5163 ppm	5.1117 ppm	0.4846 ppm
Concentration per Run 2	0.4913 ppm	0.5014 ppm	0.5006 ppm	0.4933 ppm	0.5021 ppm	4.9731 ppm	0.4726 ppm
Concentration per Run 3	0.4908 ppm	0.5013 ppm	0.5016 ppm	0.4929 ppm	0.4989 ppm	4.9043 ppm	0.4679 ppm
Recovery Percentage 1	98.277 %	100.324 %	100.142 %	98.586 %	101.152 %	99.928 %	95.009 %
Concentration RSD	0.1 %	0.1 %	0.2 %	0.1 %	1.8 %	2.1 %	1.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5124 ppm	0.4823 ppm	0.4843 ppm	9.5980 ppm	0.5046 ppm	0.5058 ppm	0.5003 ppm
Concentration per Run 1	0.5155 ppm	0.4904 ppm	0.4842 ppm	9.7852 ppm	0.5055 ppm	0.5065 ppm	0.5010 ppm
Concentration per Run 2	0.5107 ppm	0.4796 ppm	0.4840 ppm	9.5472 ppm	0.5046 ppm	0.5065 ppm	0.4987 ppm
Concentration per Run 3	0.5109 ppm	0.4770 ppm	0.4848 ppm	9.4616 ppm	0.5039 ppm	0.5043 ppm	0.5012 ppm
Recovery Percentage 1	102.479 %	96.469 %	96.867 %	95.980 %	100.930 %	101.156 %	100.056 %
Concentration RSD	0.5 %	1.5 %	0.1 %	1.7 %	0.2 %	0.2 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4849 ppm	5.5669 ppm	0.4951 ppm	0.4804 ppm	0.5027 ppm	0.5058 ppm	0.4959 ppm
Concentration per Run 1	0.4824 ppm	5.5762 ppm	0.4958 ppm	0.4888 ppm	0.5023 ppm	0.5056 ppm	0.4958 ppm
Concentration per Run 2	0.4851 ppm	5.5644 ppm	0.4954 ppm	0.4786 ppm	0.5031 ppm	0.5078 ppm	0.4954 ppm
Concentration per Run 3	0.4873 ppm	5.5601 ppm	0.4940 ppm	0.4738 ppm	0.5027 ppm	0.5039 ppm	0.4963 ppm
Recovery Percentage 1	96.984 %	106.036 %	99.013 %	96.080 %	100.540 %	101.159 %	99.171 %
Concentration RSD	0.5 %	0.1 %	0.2 %	1.6 %	0.1 %	0.4 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4981 ppm	100.4333 %	99.5479 %	99.3415 %	101.6005 %	99.5095 %	101.0918 %
Concentration per Run 1	0.4987 ppm	99.3004 %	99.3337 %	99.5783 %	100.1460 %	99.4896 %	100.8882 %
Concentration per Run 2	0.4980 ppm	101.5646 %	99.7547 %	99.1605 %	102.4717 %	99.4487 %	101.2995 %
Concentration per Run 3	0.4975 ppm	100.4348 %	99.5552 %	99.2858 %	102.1837 %	99.5902 %	101.0876 %
Recovery Percentage 1	99.615 %						
Concentration RSD	0.1 %	1.1 %	0.2 %	0.2 %	1.2 %	0.1 %	0.2 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: ICB
Analysis started at: 3/12/2025 6:15:31 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	-0.0038 ppm	-0.0014 ppm	0.0014 ppm	0.0000 ppm	0.0001 ppm	-0.0035 ppm
Concentration per Run 1	0.0005 ppm	-0.0044 ppm	-0.0020 ppm	0.0016 ppm	0.0000 ppm	0.0001 ppm	0.0006 ppm
Concentration per Run 2	0.0002 ppm	-0.0025 ppm	-0.0011 ppm	0.0015 ppm	0.0001 ppm	0.0001 ppm	-0.0048 ppm
Concentration per Run 3	0.0001 ppm	-0.0044 ppm	-0.0012 ppm	0.0010 ppm	0.0000 ppm	0.0001 ppm	-0.0064 ppm
Recovery Percentage 1	3.292 %	-3.771 %	-28.322 %	4.516 %	0.257 %	1.507 %	-3.546 %
Concentration RSD	94.1 %	29.5 %	33.7 %	24.6 %	118.9 %	29.0 %	103.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0007 ppm	-0.0138 ppm	-0.0004 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0001 ppm	-0.0001 ppm	-0.0093 ppm	-0.0005 ppm
Concentration per Run 2	0.0001 ppm	-0.0002 ppm	-0.0002 ppm	0.0001 ppm	0.0008 ppm	-0.0182 ppm	-0.0006 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0009 ppm	0.0013 ppm	-0.0139 ppm	0.0000 ppm
Recovery Percentage 1	0.961 %	-0.355 %	-1.081 %	3.940 %	1.344 %	-0.552 %	-3.923 %
Concentration RSD	38.4 %	208.5 %	232.3 %	119.6 %	103.6 %	32.4 %	81.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0030 ppm	0.0001 ppm	0.0012 ppm	-0.0123 ppm	0.0001 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 1	-0.0022 ppm	-0.0001 ppm	0.0012 ppm	-0.0051 ppm	-0.0001 ppm	-0.0002 ppm	-0.0011 ppm
Concentration per Run 2	-0.0025 ppm	0.0002 ppm	0.0013 ppm	-0.0189 ppm	-0.0001 ppm	-0.0001 ppm	0.0001 ppm
Concentration per Run 3	-0.0043 ppm	0.0000 ppm	0.0010 ppm	-0.0130 ppm	0.0004 ppm	0.0002 ppm	0.0003 ppm
Recovery Percentage 1	-2.995 %	0.500 %	2.351 %	-0.616 %	0.246 %	-0.145 %	-0.469 %
Concentration RSD	37.4 %	352.2 %	15.4 %	56.0 %	445.1 %	1,525.9 %	323.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0004 ppm	-0.0006 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 1	0.0030 ppm	-0.0010 ppm	0.0000 ppm	0.0001 ppm	0.0002 ppm	-0.0005 ppm	0.0005 ppm
Concentration per Run 2	0.0007 ppm	-0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0003 ppm
Concentration per Run 3	-0.0025 ppm	-0.0005 ppm	0.0000 ppm	0.0002 ppm	-0.0001 ppm	-0.0008 ppm	-0.0003 ppm
Recovery Percentage 1	3.884 %	-0.116 %	0.061 %	0.846 %	0.657 %	-1.566 %	1.376 %
Concentration RSD	712.7 %	66.7 %	195.9 %	104.8 %	230.6 %	203.5 %	290.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0001 ppm	103.7365 %	93.8045 %	97.2115 %	103.9729 %	97.1682 %	94.2305 %
Concentration per Run 1	0.0000 ppm	102.2223 %	100.3140 %	94.1759 %	102.1923 %	93.9156 %	100.3625 %
Concentration per Run 2	0.0001 ppm	102.7269 %	101.4605 %	98.2222 %	102.5973 %	98.1425 %	101.7211 %
Concentration per Run 3	0.0001 ppm	106.2603 %	79.6391 %	99.2363 %	107.1290 %	99.4465 %	80.6079 %
Recovery Percentage 1	1.166 %						
Concentration RSD	44.0 %	2.1 %	13.1 %	2.8 %	2.6 %	3.0 %	12.5 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: LLOQ RL
Analysis started at: 3/12/2025 6:21:57 AM
Comments <Comment>
Rack: 0
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0055 ppm	0.0997 ppm	0.0035 ppm	0.0307 ppm	0.0094 ppm	0.0050 ppm	0.1010 ppm
Concentration per Run 1	0.0057 ppm	0.1031 ppm	0.0035 ppm	0.0305 ppm	0.0096 ppm	0.0051 ppm	0.1039 ppm
Concentration per Run 2	0.0053 ppm	0.1036 ppm	0.0035 ppm	0.0306 ppm	0.0094 ppm	0.0049 ppm	0.0984 ppm
Concentration per Run 3	0.0055 ppm	0.0924 ppm	0.0036 ppm	0.0309 ppm	0.0091 ppm	0.0049 ppm	0.1007 ppm
Recovery Percentage 1	110.162 %	99.695 %	70.428 %	102.255 %	93.771 %	99.451 %	100.992 %
Concentration RSD	3.2 %	6.3 %	3.0 %	0.7 %	2.5 %	2.1 %	2.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0040 ppm	0.0100 ppm	0.0102 ppm	0.0101 ppm	0.0540 ppm	2.4952 ppm	0.0097 ppm
Concentration per Run 1	0.0040 ppm	0.0100 ppm	0.0101 ppm	0.0100 ppm	0.0553 ppm	2.5729 ppm	0.0105 ppm
Concentration per Run 2	0.0040 ppm	0.0100 ppm	0.0102 ppm	0.0102 ppm	0.0531 ppm	2.4747 ppm	0.0092 ppm
Concentration per Run 3	0.0040 ppm	0.0100 ppm	0.0102 ppm	0.0101 ppm	0.0534 ppm	2.4381 ppm	0.0096 ppm
Recovery Percentage 1	100.271 %	100.129 %	102.008 %	100.972 %	107.922 %	99.810 %	97.379 %
Concentration RSD	0.2 %	0.2 %	0.8 %	1.0 %	2.2 %	2.8 %	6.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.1033 ppm	0.0100 ppm	0.0491 ppm	1.9247 ppm	0.0197 ppm	0.0103 ppm	0.0487 ppm
Concentration per Run 1	0.1009 ppm	0.0101 ppm	0.0491 ppm	1.9713 ppm	0.0198 ppm	0.0102 ppm	0.0490 ppm
Concentration per Run 2	0.1044 ppm	0.0101 ppm	0.0491 ppm	1.9071 ppm	0.0196 ppm	0.0100 ppm	0.0495 ppm
Concentration per Run 3	0.1045 ppm	0.0097 ppm	0.0491 ppm	1.8956 ppm	0.0197 ppm	0.0108 ppm	0.0475 ppm
Recovery Percentage 1	103.277 %	99.529 %	98.204 %	96.234 %	98.529 %	103.334 %	97.301 %
Concentration RSD	2.0 %	2.3 %	0.0 %	2.1 %	0.4 %	4.1 %	2.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0077 ppm	0.5395 ppm	0.0516 ppm	0.0098 ppm	0.0103 ppm	0.0203 ppm	0.0102 ppm
Concentration per Run 1	0.0069 ppm	0.5395 ppm	0.0517 ppm	0.0098 ppm	0.0102 ppm	0.0188 ppm	0.0101 ppm
Concentration per Run 2	0.0084 ppm	0.5391 ppm	0.0515 ppm	0.0097 ppm	0.0102 ppm	0.0211 ppm	0.0101 ppm
Concentration per Run 3	0.0077 ppm	0.5399 ppm	0.0515 ppm	0.0097 ppm	0.0105 ppm	0.0210 ppm	0.0105 ppm
Recovery Percentage 1	76.650 %	107.905 %	103.180 %	97.603 %	102.872 %	101.514 %	102.133 %
Concentration RSD	9.7 %	0.1 %	0.2 %	0.8 %	1.5 %	6.3 %	2.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0053 ppm	100.3425 %	100.5914 %	99.6985 %	101.1309 %	100.2898 %	101.9427 %
Concentration per Run 1	0.0053 ppm	98.6433 %	100.3844 %	99.5111 %	98.8457 %	100.1145 %	101.8662 %
Concentration per Run 2	0.0052 ppm	100.5815 %	100.7791 %	99.9140 %	101.7908 %	100.5176 %	102.1167 %
Concentration per Run 3	0.0053 ppm	101.8028 %	100.6105 %	99.6704 %	102.7561 %	100.2374 %	101.8453 %
Recovery Percentage 1	105.710 %						
Concentration RSD	1.2 %	1.6 %	0.2 %	0.2 %	2.0 %	0.2 %	0.1 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: ICSA
Analysis started at: 3/12/2025 6:28:19 AM
Comments <Comment>
Rack: 0
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0032 ppm	**485.0638 ppm**	-0.0076 ppm	-0.0147 ppm	0.0013 ppm	-0.0001 ppm	**451.1002 ppm**
Concentration per Run 1	0.0032 ppm	492.8051 ppm	-0.0049 ppm	-0.0138 ppm	0.0012 ppm	-0.0002 ppm	454.1974 ppm
Concentration per Run 2	0.0029 ppm	482.2782 ppm	-0.0092 ppm	-0.0152 ppm	0.0014 ppm	-0.0001 ppm	450.9843 ppm
Concentration per Run 3	0.0034 ppm	480.1080 ppm	-0.0087 ppm	-0.0150 ppm	0.0013 ppm	-0.0001 ppm	448.1190 ppm
Recovery Percentage 1	45.314 %	485,063.765 %	-152.706 %	-48.874 %	12.643 %	-2.764 %	451,100.217 %
Concentration RSD	6.9 %	**1.4 %**	30.7 %	5.0 %	8.3 %	17.9 %	**0.7 %**

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0075 ppm	0.0007 ppm	0.0019 ppm	0.0015 ppm	**174.6024 ppm**	0.0060 ppm	-0.0029 ppm
Concentration per Run 1	-0.0074 ppm	0.0008 ppm	0.0017 ppm	0.0018 ppm	176.6786 ppm	0.0275 ppm	-0.0023 ppm
Concentration per Run 2	-0.0077 ppm	0.0006 ppm	0.0019 ppm	0.0017 ppm	175.8753 ppm	-0.0070 ppm	-0.0030 ppm
Concentration per Run 3	-0.0075 ppm	0.0008 ppm	0.0022 ppm	0.0012 ppm	171.2533 ppm	-0.0024 ppm	-0.0035 ppm
Recovery Percentage 1	-187.875 %	3.630 %	19.181 %	15.472 %	349,204.811 %	0.241 %	-29.287 %
Concentration RSD	1.8 %	20.5 %	11.8 %	22.1 %	**1.7 %**	311.8 %	19.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	**493.6756 ppm**	0.0000 ppm	-0.0009 ppm	0.0617 ppm	-0.0032 ppm	-0.0018 ppm	0.0022 ppm
Concentration per Run 1	496.0259 ppm	-0.0001 ppm	-0.0010 ppm	0.0611 ppm	-0.0034 ppm	-0.0010 ppm	0.0036 ppm
Concentration per Run 2	495.7929 ppm	-0.0002 ppm	-0.0009 ppm	0.0595 ppm	-0.0030 ppm	-0.0031 ppm	0.0032 ppm
Concentration per Run 3	489.2082 ppm	0.0001 ppm	-0.0010 ppm	0.0646 ppm	-0.0032 ppm	-0.0013 ppm	-0.0003 ppm
Recovery Percentage 1	493,675.636 %	-0.298 %	-1.880 %	3.086 %	-12.879 %	-18.193 %	4.358 %
Concentration RSD	**0.8 %**	474.0 %	3.3 %	4.2 %	6.7 %	63.0 %	97.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0021 ppm	-0.0090 ppm	0.0032 ppm	0.0055 ppm	-0.0018 ppm	0.0026 ppm	-0.0001 ppm
Concentration per Run 1	0.0048 ppm	-0.0083 ppm	0.0025 ppm	0.0055 ppm	-0.0019 ppm	0.0011 ppm	-0.0001 ppm
Concentration per Run 2	-0.0031 ppm	-0.0085 ppm	0.0030 ppm	0.0055 ppm	-0.0017 ppm	0.0009 ppm	-0.0001 ppm
Concentration per Run 3	0.0045 ppm	-0.0103 ppm	0.0039 ppm	0.0054 ppm	-0.0018 ppm	0.0057 ppm	-0.0002 ppm
Recovery Percentage 1	20.786 %	-1.806 %	6.300 %	54.749 %	-17.666 %	12.779 %	-1.395 %
Concentration RSD	214.6 %	12.3 %	22.4 %	1.0 %	6.0 %	107.3 %	33.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0010 ppm	96.4202 %	86.8441 %	87.1353 %	96.7209 %	77.4808 %	87.8646 %
Concentration per Run 1	0.0011 ppm	94.9108 %	86.6721 %	87.1057 %	95.4656 %	77.3991 %	87.8025 %
Concentration per Run 2	0.0010 ppm	96.6523 %	86.8936 %	87.0536 %	96.8194 %	77.2029 %	87.9162 %
Concentration per Run 3	0.0011 ppm	97.6975 %	86.9665 %	87.2467 %	97.8777 %	77.8404 %	87.8750 %
Recovery Percentage 1	20.987 %						
Concentration RSD	8.0 %	1.5 %	0.2 %	0.1 %	1.3 %	0.4 %	0.1 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: SIC Multi
Analysis started at: 3/12/2025 6:50:29 AM
Comments <Comment>
Rack: 0
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0015 ppm	-0.0018 ppm	-0.0052 ppm	0.0018 ppm	0.0003 ppm	0.0031 ppm	0.0069 ppm
Concentration per Run 1	0.0015 ppm	0.0057 ppm	-0.0052 ppm	0.0017 ppm	0.0003 ppm	0.0031 ppm	0.0088 ppm
Concentration per Run 2	0.0013 ppm	-0.0074 ppm	-0.0055 ppm	0.0018 ppm	0.0003 ppm	0.0032 ppm	0.0040 ppm
Concentration per Run 3	0.0017 ppm	-0.0037 ppm	-0.0050 ppm	0.0018 ppm	0.0003 ppm	0.0029 ppm	0.0079 ppm
Recovery Percentage 1	21.528 %	-1.799 %	-104.921 %	6.006 %	3.077 %	61.816 %	6.895 %
Concentration RSD	11.5 %	377.3 %	5.0 %	3.3 %	7.6 %	4.4 %	37.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	0.0077 ppm	20.1660 ppm	-0.0032 ppm	-0.0055 ppm	0.0016 ppm	0.0001 ppm
Concentration per Run 1	-0.0001 ppm	0.0076 ppm	20.2135 ppm	-0.0030 ppm	-0.0054 ppm	-0.0167 ppm	0.0013 ppm
Concentration per Run 2	-0.0001 ppm	0.0077 ppm	20.1107 ppm	-0.0035 ppm	-0.0054 ppm	0.0267 ppm	-0.0013 ppm
Concentration per Run 3	-0.0001 ppm	0.0078 ppm	20.1739 ppm	-0.0032 ppm	-0.0057 ppm	-0.0053 ppm	0.0003 ppm
Recovery Percentage 1	-2.914 %	38.595 %	201,660.097 %	-32.452 %	-10.984 %	0.062 %	0.905 %
Concentration RSD	23.2 %	1.6 %	0.3 %	8.3 %	3.1 %	1,448.1 %	1,447.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0280 ppm	19.5014 ppm	0.0038 ppm	-0.0076 ppm	0.0005 ppm	-0.0010 ppm	0.0061 ppm
Concentration per Run 1	-0.0301 ppm	19.5853 ppm	0.0037 ppm	-0.0079 ppm	0.0005 ppm	-0.0011 ppm	0.0066 ppm
Concentration per Run 2	-0.0280 ppm	19.5682 ppm	0.0038 ppm	-0.0062 ppm	0.0005 ppm	-0.0015 ppm	0.0046 ppm
Concentration per Run 3	-0.0257 ppm	19.3508 ppm	0.0039 ppm	-0.0087 ppm	0.0006 ppm	-0.0003 ppm	0.0072 ppm
Recovery Percentage 1	-27.957 %	195,014.242 %	7.617 %	-0.381 %	2.153 %	-9.555 %	12.256 %
Concentration RSD	7.9 %	0.7 %	3.0 %	16.7 %	6.4 %	62.8 %	22.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0088 ppm	-0.0528 ppm	-0.0004 ppm	0.0001 ppm	19.7355 ppm	0.0143 ppm	10.0950 [SIC 10]
Concentration per Run 1	-0.0075 ppm	-0.0522 ppm	-0.0006 ppm	0.0001 ppm	19.7047 ppm	0.0135 ppm	9.9996 ppm
Concentration per Run 2	-0.0083 ppm	-0.0523 ppm	0.0004 ppm	0.0001 ppm	19.7146 ppm	0.0155 ppm	10.1177 ppm
Concentration per Run 3	-0.0106 ppm	-0.0539 ppm	-0.0010 ppm	0.0000 ppm	19.7872 ppm	0.0140 ppm	10.1677 ppm
Recovery Percentage 1	-88.320 %	-10.556 %	-0.846 %	1.043 %	197,355.188 %	71.698 %	100,949.936 %
Concentration RSD	18.2 %	1.9 %	169.3 %	59.3 %	0.2 %	7.2 %	0.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0010 ppm	103.3519 %	101.3998 %	98.8022 %	102.5846 %	99.3525 %	101.5150 %
Concentration per Run 1	0.0013 ppm	103.3120 %	101.7415 %	98.7149 %	102.1921 %	99.5161 %	101.7060 %
Concentration per Run 2	0.0009 ppm	102.7027 %	101.2210 %	98.9962 %	101.9228 %	99.3755 %	101.4871 %
Concentration per Run 3	0.0009 ppm	104.0410 %	101.2369 %	98.6954 %	103.6389 %	99.1660 %	101.3518 %
Recovery Percentage 1	20.763 %						
Concentration RSD	19.8 %	0.6 %	0.3 %	0.2 %	0.9 %	0.2 %	0.2 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: LDR Check
Analysis started at: 3/12/2025 6:57:18 AM
Comments <Comment>
Rack: 0
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0030 ppm	0.0658 ppm	20.7759 ppm	18.7313 ppm	18.2807 ppm	4.8521 ppm	0.0119 ppm
Concentration per Run 1	0.0029 ppm	0.0631 ppm	20.7634 ppm	18.7163 ppm	18.6968 ppm	4.9374 ppm	0.0123 ppm
Concentration per Run 2	0.0031 ppm	0.0605 ppm	20.7842 ppm	18.7479 ppm	18.1636 ppm	4.7821 ppm	0.0118 ppm
Concentration per Run 3	0.0031 ppm	0.0738 ppm	20.7800 ppm	18.7298 ppm	17.9816 ppm	4.8368 ppm	0.0117 ppm
Recovery Percentage 1	0.000 %	0.000 %	103.879 %	93.657 %	91.403 %	97.042 %	0.000 %
Concentration RSD	3.9 %	10.7 %	0.1 %	0.1 %	2.0 %	1.6 %	2.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	4.8310 ppm	4.7420 ppm	0.0018 ppm	19.8618 ppm	0.0057 ppm	493.9704 ppm	19.6105 ppm
Concentration per Run 1	4.8257 ppm	4.7348 ppm	0.0018 ppm	19.9068 ppm	0.0054 ppm	510.5380 ppm	19.9129 ppm
Concentration per Run 2	4.8331 ppm	4.7467 ppm	0.0022 ppm	19.7787 ppm	0.0065 ppm	485.9391 ppm	19.5270 ppm
Concentration per Run 3	4.8340 ppm	4.7446 ppm	0.0015 ppm	19.9000 ppm	0.0051 ppm	485.4340 ppm	19.3916 ppm
Recovery Percentage 1	96.619 %	94.840 %	0.000 %	99.309 %	0.000 %	98.794 %	98.053 %
Concentration RSD	0.1 %	0.1 %	16.6 %	0.4 %	12.8 %	2.9 %	1.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0119 ppm	0.0027 ppm	4.8534 ppm	398.7431 ppm	9.4047 ppm	48.5573 ppm	5.0993 ppm
Concentration per Run 1	-0.0117 ppm	0.0028 ppm	4.8413 ppm	421.4914 ppm	9.3962 ppm	48.5322 ppm	5.0944 ppm
Concentration per Run 2	-0.0117 ppm	0.0029 ppm	4.8546 ppm	394.0743 ppm	9.4136 ppm	48.5952 ppm	5.1031 ppm
Concentration per Run 3	-0.0122 ppm	0.0023 ppm	4.8642 ppm	380.6637 ppm	9.4043 ppm	48.5445 ppm	5.1004 ppm
Recovery Percentage 1	0.000 %	0.000 %	97.067 %	79.749 %	94.047 %	97.115 %	101.986 %
Concentration RSD	2.5 %	11.6 %	0.2 %	5.2 %	0.1 %	0.1 %	0.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	4.8583 ppm	22.2738 [SIC 100]	9.7157 ppm	4.7958 ppm	0.0050 ppm	4.3706 ppm	0.0196 ppm
Concentration per Run 1	4.8510 ppm	22.2467 ppm	9.7121 ppm	4.8575 ppm	0.0055 ppm	4.3681 ppm	0.0196 ppm
Concentration per Run 2	4.8587 ppm	22.3004 ppm	9.7196 ppm	4.7758 ppm	0.0049 ppm	4.3721 ppm	0.0197 ppm
Concentration per Run 3	4.8651 ppm	22.2744 ppm	9.7154 ppm	4.7539 ppm	0.0045 ppm	4.3715 ppm	0.0196 ppm
Recovery Percentage 1	97.166 %	111.369 %	97.157 %	95.915 %	0.000 %	87.412 %	0.000 %
Concentration RSD	0.1 %	0.1 %	0.0 %	1.1 %	9.8 %	0.1 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	19.8250 ppm	97.5114 %	88.2779 %	81.1892 %	97.7208 %	89.3770 %	89.4255 %
Concentration per Run 1	19.8177 ppm	95.8357 %	88.4143 %	81.0535 %	95.9797 %	89.4176 %	89.2832 %
Concentration per Run 2	19.8305 ppm	97.8333 %	88.2225 %	81.1967 %	98.3462 %	89.3607 %	89.4035 %
Concentration per Run 3	19.8269 ppm	98.8651 %	88.1970 %	81.3176 %	98.8365 %	89.3526 %	89.5896 %
Recovery Percentage 1	99.125 %						
Concentration RSD	0.0 %	1.6 %	0.1 %	0.2 %	1.6 %	0.0 %	0.2 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: LLOQ 0.005 AS PASS
Analysis started at: 3/12/2025 7:22:46 AM
Comments <Comment>
Rack: 1
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0056 ppm	**0.0040 ppm**	0.0055 ppm	**0.0150 ppm**	0.0047 ppm	0.0050 ppm	0.0074 ppm
Concentration per Run 1	0.0055 ppm	0.0070 ppm	0.0049 ppm	0.0153 ppm	0.0048 ppm	0.0051 ppm	0.0098 ppm
Concentration per Run 2	0.0056 ppm	0.0015 ppm	0.0056 ppm	0.0151 ppm	0.0045 ppm	0.0050 ppm	0.0039 ppm
Concentration per Run 3	0.0056 ppm	0.0034 ppm	0.0060 ppm	0.0146 ppm	0.0048 ppm	0.0050 ppm	0.0084 ppm
Recovery Percentage 1	111.570 %	79.400 %	110.212 %	299.710 %	93.777 %	100.381 %	0.000 %
Concentration RSD	0.9 %	**70.9 %**	10.1 %	**2.3 %**	3.7 %	1.1 %	42.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0050 ppm	0.0052 ppm	0.0051 ppm	0.0054 ppm	**0.0073 ppm**	0.1567 ppm	0.0065 ppm
Concentration per Run 1	0.0050 ppm	0.0050 ppm	0.0051 ppm	0.0055 ppm	0.0069 ppm	0.1830 ppm	0.0067 ppm
Concentration per Run 2	0.0050 ppm	0.0052 ppm	0.0050 ppm	0.0051 ppm	0.0071 ppm	0.1331 ppm	0.0054 ppm
Concentration per Run 3	0.0050 ppm	0.0052 ppm	0.0051 ppm	0.0054 ppm	0.0080 ppm	0.1539 ppm	0.0074 ppm
Recovery Percentage 1	99.886 %	103.055 %	101.754 %	107.216 %	146.242 %	0.000 %	0.000 %
Concentration RSD	0.2 %	2.1 %	0.9 %	3.7 %	**8.2 %**	16.0 %	15.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0076 ppm	0.0053 ppm	0.0054 ppm	0.1501 ppm	0.0055 ppm	0.0055 ppm	0.0044 ppm
Concentration per Run 1	0.0073 ppm	0.0055 ppm	0.0052 ppm	0.1541 ppm	0.0055 ppm	0.0053 ppm	0.0049 ppm
Concentration per Run 2	0.0069 ppm	0.0053 ppm	0.0056 ppm	0.1556 ppm	0.0057 ppm	0.0063 ppm	0.0043 ppm
Concentration per Run 3	0.0087 ppm	0.0050 ppm	0.0053 ppm	0.1406 ppm	0.0052 ppm	0.0050 ppm	0.0042 ppm
Recovery Percentage 1	0.000 %	105.532 %	107.205 %	0.000 %	109.425 %	110.666 %	88.894 %
Concentration RSD	12.5 %	4.7 %	3.6 %	5.5 %	4.6 %	11.9 %	9.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	**0.0024 ppm**	**0.0571 ppm**	0.0054 ppm	0.0050 ppm	0.0052 ppm	0.0060 ppm	0.0051 ppm
Concentration per Run 1	-0.0001 ppm	0.0579 ppm	0.0055 ppm	0.0049 ppm	0.0053 ppm	0.0050 ppm	0.0050 ppm
Concentration per Run 2	0.0020 ppm	0.0573 ppm	0.0054 ppm	0.0051 ppm	0.0052 ppm	0.0066 ppm	0.0052 ppm
Concentration per Run 3	0.0052 ppm	0.0560 ppm	0.0053 ppm	0.0049 ppm	0.0052 ppm	0.0064 ppm	0.0051 ppm
Recovery Percentage 1	47.366 %	1,141.714 %	108.248 %	99.710 %	104.506 %	120.027 %	102.079 %
Concentration RSD	**112.2 %**	**1.8 %**	2.2 %	2.8 %	0.5 %	15.0 %	2.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0053 ppm	103.1980 %	102.1104 %	98.5515 %	101.0830 %	100.7500 %	100.4919 %
Concentration per Run 1	0.0054 ppm	101.9417 %	102.0164 %	98.7614 %	99.7418 %	100.6914 %	100.2564 %
Concentration per Run 2	0.0053 ppm	104.2602 %	102.1457 %	98.2390 %	101.9055 %	100.5248 %	100.5431 %
Concentration per Run 3	0.0054 ppm	103.3922 %	102.1691 %	98.6540 %	101.6016 %	101.0337 %	100.6760 %
Recovery Percentage 1	106.763 %						
Concentration RSD	1.4 %	1.1 %	0.1 %	0.3 %	1.2 %	0.3 %	0.2 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: LLOQ 0.01 SE PASS
Analysis started at: 3/12/2025 7:29:08 AM
Comments <Comment>
Rack: 1
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0107 ppm	0.0093 ppm	0.0105 ppm	0.0179 ppm	0.0094 ppm	0.0101 ppm	0.0119 ppm
Concentration per Run 1	0.0110 ppm	0.0083 ppm	0.0106 ppm	0.0181 ppm	0.0096 ppm	0.0102 ppm	0.0140 ppm
Concentration per Run 2	0.0107 ppm	0.0116 ppm	0.0103 ppm	0.0178 ppm	0.0092 ppm	0.0100 ppm	0.0124 ppm
Concentration per Run 3	0.0102 ppm	0.0080 ppm	0.0107 ppm	0.0179 ppm	0.0092 ppm	0.0100 ppm	0.0095 ppm
Recovery Percentage 1	0.000 %	0.000 %	105.494 %	179.367 %	93.572 %	0.000 %	0.000 %
Concentration RSD	3.6 %	21.6 %	1.9 %	0.9 %	2.3 %	1.3 %	19.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0101 ppm	0.0103 ppm	0.0103 ppm	0.0104 ppm	0.0117 ppm	0.1594 ppm	0.0103 ppm
Concentration per Run 1	0.0101 ppm	0.0103 ppm	0.0106 ppm	0.0103 ppm	0.0125 ppm	0.1643 ppm	0.0109 ppm
Concentration per Run 2	0.0101 ppm	0.0102 ppm	0.0102 ppm	0.0106 ppm	0.0107 ppm	0.1576 ppm	0.0099 ppm
Concentration per Run 3	0.0101 ppm	0.0105 ppm	0.0102 ppm	0.0102 ppm	0.0120 ppm	0.1564 ppm	0.0101 ppm
Recovery Percentage 1	0.000 %	103.284 %	103.477 %	103.697 %	0.000 %	0.000 %	103.162 %
Concentration RSD	0.2 %	1.5 %	2.5 %	2.2 %	7.8 %	2.7 %	5.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0132 ppm	0.0103 ppm	0.0100 ppm	0.2117 ppm	0.0106 ppm	0.0110 ppm	0.0089 ppm
Concentration per Run 1	0.0142 ppm	0.0104 ppm	0.0100 ppm	0.2119 ppm	0.0108 ppm	0.0109 ppm	0.0094 ppm
Concentration per Run 2	0.0111 ppm	0.0104 ppm	0.0101 ppm	0.2128 ppm	0.0103 ppm	0.0108 ppm	0.0087 ppm
Concentration per Run 3	0.0144 ppm	0.0102 ppm	0.0099 ppm	0.2102 ppm	0.0107 ppm	0.0112 ppm	0.0086 ppm
Recovery Percentage 1	0.000 %	103.086 %	100.053 %	0.000 %	106.081 %	109.649 %	0.000 %
Concentration RSD	13.8 %	1.3 %	1.0 %	0.6 %	2.6 %	1.7 %	5.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0085 ppm	0.1153 ppm	0.0113 ppm	0.0099 ppm	0.0106 ppm	0.0107 ppm	0.0103 ppm
Concentration per Run 1	0.0067 ppm	0.1151 ppm	0.0106 ppm	0.0102 ppm	0.0107 ppm	0.0104 ppm	0.0102 ppm
Concentration per Run 2	0.0094 ppm	0.1167 ppm	0.0115 ppm	0.0099 ppm	0.0107 ppm	0.0104 ppm	0.0104 ppm
Concentration per Run 3	0.0095 ppm	0.1141 ppm	0.0116 ppm	0.0097 ppm	0.0105 ppm	0.0113 ppm	0.0104 ppm
Recovery Percentage 1	85.389 %	0.000 %	112.578 %	99.416 %	106.160 %	107.007 %	103.152 %
Concentration RSD	18.7 %	1.2 %	4.7 %	2.6 %	1.3 %	4.9 %	1.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0105 ppm	103.9904 %	101.6385 %	98.4058 %	101.6462 %	100.7187 %	101.0242 %
Concentration per Run 1	0.0106 ppm	102.0072 %	101.5176 %	98.3054 %	99.3306 %	100.8036 %	100.9218 %
Concentration per Run 2	0.0106 ppm	104.1847 %	101.8202 %	98.2207 %	102.0938 %	100.6172 %	101.1342 %
Concentration per Run 3	0.0104 ppm	105.7793 %	101.5776 %	98.6914 %	103.5142 %	100.7354 %	101.0164 %
Recovery Percentage 1	105.290 %						
Concentration RSD	0.9 %	1.8 %	0.2 %	0.3 %	2.1 %	0.1 %	0.1 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: IEC 20PPM SN SB+
Analysis started at: 3/12/2025 7:35:29 AM
Comments <Comment>
Rack: 1
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	0.0083 ppm	0.0001 ppm	0.0167 ppm	0.0003 ppm	0.0000 ppm	0.0039 ppm
Concentration per Run 1	0.0002 ppm	0.0117 ppm	-0.0002 ppm	0.0167 ppm	0.0003 ppm	0.0000 ppm	0.0014 ppm
Concentration per Run 2	0.0005 ppm	0.0029 ppm	0.0009 ppm	0.0169 ppm	0.0003 ppm	0.0000 ppm	0.0070 ppm
Concentration per Run 3	0.0005 ppm	0.0101 ppm	-0.0005 ppm	0.0164 ppm	0.0002 ppm	0.0000 ppm	0.0032 ppm
Recovery Percentage 1	5.601 %	8.255 %	1.490 %	55.506 %	2.675 %	-0.399 %	3.881 %
Concentration RSD	35.4 %	57.0 %	929.7 %	1.4 %	19.3 %	120.4 %	73.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0001 ppm	0.0039 ppm	0.0158 ppm	0.0000 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0001 ppm	0.0040 ppm	0.0040 ppm	0.0004 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0034 ppm	0.0100 ppm	0.0005 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0008 ppm	0.0000 ppm	0.0044 ppm	0.0334 ppm	-0.0008 ppm
Recovery Percentage 1	0.207 %	-0.068 %	3.911 %	1.297 %	7.846 %	0.631 %	0.278 %
Concentration RSD	216.2 %	504.1 %	91.9 %	75.6 %	12.5 %	98.4 %	2,651.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0003 ppm	0.0002 ppm	0.0002 ppm	0.0174 ppm	0.0000 ppm	0.0005 ppm	0.0000 ppm
Concentration per Run 1	0.0009 ppm	0.0002 ppm	-0.0001 ppm	0.0200 ppm	0.0000 ppm	0.0004 ppm	0.0006 ppm
Concentration per Run 2	-0.0006 ppm	0.0002 ppm	0.0004 ppm	0.0222 ppm	-0.0002 ppm	0.0004 ppm	-0.0002 ppm
Concentration per Run 3	0.0006 ppm	0.0003 ppm	0.0003 ppm	0.0099 ppm	0.0002 ppm	0.0007 ppm	-0.0004 ppm
Recovery Percentage 1	0.292 %	2.454 %	0.463 %	0.868 %	0.052 %	5.104 %	0.001 %
Concentration RSD	261.6 %	31.1 %	113.1 %	37.9 %	1,487.2 %	32.9 %	90,932.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0015 ppm	0.1373 ppm	20.2413 [SIC 20]	0.0000 ppm	0.0009 ppm	-0.0010 ppm	0.0003 ppm
Concentration per Run 1	0.0012 ppm	0.1374 ppm	20.3013 ppm	0.0000 ppm	0.0006 ppm	-0.0015 ppm	0.0003 ppm
Concentration per Run 2	-0.0029 ppm	0.1374 ppm	20.1962 ppm	0.0000 ppm	0.0012 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 3	-0.0029 ppm	0.1370 ppm	20.2262 ppm	-0.0001 ppm	0.0008 ppm	-0.0014 ppm	0.0005 ppm
Recovery Percentage 1	-15.486 %	27.455 %	40,482.513 %	-0.328 %	8.978 %	-4.918 %	3.025 %
Concentration RSD	151.1 %	0.2 %	0.3 %	87.5 %	32.1 %	76.8 %	56.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0004 ppm	96.2113 %	101.8772 %	98.4729 %	95.1146 %	101.1286 %	101.5194 %
Concentration per Run 1	0.0003 ppm	92.6606 %	101.7405 %	98.3778 %	91.5821 %	100.9584 %	101.1448 %
Concentration per Run 2	0.0004 ppm	96.2253 %	101.6911 %	98.6698 %	95.2833 %	101.4155 %	101.3486 %
Concentration per Run 3	0.0004 ppm	99.7481 %	102.2001 %	98.3712 %	98.4784 %	101.0120 %	102.0648 %
Recovery Percentage 1	7.841 %						
Concentration RSD	14.9 %	3.7 %	0.3 %	0.2 %	3.6 %	0.2 %	0.5 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: LDR 200PPM FE PASS
Analysis started at: 3/12/2025 7:41:52 AM
Comments <Comment>
Rack: 1
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0027 ppm	-0.0003 ppm	-0.0050 ppm	0.0059 ppm	0.0002 ppm	0.0000 ppm	0.0018 ppm
Concentration per Run 1	0.0028 ppm	0.0019 ppm	-0.0052 ppm	0.0060 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 2	0.0026 ppm	0.0034 ppm	-0.0056 ppm	0.0058 ppm	0.0003 ppm	-0.0001 ppm	0.0055 ppm
Concentration per Run 3	0.0027 ppm	-0.0063 ppm	-0.0043 ppm	0.0060 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm
Recovery Percentage 1	38.813 %	-0.328 %	-100.875 %	19.757 %	1.602 %	-0.744 %	1.804 %
Concentration RSD	4.6 %	1,581.9 %	13.7 %	1.2 %	55.6 %	92.6 %	178.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0028 ppm	0.0002 ppm	0.0012 ppm	-0.0009 ppm	**182.9113 ppm**	0.0192 ppm	0.0001 ppm
Concentration per Run 1	-0.0028 ppm	0.0001 ppm	0.0013 ppm	-0.0009 ppm	185.0213 ppm	0.0258 ppm	0.0006 ppm
Concentration per Run 2	-0.0027 ppm	0.0002 ppm	0.0010 ppm	-0.0010 ppm	181.0386 ppm	0.0061 ppm	-0.0008 ppm
Concentration per Run 3	-0.0029 ppm	0.0003 ppm	0.0013 ppm	-0.0008 ppm	182.6740 ppm	0.0256 ppm	0.0004 ppm
Recovery Percentage 1	-69.543 %	0.858 %	12.265 %	-8.795 %	365,822.581 %	0.767 %	0.530 %
Concentration RSD	3.1 %	62.9 %	13.1 %	9.6 %	**1.1 %**	58.9 %	1,394.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0069 ppm	0.0001 ppm	-0.0014 ppm	0.0005 ppm	-0.0055 ppm	0.0010 ppm	0.0003 ppm
Concentration per Run 1	-0.0080 ppm	0.0000 ppm	-0.0016 ppm	-0.0066 ppm	-0.0052 ppm	0.0011 ppm	0.0003 ppm
Concentration per Run 2	-0.0055 ppm	0.0001 ppm	-0.0014 ppm	0.0048 ppm	-0.0057 ppm	0.0011 ppm	0.0006 ppm
Concentration per Run 3	-0.0071 ppm	0.0001 ppm	-0.0013 ppm	0.0032 ppm	-0.0055 ppm	0.0008 ppm	-0.0002 ppm
Recovery Percentage 1	-6.865 %	0.557 %	-2.842 %	0.024 %	-21.873 %	10.057 %	0.503 %
Concentration RSD	18.3 %	95.7 %	11.2 %	1,297.3 %	4.2 %	17.1 %	158.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0044 ppm	0.0005 ppm	0.0036 ppm	0.0002 ppm	0.0000 ppm	0.0021 ppm	0.0003 ppm
Concentration per Run 1	0.0075 ppm	0.0013 ppm	0.0041 ppm	0.0003 ppm	-0.0001 ppm	0.0015 ppm	0.0004 ppm
Concentration per Run 2	0.0036 ppm	-0.0001 ppm	0.0039 ppm	0.0000 ppm	0.0001 ppm	0.0018 ppm	0.0002 ppm
Concentration per Run 3	0.0020 ppm	0.0002 ppm	0.0028 ppm	0.0002 ppm	0.0000 ppm	0.0031 ppm	0.0003 ppm
Recovery Percentage 1	43.569 %	0.095 %	7.193 %	1.626 %	-0.038 %	10.647 %	3.147 %
Concentration RSD	65.2 %	157.7 %	19.6 %	90.7 %	3,242.3 %	40.7 %	44.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0012 ppm	102.3249 %	101.0730 %	97.0940 %	101.8671 %	97.3354 %	101.3848 %
Concentration per Run 1	-0.0012 ppm	101.4494 %	99.6372 %	97.2948 %	101.0659 %	97.6891 %	99.9049 %
Concentration per Run 2	-0.0011 ppm	102.3088 %	99.7244 %	97.0139 %	102.0196 %	97.3553 %	100.0083 %
Concentration per Run 3	-0.0012 ppm	103.2166 %	103.8576 %	96.9731 %	102.5157 %	96.9618 %	104.2413 %
Recovery Percentage 1	-23.324 %						
Concentration RSD	8.8 %	0.9 %	2.4 %	0.2 %	0.7 %	0.4 %	2.4 %

LabBook: WG2039392_03122025T5.imexp

Sample: LDR 250PPM NA PASS
Analysis started at: 3/12/2025 7:48:21 AM
Comments <Comment>
Rack: 1
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0035 ppm	-0.0002 ppm	0.0049 ppm	0.0000 ppm	0.0000 ppm	0.0084 ppm
Concentration per Run 1	0.0005 ppm	0.0034 ppm	-0.0015 ppm	0.0050 ppm	0.0002 ppm	0.0000 ppm	0.0121 ppm
Concentration per Run 2	0.0001 ppm	0.0047 ppm	0.0004 ppm	0.0048 ppm	0.0000 ppm	0.0000 ppm	0.0051 ppm
Concentration per Run 3	0.0002 ppm	0.0023 ppm	0.0005 ppm	0.0048 ppm	-0.0001 ppm	0.0000 ppm	0.0079 ppm
Concentration RSD	67.6 %	34.9 %	564.5 %	2.5 %	1,065.0 %	965.2 %	42.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0706 ppm	0.1354 ppm	0.0031 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0894 ppm	0.1234 ppm	0.0021 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0005 ppm	0.0708 ppm	0.1694 ppm	0.0033 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	-0.0003 ppm	0.0003 ppm	0.0517 ppm	0.1135 ppm	0.0039 ppm
Concentration RSD	56.9 %	143.9 %	289.4 %	15.1 %	26.7 %	22.0 %	29.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0015 ppm	0.0003 ppm	0.0001 ppm	235.5200 ppm	-0.0003 ppm	0.0003 ppm	-0.0006 ppm
Concentration per Run 1	0.0007 ppm	0.0004 ppm	0.0002 ppm	247.8048 ppm	-0.0003 ppm	0.0004 ppm	-0.0006 ppm
Concentration per Run 2	0.0022 ppm	0.0002 ppm	0.0000 ppm	234.2146 ppm	-0.0002 ppm	0.0004 ppm	-0.0008 ppm
Concentration per Run 3	0.0016 ppm	0.0004 ppm	0.0001 ppm	224.5407 ppm	-0.0002 ppm	0.0002 ppm	-0.0005 ppm
Concentration RSD	48.2 %	40.4 %	70.9 %	5.0 %	33.1 %	24.5 %	20.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0048 ppm	0.0009 ppm	0.0008 ppm	0.0001 ppm	0.0000 ppm	0.0005 ppm	0.0000 ppm
Concentration per Run 1	-0.0034 ppm	0.0007 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0002 ppm
Concentration per Run 2	-0.0043 ppm	0.0010 ppm	0.0004 ppm	0.0002 ppm	0.0000 ppm	0.0010 ppm	-0.0001 ppm
Concentration per Run 3	-0.0065 ppm	0.0012 ppm	0.0013 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0002 ppm
Concentration RSD	33.3 %	28.2 %	52.5 %	100.1 %	2,188.2 %	100.8 %	512.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0005 ppm	96.9142 %	94.1478 %	93.4759 %	96.4765 %	91.8491 %	95.1487 %
Concentration per Run 1	0.0005 ppm	93.8224 %	94.3366 %	93.6433 %	92.9844 %	91.7813 %	95.2333 %
Concentration per Run 2	0.0005 ppm	97.4092 %	94.0891 %	93.4663 %	97.1738 %	91.9101 %	95.0576 %
Concentration per Run 3	0.0005 ppm	99.5109 %	94.0178 %	93.3183 %	99.2713 %	91.8559 %	95.1554 %
Concentration RSD	8.7 %	3.0 %	0.2 %	0.2 %	3.3 %	0.1 %	0.1 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: IEC 20PPM CR SB+
Analysis started at: 3/12/2025 7:54:54 AM
Comments <Comment>
Rack: 1
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	-0.0043 ppm	-0.0056 ppm	0.0040 ppm	0.0001 ppm	0.0000 ppm	0.0106 ppm
Concentration per Run 1	0.0000 ppm	-0.0040 ppm	-0.0060 ppm	0.0041 ppm	0.0002 ppm	-0.0001 ppm	0.0088 ppm
Concentration per Run 2	0.0007 ppm	-0.0047 ppm	-0.0054 ppm	0.0042 ppm	0.0000 ppm	0.0000 ppm	0.0115 ppm
Concentration per Run 3	0.0008 ppm	-0.0042 ppm	-0.0054 ppm	0.0036 ppm	0.0002 ppm	0.0000 ppm	0.0115 ppm
Recovery Percentage 1	7.449 %	-4.301 %	-112.071 %	13.198 %	1.377 %	-0.126 %	10.598 %
Concentration RSD	79.2 %	7.8 %	6.1 %	8.9 %	91.5 %	1,043.1 %	14.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	**20.4911 ppm**	0.0003 ppm	0.0351 ppm	0.0702 ppm	0.0018 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	20.5492 ppm	0.0002 ppm	0.0350 ppm	0.0679 ppm	0.0020 ppm
Concentration per Run 2	-0.0001 ppm	0.0001 ppm	20.4276 ppm	0.0006 ppm	0.0337 ppm	0.0645 ppm	0.0017 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	20.4965 ppm	0.0003 ppm	0.0365 ppm	0.0782 ppm	0.0018 ppm
Recovery Percentage 1	-0.922 %	0.666 %	204,911.064 %	3.482 %	70.203 %	2.808 %	18.110 %
Concentration RSD	79.9 %	50.0 %	**0.3 %**	61.8 %	4.0 %	10.1 %	9.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0014 ppm	0.0008 ppm	0.0005 ppm	0.0816 ppm	0.0000 ppm	-0.0026 ppm	0.0000 ppm
Concentration per Run 1	0.0024 ppm	0.0006 ppm	0.0004 ppm	0.0823 ppm	0.0000 ppm	-0.0025 ppm	-0.0005 ppm
Concentration per Run 2	-0.0019 ppm	0.0006 ppm	0.0005 ppm	0.0800 ppm	0.0000 ppm	-0.0024 ppm	-0.0008 ppm
Concentration per Run 3	0.0037 ppm	0.0011 ppm	0.0005 ppm	0.0824 ppm	0.0000 ppm	-0.0030 ppm	0.0012 ppm
Recovery Percentage 1	1.362 %	7.593 %	0.929 %	4.078 %	0.114 %	-26.425 %	-0.086 %
Concentration RSD	215.2 %	33.5 %	13.2 %	1.6 %	60.7 %	11.7 %	2,458.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0049 ppm	0.0069 ppm	-0.0011 ppm	0.0002 ppm	-0.0008 ppm	-0.0024 ppm	-0.0094 ppm
Concentration per Run 1	0.0040 ppm	0.0071 ppm	-0.0011 ppm	0.0001 ppm	-0.0009 ppm	-0.0029 ppm	-0.0089 ppm
Concentration per Run 2	0.0048 ppm	0.0064 ppm	-0.0011 ppm	0.0002 ppm	-0.0008 ppm	-0.0025 ppm	-0.0097 ppm
Concentration per Run 3	0.0058 ppm	0.0074 ppm	-0.0012 ppm	0.0003 ppm	-0.0006 ppm	-0.0019 ppm	-0.0097 ppm
Recovery Percentage 1	48.772 %	1.389 %	-2.287 %	1.969 %	-7.612 %	-12.093 %	-94.398 %
Concentration RSD	18.6 %	7.0 %	7.3 %	42.2 %	21.9 %	19.7 %	4.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0038 ppm	94.9293 %	100.7136 %	98.0835 %	93.2654 %	100.0130 %	100.7077 %
Concentration per Run 1	0.0040 ppm	91.7551 %	100.4480 %	98.0592 %	89.4323 %	100.1473 %	100.6404 %
Concentration per Run 2	0.0037 ppm	94.9009 %	101.0001 %	97.9624 %	93.5660 %	99.8547 %	100.8218 %
Concentration per Run 3	0.0038 ppm	98.1318 %	100.6928 %	98.2291 %	96.7978 %	100.0370 %	100.6609 %
Recovery Percentage 1	76.460 %						
Concentration RSD	4.9 %	3.4 %	0.3 %	0.1 %	4.0 %	0.1 %	0.1 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: CCV
Analysis started at: 3/12/2025 8:33:31 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5030 ppm	0.4984 ppm	0.4925 ppm	0.4859 ppm	0.4796 ppm	0.5243 ppm	0.5080 ppm
Concentration per Run 1	0.5021 ppm	0.4997 ppm	0.4933 ppm	0.4862 ppm	0.4862 ppm	0.5318 ppm	0.5122 ppm
Concentration per Run 2	0.5039 ppm	0.4994 ppm	0.4932 ppm	0.4868 ppm	0.4809 ppm	0.5263 ppm	0.5142 ppm
Concentration per Run 3	0.5029 ppm	0.4960 ppm	0.4911 ppm	0.4846 ppm	0.4716 ppm	0.5147 ppm	0.4975 ppm
Recovery Percentage 1	100.595 %	99.670 %	98.504 %	97.173 %	95.918 %	104.858 %	101.593 %
Concentration RSD	0.2 %	0.4 %	0.3 %	0.2 %	1.5 %	1.7 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4852 ppm	0.4949 ppm	0.4899 ppm	0.4843 ppm	0.5121 ppm	5.2688 ppm	0.5088 ppm
Concentration per Run 1	0.4859 ppm	0.4952 ppm	0.4913 ppm	0.4850 ppm	0.5201 ppm	5.3624 ppm	0.5159 ppm
Concentration per Run 2	0.4861 ppm	0.4959 ppm	0.4896 ppm	0.4849 ppm	0.5155 ppm	5.2906 ppm	0.5108 ppm
Concentration per Run 3	0.4836 ppm	0.4935 ppm	0.4887 ppm	0.4829 ppm	0.5007 ppm	5.1534 ppm	0.4995 ppm
Recovery Percentage 1	97.047 %	98.977 %	97.972 %	96.861 %	102.419 %	105.376 %	101.754 %
Concentration RSD	0.3 %	0.3 %	0.3 %	0.2 %	2.0 %	2.0 %	1.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5269 ppm	0.5038 ppm	0.4718 ppm	9.7770 ppm	0.5118 ppm	0.5167 ppm	0.5001 ppm
Concentration per Run 1	0.5296 ppm	0.5123 ppm	0.4706 ppm	9.9215 ppm	0.5126 ppm	0.5169 ppm	0.5002 ppm
Concentration per Run 2	0.5248 ppm	0.5058 ppm	0.4729 ppm	9.8165 ppm	0.5130 ppm	0.5172 ppm	0.5003 ppm
Concentration per Run 3	0.5262 ppm	0.4935 ppm	0.4719 ppm	9.5932 ppm	0.5099 ppm	0.5161 ppm	0.4999 ppm
Recovery Percentage 1	105.381 %	100.766 %	94.356 %	97.770 %	102.365 %	103.344 %	100.027 %
Concentration RSD	0.5 %	1.9 %	0.2 %	1.7 %	0.3 %	0.1 %	0.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4710 ppm	5.6708 ppm	0.5413 ppm	0.5014 ppm	0.5094 ppm	0.4993 ppm	0.4961 ppm
Concentration per Run 1	0.4710 ppm	5.6736 ppm	0.5424 ppm	0.5093 ppm	0.5092 ppm	0.4980 ppm	0.4966 ppm
Concentration per Run 2	0.4731 ppm	5.6861 ppm	0.5417 ppm	0.5032 ppm	0.5102 ppm	0.5041 ppm	0.4970 ppm
Concentration per Run 3	0.4690 ppm	5.6527 ppm	0.5399 ppm	0.4918 ppm	0.5086 ppm	0.4958 ppm	0.4947 ppm
Recovery Percentage 1	94.209 %	108.015 %	108.262 %	100.289 %	101.871 %	99.858 %	99.215 %
Concentration RSD	0.4 %	0.3 %	0.2 %	1.8 %	0.2 %	0.9 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5000 ppm	99.3172 %	100.4021 %	95.5048 %	96.7755 %	98.3083 %	100.0004 %
Concentration per Run 1	0.5006 ppm	97.9509 %	100.2599 %	95.4578 %	95.0825 %	98.2687 %	99.8820 %
Concentration per Run 2	0.5008 ppm	98.4988 %	100.5488 %	95.4426 %	96.1578 %	98.0999 %	99.9904 %
Concentration per Run 3	0.4985 ppm	101.5020 %	100.3977 %	95.6142 %	99.0863 %	98.5563 %	100.1287 %
Recovery Percentage 1	99.993 %						
Concentration RSD	0.3 %	1.9 %	0.1 %	0.1 %	2.1 %	0.2 %	0.1 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: CCB
Analysis started at: 3/12/2025 8:39:37 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	-0.0029 ppm	-0.0007 ppm	0.0019 ppm	-0.0001 ppm	0.0000 ppm	-0.0009 ppm
Concentration per Run 1	0.0006 ppm	-0.0020 ppm	-0.0015 ppm	0.0021 ppm	0.0000 ppm	0.0000 ppm	-0.0034 ppm
Concentration per Run 2	0.0003 ppm	-0.0025 ppm	0.0004 ppm	0.0018 ppm	-0.0002 ppm	0.0000 ppm	-0.0004 ppm
Concentration per Run 3	0.0004 ppm	-0.0042 ppm	-0.0012 ppm	0.0017 ppm	0.0000 ppm	0.0000 ppm	0.0012 ppm
Recovery Percentage 1	6.431 %	-2.926 %	-14.918 %	6.259 %	-0.534 %	-0.338 %	-0.853 %
Concentration RSD	28.6 %	39.6 %	139.2 %	10.1 %	219.1 %	199.2 %	275.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0005 ppm	0.0009 ppm	0.0099 ppm	0.0000 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0004 ppm	0.0001 ppm	0.0133 ppm	0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0005 ppm	0.0014 ppm	0.0092 ppm	0.0002 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0005 ppm	0.0011 ppm	0.0070 ppm	-0.0002 ppm
Recovery Percentage 1	0.568 %	0.045 %	-1.586 %	4.699 %	1.716 %	0.395 %	0.217 %
Concentration RSD	37.1 %	144.3 %	87.8 %	17.2 %	82.3 %	32.5 %	791.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0014 ppm	0.0000 ppm	0.0011 ppm	-0.0033 ppm	-0.0001 ppm	-0.0001 ppm	-0.0005 ppm
Concentration per Run 1	-0.0023 ppm	0.0001 ppm	0.0014 ppm	-0.0008 ppm	-0.0001 ppm	-0.0002 ppm	-0.0007 ppm
Concentration per Run 2	-0.0030 ppm	0.0000 ppm	0.0010 ppm	-0.0045 ppm	0.0000 ppm	-0.0001 ppm	-0.0006 ppm
Concentration per Run 3	0.0012 ppm	-0.0002 ppm	0.0007 ppm	-0.0047 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm
Recovery Percentage 1	-1.362 %	-0.318 %	2.107 %	-0.166 %	-0.246 %	-1.098 %	-0.935 %
Concentration RSD	164.1 %	425.3 %	31.0 %	66.7 %	42.7 %	53.6 %	62.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0019 ppm	-0.0004 ppm	0.0002 ppm	0.0001 ppm	0.0002 ppm	0.0006 ppm	0.0001 ppm
Concentration per Run 1	-0.0026 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0013 ppm	0.0000 ppm
Concentration per Run 2	0.0013 ppm	-0.0007 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0001 ppm
Concentration per Run 3	-0.0042 ppm	-0.0005 ppm	0.0003 ppm	0.0001 ppm	0.0004 ppm	0.0005 ppm	0.0001 ppm
Recovery Percentage 1	-18.630 %	-0.079 %	0.311 %	1.083 %	1.528 %	2.988 %	0.689 %
Concentration RSD	150.9 %	87.8 %	75.9 %	31.2 %	130.5 %	116.0 %	82.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0001 ppm	103.8067 %	101.1511 %	96.4958 %	100.3142 %	99.1767 %	99.5096 %
Concentration per Run 1	0.0001 ppm	102.2167 %	101.2610 %	96.6038 %	98.7339 %	99.4802 %	99.6837 %
Concentration per Run 2	0.0000 ppm	104.4658 %	101.0770 %	96.2324 %	100.7501 %	98.8918 %	99.2891 %
Concentration per Run 3	0.0001 ppm	104.7377 %	101.1154 %	96.6511 %	101.4585 %	99.1580 %	99.5561 %
Recovery Percentage 1	1.014 %						
Concentration RSD	92.4 %	1.3 %	0.1 %	0.2 %	1.4 %	0.3 %	0.2 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: L2513465-01 WG2039008
Analysis started at: 3/12/2025 8:56:42 AM
Comments <Comment>
Rack: 1
Vial: 26

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	0.0301 ppm	0.1268 ppm	0.0197 ppm	0.0486 ppm	-0.0001 ppm	52.3266 ppm
Concentration per Run 1	0.0006 ppm	0.0248 ppm	0.1282 ppm	0.0199 ppm	0.0500 ppm	0.0000 ppm	54.0645 ppm
Concentration per Run 2	0.0005 ppm	0.0342 ppm	0.1253 ppm	0.0195 ppm	0.0483 ppm	0.0000 ppm	51.8769 ppm
Concentration per Run 3	0.0004 ppm	0.0314 ppm	0.1270 ppm	0.0197 ppm	0.0475 ppm	-0.0001 ppm	51.0384 ppm
Concentration RSD	25.9 %	16.0 %	1.1 %	0.9 %	2.7 %	47.1 %	3.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0002 ppm	0.0008 ppm	0.0022 ppm	0.0094 ppm	1.9428 ppm	73.2930 ppm	0.2086 ppm
Concentration per Run 1	-0.0002 ppm	0.0009 ppm	0.0022 ppm	0.0094 ppm	2.0010 ppm	75.6779 ppm	0.2133 ppm
Concentration per Run 2	-0.0002 ppm	0.0009 ppm	0.0022 ppm	0.0096 ppm	1.9320 ppm	72.7753 ppm	0.2083 ppm
Concentration per Run 3	-0.0002 ppm	0.0006 ppm	0.0022 ppm	0.0094 ppm	1.8953 ppm	71.4257 ppm	0.2042 ppm
Concentration RSD	5.8 %	21.1 %	0.6 %	1.2 %	2.8 %	3.0 %	2.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	12.7041 ppm	0.0806 ppm	0.0166 ppm	124.5597 ppm	0.0049 ppm	0.0007 ppm	0.0068 ppm
Concentration per Run 1	12.7282 ppm	0.0833 ppm	0.0164 ppm	128.8553 ppm	0.0050 ppm	0.0001 ppm	0.0072 ppm
Concentration per Run 2	12.7047 ppm	0.0797 ppm	0.0164 ppm	123.8039 ppm	0.0046 ppm	0.0011 ppm	0.0059 ppm
Concentration per Run 3	12.6794 ppm	0.0789 ppm	0.0170 ppm	121.0201 ppm	0.0051 ppm	0.0011 ppm	0.0074 ppm
Concentration RSD	0.2 %	2.9 %	2.0 %	3.2 %	4.8 %	80.8 %	11.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0004 ppm	12.5266 ppm	0.0002 ppm	0.4541 ppm	0.0005 ppm	-0.0003 ppm	0.0013 ppm
Concentration per Run 1	-0.0037 ppm	12.5909 ppm	-0.0002 ppm	0.4678 ppm	0.0003 ppm	0.0003 ppm	0.0015 ppm
Concentration per Run 2	0.0025 ppm	12.4830 ppm	0.0003 ppm	0.4511 ppm	0.0004 ppm	-0.0006 ppm	0.0011 ppm
Concentration per Run 3	0.0025 ppm	12.5059 ppm	0.0005 ppm	0.4435 ppm	0.0007 ppm	-0.0007 ppm	0.0012 ppm
Concentration RSD	889.6 %	0.5 %	169.7 %	2.7 %	35.2 %	191.6 %	14.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0520 ppm	100.3888 %	96.5093 %	90.8803 %	97.3290 %	91.5033 %	95.9264 %
Concentration per Run 1	0.0522 ppm	97.3149 %	96.4530 %	90.3182 %	94.0251 %	91.1223 %	95.8047 %
Concentration per Run 2	0.0518 ppm	100.8617 %	96.4061 %	91.0528 %	97.9589 %	91.7366 %	95.7972 %
Concentration per Run 3	0.0519 ppm	102.9899 %	96.6689 %	91.2699 %	100.0029 %	91.6511 %	96.1772 %
Concentration RSD	0.4 %	2.9 %	0.1 %	0.5 %	3.1 %	0.4 %	0.2 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: eL2512350-01 WG2039008
Analysis started at: 3/12/2025 9:03:06 AM
Comments <Comment>
Rack: 1
Vial: 25

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0009 ppm	0.0297 ppm	0.0050 ppm	35.4070 [SIC 20]	0.0251 ppm	-0.0001 ppm	8.1306 ppm
Concentration per Run 1	0.0013 ppm	0.0325 ppm	0.0041 ppm	35.5165 ppm	0.0265 ppm	0.0000 ppm	8.5539 ppm
Concentration per Run 2	0.0010 ppm	0.0283 ppm	0.0067 ppm	35.1453 ppm	0.0243 ppm	-0.0001 ppm	7.8923 ppm
Concentration per Run 3	0.0006 ppm	0.0283 ppm	0.0041 ppm	35.5592 ppm	0.0244 ppm	-0.0001 ppm	7.9455 ppm
Concentration RSD	36.5 %	8.2 %	30.7 %	0.6 %	4.9 %	91.0 %	4.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0004 ppm	0.0161 ppm	0.3802 ppm	0.3409 ppm	1.3809 ppm	72.6563 ppm	0.0034 ppm
Concentration per Run 1	0.0004 ppm	0.0160 ppm	0.3831 ppm	0.3445 ppm	1.4457 ppm	76.3840 ppm	0.0036 ppm
Concentration per Run 2	0.0004 ppm	0.0162 ppm	0.3762 ppm	0.3371 ppm	1.3456 ppm	70.7405 ppm	0.0026 ppm
Concentration per Run 3	0.0004 ppm	0.0161 ppm	0.3815 ppm	0.3412 ppm	1.3516 ppm	70.8444 ppm	0.0041 ppm
Concentration RSD	5.1 %	0.6 %	0.9 %	1.1 %	4.1 %	4.4 %	21.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	5.7908 ppm	0.1910 ppm	0.0392 ppm	141.6866 ppm	0.4466 ppm	0.0265 ppm	-0.0008 ppm
Concentration per Run 1	5.8501 ppm	0.2010 ppm	0.0390 ppm	149.2862 ppm	0.4479 ppm	0.0267 ppm	0.0005 ppm
Concentration per Run 2	5.7252 ppm	0.1858 ppm	0.0393 ppm	137.1006 ppm	0.4437 ppm	0.0265 ppm	-0.0017 ppm
Concentration per Run 3	5.7972 ppm	0.1861 ppm	0.0393 ppm	138.6731 ppm	0.4481 ppm	0.0264 ppm	-0.0010 ppm
Concentration RSD	1.1 %	4.5 %	0.3 %	4.7 %	0.6 %	0.6 %	145.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0027 ppm	4.5242 ppm	0.0045 ppm	0.0871 ppm	-0.0001 ppm	-0.0025 ppm	0.0097 ppm
Concentration per Run 1	-0.0035 ppm	4.5391 ppm	0.0045 ppm	0.0914 ppm	0.0000 ppm	-0.0030 ppm	0.0101 ppm
Concentration per Run 2	0.0007 ppm	4.4925 ppm	0.0047 ppm	0.0847 ppm	0.0001 ppm	-0.0038 ppm	0.0094 ppm
Concentration per Run 3	-0.0054 ppm	4.5411 ppm	0.0042 ppm	0.0851 ppm	-0.0006 ppm	-0.0008 ppm	0.0098 ppm
Concentration RSD	114.4 %	0.6 %	5.4 %	4.3 %	279.9 %	61.2 %	3.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	1.4353 ppm	102.5143 %	96.2753 %	91.3313 %	97.2530 %	89.6172 %	94.1360 %
Concentration per Run 1	1.4403 ppm	98.7374 %	95.5451 %	91.3141 %	92.8285 %	89.5196 %	93.2040 %
Concentration per Run 2	1.4253 ppm	104.9741 %	97.2189 %	91.6184 %	100.0022 %	90.1252 %	95.2362 %
Concentration per Run 3	1.4402 ppm	103.8314 %	96.0618 %	91.0614 %	98.9283 %	89.2068 %	93.9677 %
Concentration RSD	0.6 %	3.2 %	0.9 %	0.3 %	4.0 %	0.5 %	1.1 %

LabBook: WG2039392_03122025T5.imexp

Sample: L2512121-01 WG2039008
Analysis started at: 3/12/2025 9:09:26 AM
Comments <Comment>
Rack: 1
Vial: 12

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0082 ppm	-0.0011 ppm	0.0439 ppm	0.0063 ppm	0.0000 ppm	8.8801 ppm
Concentration per Run 1	0.0004 ppm	0.0077 ppm	-0.0011 ppm	0.0472 ppm	0.0066 ppm	0.0000 ppm	9.3107 ppm
Concentration per Run 2	0.0004 ppm	0.0111 ppm	-0.0009 ppm	0.0437 ppm	0.0062 ppm	0.0000 ppm	8.7651 ppm
Concentration per Run 3	0.0002 ppm	0.0058 ppm	-0.0014 ppm	0.0408 ppm	0.0061 ppm	-0.0001 ppm	8.5646 ppm
Concentration RSD	31.4 %	32.6 %	23.8 %	7.3 %	4.5 %	44.7 %	4.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0011 ppm	0.0005 ppm	0.0009 ppm	1.1192 ppm	1.0341 ppm	-0.0003 ppm
Concentration per Run 1	0.0000 ppm	0.0012 ppm	0.0004 ppm	0.0009 ppm	1.1707 ppm	1.0803 ppm	-0.0008 ppm
Concentration per Run 2	0.0000 ppm	0.0011 ppm	0.0007 ppm	0.0009 ppm	1.1089 ppm	1.0364 ppm	-0.0008 ppm
Concentration per Run 3	0.0000 ppm	0.0011 ppm	0.0003 ppm	0.0009 ppm	1.0780 ppm	0.9856 ppm	0.0008 ppm
Concentration RSD	34.4 %	1.9 %	53.9 %	2.0 %	4.2 %	4.6 %	339.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.6447 ppm	0.0123 ppm	0.0001 ppm	11.1208 ppm	0.0019 ppm	0.0004 ppm	-0.0008 ppm
Concentration per Run 1	0.6439 ppm	0.0132 ppm	0.0000 ppm	11.6499 ppm	0.0019 ppm	0.0005 ppm	-0.0009 ppm
Concentration per Run 2	0.6462 ppm	0.0120 ppm	0.0000 ppm	11.0149 ppm	0.0021 ppm	0.0006 ppm	-0.0002 ppm
Concentration per Run 3	0.6439 ppm	0.0117 ppm	0.0002 ppm	10.6975 ppm	0.0019 ppm	0.0001 ppm	-0.0012 ppm
Concentration RSD	0.2 %	6.2 %	96.1 %	4.4 %	6.3 %	61.3 %	64.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0009 ppm	1.7031 ppm	0.0003 ppm	0.0209 ppm	0.0011 ppm	0.0002 ppm	0.0015 ppm
Concentration per Run 1	-0.0011 ppm	1.7072 ppm	0.0006 ppm	0.0218 ppm	0.0011 ppm	-0.0012 ppm	0.0017 ppm
Concentration per Run 2	-0.0011 ppm	1.7010 ppm	0.0002 ppm	0.0207 ppm	0.0010 ppm	0.0008 ppm	0.0015 ppm
Concentration per Run 3	-0.0006 ppm	1.7011 ppm	0.0003 ppm	0.0202 ppm	0.0012 ppm	0.0009 ppm	0.0014 ppm
Concentration RSD	35.0 %	0.2 %	59.1 %	3.9 %	11.3 %	700.1 %	9.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0015 ppm	104.8505 %	103.4692 %	97.0498 %	100.7203 %	100.3291 %	102.3526 %
Concentration per Run 1	0.0015 ppm	100.8571 %	103.4762 %	97.0905 %	96.2095 %	100.3004 %	102.3722 %
Concentration per Run 2	0.0014 ppm	105.3595 %	103.3401 %	97.0530 %	101.6170 %	100.4626 %	102.1872 %
Concentration per Run 3	0.0014 ppm	108.3350 %	103.5912 %	97.0059 %	104.3343 %	100.2242 %	102.4983 %
Concentration RSD	2.7 %	3.6 %	0.1 %	0.0 %	4.1 %	0.1 %	0.2 %

LabBook: WG2039392_03122025T5.imexp

Sample: L2512121-02 WG2039008
Analysis started at: 3/12/2025 9:15:48 AM
Comments <Comment>
Rack: 1
Vial: 13

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	0.0325 ppm	-0.0009 ppm	0.0263 ppm	0.0066 ppm	0.0000 ppm	2.6311 ppm
Concentration per Run 1	0.0001 ppm	0.0358 ppm	-0.0007 ppm	0.0271 ppm	0.0067 ppm	0.0000 ppm	2.7264 ppm
Concentration per Run 2	0.0007 ppm	0.0299 ppm	-0.0016 ppm	0.0260 ppm	0.0066 ppm	0.0000 ppm	2.6153 ppm
Concentration per Run 3	0.0008 ppm	0.0319 ppm	-0.0002 ppm	0.0258 ppm	0.0064 ppm	-0.0001 ppm	2.5516 ppm
Concentration RSD	71.2 %	9.3 %	84.0 %	2.6 %	2.9 %	400.7 %	3.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0009 ppm	0.1082 ppm	1.0150 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0008 ppm	0.1130 ppm	1.0447 ppm	0.0008 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0010 ppm	0.1081 ppm	1.0160 ppm	-0.0002 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	-0.0003 ppm	0.0009 ppm	0.1034 ppm	0.9842 ppm	-0.0002 ppm
Concentration RSD	186.5 %	93.8 %	175.7 %	9.0 %	4.5 %	3.0 %	455.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.6157 ppm	0.0129 ppm	0.0001 ppm	11.3147 ppm	0.0002 ppm	0.0001 ppm	-0.0011 ppm
Concentration per Run 1	0.6143 ppm	0.0131 ppm	0.0001 ppm	11.7143 ppm	0.0003 ppm	-0.0004 ppm	-0.0004 ppm
Concentration per Run 2	0.6169 ppm	0.0128 ppm	0.0001 ppm	11.2473 ppm	0.0002 ppm	0.0000 ppm	-0.0020 ppm
Concentration per Run 3	0.6160 ppm	0.0128 ppm	0.0002 ppm	10.9825 ppm	0.0002 ppm	0.0006 ppm	-0.0008 ppm
Concentration RSD	0.2 %	1.4 %	33.6 %	3.3 %	27.0 %	885.3 %	80.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0018 ppm	1.8439 ppm	-0.0001 ppm	0.0178 ppm	0.0003 ppm	0.0005 ppm	0.0002 ppm
Concentration per Run 1	-0.0028 ppm	1.8529 ppm	-0.0005 ppm	0.0186 ppm	0.0005 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 2	-0.0012 ppm	1.8387 ppm	-0.0002 ppm	0.0176 ppm	0.0002 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 3	-0.0014 ppm	1.8401 ppm	0.0003 ppm	0.0173 ppm	0.0001 ppm	0.0013 ppm	0.0002 ppm
Concentration RSD	47.8 %	0.4 %	275.4 %	3.9 %	76.6 %	153.0 %	64.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0010 ppm	104.1968 %	103.0632 %	96.9437 %	99.9598 %	100.3391 %	102.0834 %
Concentration per Run 1	0.0010 ppm	101.4021 %	103.2545 %	96.9453 %	96.4400 %	99.9791 %	102.2184 %
Concentration per Run 2	0.0011 ppm	105.1268 %	102.6724 %	96.8541 %	100.9545 %	100.3347 %	101.7900 %
Concentration per Run 3	0.0010 ppm	106.0615 %	103.2627 %	97.0316 %	102.4848 %	100.7034 %	102.2418 %
Concentration RSD	4.2 %	2.4 %	0.3 %	0.1 %	3.1 %	0.4 %	0.2 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: L2512121-03 WG2039008
Analysis started at: 3/12/2025 9:22:06 AM
Comments <Comment>
Rack: 1
Vial: 14

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	0.0363 ppm	-0.0011 ppm	0.0207 ppm	0.0063 ppm	0.0000 ppm	8.8037 ppm
Concentration per Run 1	0.0008 ppm	0.0427 ppm	-0.0018 ppm	0.0210 ppm	0.0064 ppm	-0.0001 ppm	8.9673 ppm
Concentration per Run 2	0.0002 ppm	0.0351 ppm	-0.0013 ppm	0.0208 ppm	0.0062 ppm	0.0000 ppm	8.7348 ppm
Concentration per Run 3	0.0006 ppm	0.0312 ppm	-0.0001 ppm	0.0202 ppm	0.0063 ppm	0.0000 ppm	8.7091 ppm
Concentration RSD	52.0 %	16.0 %	82.6 %	1.9 %	1.4 %	134.6 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	0.0013 ppm	0.0004 ppm	0.0007 ppm	8.3073 ppm	0.9549 ppm	-0.0005 ppm
Concentration per Run 1	-0.0001 ppm	0.0012 ppm	0.0005 ppm	0.0008 ppm	8.4470 ppm	0.9777 ppm	-0.0008 ppm
Concentration per Run 2	-0.0001 ppm	0.0012 ppm	0.0003 ppm	0.0005 ppm	8.2426 ppm	0.9644 ppm	0.0001 ppm
Concentration per Run 3	-0.0001 ppm	0.0014 ppm	0.0003 ppm	0.0009 ppm	8.2323 ppm	0.9225 ppm	-0.0007 ppm
Concentration RSD	5.1 %	9.6 %	25.1 %	25.8 %	1.5 %	3.0 %	112.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.6631 ppm	0.0163 ppm	0.0002 ppm	10.7417 ppm	0.0015 ppm	0.0006 ppm	-0.0010 ppm
Concentration per Run 1	0.6643 ppm	0.0167 ppm	0.0002 ppm	10.9481 ppm	0.0015 ppm	0.0004 ppm	-0.0009 ppm
Concentration per Run 2	0.6623 ppm	0.0164 ppm	0.0003 ppm	10.6495 ppm	0.0014 ppm	0.0011 ppm	-0.0007 ppm
Concentration per Run 3	0.6627 ppm	0.0156 ppm	0.0002 ppm	10.6275 ppm	0.0016 ppm	0.0002 ppm	-0.0014 ppm
Concentration RSD	0.2 %	3.4 %	7.2 %	1.7 %	6.0 %	86.8 %	36.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0010 ppm	1.8922 ppm	0.0003 ppm	0.0203 ppm	0.0087 ppm	0.0002 ppm	0.0169 ppm
Concentration per Run 1	-0.0006 ppm	1.8922 ppm	0.0002 ppm	0.0207 ppm	0.0088 ppm	0.0000 ppm	0.0167 ppm
Concentration per Run 2	-0.0018 ppm	1.8923 ppm	0.0005 ppm	0.0203 ppm	0.0085 ppm	0.0005 ppm	0.0171 ppm
Concentration per Run 3	-0.0008 ppm	1.8920 ppm	0.0003 ppm	0.0200 ppm	0.0088 ppm	0.0002 ppm	0.0167 ppm
Concentration RSD	61.1 %	0.0 %	49.7 %	1.7 %	2.3 %	113.7 %	1.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0017 ppm	108.6491 %	103.0476 %	96.9576 %	105.2307 %	100.4532 %	102.5719 %
Concentration per Run 1	0.0017 ppm	107.0667 %	103.1802 %	97.0524 %	102.7160 %	100.3979 %	102.7635 %
Concentration per Run 2	0.0017 ppm	109.5044 %	103.1627 %	96.8587 %	105.9965 %	100.3816 %	102.6013 %
Concentration per Run 3	0.0017 ppm	109.3763 %	102.8001 %	96.9617 %	106.9796 %	100.5800 %	102.3508 %
Concentration RSD	1.3 %	1.3 %	0.2 %	0.1 %	2.1 %	0.1 %	0.2 %

LabBook: WG2039392_03122025T5.imexp

Sample: L2512167-03 WG2039008
Analysis started at: 3/12/2025 9:28:23 AM
Comments <Comment>
Rack: 1
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	0.0184 ppm	-0.0004 ppm	0.1702 ppm	0.0699 ppm	0.0002 ppm	9.3542 ppm
Concentration per Run 1	0.0005 ppm	0.0213 ppm	-0.0003 ppm	0.1711 ppm	0.0708 ppm	0.0001 ppm	9.4825 ppm
Concentration per Run 2	0.0003 ppm	0.0186 ppm	-0.0019 ppm	0.1703 ppm	0.0697 ppm	0.0002 ppm	9.3122 ppm
Concentration per Run 3	0.0002 ppm	0.0153 ppm	0.0010 ppm	0.1693 ppm	0.0692 ppm	0.0002 ppm	9.2679 ppm
Concentration RSD	39.5 %	16.2 %	362.4 %	0.5 %	1.2 %	16.8 %	1.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0001 ppm	0.0046 ppm	0.0001 ppm	0.0287 ppm	0.0395 ppm	9.2085 ppm	0.0006 ppm
Concentration per Run 1	0.0001 ppm	0.0047 ppm	0.0001 ppm	0.0287 ppm	0.0397 ppm	9.3260 ppm	-0.0003 ppm
Concentration per Run 2	0.0000 ppm	0.0046 ppm	0.0001 ppm	0.0286 ppm	0.0404 ppm	9.1817 ppm	0.0010 ppm
Concentration per Run 3	0.0001 ppm	0.0044 ppm	0.0001 ppm	0.0288 ppm	0.0384 ppm	9.1177 ppm	0.0010 ppm
Concentration RSD	38.2 %	3.2 %	8.1 %	0.3 %	2.5 %	1.2 %	128.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	6.2625 ppm	0.1361 ppm	0.0000 ppm	68.6663 ppm	0.0076 ppm	0.0007 ppm	-0.0019 ppm
Concentration per Run 1	6.2666 ppm	0.1373 ppm	0.0000 ppm	69.5383 ppm	0.0076 ppm	0.0011 ppm	-0.0021 ppm
Concentration per Run 2	6.2669 ppm	0.1361 ppm	0.0001 ppm	68.4257 ppm	0.0076 ppm	0.0007 ppm	-0.0021 ppm
Concentration per Run 3	6.2541 ppm	0.1348 ppm	0.0000 ppm	68.0348 ppm	0.0075 ppm	0.0004 ppm	-0.0015 ppm
Concentration RSD	0.1 %	0.9 %	114.3 %	1.1 %	0.6 %	44.8 %	19.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0017 ppm	3.4551 ppm	-0.0004 ppm	0.0547 ppm	0.0003 ppm	0.0004 ppm	0.0003 ppm
Concentration per Run 1	-0.0012 ppm	3.4565 ppm	-0.0002 ppm	0.0553 ppm	0.0003 ppm	0.0015 ppm	0.0005 ppm
Concentration per Run 2	-0.0017 ppm	3.4565 ppm	-0.0001 ppm	0.0546 ppm	0.0002 ppm	0.0003 ppm	0.0002 ppm
Concentration per Run 3	-0.0022 ppm	3.4523 ppm	-0.0008 ppm	0.0543 ppm	0.0003 ppm	-0.0005 ppm	0.0003 ppm
Concentration RSD	29.9 %	0.1 %	108.4 %	0.9 %	22.0 %	221.5 %	55.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0247 ppm	107.5512 %	100.5807 %	94.9570 %	104.0819 %	96.5651 %	100.3599 %
Concentration per Run 1	0.0246 ppm	106.6273 %	100.8792 %	95.2372 %	102.8063 %	96.7962 %	100.6652 %
Concentration per Run 2	0.0247 ppm	107.5989 %	100.2873 %	94.7932 %	104.2756 %	96.3468 %	100.1795 %
Concentration per Run 3	0.0249 ppm	108.4275 %	100.5755 %	94.8407 %	105.1637 %	96.5521 %	100.2349 %
Concentration RSD	0.6 %	0.8 %	0.3 %	0.3 %	1.1 %	0.2 %	0.3 %

LabBook: WG2039392_03122025T5.imexp

Sample: WG2039008-7 WG2039008
Analysis started at: 3/12/2025 9:34:42 AM
Comments <Comment>
Rack: 1
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0520 ppm	1.9768 ppm	0.1166 ppm	1.1235 ppm	1.9595 ppm	0.0522 ppm	18.8106 ppm
Concentration per Run 1	0.0518 ppm	2.0032 ppm	0.1174 ppm	1.1232 ppm	1.9859 ppm	0.0529 ppm	19.0747 ppm
Concentration per Run 2	0.0521 ppm	1.9678 ppm	0.1158 ppm	1.1242 ppm	1.9510 ppm	0.0519 ppm	18.7352 ppm
Concentration per Run 3	0.0522 ppm	1.9593 ppm	0.1166 ppm	1.1229 ppm	1.9415 ppm	0.0518 ppm	18.6218 ppm
Concentration RSD	0.3 %	1.2 %	0.7 %	0.1 %	1.2 %	1.2 %	1.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0531 ppm	0.5049 ppm	0.2001 ppm	0.2671 ppm	1.0058 ppm	19.4537 ppm	0.0002 ppm
Concentration per Run 1	0.0532 ppm	0.5050 ppm	0.1999 ppm	0.2675 ppm	1.0166 ppm	19.7591 ppm	-0.0006 ppm
Concentration per Run 2	0.0531 ppm	0.5054 ppm	0.1996 ppm	0.2662 ppm	1.0064 ppm	19.3299 ppm	0.0005 ppm
Concentration per Run 3	0.0529 ppm	0.5044 ppm	0.2007 ppm	0.2678 ppm	0.9945 ppm	19.2720 ppm	0.0006 ppm
Concentration RSD	0.3 %	0.1 %	0.3 %	0.3 %	1.1 %	1.4 %	393.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	16.4868 ppm	0.6276 ppm	0.8934 ppm	79.3146 ppm	0.5330 ppm	0.5290 ppm	0.5238 ppm
Concentration per Run 1	16.4645 ppm	0.6353 ppm	0.8853 ppm	80.5039 ppm	0.5334 ppm	0.5300 ppm	0.5215 ppm
Concentration per Run 2	16.4652 ppm	0.6248 ppm	0.8948 ppm	78.9818 ppm	0.5332 ppm	0.5297 ppm	0.5259 ppm
Concentration per Run 3	16.5306 ppm	0.6226 ppm	0.9000 ppm	78.4579 ppm	0.5324 ppm	0.5272 ppm	0.5240 ppm
Concentration RSD	0.2 %	1.1 %	0.8 %	1.3 %	0.1 %	0.3 %	0.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1068 ppm	4.8598 ppm	1.0134 ppm	0.9714 ppm	0.9847 ppm	0.1084 ppm	0.5181 ppm
Concentration per Run 1	0.1051 ppm	4.8634 ppm	1.0113 ppm	0.9841 ppm	0.9830 ppm	0.1097 ppm	0.5180 ppm
Concentration per Run 2	0.1059 ppm	4.8631 ppm	1.0154 ppm	0.9674 ppm	0.9829 ppm	0.1080 ppm	0.5168 ppm
Concentration per Run 3	0.1096 ppm	4.8530 ppm	1.0135 ppm	0.9626 ppm	0.9881 ppm	0.1074 ppm	0.5194 ppm
Concentration RSD	2.3 %	0.1 %	0.2 %	1.2 %	0.3 %	1.1 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5583 ppm	106.5950 %	99.8009 %	93.9570 %	103.8760 %	95.9764 %	99.5487 %
Concentration per Run 1	0.5599 ppm	104.9282 %	99.9569 %	94.1524 %	102.1319 %	95.9243 %	99.6409 %
Concentration per Run 2	0.5582 ppm	107.0927 %	99.9062 %	93.9538 %	104.1894 %	95.8915 %	99.8251 %
Concentration per Run 3	0.5567 ppm	107.7640 %	99.5398 %	93.7646 %	105.3069 %	96.1133 %	99.1800 %
Concentration RSD	0.3 %	1.4 %	0.2 %	0.2 %	1.6 %	0.1 %	0.3 %

LabBook: WG2039392_03122025T5.imexp

Sample: WG2039008-8 WG2039008
Analysis started at: 3/12/2025 9:40:48 AM
Comments <Comment>
Rack: 1
Vial: 9

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0516 ppm	1.9680 ppm	0.1164 ppm	1.1172 ppm	1.9522 ppm	0.0520 ppm	18.7430 ppm
Concentration per Run 1	0.0523 ppm	2.0172 ppm	0.1146 ppm	1.1170 ppm	2.0015 ppm	0.0534 ppm	19.2554 ppm
Concentration per Run 2	0.0511 ppm	1.9484 ppm	0.1166 ppm	1.1200 ppm	1.9321 ppm	0.0516 ppm	18.5569 ppm
Concentration per Run 3	0.0515 ppm	1.9384 ppm	0.1180 ppm	1.1145 ppm	1.9231 ppm	0.0511 ppm	18.4166 ppm
Concentration RSD	1.2 %	2.2 %	1.5 %	0.2 %	2.2 %	2.3 %	2.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0526 ppm	0.5010 ppm	0.1993 ppm	0.2656 ppm	1.0071 ppm	19.4703 ppm	0.0000 ppm
Concentration per Run 1	0.0528 ppm	0.5018 ppm	0.1993 ppm	0.2649 ppm	1.0341 ppm	20.0260 ppm	-0.0014 ppm
Concentration per Run 2	0.0527 ppm	0.5016 ppm	0.1992 ppm	0.2657 ppm	0.9978 ppm	19.2443 ppm	0.0021 ppm
Concentration per Run 3	0.0524 ppm	0.4995 ppm	0.1995 ppm	0.2661 ppm	0.9894 ppm	19.1407 ppm	-0.0006 ppm
Concentration RSD	0.3 %	0.2 %	0.1 %	0.2 %	2.4 %	2.5 %	3,971.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	16.4437 ppm	0.6256 ppm	0.8933 ppm	78.8907 ppm	0.5283 ppm	0.5277 ppm	0.5201 ppm
Concentration per Run 1	16.4528 ppm	0.6414 ppm	0.8865 ppm	80.9490 ppm	0.5290 ppm	0.5287 ppm	0.5196 ppm
Concentration per Run 2	16.4543 ppm	0.6209 ppm	0.8957 ppm	78.1508 ppm	0.5293 ppm	0.5278 ppm	0.5200 ppm
Concentration per Run 3	16.4240 ppm	0.6146 ppm	0.8978 ppm	77.5723 ppm	0.5265 ppm	0.5265 ppm	0.5208 ppm
Concentration RSD	0.1 %	2.2 %	0.7 %	2.3 %	0.3 %	0.2 %	0.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1068 ppm	4.8041 ppm	1.0176 ppm	0.9766 ppm	0.9883 ppm	0.1076 ppm	0.5156 ppm
Concentration per Run 1	0.1079 ppm	4.8149 ppm	1.0181 ppm	1.0000 ppm	0.9877 ppm	0.1073 ppm	0.5153 ppm
Concentration per Run 2	0.1049 ppm	4.8142 ppm	1.0199 ppm	0.9678 ppm	0.9880 ppm	0.1084 ppm	0.5161 ppm
Concentration per Run 3	0.1076 ppm	4.7832 ppm	1.0150 ppm	0.9621 ppm	0.9892 ppm	0.1073 ppm	0.5154 ppm
Concentration RSD	1.5 %	0.4 %	0.2 %	2.1 %	0.1 %	0.6 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5531 ppm	106.6073 %	99.3146 %	93.9720 %	103.3733 %	95.8747 %	99.1558 %
Concentration per Run 1	0.5545 ppm	104.2269 %	99.0328 %	93.9639 %	100.4679 %	95.9566 %	98.9590 %
Concentration per Run 2	0.5538 ppm	107.5140 %	99.4152 %	93.9642 %	104.5120 %	95.7070 %	99.3047 %
Concentration per Run 3	0.5512 ppm	108.0810 %	99.4958 %	93.9880 %	105.1400 %	95.9607 %	99.2036 %
Concentration RSD	0.3 %	2.0 %	0.2 %	0.0 %	2.5 %	0.2 %	0.2 %

LabBook: WG2039392_03122025T5.imexp

Sample: WG2039008-9 WG2039008
Analysis started at: 3/12/2025 9:46:54 AM
Comments <Comment>
Rack: 1
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0270 ppm	1.9048 ppm	0.1274 ppm	1.1411 ppm	1.8781 ppm	0.0499 ppm	18.3723 ppm
Concentration per Run 1	0.0225 ppm	1.9110 ppm	0.1267 ppm	1.1401 ppm	1.8875 ppm	0.0502 ppm	18.4660 ppm
Concentration per Run 2	0.0223 ppm	1.8951 ppm	0.1271 ppm	1.1386 ppm	1.8706 ppm	0.0497 ppm	18.3029 ppm
Concentration per Run 3	0.0362 ppm	1.9084 ppm	0.1283 ppm	1.1445 ppm	1.8764 ppm	0.0499 ppm	18.3478 ppm
Concentration RSD	29.5 %	0.4 %	0.7 %	0.3 %	0.5 %	0.5 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0527 ppm	0.4949 ppm	0.1977 ppm	0.2786 ppm	0.9903 ppm	19.0428 ppm	0.0006 ppm
Concentration per Run 1	0.0528 ppm	0.4949 ppm	0.1972 ppm	0.2771 ppm	0.9959 ppm	19.1833 ppm	0.0008 ppm
Concentration per Run 2	0.0526 ppm	0.4942 ppm	0.1981 ppm	0.2788 ppm	0.9878 ppm	18.9607 ppm	0.0003 ppm
Concentration per Run 3	0.0527 ppm	0.4956 ppm	0.1979 ppm	0.2798 ppm	0.9871 ppm	18.9843 ppm	0.0007 ppm
Concentration RSD	0.2 %	0.1 %	0.2 %	0.5 %	0.5 %	0.6 %	41.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	16.3526 ppm	0.6055 ppm	0.9326 ppm	74.7839 ppm	0.5143 ppm	0.5536 ppm	0.4780 ppm
Concentration per Run 1	16.3302 ppm	0.6096 ppm	0.9223 ppm	75.2694 ppm	0.5147 ppm	0.5536 ppm	0.4726 ppm
Concentration per Run 2	16.3559 ppm	0.6032 ppm	0.9320 ppm	74.5500 ppm	0.5137 ppm	0.5531 ppm	0.4786 ppm
Concentration per Run 3	16.3718 ppm	0.6036 ppm	0.9435 ppm	74.5323 ppm	0.5146 ppm	0.5540 ppm	0.4827 ppm
Concentration RSD	0.1 %	0.6 %	1.1 %	0.6 %	0.1 %	0.1 %	1.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1199 ppm	4.2359 ppm	1.0500 ppm	0.9854 ppm	1.0206 ppm	0.1201 ppm	0.5065 ppm
Concentration per Run 1	0.1210 ppm	4.2314 ppm	1.0489 ppm	0.9911 ppm	1.0187 ppm	0.1204 ppm	0.5046 ppm
Concentration per Run 2	0.1199 ppm	4.2268 ppm	1.0499 ppm	0.9819 ppm	1.0203 ppm	0.1202 ppm	0.5065 ppm
Concentration per Run 3	0.1189 ppm	4.2494 ppm	1.0512 ppm	0.9831 ppm	1.0228 ppm	0.1199 ppm	0.5082 ppm
Concentration RSD	0.9 %	0.3 %	0.1 %	0.5 %	0.2 %	0.2 %	0.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5328 ppm	106.4657 %	99.1158 %	95.0222 %	104.5512 %	96.0499 %	99.3075 %
Concentration per Run 1	0.5336 ppm	106.0662 %	99.0964 %	94.9910 %	103.8694 %	96.0132 %	99.4758 %
Concentration per Run 2	0.5318 ppm	106.7789 %	99.3148 %	95.0140 %	104.8040 %	96.2442 %	99.4061 %
Concentration per Run 3	0.5329 ppm	106.5520 %	98.9361 %	95.0614 %	104.9803 %	95.8924 %	99.0405 %
Concentration RSD	0.2 %	0.3 %	0.2 %	0.0 %	0.6 %	0.2 %	0.2 %

LabBook: WG2039392_03122025T5.imexp

Sample: WG2039008-10D5 WG2039008
Analysis started at: 3/12/2025 9:53:00 AM
Comments <Comment>
Rack: 1
Vial: 11

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0008 ppm	0.0029 ppm	-0.0011 ppm	0.0379 ppm	0.0145 ppm	0.0000 ppm	1.9160 ppm
Concentration per Run 1	0.0010 ppm	0.0056 ppm	-0.0006 ppm	0.0383 ppm	0.0148 ppm	0.0000 ppm	1.9329 ppm
Concentration per Run 2	0.0008 ppm	0.0044 ppm	-0.0013 ppm	0.0379 ppm	0.0144 ppm	0.0000 ppm	1.9113 ppm
Concentration per Run 3	0.0006 ppm	-0.0013 ppm	-0.0013 ppm	0.0374 ppm	0.0145 ppm	0.0000 ppm	1.9036 ppm
Concentration RSD	24.9 %	128.4 %	37.2 %	1.2 %	1.5 %	355.1 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0011 ppm	0.0001 ppm	0.0061 ppm	0.0109 ppm	1.8502 ppm	0.0022 ppm
Concentration per Run 1	0.0000 ppm	0.0010 ppm	0.0001 ppm	0.0062 ppm	0.0115 ppm	1.8834 ppm	0.0019 ppm
Concentration per Run 2	0.0001 ppm	0.0010 ppm	0.0000 ppm	0.0063 ppm	0.0104 ppm	1.8313 ppm	0.0028 ppm
Concentration per Run 3	0.0001 ppm	0.0012 ppm	0.0002 ppm	0.0058 ppm	0.0108 ppm	1.8359 ppm	0.0020 ppm
Concentration RSD	65.9 %	9.9 %	99.6 %	4.4 %	4.7 %	1.6 %	22.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	1.2788 ppm	0.0277 ppm	0.0064 ppm	13.7934 ppm	0.0017 ppm	0.0007 ppm	0.0084 ppm
Concentration per Run 1	1.2736 ppm	0.0280 ppm	0.0074 ppm	13.9048 ppm	0.0017 ppm	0.0004 ppm	0.0104 ppm
Concentration per Run 2	1.2796 ppm	0.0277 ppm	0.0063 ppm	13.7701 ppm	0.0016 ppm	0.0009 ppm	0.0080 ppm
Concentration per Run 3	1.2833 ppm	0.0274 ppm	0.0055 ppm	13.7052 ppm	0.0017 ppm	0.0008 ppm	0.0069 ppm
Concentration RSD	0.4 %	1.0 %	14.8 %	0.7 %	4.1 %	42.2 %	21.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0001 ppm	0.6790 ppm	0.0054 ppm	0.0114 ppm	0.0018 ppm	-0.0003 ppm	0.0002 ppm
Concentration per Run 1	-0.0011 ppm	0.6794 ppm	0.0064 ppm	0.0115 ppm	0.0019 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 2	0.0002 ppm	0.6805 ppm	0.0051 ppm	0.0114 ppm	0.0019 ppm	-0.0002 ppm	0.0001 ppm
Concentration per Run 3	0.0007 ppm	0.6772 ppm	0.0046 ppm	0.0113 ppm	0.0017 ppm	-0.0006 ppm	0.0004 ppm
Concentration RSD	1,491.1 %	0.2 %	17.2 %	1.0 %	6.7 %	89.7 %	76.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0052 ppm	105.8158 %	101.4251 %	97.5776 %	103.6198 %	100.2877 %	101.8383 %
Concentration per Run 1	0.0051 ppm	105.2722 %	101.8332 %	97.4170 %	102.9122 %	100.1911 %	102.2606 %
Concentration per Run 2	0.0052 ppm	105.8887 %	101.0665 %	97.5390 %	103.7613 %	100.1093 %	101.4056 %
Concentration per Run 3	0.0052 ppm	106.2866 %	101.3756 %	97.7769 %	104.1860 %	100.5626 %	101.8486 %
Concentration RSD	2.0 %	0.5 %	0.4 %	0.2 %	0.6 %	0.2 %	0.4 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: CCV
Analysis started at: 3/12/2025 9:59:22 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4952 ppm	0.4850 ppm	0.4852 ppm	0.4826 ppm	0.4699 ppm	0.5031 ppm	0.4966 ppm
Concentration per Run 1	0.4955 ppm	0.4930 ppm	0.4843 ppm	0.4810 ppm	0.4760 ppm	0.5106 ppm	0.5098 ppm
Concentration per Run 2	0.4949 ppm	0.4845 ppm	0.4859 ppm	0.4823 ppm	0.4699 ppm	0.5034 ppm	0.4963 ppm
Concentration per Run 3	0.4952 ppm	0.4774 ppm	0.4855 ppm	0.4845 ppm	0.4638 ppm	0.4953 ppm	0.4837 ppm
Recovery Percentage 1	99.041 %	96.997 %	97.049 %	96.521 %	93.984 %	100.622 %	99.319 %
Concentration RSD	0.1 %	1.6 %	0.2 %	0.4 %	1.3 %	1.5 %	2.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4826 ppm	0.4940 ppm	0.4868 ppm	0.4809 ppm	0.5015 ppm	5.1074 ppm	0.4948 ppm
Concentration per Run 1	0.4809 ppm	0.4925 ppm	0.4888 ppm	0.4825 ppm	0.5070 ppm	5.1974 ppm	0.5035 ppm
Concentration per Run 2	0.4840 ppm	0.4950 ppm	0.4865 ppm	0.4801 ppm	0.5037 ppm	5.0958 ppm	0.4947 ppm
Concentration per Run 3	0.4829 ppm	0.4944 ppm	0.4850 ppm	0.4801 ppm	0.4939 ppm	5.0290 ppm	0.4860 ppm
Recovery Percentage 1	96.525 %	98.797 %	97.350 %	96.173 %	100.309 %	102.148 %	98.951 %
Concentration RSD	0.3 %	0.3 %	0.4 %	0.3 %	1.4 %	1.7 %	1.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5136 ppm	0.4880 ppm	0.4739 ppm	9.6000 ppm	0.5034 ppm	0.5064 ppm	0.5009 ppm
Concentration per Run 1	0.5141 ppm	0.4957 ppm	0.4717 ppm	9.7482 ppm	0.5018 ppm	0.5055 ppm	0.5000 ppm
Concentration per Run 2	0.5142 ppm	0.4878 ppm	0.4744 ppm	9.5960 ppm	0.5044 ppm	0.5073 ppm	0.4994 ppm
Concentration per Run 3	0.5126 ppm	0.4804 ppm	0.4755 ppm	9.4558 ppm	0.5039 ppm	0.5063 ppm	0.5031 ppm
Recovery Percentage 1	102.722 %	97.595 %	94.773 %	96.000 %	100.671 %	101.274 %	100.172 %
Concentration RSD	0.2 %	1.6 %	0.4 %	1.5 %	0.3 %	0.2 %	0.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4724 ppm	5.5917 ppm	0.5271 ppm	0.4892 ppm	0.4983 ppm	0.4987 ppm	0.4867 ppm
Concentration per Run 1	0.4714 ppm	5.5742 ppm	0.5264 ppm	0.4956 ppm	0.4992 ppm	0.4976 ppm	0.4872 ppm
Concentration per Run 2	0.4703 ppm	5.5923 ppm	0.5261 ppm	0.4895 ppm	0.4977 ppm	0.4992 ppm	0.4866 ppm
Concentration per Run 3	0.4755 ppm	5.6086 ppm	0.5289 ppm	0.4826 ppm	0.4978 ppm	0.4994 ppm	0.4861 ppm
Recovery Percentage 1	94.472 %	106.508 %	105.426 %	97.844 %	99.652 %	99.749 %	97.331 %
Concentration RSD	0.6 %	0.3 %	0.3 %	1.3 %	0.2 %	0.2 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4938 ppm	100.9560 %	100.7547 %	98.1530 %	100.1636 %	99.5328 %	101.7406 %
Concentration per Run 1	0.4923 ppm	98.7921 %	100.6204 %	98.0432 %	98.5706 %	99.7895 %	101.6275 %
Concentration per Run 2	0.4952 ppm	100.9508 %	100.8547 %	98.1127 %	99.9199 %	99.1763 %	101.8421 %
Concentration per Run 3	0.4938 ppm	103.1250 %	100.7890 %	98.3031 %	102.0001 %	99.6326 %	101.7523 %
Recovery Percentage 1	98.751 %						
Concentration RSD	0.3 %	2.1 %	0.1 %	0.1 %	1.7 %	0.3 %	0.1 %

LabBook: WG2039392_03122025T5.imexp

Sample: CCB
Analysis started at: 3/12/2025 10:05:28 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	-0.0032 ppm	-0.0001 ppm	0.0041 ppm	0.0000 ppm	0.0000 ppm	0.0035 ppm
Concentration per Run 1	0.0000 ppm	-0.0041 ppm	0.0000 ppm	0.0040 ppm	-0.0001 ppm	0.0000 ppm	-0.0036 ppm
Concentration per Run 2	0.0005 ppm	-0.0056 ppm	0.0015 ppm	0.0039 ppm	-0.0001 ppm	0.0000 ppm	0.0089 ppm
Concentration per Run 3	0.0010 ppm	0.0001 ppm	-0.0018 ppm	0.0043 ppm	0.0002 ppm	0.0000 ppm	0.0053 ppm
Recovery Percentage 1	7.182 %	-3.167 %	-1.910 %	13.547 %	0.081 %	-0.081 %	3.532 %
Concentration RSD	92.8 %	93.7 %	1,741.1 %	6.2 %	2,459.0 %	870.5 %	181.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0017 ppm	0.0237 ppm	0.0010 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0020 ppm	0.0086 ppm	0.0011 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0014 ppm	0.0289 ppm	0.0009 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0017 ppm	0.0337 ppm	0.0010 ppm
Recovery Percentage 1	1.077 %	-0.010 %	-0.152 %	2.155 %	3.388 %	0.949 %	10.187 %
Concentration RSD	21.6 %	2,351.8 %	149.0 %	53.2 %	16.9 %	56.3 %	10.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0017 ppm	0.0153 ppm	0.0001 ppm	0.0002 ppm	0.0014 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	0.0020 ppm	0.0184 ppm	0.0002 ppm	0.0002 ppm	0.0012 ppm
Concentration per Run 2	0.0009 ppm	-0.0004 ppm	0.0017 ppm	0.0156 ppm	0.0002 ppm	0.0006 ppm	0.0014 ppm
Concentration per Run 3	-0.0007 ppm	-0.0002 ppm	0.0013 ppm	0.0118 ppm	-0.0003 ppm	0.0000 ppm	0.0014 ppm
Recovery Percentage 1	0.086 %	-1.023 %	3.306 %	0.763 %	0.206 %	2.496 %	2.708 %
Concentration RSD	916.9 %	306.1 %	19.3 %	21.9 %	551.3 %	123.4 %	7.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0030 ppm	0.0000 ppm	0.0020 ppm	0.0001 ppm	0.0006 ppm	0.0008 ppm	0.0002 ppm
Concentration per Run 1	-0.0024 ppm	0.0000 ppm	0.0016 ppm	0.0001 ppm	0.0004 ppm	0.0005 ppm	0.0001 ppm
Concentration per Run 2	-0.0038 ppm	0.0000 ppm	0.0023 ppm	0.0000 ppm	0.0007 ppm	0.0010 ppm	0.0003 ppm
Concentration per Run 3	-0.0030 ppm	-0.0001 ppm	0.0022 ppm	0.0001 ppm	0.0008 ppm	0.0007 ppm	0.0001 ppm
Recovery Percentage 1	-30.359 %	-0.008 %	4.039 %	0.718 %	6.473 %	3.807 %	1.759 %
Concentration RSD	23.1 %	140.6 %	19.1 %	75.9 %	30.2 %	33.4 %	58.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0001 ppm	104.9012 %	101.6621 %	99.3541 %	102.8581 %	100.7728 %	101.8522 %
Concentration per Run 1	0.0000 ppm	103.9678 %	101.4910 %	99.3781 %	101.5321 %	101.1425 %	101.7693 %
Concentration per Run 2	0.0002 ppm	104.8755 %	101.6336 %	99.3536 %	102.9462 %	100.7598 %	101.8057 %
Concentration per Run 3	0.0000 ppm	105.8601 %	101.8616 %	99.3307 %	104.0961 %	100.4162 %	101.9815 %
Recovery Percentage 1	1.369 %						
Concentration RSD	147.8 %	0.9 %	0.2 %	0.0 %	1.2 %	0.4 %	0.1 %

LabBook: WG2039392_03122025T5.imexp

Sample: L2512167-02 WG2039008
Analysis started at: 3/12/2025 10:21:29 AM
Comments <Comment>
Rack: 1
Vial: 15

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0130 ppm	-0.0001 ppm	0.1658 ppm	0.0767 ppm	0.0001 ppm	10.3626 ppm
Concentration per Run 1	0.0002 ppm	0.0142 ppm	-0.0001 ppm	0.1655 ppm	0.0802 ppm	0.0002 ppm	10.8324 ppm
Concentration per Run 2	0.0004 ppm	0.0165 ppm	-0.0009 ppm	0.1660 ppm	0.0760 ppm	0.0001 ppm	10.2263 ppm
Concentration per Run 3	0.0003 ppm	0.0082 ppm	0.0006 ppm	0.1659 ppm	0.0741 ppm	0.0001 ppm	10.0290 ppm
Concentration RSD	26.7 %	33.0 %	677.5 %	0.2 %	4.1 %	8.9 %	4.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0001 ppm	0.0046 ppm	0.0002 ppm	0.0122 ppm	0.0154 ppm	10.0612 ppm	0.0015 ppm
Concentration per Run 1	0.0000 ppm	0.0047 ppm	-0.0001 ppm	0.0123 ppm	0.0163 ppm	10.5604 ppm	0.0025 ppm
Concentration per Run 2	0.0000 ppm	0.0046 ppm	0.0006 ppm	0.0121 ppm	0.0143 ppm	9.9008 ppm	0.0014 ppm
Concentration per Run 3	0.0001 ppm	0.0045 ppm	0.0001 ppm	0.0122 ppm	0.0156 ppm	9.7225 ppm	0.0007 ppm
Concentration RSD	38.8 %	1.7 %	163.1 %	0.8 %	6.7 %	4.4 %	61.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	6.4385 ppm	0.1414 ppm	0.0001 ppm	75.8635 ppm	0.0108 ppm	0.0008 ppm	-0.0012 ppm
Concentration per Run 1	6.4414 ppm	0.1477 ppm	0.0002 ppm	79.3659 ppm	0.0107 ppm	0.0001 ppm	-0.0010 ppm
Concentration per Run 2	6.4459 ppm	0.1392 ppm	0.0002 ppm	74.8977 ppm	0.0110 ppm	0.0008 ppm	-0.0015 ppm
Concentration per Run 3	6.4283 ppm	0.1372 ppm	0.0000 ppm	73.3268 ppm	0.0106 ppm	0.0014 ppm	-0.0012 ppm
Concentration RSD	0.1 %	3.9 %	91.0 %	4.1 %	1.7 %	81.6 %	20.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0005 ppm	3.5103 ppm	0.0006 ppm	0.0600 ppm	0.0003 ppm	0.0006 ppm	0.0002 ppm
Concentration per Run 1	-0.0046 ppm	3.5021 ppm	0.0005 ppm	0.0629 ppm	0.0003 ppm	-0.0003 ppm	0.0002 ppm
Concentration per Run 2	0.0018 ppm	3.5175 ppm	0.0006 ppm	0.0592 ppm	0.0002 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 3	0.0013 ppm	3.5112 ppm	0.0008 ppm	0.0579 ppm	0.0004 ppm	0.0019 ppm	0.0001 ppm
Concentration RSD	719.3 %	0.2 %	26.2 %	4.4 %	34.1 %	206.1 %	41.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0355 ppm	100.8663 %	99.7875 %	96.1955 %	97.5193 %	97.1271 %	99.9440 %
Concentration per Run 1	0.0356 ppm	98.6085 %	99.4583 %	96.0564 %	93.7295 %	97.3387 %	99.5734 %
Concentration per Run 2	0.0354 ppm	101.5366 %	99.9005 %	96.1403 %	98.8610 %	97.0106 %	99.9867 %
Concentration per Run 3	0.0356 ppm	102.4537 %	100.0038 %	96.3898 %	99.9674 %	97.0319 %	100.2719 %
Concentration RSD	0.3 %	2.0 %	0.3 %	0.2 %	3.4 %	0.2 %	0.4 %

LabBook: WG2039392_03122025T5.imexp

Sample: L2512167-04 WG2039008
Analysis started at: 3/12/2025 10:27:44 AM
Comments <Comment>
Rack: 1
Vial: 16

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	0.0095 ppm	0.0003 ppm	0.2317 ppm	0.0508 ppm	0.0000 ppm	7.9282 ppm
Concentration per Run 1	0.0004 ppm	0.0048 ppm	-0.0008 ppm	0.2319 ppm	0.0529 ppm	0.0000 ppm	8.2660 ppm
Concentration per Run 2	0.0007 ppm	0.0168 ppm	0.0006 ppm	0.2316 ppm	0.0502 ppm	0.0000 ppm	7.8492 ppm
Concentration per Run 3	0.0001 ppm	0.0070 ppm	0.0010 ppm	0.2316 ppm	0.0492 ppm	0.0000 ppm	7.6694 ppm
Concentration RSD	71.3 %	67.0 %	367.9 %	0.1 %	3.8 %	28.3 %	3.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0001 ppm	0.0046 ppm	0.0006 ppm	0.0075 ppm	0.1733 ppm	14.5528 ppm	-0.0006 ppm
Concentration per Run 1	0.0001 ppm	0.0047 ppm	0.0005 ppm	0.0077 ppm	0.1814 ppm	15.1989 ppm	-0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0045 ppm	0.0007 ppm	0.0074 ppm	0.1704 ppm	14.3981 ppm	-0.0013 ppm
Concentration per Run 3	0.0000 ppm	0.0045 ppm	0.0006 ppm	0.0075 ppm	0.1681 ppm	14.0612 ppm	-0.0005 ppm
Concentration RSD	49.1 %	2.3 %	13.6 %	2.3 %	4.1 %	4.0 %	101.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	5.9518 ppm	0.1969 ppm	0.0001 ppm	87.4907 ppm	0.0060 ppm	0.0013 ppm	-0.0004 ppm
Concentration per Run 1	5.9686 ppm	0.2059 ppm	0.0001 ppm	91.2246 ppm	0.0060 ppm	0.0017 ppm	-0.0013 ppm
Concentration per Run 2	5.9454 ppm	0.1949 ppm	0.0002 ppm	86.6964 ppm	0.0059 ppm	0.0014 ppm	0.0004 ppm
Concentration per Run 3	5.9414 ppm	0.1900 ppm	0.0000 ppm	84.5511 ppm	0.0061 ppm	0.0008 ppm	-0.0003 ppm
Concentration RSD	0.2 %	4.1 %	61.5 %	3.9 %	2.1 %	36.2 %	227.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0031 ppm	2.8756 ppm	0.0005 ppm	0.0501 ppm	0.0006 ppm	-0.0006 ppm	0.0002 ppm
Concentration per Run 1	-0.0006 ppm	2.8844 ppm	0.0012 ppm	0.0523 ppm	0.0007 ppm	-0.0011 ppm	0.0003 ppm
Concentration per Run 2	-0.0044 ppm	2.8695 ppm	0.0003 ppm	0.0495 ppm	0.0003 ppm	0.0007 ppm	0.0003 ppm
Concentration per Run 3	-0.0044 ppm	2.8730 ppm	0.0000 ppm	0.0485 ppm	0.0006 ppm	-0.0015 ppm	0.0000 ppm
Concentration RSD	70.0 %	0.3 %	129.1 %	3.9 %	36.8 %	188.4 %	83.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0179 ppm	100.5416 %	99.3446 %	95.9431 %	97.4556 %	96.7591 %	99.9460 %
Concentration per Run 1	0.0179 ppm	97.4381 %	99.1403 %	95.8830 %	93.8670 %	96.4431 %	99.7100 %
Concentration per Run 2	0.0179 ppm	100.7057 %	99.5527 %	95.9061 %	97.5679 %	96.9291 %	100.0907 %
Concentration per Run 3	0.0178 ppm	103.4811 %	99.3409 %	96.0402 %	100.9320 %	96.9051 %	100.0373 %
Concentration RSD	0.3 %	3.0 %	0.2 %	0.1 %	3.6 %	0.3 %	0.2 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: L2512167-05 WG2039008
Analysis started at: 3/12/2025 10:34:01 AM
Comments <Comment>
Rack: 1
Vial: 17

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0209 ppm	-0.0012 ppm	0.1428 ppm	0.0736 ppm	0.0002 ppm	10.7575 ppm
Concentration per Run 1	0.0002 ppm	0.0241 ppm	-0.0006 ppm	0.1430 ppm	0.0768 ppm	0.0001 ppm	11.2303 ppm
Concentration per Run 2	-0.0003 ppm	0.0230 ppm	-0.0016 ppm	0.1428 ppm	0.0729 ppm	0.0002 ppm	10.6536 ppm
Concentration per Run 3	0.0004 ppm	0.0157 ppm	-0.0013 ppm	0.1425 ppm	0.0713 ppm	0.0001 ppm	10.3886 ppm
Concentration RSD	483.2 %	21.9 %	43.0 %	0.2 %	3.8 %	21.7 %	4.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0001 ppm	0.0028 ppm	0.0002 ppm	0.0371 ppm	0.0456 ppm	9.1339 ppm	0.0004 ppm
Concentration per Run 1	0.0001 ppm	0.0026 ppm	0.0004 ppm	0.0369 ppm	0.0479 ppm	9.5130 ppm	0.0001 ppm
Concentration per Run 2	0.0001 ppm	0.0029 ppm	0.0003 ppm	0.0372 ppm	0.0443 ppm	9.0694 ppm	0.0000 ppm
Concentration per Run 3	0.0001 ppm	0.0029 ppm	0.0000 ppm	0.0372 ppm	0.0447 ppm	8.8191 ppm	0.0012 ppm
Concentration RSD	11.7 %	6.4 %	86.9 %	0.5 %	4.3 %	3.8 %	149.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	6.6392 ppm	0.0821 ppm	0.0003 ppm	66.1165 ppm	0.0069 ppm	0.0007 ppm	-0.0015 ppm
Concentration per Run 1	6.6501 ppm	0.0855 ppm	0.0002 ppm	69.0556 ppm	0.0072 ppm	0.0006 ppm	-0.0016 ppm
Concentration per Run 2	6.6362 ppm	0.0817 ppm	0.0004 ppm	65.4688 ppm	0.0068 ppm	0.0008 ppm	-0.0013 ppm
Concentration per Run 3	6.6314 ppm	0.0792 ppm	0.0004 ppm	63.8252 ppm	0.0069 ppm	0.0007 ppm	-0.0015 ppm
Concentration RSD	0.1 %	3.9 %	37.9 %	4.0 %	3.0 %	12.9 %	9.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0000 ppm	3.5597 ppm	0.0002 ppm	0.0602 ppm	0.0003 ppm	-0.0006 ppm	0.0001 ppm
Concentration per Run 1	0.0011 ppm	3.5623 ppm	-0.0001 ppm	0.0631 ppm	0.0003 ppm	-0.0008 ppm	0.0002 ppm
Concentration per Run 2	0.0011 ppm	3.5631 ppm	0.0007 ppm	0.0597 ppm	0.0003 ppm	-0.0001 ppm	0.0004 ppm
Concentration per Run 3	-0.0022 ppm	3.5535 ppm	0.0000 ppm	0.0579 ppm	0.0002 ppm	-0.0010 ppm	-0.0002 ppm
Concentration RSD	7,544.7 %	0.1 %	196.4 %	4.3 %	11.8 %	70.0 %	239.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0265 ppm	100.5621 %	100.3680 %	96.3094 %	97.7323 %	97.5146 %	100.2872 %
Concentration per Run 1	0.0266 ppm	96.8110 %	100.2298 %	96.4616 %	93.6227 %	97.4103 %	100.1299 %
Concentration per Run 2	0.0265 ppm	101.1306 %	100.5728 %	96.3563 %	98.3146 %	97.4380 %	100.3982 %
Concentration per Run 3	0.0265 ppm	103.7447 %	100.3012 %	96.1102 %	101.2597 %	97.6957 %	100.3336 %
Concentration RSD	0.3 %	3.5 %	0.2 %	0.2 %	3.9 %	0.2 %	0.1 %

LabBook: WG2039392_03122025T5.imexp

Sample: L2512167-06 WG2039008
Analysis started at: 3/12/2025 10:40:18 AM
Comments <Comment>
Rack: 1
Vial: 18

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	0.0222 ppm	-0.0013 ppm	0.1233 ppm	0.0936 ppm	0.0004 ppm	10.8475 ppm
Concentration per Run 1	0.0005 ppm	0.0248 ppm	-0.0008 ppm	0.1234 ppm	0.0950 ppm	0.0003 ppm	11.0096 ppm
Concentration per Run 2	0.0006 ppm	0.0170 ppm	-0.0019 ppm	0.1232 ppm	0.0930 ppm	0.0003 ppm	10.7660 ppm
Concentration per Run 3	0.0005 ppm	0.0247 ppm	-0.0012 ppm	0.1232 ppm	0.0929 ppm	0.0004 ppm	10.7670 ppm
Concentration RSD	17.3 %	20.3 %	43.3 %	0.1 %	1.3 %	12.2 %	1.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0002 ppm	0.0064 ppm	0.0007 ppm	0.0348 ppm	0.0049 ppm	6.1821 ppm	0.0011 ppm
Concentration per Run 1	0.0001 ppm	0.0065 ppm	0.0008 ppm	0.0349 ppm	0.0050 ppm	6.2755 ppm	0.0008 ppm
Concentration per Run 2	0.0002 ppm	0.0064 ppm	0.0004 ppm	0.0349 ppm	0.0055 ppm	6.1345 ppm	0.0012 ppm
Concentration per Run 3	0.0001 ppm	0.0065 ppm	0.0011 ppm	0.0347 ppm	0.0043 ppm	6.1362 ppm	0.0012 ppm
Concentration RSD	27.8 %	1.3 %	44.0 %	0.3 %	12.5 %	1.3 %	20.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	6.4121 ppm	0.1556 ppm	0.0002 ppm	66.0453 ppm	0.0094 ppm	0.0012 ppm	-0.0005 ppm
Concentration per Run 1	6.4173 ppm	0.1580 ppm	0.0001 ppm	67.1313 ppm	0.0094 ppm	0.0018 ppm	-0.0009 ppm
Concentration per Run 2	6.3934 ppm	0.1548 ppm	0.0003 ppm	65.6720 ppm	0.0093 ppm	0.0004 ppm	-0.0008 ppm
Concentration per Run 3	6.4257 ppm	0.1542 ppm	0.0001 ppm	65.3325 ppm	0.0095 ppm	0.0013 ppm	0.0002 ppm
Concentration RSD	0.3 %	1.3 %	54.0 %	1.4 %	1.0 %	62.8 %	126.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0012 ppm	3.9323 ppm	0.0003 ppm	0.0614 ppm	0.0004 ppm	0.0003 ppm	0.0004 ppm
Concentration per Run 1	-0.0051 ppm	3.9306 ppm	0.0004 ppm	0.0624 ppm	0.0007 ppm	-0.0004 ppm	0.0003 ppm
Concentration per Run 2	-0.0008 ppm	3.9331 ppm	-0.0003 ppm	0.0611 ppm	0.0003 ppm	0.0004 ppm	0.0004 ppm
Concentration per Run 3	0.0024 ppm	3.9333 ppm	0.0009 ppm	0.0608 ppm	0.0001 ppm	0.0009 ppm	0.0006 ppm
Concentration RSD	321.1 %	0.0 %	182.4 %	1.4 %	73.4 %	223.2 %	31.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0368 ppm	106.8779 %	100.5810 %	96.2061 %	103.6015 %	97.5595 %	100.3103 %
Concentration per Run 1	0.0370 ppm	105.9411 %	100.6554 %	96.4400 %	101.5096 %	97.6857 %	100.3928 %
Concentration per Run 2	0.0367 ppm	107.3945 %	100.6394 %	96.1185 %	104.7074 %	97.5352 %	100.3921 %
Concentration per Run 3	0.0369 ppm	107.2980 %	100.4482 %	96.0597 %	104.5874 %	97.4575 %	100.1459 %
Concentration RSD	0.4 %	0.8 %	0.1 %	0.2 %	1.7 %	0.1 %	0.1 %

LabBook: WG2039392_03122025T5.imexp

Sample: L2512176-01 WG2039008
Analysis started at: 3/12/2025 10:46:33 AM
Comments <Comment>
Rack: 1
Vial: 19

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	0.0188 ppm	-0.0003 ppm	0.0105 ppm	0.0612 ppm	-0.0001 ppm	83.2144 ppm
Concentration per Run 1	0.0000 ppm	0.0146 ppm	0.0003 ppm	0.0104 ppm	0.0625 ppm	-0.0001 ppm	84.9409 ppm
Concentration per Run 2	0.0005 ppm	0.0226 ppm	-0.0010 ppm	0.0108 ppm	0.0607 ppm	-0.0001 ppm	82.6146 ppm
Concentration per Run 3	0.0007 ppm	0.0191 ppm	-0.0003 ppm	0.0104 ppm	0.0605 ppm	0.0000 ppm	82.0877 ppm
Concentration RSD	86.4 %	21.5 %	207.6 %	2.1 %	1.8 %	83.4 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0002 ppm	0.0016 ppm	0.0005 ppm	0.0022 ppm	0.0134 ppm	4.9635 ppm	0.0033 ppm
Concentration per Run 1	-0.0002 ppm	0.0015 ppm	0.0006 ppm	0.0023 ppm	0.0145 ppm	5.0695 ppm	0.0030 ppm
Concentration per Run 2	-0.0002 ppm	0.0015 ppm	0.0006 ppm	0.0022 ppm	0.0130 ppm	4.9157 ppm	0.0037 ppm
Concentration per Run 3	-0.0002 ppm	0.0017 ppm	0.0004 ppm	0.0022 ppm	0.0129 ppm	4.9052 ppm	0.0033 ppm
Concentration RSD	5.5 %	6.2 %	22.8 %	2.8 %	6.6 %	1.9 %	10.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	13.3806 ppm	1.8993 ppm	0.0002 ppm	391.2875 ppm	0.0034 ppm	0.0005 ppm	-0.0009 ppm
Concentration per Run 1	13.3287 ppm	1.9418 ppm	0.0002 ppm	409.4092 ppm	0.0034 ppm	0.0000 ppm	-0.0009 ppm
Concentration per Run 2	13.3979 ppm	1.8818 ppm	0.0000 ppm	386.5408 ppm	0.0035 ppm	0.0003 ppm	0.0008 ppm
Concentration per Run 3	13.4153 ppm	1.8744 ppm	0.0003 ppm	377.9124 ppm	0.0034 ppm	0.0011 ppm	-0.0026 ppm
Concentration RSD	0.3 %	1.9 %	76.1 %	4.2 %	1.9 %	118.1 %	190.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0042 ppm	7.4808 ppm	0.0005 ppm	0.5921 ppm	0.0003 ppm	-0.0013 ppm	0.0026 ppm
Concentration per Run 1	-0.0049 ppm	7.4845 ppm	0.0005 ppm	0.6054 ppm	0.0000 ppm	-0.0028 ppm	0.0026 ppm
Concentration per Run 2	-0.0033 ppm	7.4795 ppm	0.0004 ppm	0.5863 ppm	0.0004 ppm	-0.0013 ppm	0.0026 ppm
Concentration per Run 3	-0.0045 ppm	7.4782 ppm	0.0007 ppm	0.5847 ppm	0.0005 ppm	0.0001 ppm	0.0025 ppm
Concentration RSD	19.7 %	0.0 %	24.0 %	1.9 %	79.4 %	111.2 %	2.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0515 ppm	103.9900 %	93.4404 %	90.5879 %	101.1339 %	88.1255 %	93.6826 %
Concentration per Run 1	0.0517 ppm	102.6344 %	93.7930 %	90.6225 %	99.0201 %	88.0536 %	94.0413 %
Concentration per Run 2	0.0516 ppm	104.3325 %	93.1619 %	90.6405 %	102.0501 %	88.1478 %	93.4780 %
Concentration per Run 3	0.0513 ppm	105.0029 %	93.3663 %	90.5009 %	102.3317 %	88.1750 %	93.5285 %
Concentration RSD	0.4 %	1.2 %	0.3 %	0.1 %	1.8 %	0.1 %	0.3 %

LabBook: WG2039392_03122025T5.imexp

Sample: L2512176-02 WG2039008
Analysis started at: 3/12/2025 10:53:00 AM
Comments <Comment>
Rack: 1
Vial: 20

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	0.0192 ppm	0.0025 ppm	0.5422 ppm	0.0123 ppm	0.0000 ppm	21.0967 ppm
Concentration per Run 1	0.0006 ppm	0.0183 ppm	0.0039 ppm	0.5424 ppm	0.0128 ppm	0.0000 ppm	21.9700 ppm
Concentration per Run 2	0.0006 ppm	0.0207 ppm	0.0014 ppm	0.5414 ppm	0.0121 ppm	-0.0001 ppm	20.8389 ppm
Concentration per Run 3	0.0002 ppm	0.0187 ppm	0.0021 ppm	0.5427 ppm	0.0119 ppm	0.0000 ppm	20.4811 ppm
Concentration RSD	52.5 %	6.6 %	52.2 %	0.1 %	3.8 %	96.6 %	3.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	0.0050 ppm	0.0005 ppm	0.0014 ppm	0.7854 ppm	11.5282 ppm	0.0214 ppm
Concentration per Run 1	-0.0001 ppm	0.0051 ppm	0.0003 ppm	0.0013 ppm	0.8177 ppm	12.0012 ppm	0.0215 ppm
Concentration per Run 2	-0.0001 ppm	0.0049 ppm	0.0004 ppm	0.0014 ppm	0.7769 ppm	11.3939 ppm	0.0216 ppm
Concentration per Run 3	-0.0001 ppm	0.0051 ppm	0.0009 ppm	0.0013 ppm	0.7617 ppm	11.1894 ppm	0.0210 ppm
Concentration RSD	25.6 %	2.4 %	56.1 %	4.5 %	3.7 %	3.7 %	1.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	23.1538 ppm	1.1120 ppm	0.0010 ppm	377.3621 ppm	0.0039 ppm	0.0005 ppm	-0.0010 ppm
Concentration per Run 1	23.1694 ppm	1.1583 ppm	0.0012 ppm	407.2385 ppm	0.0041 ppm	0.0006 ppm	-0.0009 ppm
Concentration per Run 2	23.1548 ppm	1.0989 ppm	0.0010 ppm	367.8370 ppm	0.0037 ppm	0.0003 ppm	-0.0006 ppm
Concentration per Run 3	23.1372 ppm	1.0789 ppm	0.0010 ppm	357.0109 ppm	0.0040 ppm	0.0005 ppm	-0.0016 ppm
Concentration RSD	0.1 %	3.7 %	14.9 %	7.0 %	5.0 %	36.5 %	49.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0041 ppm	9.1015 ppm	0.0004 ppm	0.1964 ppm	0.0008 ppm	-0.0007 ppm	0.0014 ppm
Concentration per Run 1	-0.0036 ppm	9.1151 ppm	0.0006 ppm	0.2042 ppm	0.0008 ppm	-0.0001 ppm	0.0014 ppm
Concentration per Run 2	-0.0038 ppm	9.0918 ppm	0.0001 ppm	0.1943 ppm	0.0007 ppm	-0.0012 ppm	0.0013 ppm
Concentration per Run 3	-0.0050 ppm	9.0975 ppm	0.0006 ppm	0.1907 ppm	0.0011 ppm	-0.0009 ppm	0.0015 ppm
Concentration RSD	18.8 %	0.1 %	68.4 %	3.6 %	24.2 %	79.6 %	8.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0085 ppm	100.5263 %	93.8271 %	91.5100 %	97.5049 %	89.3677 %	94.1517 %
Concentration per Run 1	0.0085 ppm	96.3939 %	93.7876 %	91.4170 %	93.1270 %	89.2073 %	94.1164 %
Concentration per Run 2	0.0086 ppm	102.3642 %	93.7674 %	91.5991 %	99.3982 %	89.5131 %	94.0988 %
Concentration per Run 3	0.0085 ppm	102.8209 %	93.9264 %	91.5140 %	99.9897 %	89.3826 %	94.2398 %
Concentration RSD	0.6 %	3.6 %	0.1 %	0.1 %	3.9 %	0.2 %	0.1 %

LabBook: WG2039392_03122025T5.imexp

Sample: L2512176-03 WG2039008
Analysis started at: 3/12/2025 10:59:25 AM
Comments <Comment>
Rack: 1
Vial: 21

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	0.0200 ppm	0.0006 ppm	0.0196 ppm	0.0361 ppm	-0.0001 ppm	89.5822 ppm
Concentration per Run 1	0.0002 ppm	0.0192 ppm	-0.0004 ppm	0.0195 ppm	0.0377 ppm	-0.0001 ppm	93.7433 ppm
Concentration per Run 2	0.0004 ppm	0.0275 ppm	0.0019 ppm	0.0199 ppm	0.0356 ppm	-0.0001 ppm	88.4388 ppm
Concentration per Run 3	0.0006 ppm	0.0132 ppm	0.0004 ppm	0.0194 ppm	0.0351 ppm	-0.0001 ppm	86.5645 ppm
Concentration RSD	40.6 %	35.8 %	179.6 %	1.2 %	3.8 %	27.9 %	4.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0012 ppm	0.0104 ppm	5.6216 ppm	0.0028 ppm
Concentration per Run 1	-0.0003 ppm	0.0000 ppm	0.0002 ppm	0.0014 ppm	0.0105 ppm	5.8783 ppm	0.0033 ppm
Concentration per Run 2	-0.0003 ppm	0.0001 ppm	-0.0001 ppm	0.0012 ppm	0.0103 ppm	5.5597 ppm	0.0025 ppm
Concentration per Run 3	-0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0011 ppm	0.0104 ppm	5.4266 ppm	0.0028 ppm
Concentration RSD	7.4 %	123.1 %	426.7 %	12.3 %	1.0 %	4.1 %	14.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	12.7446 ppm	0.0018 ppm	0.0002 ppm	230.7484 ppm	0.0003 ppm	0.0005 ppm	-0.0010 ppm
Concentration per Run 1	12.7746 ppm	0.0019 ppm	0.0002 ppm	243.9371 ppm	0.0002 ppm	-0.0001 ppm	-0.0009 ppm
Concentration per Run 2	12.7498 ppm	0.0019 ppm	0.0004 ppm	226.3156 ppm	0.0004 ppm	0.0006 ppm	-0.0008 ppm
Concentration per Run 3	12.7096 ppm	0.0017 ppm	0.0002 ppm	221.9925 ppm	0.0001 ppm	0.0008 ppm	-0.0014 ppm
Concentration RSD	0.3 %	5.5 %	58.3 %	5.0 %	63.0 %	97.7 %	27.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0015 ppm	4.9793 ppm	0.0004 ppm	0.3655 ppm	0.0002 ppm	0.0011 ppm	0.0002 ppm
Concentration per Run 1	-0.0005 ppm	4.9798 ppm	0.0004 ppm	0.3811 ppm	0.0002 ppm	0.0007 ppm	0.0002 ppm
Concentration per Run 2	-0.0027 ppm	4.9754 ppm	0.0006 ppm	0.3617 ppm	-0.0001 ppm	0.0015 ppm	0.0001 ppm
Concentration per Run 3	-0.0013 ppm	4.9828 ppm	0.0003 ppm	0.3537 ppm	0.0003 ppm	0.0010 ppm	0.0003 ppm
Concentration RSD	72.7 %	0.1 %	29.0 %	3.9 %	150.3 %	37.0 %	49.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0024 ppm	99.4827 %	94.8495 %	91.8180 %	97.0351 %	90.4000 %	94.9642 %
Concentration per Run 1	0.0024 ppm	95.8891 %	94.5383 %	91.7139 %	92.8137 %	90.3097 %	94.6111 %
Concentration per Run 2	0.0024 ppm	100.4418 %	94.8356 %	91.9185 %	97.8927 %	90.5185 %	94.9365 %
Concentration per Run 3	0.0024 ppm	102.1172 %	95.1747 %	91.8216 %	100.3990 %	90.3720 %	95.3450 %
Concentration RSD	1.6 %	3.2 %	0.3 %	0.1 %	4.0 %	0.1 %	0.4 %

LabBook: WG2039392_03122025T5.imexp

Sample: L2512176-04 WG2039008
Analysis started at: 3/12/2025 11:05:54 AM
Comments <Comment>
Rack: 1
Vial: 22

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0007 ppm	0.0271 ppm	0.0023 ppm	0.0205 ppm	0.0687 ppm	-0.0001 ppm	53.1889 ppm
Concentration per Run 1	0.0010 ppm	0.0286 ppm	0.0052 ppm	0.0204 ppm	0.0696 ppm	0.0000 ppm	53.7183 ppm
Concentration per Run 2	0.0005 ppm	0.0287 ppm	0.0006 ppm	0.0204 ppm	0.0684 ppm	0.0000 ppm	52.9479 ppm
Concentration per Run 3	0.0006 ppm	0.0240 ppm	0.0012 ppm	0.0206 ppm	0.0682 ppm	-0.0001 ppm	52.9005 ppm
Concentration RSD	41.8 %	10.0 %	107.6 %	0.7 %	1.1 %	115.0 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0004 ppm	0.0028 ppm	0.0011 ppm	0.0046 ppm	0.0354 ppm	6.9652 ppm	0.0034 ppm
Concentration per Run 1	0.0004 ppm	0.0029 ppm	0.0008 ppm	0.0047 ppm	0.0356 ppm	7.0171 ppm	0.0032 ppm
Concentration per Run 2	0.0003 ppm	0.0027 ppm	0.0014 ppm	0.0044 ppm	0.0341 ppm	6.9697 ppm	0.0031 ppm
Concentration per Run 3	0.0004 ppm	0.0028 ppm	0.0010 ppm	0.0047 ppm	0.0365 ppm	6.9086 ppm	0.0039 ppm
Concentration RSD	5.3 %	2.7 %	26.3 %	3.3 %	3.5 %	0.8 %	13.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	5.8678 ppm	1.0375 ppm	0.0010 ppm	220.5002 ppm	0.0051 ppm	0.0016 ppm	-0.0029 ppm
Concentration per Run 1	5.8752 ppm	1.0464 ppm	0.0010 ppm	223.8709 ppm	0.0050 ppm	0.0015 ppm	-0.0013 ppm
Concentration per Run 2	5.8674 ppm	1.0338 ppm	0.0010 ppm	219.9558 ppm	0.0053 ppm	0.0021 ppm	-0.0037 ppm
Concentration per Run 3	5.8607 ppm	1.0322 ppm	0.0009 ppm	217.6739 ppm	0.0050 ppm	0.0012 ppm	-0.0035 ppm
Concentration RSD	0.1 %	0.7 %	4.7 %	1.4 %	2.9 %	26.5 %	46.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0025 ppm	3.0897 ppm	0.0006 ppm	0.2191 ppm	0.0013 ppm	-0.0009 ppm	0.0016 ppm
Concentration per Run 1	-0.0042 ppm	3.0959 ppm	0.0008 ppm	0.2207 ppm	0.0014 ppm	-0.0003 ppm	0.0017 ppm
Concentration per Run 2	-0.0031 ppm	3.0836 ppm	0.0009 ppm	0.2180 ppm	0.0011 ppm	-0.0018 ppm	0.0016 ppm
Concentration per Run 3	-0.0002 ppm	3.0896 ppm	0.0002 ppm	0.2186 ppm	0.0013 ppm	-0.0007 ppm	0.0016 ppm
Concentration RSD	83.7 %	0.2 %	57.3 %	0.7 %	15.5 %	84.7 %	5.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0881 ppm	106.2055 %	95.9125 %	92.7324 %	103.7667 %	91.6384 %	96.4452 %
Concentration per Run 1	0.0882 ppm	106.4256 %	95.6160 %	92.6273 %	103.2246 %	91.5776 %	96.0373 %
Concentration per Run 2	0.0879 ppm	106.0418 %	96.0988 %	92.7439 %	103.8421 %	91.6922 %	96.7597 %
Concentration per Run 3	0.0881 ppm	106.1491 %	96.0227 %	92.8260 %	104.2334 %	91.6455 %	96.5387 %
Concentration RSD	0.2 %	0.2 %	0.3 %	0.1 %	0.5 %	0.1 %	0.4 %

LabBook: WG2039392_03122025T5.imexp

Sample: L2512176-05 WG2039008
Analysis started at: 3/12/2025 11:12:21 AM
Comments <Comment>
Rack: 1
Vial: 23

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0006 ppm	0.0142 ppm	-0.0004 ppm	0.0106 ppm	0.0488 ppm	-0.0001 ppm	66.4728 ppm
Concentration per Run 1	0.0007 ppm	0.0060 ppm	0.0006 ppm	0.0106 ppm	0.0500 ppm	-0.0001 ppm	68.0814 ppm
Concentration per Run 2	0.0004 ppm	0.0175 ppm	-0.0005 ppm	0.0104 ppm	0.0481 ppm	-0.0001 ppm	65.8055 ppm
Concentration per Run 3	0.0006 ppm	0.0189 ppm	-0.0012 ppm	0.0107 ppm	0.0481 ppm	-0.0001 ppm	65.5317 ppm
Concentration RSD	27.7 %	49.9 %	231.5 %	1.8 %	2.3 %	13.8 %	2.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0002 ppm	0.0012 ppm	0.0004 ppm	0.0020 ppm	0.0096 ppm	4.3524 ppm	0.0018 ppm
Concentration per Run 1	-0.0002 ppm	0.0012 ppm	0.0005 ppm	0.0021 ppm	0.0096 ppm	4.4588 ppm	0.0012 ppm
Concentration per Run 2	-0.0002 ppm	0.0011 ppm	0.0004 ppm	0.0021 ppm	0.0094 ppm	4.2971 ppm	0.0022 ppm
Concentration per Run 3	-0.0001 ppm	0.0013 ppm	0.0002 ppm	0.0019 ppm	0.0099 ppm	4.3012 ppm	0.0021 ppm
Concentration RSD	14.1 %	9.6 %	40.3 %	4.4 %	2.5 %	2.1 %	27.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.7056 ppm	1.4742 ppm	0.0003 ppm	315.0872 ppm	0.0030 ppm	0.0007 ppm	-0.0010 ppm
Concentration per Run 1	10.7000 ppm	1.5123 ppm	0.0003 ppm	329.0603 ppm	0.0029 ppm	0.0015 ppm	-0.0002 ppm
Concentration per Run 2	10.7180 ppm	1.4586 ppm	0.0001 ppm	311.0818 ppm	0.0029 ppm	0.0001 ppm	-0.0015 ppm
Concentration per Run 3	10.6989 ppm	1.4515 ppm	0.0004 ppm	305.1195 ppm	0.0032 ppm	0.0006 ppm	-0.0013 ppm
Concentration RSD	0.1 %	2.3 %	49.4 %	4.0 %	6.6 %	101.9 %	73.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0039 ppm	7.3322 ppm	0.0003 ppm	0.4710 ppm	0.0003 ppm	-0.0010 ppm	0.0019 ppm
Concentration per Run 1	-0.0035 ppm	7.3314 ppm	0.0001 ppm	0.4823 ppm	0.0005 ppm	-0.0009 ppm	0.0021 ppm
Concentration per Run 2	-0.0043 ppm	7.3394 ppm	0.0000 ppm	0.4666 ppm	0.0001 ppm	-0.0019 ppm	0.0018 ppm
Concentration per Run 3	-0.0039 ppm	7.3257 ppm	0.0007 ppm	0.4641 ppm	0.0002 ppm	-0.0002 ppm	0.0020 ppm
Concentration RSD	10.1 %	0.1 %	152.9 %	2.1 %	80.7 %	87.3 %	7.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0266 ppm	103.7107 %	94.4277 %	91.4685 %	100.9232 %	89.4544 %	94.4297 %
Concentration per Run 1	0.0265 ppm	102.7461 %	94.5407 %	91.5400 %	98.5833 %	89.6503 %	94.4792 %
Concentration per Run 2	0.0266 ppm	104.0159 %	94.3604 %	91.5433 %	101.9501 %	89.3842 %	94.3117 %
Concentration per Run 3	0.0266 ppm	104.3701 %	94.3820 %	91.3223 %	102.2361 %	89.3287 %	94.4981 %
Concentration RSD	0.2 %	0.8 %	0.1 %	0.1 %	2.0 %	0.2 %	0.1 %

LabBook: WG2039392_03122025T5.imexp

Sample: L2512176-06 WG2039008
Analysis started at: 3/12/2025 11:18:50 AM
Comments <Comment>
Rack: 1
Vial: 24

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	0.0036 ppm	-0.0007 ppm	0.0012 ppm	0.0001 ppm	0.0000 ppm	0.1287 ppm
Concentration per Run 1	0.0006 ppm	0.0054 ppm	-0.0018 ppm	0.0009 ppm	0.0002 ppm	-0.0001 ppm	0.1287 ppm
Concentration per Run 2	0.0004 ppm	0.0052 ppm	0.0004 ppm	0.0014 ppm	0.0000 ppm	0.0000 ppm	0.1284 ppm
Concentration per Run 3	0.0003 ppm	0.0003 ppm	-0.0007 ppm	0.0012 ppm	0.0002 ppm	-0.0001 ppm	0.1290 ppm
Concentration RSD	31.7 %	79.7 %	167.1 %	19.5 %	123.1 %	89.6 %	0.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0006 ppm	0.0048 ppm	0.0843 ppm	0.0006 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0007 ppm	0.0047 ppm	0.0712 ppm	0.0003 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0008 ppm	0.0052 ppm	0.0804 ppm	0.0005 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0005 ppm	0.0044 ppm	0.1013 ppm	0.0011 ppm
Concentration RSD	71.7 %	31.1 %	48.5 %	21.3 %	8.3 %	18.3 %	67.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0146 ppm	0.0020 ppm	0.0001 ppm	0.6855 ppm	0.0003 ppm	0.0001 ppm	-0.0007 ppm
Concentration per Run 1	0.0160 ppm	0.0020 ppm	0.0002 ppm	0.7011 ppm	0.0004 ppm	0.0002 ppm	-0.0009 ppm
Concentration per Run 2	0.0138 ppm	0.0019 ppm	0.0000 ppm	0.6802 ppm	0.0005 ppm	0.0001 ppm	-0.0009 ppm
Concentration per Run 3	0.0142 ppm	0.0022 ppm	0.0002 ppm	0.6751 ppm	0.0002 ppm	0.0000 ppm	-0.0004 ppm
Concentration RSD	8.1 %	8.2 %	82.6 %	2.0 %	49.3 %	84.8 %	45.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0006 ppm	0.0129 ppm	0.0002 ppm	0.0006 ppm	0.0001 ppm	0.0004 ppm	0.0001 ppm
Concentration per Run 1	-0.0007 ppm	0.0127 ppm	-0.0003 ppm	0.0006 ppm	-0.0001 ppm	0.0011 ppm	0.0000 ppm
Concentration per Run 2	-0.0013 ppm	0.0133 ppm	0.0000 ppm	0.0005 ppm	0.0003 ppm	-0.0008 ppm	0.0000 ppm
Concentration per Run 3	0.0003 ppm	0.0128 ppm	0.0010 ppm	0.0006 ppm	0.0002 ppm	0.0010 ppm	0.0003 ppm
Concentration RSD	142.2 %	2.4 %	285.9 %	7.9 %	137.4 %	265.7 %	116.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0008 ppm	107.9221 %	104.5812 %	99.7900 %	104.5965 %	102.9488 %	104.1307 %
Concentration per Run 1	0.0007 ppm	106.9257 %	104.7448 %	99.8728 %	102.7860 %	103.0817 %	104.1825 %
Concentration per Run 2	0.0009 ppm	108.6610 %	104.2162 %	99.7627 %	105.4493 %	102.7238 %	103.8296 %
Concentration per Run 3	0.0008 ppm	108.1796 %	104.7827 %	99.7345 %	105.5541 %	103.0409 %	104.3799 %
Concentration RSD	8.3 %	0.8 %	0.3 %	0.1 %	1.5 %	0.2 %	0.3 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: CCV
Analysis started at: 3/12/2025 11:25:16 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4984 ppm	0.5084 ppm	0.4913 ppm	0.4813 ppm	0.4947 ppm	0.5332 ppm	0.5259 ppm
Concentration per Run 1	0.4984 ppm	0.5307 ppm	0.4922 ppm	0.4821 ppm	0.5166 ppm	0.5570 ppm	0.5456 ppm
Concentration per Run 2	0.4987 ppm	0.5122 ppm	0.4913 ppm	0.4810 ppm	0.4972 ppm	0.5352 ppm	0.5319 ppm
Concentration per Run 3	0.4982 ppm	0.4823 ppm	0.4905 ppm	0.4809 ppm	0.4702 ppm	0.5076 ppm	0.5002 ppm
Recovery Percentage 1	99.686 %	101.678 %	98.269 %	96.265 %	98.933 %	106.647 %	105.176 %
Concentration RSD	0.0 %	4.8 %	0.2 %	0.1 %	4.7 %	4.6 %	4.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4822 ppm	0.4918 ppm	0.4848 ppm	0.4786 ppm	0.5281 ppm	5.4262 ppm	0.5197 ppm
Concentration per Run 1	0.4827 ppm	0.4925 ppm	0.4845 ppm	0.4780 ppm	0.5505 ppm	5.6887 ppm	0.5429 ppm
Concentration per Run 2	0.4826 ppm	0.4920 ppm	0.4852 ppm	0.4798 ppm	0.5319 ppm	5.4476 ppm	0.5215 ppm
Concentration per Run 3	0.4813 ppm	0.4909 ppm	0.4846 ppm	0.4779 ppm	0.5020 ppm	5.1423 ppm	0.4946 ppm
Recovery Percentage 1	96.442 %	98.364 %	96.956 %	95.715 %	105.626 %	108.524 %	103.935 %
Concentration RSD	0.2 %	0.2 %	0.1 %	0.2 %	4.6 %	5.0 %	4.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5200 ppm	0.5161 ppm	0.4692 ppm	9.8423 ppm	0.5063 ppm	0.5116 ppm	0.4993 ppm
Concentration per Run 1	0.5236 ppm	0.5385 ppm	0.4687 ppm	10.3170 ppm	0.5072 ppm	0.5124 ppm	0.5014 ppm
Concentration per Run 2	0.5181 ppm	0.5185 ppm	0.4699 ppm	9.8699 ppm	0.5063 ppm	0.5124 ppm	0.4991 ppm
Concentration per Run 3	0.5185 ppm	0.4911 ppm	0.4689 ppm	9.3401 ppm	0.5053 ppm	0.5100 ppm	0.4975 ppm
Recovery Percentage 1	104.010 %	103.212 %	93.835 %	98.423 %	101.254 %	102.322 %	99.865 %
Concentration RSD	0.6 %	4.6 %	0.1 %	5.0 %	0.2 %	0.3 %	0.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4706 ppm	5.8011 ppm	0.5336 ppm	0.5162 ppm	0.5019 ppm	0.4966 ppm	0.4893 ppm
Concentration per Run 1	0.4707 ppm	5.6305 ppm	0.5342 ppm	0.5392 ppm	0.5021 ppm	0.4989 ppm	0.4891 ppm
Concentration per Run 2	0.4704 ppm	5.6198 ppm	0.5345 ppm	0.5182 ppm	0.5018 ppm	0.4979 ppm	0.4901 ppm
Concentration per Run 3	0.4707 ppm	6.1531 ppm	0.5322 ppm	0.4913 ppm	0.5017 ppm	0.4931 ppm	0.4889 ppm
Recovery Percentage 1	94.122 %	110.498 %	106.721 %	103.249 %	100.381 %	99.326 %	97.869 %
Concentration RSD	0.0 %	5.3 %	0.2 %	4.7 %	0.0 %	0.6 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4960 ppm	98.1337 %	101.8342 %	97.5102 %	96.0383 %	100.1691 %	102.1874 %
Concentration per Run 1	0.4963 ppm	94.8949 %	101.4038 %	97.4597 %	91.7734 %	100.0808 %	101.8526 %
Concentration per Run 2	0.4962 ppm	97.2203 %	102.1068 %	97.4294 %	95.9405 %	100.0669 %	102.4113 %
Concentration per Run 3	0.4956 ppm	102.2860 %	101.9920 %	97.6417 %	100.4011 %	100.3598 %	102.2983 %
Recovery Percentage 1	99.207 %						
Concentration RSD	0.1 %	3.9 %	0.4 %	0.1 %	4.5 %	0.2 %	0.3 %

LabBook: WG2039392_03122025T5.imexp

Sample: CCB
Analysis started at: 3/12/2025 11:31:22 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	-0.0074 ppm	-0.0003 ppm	0.0013 ppm	0.0001 ppm	0.0000 ppm	0.0035 ppm
Concentration per Run 1	0.0008 ppm	-0.0081 ppm	-0.0002 ppm	0.0016 ppm	0.0000 ppm	0.0000 ppm	0.0043 ppm
Concentration per Run 2	0.0000 ppm	-0.0131 ppm	-0.0016 ppm	0.0012 ppm	0.0002 ppm	0.0000 ppm	0.0009 ppm
Concentration per Run 3	0.0002 ppm	-0.0010 ppm	0.0007 ppm	0.0011 ppm	0.0000 ppm	0.0000 ppm	0.0052 ppm
Recovery Percentage 1	4.826 %	-7.381 %	-6.808 %	4.433 %	0.730 %	-0.308 %	3.468 %
Concentration RSD	129.9 %	81.9 %	341.8 %	20.3 %	159.9 %	170.3 %	65.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0014 ppm	0.0860 ppm	0.0008 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0014 ppm	0.0675 ppm	-0.0003 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	-0.0003 ppm	0.0004 ppm	0.0020 ppm	0.0983 ppm	0.0019 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0008 ppm	0.0010 ppm	0.0923 ppm	0.0009 ppm
Recovery Percentage 1	0.419 %	-0.052 %	-1.054 %	3.849 %	2.895 %	3.441 %	8.289 %
Concentration RSD	41.9 %	1,046.6 %	149.1 %	101.8 %	36.8 %	19.0 %	133.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0013 ppm	0.0000 ppm	0.0010 ppm	0.1357 ppm	0.0002 ppm	0.0005 ppm	-0.0003 ppm
Concentration per Run 1	0.0005 ppm	0.0001 ppm	0.0011 ppm	0.1433 ppm	0.0001 ppm	0.0007 ppm	-0.0004 ppm
Concentration per Run 2	0.0034 ppm	-0.0001 ppm	0.0010 ppm	0.1432 ppm	0.0004 ppm	0.0001 ppm	-0.0006 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0008 ppm	0.1205 ppm	0.0001 ppm	0.0005 ppm	0.0000 ppm
Recovery Percentage 1	1.339 %	-0.329 %	1.948 %	6.785 %	0.714 %	4.719 %	-0.686 %
Concentration RSD	134.1 %	251.5 %	15.4 %	9.7 %	86.2 %	63.5 %	92.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0009 ppm	0.0000 ppm	0.0006 ppm	0.0000 ppm	0.0001 ppm	-0.0007 ppm	0.0001 ppm
Concentration per Run 1	-0.0024 ppm	-0.0001 ppm	0.0004 ppm	0.0001 ppm	0.0001 ppm	0.0006 ppm	0.0000 ppm
Concentration per Run 2	0.0018 ppm	0.0003 ppm	0.0006 ppm	-0.0001 ppm	0.0000 ppm	-0.0009 ppm	-0.0001 ppm
Concentration per Run 3	-0.0020 ppm	-0.0002 ppm	0.0009 ppm	0.0001 ppm	0.0003 ppm	-0.0018 ppm	0.0002 ppm
Recovery Percentage 1	-8.562 %	0.002 %	1.287 %	0.321 %	1.122 %	-3.521 %	0.563 %
Concentration RSD	267.3 %	2,705.7 %	41.6 %	251.6 %	172.1 %	169.3 %	296.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0007 ppm	101.1936 %	102.5448 %	97.7056 %	97.4326 %	100.5900 %	101.0564 %
Concentration per Run 1	0.0006 ppm	98.0235 %	102.1688 %	97.8298 %	93.8957 %	100.7137 %	100.6283 %
Concentration per Run 2	0.0006 ppm	101.7947 %	102.4324 %	97.8387 %	98.1572 %	100.4541 %	100.9849 %
Concentration per Run 3	0.0007 ppm	103.7627 %	103.0332 %	97.4483 %	100.2448 %	100.6023 %	101.5561 %
Recovery Percentage 1	13.274 %						
Concentration RSD	6.5 %	2.9 %	0.4 %	0.2 %	3.3 %	0.1 %	0.5 %

LabBook: WG2039392_03122025T5.imexp

Sample: L2512350-01d2 WG2039008
Analysis started at: 3/12/2025 11:37:48 AM
Comments <Comment>
Rack: 1
Vial: 27

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0007 ppm	0.0150 ppm	0.0010 ppm	17.5361 ppm	0.0123 ppm	0.0000 ppm	4.0361 ppm
Concentration per Run 1	0.0005 ppm	0.0108 ppm	0.0013 ppm	17.5034 ppm	0.0121 ppm	0.0000 ppm	4.0149 ppm
Concentration per Run 2	0.0006 ppm	0.0241 ppm	0.0005 ppm	17.5711 ppm	0.0125 ppm	0.0000 ppm	4.0934 ppm
Concentration per Run 3	0.0009 ppm	0.0102 ppm	0.0013 ppm	17.5338 ppm	0.0123 ppm	0.0000 ppm	4.0000 ppm
Concentration RSD	25.1 %	52.0 %	43.4 %	0.2 %	1.8 %	113.7 %	1.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0002 ppm	0.0079 ppm	0.1886 ppm	0.1681 ppm	0.7103 ppm	35.4581 ppm	0.0011 ppm
Concentration per Run 1	0.0002 ppm	0.0080 ppm	0.1894 ppm	0.1693 ppm	0.7049 ppm	35.3476 ppm	0.0016 ppm
Concentration per Run 2	0.0002 ppm	0.0078 ppm	0.1884 ppm	0.1675 ppm	0.7198 ppm	35.8149 ppm	0.0007 ppm
Concentration per Run 3	0.0002 ppm	0.0079 ppm	0.1880 ppm	0.1675 ppm	0.7063 ppm	35.2118 ppm	0.0009 ppm
Concentration RSD	12.6 %	1.2 %	0.4 %	0.6 %	1.2 %	0.9 %	41.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	2.8757 ppm	0.0952 ppm	0.0195 ppm	70.1946 ppm	0.2176 ppm	0.0127 ppm	-0.0001 ppm
Concentration per Run 1	2.8869 ppm	0.0946 ppm	0.0195 ppm	70.0906 ppm	0.2178 ppm	0.0130 ppm	-0.0001 ppm
Concentration per Run 2	2.8678 ppm	0.0967 ppm	0.0195 ppm	70.9466 ppm	0.2174 ppm	0.0124 ppm	0.0005 ppm
Concentration per Run 3	2.8725 ppm	0.0943 ppm	0.0195 ppm	69.5465 ppm	0.2175 ppm	0.0126 ppm	-0.0008 ppm
Concentration RSD	0.3 %	1.4 %	0.1 %	1.0 %	0.1 %	2.4 %	580.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0021 ppm	2.2035 ppm	0.0023 ppm	0.0436 ppm	0.0001 ppm	-0.0007 ppm	0.0047 ppm
Concentration per Run 1	0.0003 ppm	2.2001 ppm	0.0023 ppm	0.0433 ppm	0.0003 ppm	-0.0001 ppm	0.0048 ppm
Concentration per Run 2	-0.0021 ppm	2.2094 ppm	0.0022 ppm	0.0442 ppm	0.0001 ppm	-0.0004 ppm	0.0046 ppm
Concentration per Run 3	-0.0045 ppm	2.2010 ppm	0.0023 ppm	0.0434 ppm	0.0001 ppm	-0.0016 ppm	0.0046 ppm
Concentration RSD	113.4 %	0.2 %	1.7 %	1.2 %	70.1 %	121.1 %	2.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.6928 ppm	101.8182 %	98.7704 %	93.9973 %	98.3738 %	94.2617 %	98.0227 %
Concentration per Run 1	0.6926 ppm	102.3078 %	98.4157 %	93.8876 %	98.9336 %	94.4220 %	97.4356 %
Concentration per Run 2	0.6927 ppm	100.3148 %	99.1139 %	94.1675 %	97.1481 %	94.1377 %	98.4485 %
Concentration per Run 3	0.6931 ppm	102.8319 %	98.7816 %	93.9368 %	99.0397 %	94.2255 %	98.1839 %
Concentration RSD	0.0 %	1.3 %	0.4 %	0.2 %	1.1 %	0.2 %	0.5 %

LabBook: WG2039392_03122025T5.imexp

Sample: CCV
Analysis started at: 3/12/2025 11:44:00 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5014 ppm	0.4998 ppm	0.4908 ppm	0.5077 ppm	0.4873 ppm	0.5276 ppm	0.5133 ppm
Concentration per Run 1	0.5010 ppm	0.5173 ppm	0.4926 ppm	0.5099 ppm	0.5103 ppm	0.5525 ppm	0.5415 ppm
Concentration per Run 2	0.5009 ppm	0.5032 ppm	0.4900 ppm	0.5082 ppm	0.4824 ppm	0.5222 ppm	0.5082 ppm
Concentration per Run 3	0.5022 ppm	0.4789 ppm	0.4900 ppm	0.5051 ppm	0.4693 ppm	0.5080 ppm	0.4901 ppm
Recovery Percentage 1	100.279 %	99.958 %	98.166 %	101.545 %	97.462 %	105.514 %	102.654 %
Concentration RSD	0.1 %	3.9 %	0.3 %	0.5 %	4.3 %	4.3 %	5.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4810 ppm	0.4924 ppm	0.4855 ppm	0.4827 ppm	0.5187 ppm	5.3322 ppm	0.5142 ppm
Concentration per Run 1	0.4811 ppm	0.4930 ppm	0.4843 ppm	0.4826 ppm	0.5420 ppm	5.5712 ppm	0.5384 ppm
Concentration per Run 2	0.4806 ppm	0.4917 ppm	0.4869 ppm	0.4834 ppm	0.5130 ppm	5.2737 ppm	0.5095 ppm
Concentration per Run 3	0.4813 ppm	0.4926 ppm	0.4852 ppm	0.4821 ppm	0.5010 ppm	5.1517 ppm	0.4946 ppm
Recovery Percentage 1	96.197 %	98.490 %	97.095 %	96.538 %	103.732 %	106.644 %	102.835 %
Concentration RSD	0.1 %	0.1 %	0.3 %	0.1 %	4.1 %	4.0 %	4.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5193 ppm	0.5077 ppm	0.4703 ppm	9.7733 ppm	0.5068 ppm	0.5122 ppm	0.5009 ppm
Concentration per Run 1	0.5224 ppm	0.5325 ppm	0.4700 ppm	10.2528 ppm	0.5083 ppm	0.5123 ppm	0.5014 ppm
Concentration per Run 2	0.5166 ppm	0.5018 ppm	0.4689 ppm	9.6520 ppm	0.5059 ppm	0.5116 ppm	0.4993 ppm
Concentration per Run 3	0.5189 ppm	0.4889 ppm	0.4720 ppm	9.4149 ppm	0.5063 ppm	0.5126 ppm	0.5019 ppm
Recovery Percentage 1	103.858 %	101.545 %	94.060 %	97.733 %	101.365 %	102.433 %	100.179 %
Concentration RSD	0.6 %	4.4 %	0.3 %	4.4 %	0.3 %	0.1 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4682 ppm	5.6430 ppm	0.5358 ppm	0.5108 ppm	0.5031 ppm	0.4986 ppm	0.4904 ppm
Concentration per Run 1	0.4667 ppm	5.6542 ppm	0.5363 ppm	0.5355 ppm	0.5027 ppm	0.4995 ppm	0.4899 ppm
Concentration per Run 2	0.4694 ppm	5.6316 ppm	0.5338 ppm	0.5058 ppm	0.5040 ppm	0.4972 ppm	0.4908 ppm
Concentration per Run 3	0.4684 ppm	5.6433 ppm	0.5373 ppm	0.4909 ppm	0.5025 ppm	0.4992 ppm	0.4904 ppm
Recovery Percentage 1	93.638 %	107.486 %	107.164 %	102.153 %	100.613 %	99.728 %	98.076 %
Concentration RSD	0.3 %	0.2 %	0.3 %	4.4 %	0.2 %	0.2 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4950 ppm	101.9861 %	102.2137 %	97.6197 %	99.2797 %	100.1667 %	102.3868 %
Concentration per Run 1	0.4953 ppm	98.3514 %	102.2821 %	97.6398 %	95.1482 %	100.0816 %	102.4606 %
Concentration per Run 2	0.4946 ppm	102.7971 %	101.9346 %	97.5264 %	100.4056 %	100.2546 %	102.0774 %
Concentration per Run 3	0.4950 ppm	104.8098 %	102.4243 %	97.6927 %	102.2854 %	100.1639 %	102.6223 %
Recovery Percentage 1	98.998 %						
Concentration RSD	0.1 %	3.2 %	0.2 %	0.1 %	3.7 %	0.1 %	0.3 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: CCB
Analysis started at: 3/12/2025 11:50:05 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	-0.0030 ppm	-0.0009 ppm	0.0141 ppm	0.0000 ppm	0.0000 ppm	0.0057 ppm
Concentration per Run 1	0.0002 ppm	-0.0072 ppm	-0.0007 ppm	0.0143 ppm	0.0000 ppm	0.0000 ppm	0.0087 ppm
Concentration per Run 2	0.0004 ppm	0.0021 ppm	-0.0002 ppm	0.0142 ppm	0.0001 ppm	0.0000 ppm	0.0077 ppm
Concentration per Run 3	0.0003 ppm	-0.0038 ppm	-0.0019 ppm	0.0136 ppm	0.0000 ppm	0.0000 ppm	0.0006 ppm
Recovery Percentage 1	3.915 %	-2.972 %	-18.171 %	46.870 %	0.109 %	0.049 %	5.690 %
Concentration RSD	38.8 %	159.9 %	95.8 %	2.9 %	828.3 %	586.3 %	78.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0005 ppm	0.0035 ppm	0.0445 ppm	0.0011 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0002 ppm	0.0006 ppm	0.0029 ppm	0.0405 ppm	0.0016 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	-0.0002 ppm	0.0004 ppm	0.0039 ppm	0.0444 ppm	0.0006 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0004 ppm	0.0037 ppm	0.0487 ppm	0.0011 ppm
Recovery Percentage 1	0.070 %	0.539 %	-0.658 %	4.690 %	6.995 %	1.781 %	10.649 %
Concentration RSD	581.3 %	25.3 %	252.5 %	19.8 %	15.4 %	9.1 %	47.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0013 ppm	0.0003 ppm	0.0010 ppm	0.0680 ppm	0.0001 ppm	0.0000 ppm	-0.0006 ppm
Concentration per Run 1	0.0013 ppm	0.0004 ppm	0.0011 ppm	0.0701 ppm	0.0001 ppm	0.0002 ppm	-0.0013 ppm
Concentration per Run 2	0.0012 ppm	0.0002 ppm	0.0012 ppm	0.0644 ppm	0.0001 ppm	0.0000 ppm	-0.0008 ppm
Concentration per Run 3	0.0013 ppm	0.0003 ppm	0.0008 ppm	0.0694 ppm	0.0002 ppm	0.0000 ppm	0.0004 ppm
Recovery Percentage 1	1.280 %	2.867 %	2.091 %	3.398 %	0.564 %	0.493 %	-1.119 %
Concentration RSD	6.0 %	25.2 %	16.5 %	4.6 %	36.3 %	219.9 %	148.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0017 ppm	-0.0001 ppm	0.0008 ppm	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0002 ppm
Concentration per Run 1	-0.0034 ppm	0.0002 ppm	0.0013 ppm	0.0000 ppm	-0.0002 ppm	-0.0006 ppm	0.0000 ppm
Concentration per Run 2	-0.0011 ppm	-0.0004 ppm	0.0013 ppm	0.0000 ppm	0.0000 ppm	0.0016 ppm	0.0001 ppm
Concentration per Run 3	-0.0007 ppm	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0006 ppm	0.0002 ppm	0.0004 ppm
Recovery Percentage 1	-17.373 %	-0.019 %	1.622 %	-0.102 %	1.223 %	1.872 %	1.569 %
Concentration RSD	81.3 %	318.8 %	99.8 %	252.2 %	324.6 %	303.9 %	111.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0008 ppm	103.2413 %	102.4673 %	97.7932 %	99.2373 %	100.4955 %	100.7559 %
Concentration per Run 1	0.0009 ppm	100.6511 %	102.4036 %	97.7664 %	95.4894 %	100.3178 %	100.7029 %
Concentration per Run 2	0.0009 ppm	103.7700 %	102.4584 %	97.8673 %	100.3819 %	100.5557 %	100.7485 %
Concentration per Run 3	0.0007 ppm	105.3027 %	102.5398 %	97.7459 %	101.8405 %	100.6130 %	100.8162 %
Recovery Percentage 1	16.384 %						
Concentration RSD	8.0 %	2.3 %	0.1 %	0.1 %	3.4 %	0.2 %	0.1 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: WG2038617-1 WG2038617
Analysis started at: 3/12/2025 1:00:59 PM
Comments <Comment>
Rack: 1
Vial: 28

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	0.0125 ppm	-0.0006 ppm	0.0011 ppm	0.0003 ppm	0.0000 ppm	0.0505 ppm
Concentration per Run 1	0.0005 ppm	0.0139 ppm	-0.0017 ppm	0.0009 ppm	0.0003 ppm	0.0000 ppm	0.0494 ppm
Concentration per Run 2	0.0005 ppm	0.0150 ppm	0.0002 ppm	0.0010 ppm	0.0003 ppm	0.0000 ppm	0.0456 ppm
Concentration per Run 3	0.0004 ppm	0.0086 ppm	-0.0003 ppm	0.0013 ppm	0.0003 ppm	0.0000 ppm	0.0566 ppm
Recovery Percentage 1	6.423 %	12.494 %	-11.409 %	3.549 %	3.121 %	-0.344 %	50.523 %
Concentration RSD	11.4 %	27.2 %	169.1 %	18.3 %	9.5 %	126.4 %	11.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0001 ppm	0.0001 ppm	0.0005 ppm	0.0008 ppm	0.0365 ppm	0.0223 ppm	0.0006 ppm
Concentration per Run 1	0.0001 ppm	0.0001 ppm	0.0005 ppm	0.0008 ppm	0.0372 ppm	0.0327 ppm	0.0012 ppm
Concentration per Run 2	0.0001 ppm	0.0001 ppm	0.0007 ppm	0.0006 ppm	0.0370 ppm	0.0038 ppm	0.0012 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0009 ppm	0.0353 ppm	0.0304 ppm	-0.0005 ppm
Recovery Percentage 1	2.539 %	0.503 %	5.022 %	7.814 %	72.937 %	0.893 %	6.161 %
Concentration RSD	16.0 %	16.3 %	41.8 %	16.0 %	2.8 %	71.9 %	161.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0064 ppm	0.0021 ppm	0.0002 ppm	0.0641 ppm	0.0005 ppm	0.1081 ppm	-0.0004 ppm
Concentration per Run 1	0.0091 ppm	0.0024 ppm	0.0002 ppm	0.0709 ppm	0.0004 ppm	0.1050 ppm	-0.0004 ppm
Concentration per Run 2	0.0054 ppm	0.0019 ppm	0.0001 ppm	0.0630 ppm	0.0004 ppm	0.1096 ppm	-0.0004 ppm
Concentration per Run 3	0.0046 ppm	0.0018 ppm	0.0002 ppm	0.0586 ppm	0.0006 ppm	0.1097 ppm	-0.0005 ppm
Recovery Percentage 1	6.358 %	20.567 %	0.398 %	3.207 %	1.811 %	1,081.159 %	-0.884 %
Concentration RSD	38.0 %	16.2 %	32.0 %	9.7 %	20.1 %	2.5 %	16.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0029 ppm	0.0174 ppm	0.0064 ppm	0.0002 ppm	0.0013 ppm	-0.0008 ppm	0.0002 ppm
Concentration per Run 1	-0.0016 ppm	0.0167 ppm	0.0061 ppm	0.0001 ppm	0.0015 ppm	-0.0005 ppm	0.0002 ppm
Concentration per Run 2	-0.0037 ppm	0.0177 ppm	0.0070 ppm	0.0002 ppm	0.0014 ppm	-0.0007 ppm	0.0003 ppm
Concentration per Run 3	-0.0035 ppm	0.0177 ppm	0.0061 ppm	0.0002 ppm	0.0011 ppm	-0.0010 ppm	0.0002 ppm
Recovery Percentage 1	-29.415 %	3.473 %	12.815 %	2.014 %	13.351 %	-3.777 %	2.154 %
Concentration RSD	39.1 %	3.6 %	7.6 %	33.4 %	16.3 %	33.7 %	26.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0084 ppm	102.0328 %	102.7449 %	101.6182 %	100.5508 %	103.2924 %	103.8986 %
Concentration per Run 1	0.0081 ppm	99.0908 %	102.6908 %	104.4269 %	96.9893 %	106.2643 %	103.8139 %
Concentration per Run 2	0.0085 ppm	103.2392 %	102.4273 %	99.9858 %	101.8356 %	101.8404 %	103.5347 %
Concentration per Run 3	0.0084 ppm	103.7683 %	103.1166 %	100.4420 %	102.8274 %	101.7725 %	104.3472 %
Recovery Percentage 1	167.085 %						
Concentration RSD	2.9 %	2.5 %	0.3 %	2.4 %	3.1 %	2.5 %	0.4 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: WG2038617-2d2 WG2038617
Analysis started at: 3/12/2025 1:07:20 PM
Comments <Comment>
Rack: 1
Vial: 29

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.3127 ppm	15.0282 ppm	1.1497 ppm	0.8111 ppm	1.1445 ppm	0.6676 ppm	19.7668 ppm
Concentration per Run 1	0.3148 ppm	15.8626 ppm	1.1663 ppm	0.8234 ppm	1.2063 ppm	0.7046 ppm	20.8627 ppm
Concentration per Run 2	0.3130 ppm	14.8314 ppm	1.1515 ppm	0.8131 ppm	1.1306 ppm	0.6585 ppm	19.4961 ppm
Concentration per Run 3	0.3102 ppm	14.3905 ppm	1.1313 ppm	0.7968 ppm	1.0965 ppm	0.6398 ppm	18.9415 ppm
Concentration RSD	0.7 %	5.0 %	1.5 %	1.7 %	4.9 %	5.0 %	5.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.7582 ppm	0.3025 ppm	0.6687 ppm	0.7570 ppm	19.7505 ppm	3.9585 ppm	0.5250 ppm
Concentration per Run 1	0.7689 ppm	0.3068 ppm	0.6730 ppm	0.7611 ppm	20.8266 ppm	4.1703 ppm	0.5546 ppm
Concentration per Run 2	0.7600 ppm	0.3031 ppm	0.6687 ppm	0.7558 ppm	19.4828 ppm	3.9188 ppm	0.5178 ppm
Concentration per Run 3	0.7456 ppm	0.2975 ppm	0.6645 ppm	0.7541 ppm	18.9421 ppm	3.7865 ppm	0.5027 ppm
Concentration RSD	1.6 %	1.6 %	0.6 %	0.5 %	4.9 %	4.9 %	5.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	5.2088 ppm	2.0793 ppm	0.4691 ppm	7.1706 ppm	1.1627 ppm	0.3512 ppm	0.3208 ppm
Concentration per Run 1	5.2353 ppm	2.1934 ppm	0.4747 ppm	7.5564 ppm	1.1788 ppm	0.3564 ppm	0.3246 ppm
Concentration per Run 2	5.2137 ppm	2.0515 ppm	0.4701 ppm	7.0760 ppm	1.1660 ppm	0.3511 ppm	0.3222 ppm
Concentration per Run 3	5.1774 ppm	1.9928 ppm	0.4624 ppm	6.8793 ppm	1.1434 ppm	0.3461 ppm	0.3155 ppm
Concentration RSD	0.6 %	5.0 %	1.3 %	4.9 %	1.5 %	1.5 %	1.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.6047 ppm	5.7268 ppm	0.2901 ppm	0.5479 ppm	0.9337 ppm	0.7412 ppm	0.3733 ppm
Concentration per Run 1	0.6166 ppm	5.8677 ppm	0.2954 ppm	0.5776 ppm	0.9376 ppm	0.7514 ppm	0.3759 ppm
Concentration per Run 2	0.6051 ppm	5.7474 ppm	0.2903 ppm	0.5405 ppm	0.9334 ppm	0.7421 ppm	0.3732 ppm
Concentration per Run 3	0.5923 ppm	5.5654 ppm	0.2845 ppm	0.5256 ppm	0.9299 ppm	0.7302 ppm	0.3709 ppm
Concentration RSD	2.0 %	2.7 %	1.9 %	4.9 %	0.4 %	1.4 %	0.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.6194 ppm	105.3487 %	106.2235 %	103.9709 %	98.6474 %	99.1330 %	102.3291 %
Concentration per Run 1	0.6277 ppm	100.6573 %	106.1427 %	104.0475 %	93.9057 %	99.2597 %	102.2229 %
Concentration per Run 2	0.6209 ppm	106.5946 %	106.2905 %	103.9177 %	99.7435 %	98.9816 %	102.2909 %
Concentration per Run 3	0.6095 ppm	108.7943 %	106.2372 %	103.9474 %	102.2930 %	99.1577 %	102.4736 %
Concentration RSD	1.5 %	4.0 %	0.1 %	0.1 %	4.4 %	0.1 %	0.1 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: WG2038617-3d2 WG2038617
Analysis started at: 3/12/2025 1:13:23 PM
Comments <Comment>
Rack: 1
Vial: 30

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.3166 ppm	14.8178 ppm	1.1949 ppm	0.8375 ppm	1.1243 ppm	0.6575 ppm	19.4426 ppm
Concentration per Run 1	0.3174 ppm	15.3689 ppm	1.2009 ppm	0.8405 ppm	1.1652 ppm	0.6809 ppm	20.1364 ppm
Concentration per Run 2	0.3168 ppm	14.6646 ppm	1.1974 ppm	0.8400 ppm	1.1129 ppm	0.6522 ppm	19.2635 ppm
Concentration per Run 3	0.3156 ppm	14.4197 ppm	1.1864 ppm	0.8321 ppm	1.0947 ppm	0.6393 ppm	18.9279 ppm
Concentration RSD	0.3 %	3.3 %	0.6 %	0.6 %	3.3 %	3.2 %	3.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.8025 ppm	0.3150 ppm	0.6770 ppm	0.7747 ppm	19.8912 ppm	3.8610 ppm	0.5160 ppm
Concentration per Run 1	0.8062 ppm	0.3165 ppm	0.6799 ppm	0.7773 ppm	20.6222 ppm	4.0099 ppm	0.5353 ppm
Concentration per Run 2	0.8044 ppm	0.3158 ppm	0.6758 ppm	0.7731 ppm	19.6870 ppm	3.8240 ppm	0.5120 ppm
Concentration per Run 3	0.7968 ppm	0.3126 ppm	0.6754 ppm	0.7738 ppm	19.3645 ppm	3.7492 ppm	0.5007 ppm
Concentration RSD	0.6 %	0.7 %	0.4 %	0.3 %	3.3 %	3.5 %	3.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	5.3316 ppm	2.2005 ppm	0.4786 ppm	6.8105 ppm	1.2106 ppm	0.3651 ppm	0.3271 ppm
Concentration per Run 1	5.3309 ppm	2.2801 ppm	0.4806 ppm	7.0626 ppm	1.2162 ppm	0.3668 ppm	0.3303 ppm
Concentration per Run 2	5.3273 ppm	2.1833 ppm	0.4800 ppm	6.7512 ppm	1.2134 ppm	0.3658 ppm	0.3281 ppm
Concentration per Run 3	5.3365 ppm	2.1382 ppm	0.4751 ppm	6.6176 ppm	1.2022 ppm	0.3628 ppm	0.3231 ppm
Concentration RSD	0.1 %	3.3 %	0.6 %	3.4 %	0.6 %	0.6 %	1.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.6189 ppm	4.9969 ppm	0.3019 ppm	0.5148 ppm	0.9214 ppm	0.7937 ppm	0.3796 ppm
Concentration per Run 1	0.6168 ppm	5.0938 ppm	0.3043 ppm	0.5336 ppm	0.9238 ppm	0.7974 ppm	0.3805 ppm
Concentration per Run 2	0.6214 ppm	5.0101 ppm	0.3017 ppm	0.5113 ppm	0.9186 ppm	0.7945 ppm	0.3790 ppm
Concentration per Run 3	0.6186 ppm	4.8869 ppm	0.2996 ppm	0.4996 ppm	0.9217 ppm	0.7891 ppm	0.3794 ppm
Concentration RSD	0.4 %	2.1 %	0.8 %	3.4 %	0.3 %	0.5 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.6436 ppm	104.6803 %	105.9695 %	103.9500 %	98.2871 %	98.8368 %	101.3978 %
Concentration per Run 1	0.6460 ppm	102.2270 %	105.8894 %	104.0977 %	95.1844 %	98.8559 %	101.3698 %
Concentration per Run 2	0.6460 ppm	105.2669 %	106.0479 %	103.9910 %	99.0096 %	98.6858 %	101.5633 %
Concentration per Run 3	0.6389 ppm	106.5470 %	105.9710 %	103.7613 %	100.6672 %	98.9687 %	101.2605 %
Concentration RSD	0.6 %	2.1 %	0.1 %	0.2 %	2.9 %	0.1 %	0.2 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: eL2510636-02 WG2036123
Analysis started at: 3/12/2025 1:20:19 PM
Comments <Comment>
Rack: 1
Vial: 31

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	0.1354 ppm	0.0022 ppm	0.0276 ppm	0.2040 ppm	0.0003 ppm	77.0553 ppm
Concentration per Run 1	0.0008 ppm	0.1297 ppm	0.0022 ppm	0.0281 ppm	0.2095 ppm	0.0003 ppm	79.3132 ppm
Concentration per Run 2	0.0002 ppm	0.1378 ppm	0.0025 ppm	0.0279 ppm	0.2029 ppm	0.0003 ppm	76.4632 ppm
Concentration per Run 3	0.0002 ppm	0.1385 ppm	0.0018 ppm	0.0269 ppm	0.1997 ppm	0.0003 ppm	75.3897 ppm
Concentration RSD	98.0 %	3.6 %	15.9 %	2.4 %	2.4 %	9.9 %	2.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0025 ppm	0.0048 ppm	0.0008 ppm	0.0046 ppm	0.0240 ppm	11.4725 ppm	0.0065 ppm
Concentration per Run 1	0.0025 ppm	0.0047 ppm	0.0009 ppm	0.0048 ppm	0.0244 ppm	11.8055 ppm	0.0057 ppm
Concentration per Run 2	0.0025 ppm	0.0049 ppm	0.0009 ppm	0.0046 ppm	0.0244 ppm	11.3879 ppm	0.0059 ppm
Concentration per Run 3	0.0026 ppm	0.0048 ppm	0.0007 ppm	0.0044 ppm	0.0231 ppm	11.2242 ppm	0.0080 ppm
Concentration RSD	0.8 %	1.3 %	15.4 %	4.4 %	3.1 %	2.6 %	19.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	8.9194 ppm	0.8320 ppm	0.0012 ppm	844.4325 [SIC 500]	0.0068 ppm	0.0103 ppm	0.0016 ppm
Concentration per Run 1	8.9182 ppm	0.8565 ppm	0.0013 ppm	927.2748 ppm	0.0070 ppm	0.0101 ppm	0.0023 ppm
Concentration per Run 2	8.9277 ppm	0.8256 ppm	0.0012 ppm	828.0988 ppm	0.0068 ppm	0.0105 ppm	0.0021 ppm
Concentration per Run 3	8.9124 ppm	0.8140 ppm	0.0010 ppm	777.9238 ppm	0.0067 ppm	0.0103 ppm	0.0006 ppm
Concentration RSD	0.1 %	2.6 %	14.0 %	9.0 %	2.8 %	2.1 %	57.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0032 ppm	7.1452 ppm	0.0001 ppm	0.4466 ppm	0.0001 ppm	-0.0006 ppm	0.0012 ppm
Concentration per Run 1	-0.0040 ppm	7.1533 ppm	0.0003 ppm	0.4600 ppm	0.0001 ppm	-0.0005 ppm	0.0010 ppm
Concentration per Run 2	-0.0025 ppm	7.1279 ppm	0.0000 ppm	0.4435 ppm	0.0002 ppm	0.0002 ppm	0.0013 ppm
Concentration per Run 3	-0.0032 ppm	7.1544 ppm	0.0000 ppm	0.4362 ppm	0.0001 ppm	-0.0016 ppm	0.0014 ppm
Concentration RSD	23.4 %	0.2 %	193.4 %	2.7 %	43.4 %	134.7 %	13.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0159 ppm	99.0171 %	89.0553 %	87.9226 %	96.2386 %	83.0442 %	88.6521 %
Concentration per Run 1	0.0159 ppm	97.0463 %	89.0572 %	88.1940 %	93.9095 %	83.0573 %	88.6132 %
Concentration per Run 2	0.0159 ppm	99.6109 %	88.8752 %	87.9129 %	96.7406 %	83.2066 %	88.4940 %
Concentration per Run 3	0.0158 ppm	100.3943 %	89.2334 %	87.6608 %	98.0657 %	82.8687 %	88.8490 %
Concentration RSD	0.2 %	1.8 %	0.2 %	0.3 %	2.2 %	0.2 %	0.2 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: eL2510636-03 WG2036123
Analysis started at: 3/12/2025 1:26:47 PM
Comments <Comment>
Rack: 1
Vial: 32

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0009 ppm	0.1346 ppm	0.0002 ppm	0.0274 ppm	0.2075 ppm	0.0002 ppm	78.3393 ppm
Concentration per Run 1	0.0009 ppm	0.1385 ppm	-0.0006 ppm	0.0273 ppm	0.2144 ppm	0.0003 ppm	80.8758 ppm
Concentration per Run 2	0.0011 ppm	0.1359 ppm	-0.0013 ppm	0.0276 ppm	0.2064 ppm	0.0002 ppm	77.9427 ppm
Concentration per Run 3	0.0007 ppm	0.1295 ppm	0.0026 ppm	0.0274 ppm	0.2017 ppm	0.0002 ppm	76.1993 ppm
Concentration RSD	23.9 %	3.4 %	925.3 %	0.5 %	3.1 %	9.6 %	3.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0026 ppm	0.0047 ppm	0.0005 ppm	0.0051 ppm	0.0176 ppm	11.8005 ppm	0.0082 ppm
Concentration per Run 1	0.0026 ppm	0.0049 ppm	0.0003 ppm	0.0052 ppm	0.0182 ppm	12.1950 ppm	0.0089 ppm
Concentration per Run 2	0.0026 ppm	0.0047 ppm	0.0005 ppm	0.0050 ppm	0.0172 ppm	11.7261 ppm	0.0082 ppm
Concentration per Run 3	0.0025 ppm	0.0046 ppm	0.0005 ppm	0.0052 ppm	0.0173 ppm	11.4804 ppm	0.0075 ppm
Concentration RSD	1.0 %	2.7 %	23.9 %	2.7 %	3.1 %	3.1 %	8.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	8.9678 ppm	0.8479 ppm	0.0004 ppm	679.0050 [SIC 500]	0.0069 ppm	0.0103 ppm	0.0004 ppm
Concentration per Run 1	9.0088 ppm	0.8773 ppm	0.0005 ppm	744.2614 ppm	0.0070 ppm	0.0104 ppm	-0.0009 ppm
Concentration per Run 2	8.9389 ppm	0.8433 ppm	0.0005 ppm	672.4541 ppm	0.0070 ppm	0.0110 ppm	0.0020 ppm
Concentration per Run 3	8.9558 ppm	0.8230 ppm	0.0003 ppm	620.2996 ppm	0.0069 ppm	0.0095 ppm	0.0002 ppm
Concentration RSD	0.4 %	3.2 %	32.4 %	9.2 %	0.8 %	7.4 %	328.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0020 ppm	7.1705 ppm	0.0002 ppm	0.4519 ppm	-0.0001 ppm	0.0002 ppm	0.0013 ppm
Concentration per Run 1	-0.0029 ppm	7.1729 ppm	-0.0004 ppm	0.4676 ppm	0.0002 ppm	0.0005 ppm	0.0013 ppm
Concentration per Run 2	-0.0036 ppm	7.1746 ppm	0.0008 ppm	0.4496 ppm	-0.0003 ppm	-0.0004 ppm	0.0015 ppm
Concentration per Run 3	0.0005 ppm	7.1640 ppm	0.0003 ppm	0.4384 ppm	-0.0001 ppm	0.0005 ppm	0.0011 ppm
Concentration RSD	107.1 %	0.1 %	254.0 %	3.3 %	452.4 %	253.3 %	16.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0158 ppm	98.6861 %	89.0812 %	87.5058 %	95.1517 %	82.9122 %	88.4537 %
Concentration per Run 1	0.0157 ppm	96.5693 %	88.6789 %	87.2257 %	92.5868 %	82.6838 %	87.9157 %
Concentration per Run 2	0.0159 ppm	98.9156 %	89.3399 %	87.5007 %	95.3015 %	82.8766 %	88.7463 %
Concentration per Run 3	0.0158 ppm	100.5734 %	89.2248 %	87.7911 %	97.5667 %	83.1761 %	88.6991 %
Concentration RSD	0.5 %	2.0 %	0.4 %	0.3 %	2.6 %	0.3 %	0.5 %

LabBook: WG2039392_03122025T5.imexp

Sample: L2512325-05 WG2039056
Analysis started at: 3/12/2025 1:33:14 PM
Comments <Comment>
Rack: 1
Vial: 43

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0039 ppm	0.0003 ppm	0.0190 ppm	0.0446 ppm	-0.0001 ppm	15.4011 ppm
Concentration per Run 1	0.0002 ppm	0.0064 ppm	-0.0011 ppm	0.0193 ppm	0.0464 ppm	-0.0001 ppm	16.0500 ppm
Concentration per Run 2	-0.0001 ppm	0.0063 ppm	0.0010 ppm	0.0188 ppm	0.0440 ppm	-0.0001 ppm	15.1907 ppm
Concentration per Run 3	0.0002 ppm	-0.0012 ppm	0.0010 ppm	0.0187 ppm	0.0434 ppm	0.0000 ppm	14.9627 ppm
Concentration RSD	140.1 %	112.6 %	415.0 %	1.7 %	3.6 %	12.5 %	3.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0013 ppm	0.0007 ppm	0.0102 ppm	1.3752 ppm	0.0018 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0011 ppm	0.0006 ppm	0.0115 ppm	1.4549 ppm	0.0013 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0013 ppm	0.0006 ppm	0.0091 ppm	1.3546 ppm	0.0013 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0016 ppm	0.0009 ppm	0.0099 ppm	1.3160 ppm	0.0029 ppm
Concentration RSD	224.7 %	571.6 %	16.1 %	23.9 %	12.0 %	5.2 %	50.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	7.1774 ppm	0.0005 ppm	0.0003 ppm	16.4440 ppm	0.0002 ppm	0.0010 ppm	-0.0009 ppm
Concentration per Run 1	7.1911 ppm	0.0008 ppm	0.0004 ppm	17.1835 ppm	0.0001 ppm	0.0009 ppm	-0.0013 ppm
Concentration per Run 2	7.1645 ppm	0.0004 ppm	0.0003 ppm	16.2543 ppm	0.0002 ppm	0.0007 ppm	-0.0018 ppm
Concentration per Run 3	7.1765 ppm	0.0002 ppm	0.0003 ppm	15.8944 ppm	0.0003 ppm	0.0014 ppm	0.0003 ppm
Concentration RSD	0.2 %	73.0 %	9.3 %	4.0 %	53.2 %	34.6 %	119.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0031 ppm	9.8484 ppm	0.0000 ppm	0.0901 ppm	0.0004 ppm	-0.0005 ppm	0.0003 ppm
Concentration per Run 1	-0.0027 ppm	9.8527 ppm	0.0002 ppm	0.0943 ppm	0.0003 ppm	0.0009 ppm	0.0004 ppm
Concentration per Run 2	-0.0047 ppm	9.8300 ppm	-0.0001 ppm	0.0888 ppm	0.0003 ppm	-0.0007 ppm	0.0004 ppm
Concentration per Run 3	-0.0020 ppm	9.8625 ppm	-0.0002 ppm	0.0872 ppm	0.0006 ppm	-0.0017 ppm	0.0003 ppm
Concentration RSD	44.0 %	0.2 %	443.0 %	4.1 %	37.8 %	262.2 %	13.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0009 ppm	100.9221 %	101.6342 %	97.0579 %	97.7081 %	99.5294 %	101.1597 %
Concentration per Run 1	0.0009 ppm	97.9245 %	101.5716 %	97.1768 %	93.8240 %	99.5163 %	100.9615 %
Concentration per Run 2	0.0009 ppm	101.4716 %	101.6504 %	96.9734 %	98.6232 %	99.7022 %	101.2425 %
Concentration per Run 3	0.0008 ppm	103.3702 %	101.6806 %	97.0233 %	100.6770 %	99.3696 %	101.2751 %
Concentration RSD	8.3 %	2.7 %	0.1 %	0.1 %	3.6 %	0.2 %	0.2 %

LabBook: WG2039392_03122025T5.imexp

Sample: L2512325-06 WG2039056
Analysis started at: 3/12/2025 1:39:34 PM
Comments <Comment>
Rack: 1
Vial: 44

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0040 ppm	-0.0009 ppm	0.0135 ppm	0.0106 ppm	-0.0001 ppm	11.5706 ppm
Concentration per Run 1	0.0007 ppm	0.0034 ppm	-0.0013 ppm	0.0135 ppm	0.0111 ppm	-0.0001 ppm	12.1496 ppm
Concentration per Run 2	0.0002 ppm	0.0080 ppm	-0.0012 ppm	0.0134 ppm	0.0105 ppm	0.0000 ppm	11.3902 ppm
Concentration per Run 3	0.0001 ppm	0.0006 ppm	-0.0001 ppm	0.0136 ppm	0.0102 ppm	0.0000 ppm	11.1720 ppm
Concentration RSD	101.9 %	92.8 %	74.2 %	0.8 %	4.1 %	28.6 %	4.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0025 ppm	0.0005 ppm	0.0044 ppm	1.1341 ppm	0.0008 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0028 ppm	0.0006 ppm	0.0049 ppm	1.2149 ppm	-0.0002 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0021 ppm	0.0003 ppm	0.0042 ppm	1.1136 ppm	0.0009 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0025 ppm	0.0006 ppm	0.0040 ppm	1.0739 ppm	0.0018 ppm
Concentration RSD	405.6 %	370.3 %	12.9 %	32.2 %	10.5 %	6.4 %	116.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	5.5283 ppm	0.0002 ppm	0.0002 ppm	17.1125 ppm	0.0003 ppm	0.0006 ppm	-0.0012 ppm
Concentration per Run 1	5.5155 ppm	0.0000 ppm	0.0002 ppm	17.9993 ppm	0.0003 ppm	0.0010 ppm	-0.0007 ppm
Concentration per Run 2	5.5347 ppm	0.0003 ppm	0.0002 ppm	16.8699 ppm	0.0003 ppm	0.0003 ppm	-0.0010 ppm
Concentration per Run 3	5.5346 ppm	0.0004 ppm	0.0002 ppm	16.4682 ppm	0.0003 ppm	0.0005 ppm	-0.0019 ppm
Concentration RSD	0.2 %	105.3 %	20.6 %	4.6 %	13.5 %	68.4 %	50.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0017 ppm	7.5118 ppm	0.0000 ppm	0.0596 ppm	0.0003 ppm	0.0001 ppm	0.0005 ppm
Concentration per Run 1	-0.0039 ppm	7.5156 ppm	0.0004 ppm	0.0626 ppm	0.0003 ppm	-0.0005 ppm	0.0002 ppm
Concentration per Run 2	-0.0015 ppm	7.4871 ppm	-0.0001 ppm	0.0588 ppm	0.0004 ppm	-0.0003 ppm	0.0007 ppm
Concentration per Run 3	0.0002 ppm	7.5326 ppm	-0.0002 ppm	0.0575 ppm	0.0003 ppm	0.0010 ppm	0.0006 ppm
Concentration RSD	120.4 %	0.3 %	1,237.9 %	4.5 %	22.8 %	1,085.9 %	49.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0009 ppm	101.3310 %	102.4053 %	97.1295 %	97.6758 %	99.9451 %	101.6731 %
Concentration per Run 1	0.0010 ppm	96.6896 %	102.3803 %	97.1077 %	92.6912 %	99.9140 %	101.7357 %
Concentration per Run 2	0.0008 ppm	103.0468 %	102.2522 %	97.1249 %	99.5233 %	100.2203 %	101.5060 %
Concentration per Run 3	0.0009 ppm	104.2566 %	102.5835 %	97.1560 %	100.8131 %	99.7011 %	101.7777 %
Concentration RSD	8.5 %	4.0 %	0.2 %	0.0 %	4.5 %	0.3 %	0.1 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: L2512325-07 WG2039056
Analysis started at: 3/12/2025 1:45:54 PM
Comments <Comment>
Rack: 1
Vial: 45

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	0.0164 ppm	-0.0009 ppm	0.0110 ppm	0.0324 ppm	0.0000 ppm	12.0517 ppm
Concentration per Run 1	0.0003 ppm	0.0153 ppm	-0.0006 ppm	0.0115 ppm	0.0341 ppm	0.0000 ppm	12.6799 ppm
Concentration per Run 2	0.0008 ppm	0.0166 ppm	-0.0007 ppm	0.0107 ppm	0.0318 ppm	0.0000 ppm	11.8697 ppm
Concentration per Run 3	0.0004 ppm	0.0171 ppm	-0.0013 ppm	0.0108 ppm	0.0313 ppm	0.0000 ppm	11.6056 ppm
Concentration RSD	59.1 %	5.9 %	42.3 %	3.9 %	4.7 %	157.7 %	4.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0001 ppm	0.0007 ppm	0.0014 ppm	0.0054 ppm	0.0511 ppm	1.1227 ppm	-0.0009 ppm
Concentration per Run 1	0.0001 ppm	0.0008 ppm	0.0014 ppm	0.0053 ppm	0.0533 ppm	1.1982 ppm	-0.0002 ppm
Concentration per Run 2	0.0001 ppm	0.0007 ppm	0.0013 ppm	0.0057 ppm	0.0505 ppm	1.0812 ppm	-0.0014 ppm
Concentration per Run 3	0.0001 ppm	0.0006 ppm	0.0014 ppm	0.0053 ppm	0.0495 ppm	1.0886 ppm	-0.0011 ppm
Concentration RSD	22.4 %	9.8 %	6.8 %	3.7 %	3.8 %	5.8 %	69.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	5.7599 ppm	0.0905 ppm	0.0011 ppm	7.1466 ppm	0.0066 ppm	0.0005 ppm	-0.0014 ppm
Concentration per Run 1	5.7654 ppm	0.0947 ppm	0.0009 ppm	7.5044 ppm	0.0066 ppm	0.0005 ppm	-0.0001 ppm
Concentration per Run 2	5.7598 ppm	0.0891 ppm	0.0012 ppm	7.0363 ppm	0.0065 ppm	0.0003 ppm	-0.0013 ppm
Concentration per Run 3	5.7545 ppm	0.0875 ppm	0.0011 ppm	6.8989 ppm	0.0066 ppm	0.0006 ppm	-0.0028 ppm
Concentration RSD	0.1 %	4.2 %	13.3 %	4.4 %	0.8 %	27.5 %	94.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0022 ppm	6.2194 ppm	0.0000 ppm	0.0670 ppm	0.0005 ppm	0.0003 ppm	0.0004 ppm
Concentration per Run 1	-0.0030 ppm	6.2257 ppm	0.0002 ppm	0.0704 ppm	0.0008 ppm	-0.0008 ppm	0.0005 ppm
Concentration per Run 2	-0.0016 ppm	6.2207 ppm	-0.0001 ppm	0.0659 ppm	0.0005 ppm	0.0012 ppm	0.0001 ppm
Concentration per Run 3	-0.0021 ppm	6.2117 ppm	0.0000 ppm	0.0646 ppm	0.0004 ppm	0.0005 ppm	0.0004 ppm
Concentration RSD	31.7 %	0.1 %	558.1 %	4.6 %	37.3 %	347.1 %	55.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0121 ppm	103.8263 %	103.1239 %	97.5647 %	99.8233 %	100.4594 %	102.3552 %
Concentration per Run 1	0.0122 ppm	100.0832 %	102.5327 %	97.6623 %	95.5117 %	100.2557 %	101.8066 %
Concentration per Run 2	0.0121 ppm	104.9597 %	103.6398 %	97.4669 %	101.2942 %	100.5278 %	102.6758 %
Concentration per Run 3	0.0120 ppm	106.4359 %	103.1992 %	97.5649 %	102.6640 %	100.5948 %	102.5833 %
Concentration RSD	0.6 %	3.2 %	0.5 %	0.1 %	3.8 %	0.2 %	0.5 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: L2512325-08 WG2039056
Analysis started at: 3/12/2025 1:52:14 PM
Comments <Comment>
Rack: 1
Vial: 46

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0022 ppm	-0.0019 ppm	0.0176 ppm	0.0286 ppm	0.0000 ppm	12.3140 ppm
Concentration per Run 1	0.0005 ppm	0.0032 ppm	-0.0026 ppm	0.0177 ppm	0.0302 ppm	0.0000 ppm	12.9679 ppm
Concentration per Run 2	0.0003 ppm	-0.0041 ppm	-0.0014 ppm	0.0174 ppm	0.0281 ppm	-0.0001 ppm	12.1844 ppm
Concentration per Run 3	0.0001 ppm	0.0074 ppm	-0.0016 ppm	0.0178 ppm	0.0275 ppm	0.0000 ppm	11.7896 ppm
Concentration RSD	62.2 %	267.3 %	34.4 %	1.0 %	5.0 %	101.4 %	4.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0003 ppm	0.0017 ppm	0.0012 ppm	0.0071 ppm	1.2408 ppm	0.0016 ppm
Concentration per Run 1	0.0000 ppm	0.0004 ppm	0.0016 ppm	0.0014 ppm	0.0075 ppm	1.3139 ppm	0.0018 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0020 ppm	0.0012 ppm	0.0066 ppm	1.2266 ppm	0.0013 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0015 ppm	0.0009 ppm	0.0074 ppm	1.1821 ppm	0.0017 ppm
Concentration RSD	139.4 %	44.5 %	15.9 %	21.4 %	6.9 %	5.4 %	13.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	5.7720 ppm	0.0013 ppm	0.0003 ppm	16.0252 ppm	0.0010 ppm	0.0006 ppm	-0.0014 ppm
Concentration per Run 1	5.7544 ppm	0.0011 ppm	0.0003 ppm	16.8674 ppm	0.0009 ppm	0.0008 ppm	-0.0016 ppm
Concentration per Run 2	5.7897 ppm	0.0015 ppm	0.0003 ppm	15.8325 ppm	0.0012 ppm	0.0006 ppm	-0.0015 ppm
Concentration per Run 3	5.7719 ppm	0.0012 ppm	0.0003 ppm	15.3756 ppm	0.0009 ppm	0.0005 ppm	-0.0012 ppm
Concentration RSD	0.3 %	14.4 %	12.5 %	4.8 %	13.0 %	30.0 %	13.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0014 ppm	8.4120 ppm	0.0000 ppm	0.0689 ppm	0.0005 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 1	-0.0025 ppm	8.4055 ppm	0.0000 ppm	0.0724 ppm	0.0004 ppm	-0.0011 ppm	0.0003 ppm
Concentration per Run 2	-0.0006 ppm	8.4054 ppm	0.0005 ppm	0.0681 ppm	0.0006 ppm	0.0004 ppm	0.0005 ppm
Concentration per Run 3	-0.0012 ppm	8.4250 ppm	-0.0004 ppm	0.0663 ppm	0.0003 ppm	0.0007 ppm	0.0001 ppm
Concentration RSD	66.8 %	0.1 %	2,500.5 %	4.5 %	34.1 %	3,292.0 %	86.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0026 ppm	101.4129 %	101.9282 %	96.8203 %	97.7662 %	99.7900 %	101.2199 %
Concentration per Run 1	0.0026 ppm	97.2663 %	102.1934 %	96.7910 %	93.0127 %	99.6903 %	101.4588 %
Concentration per Run 2	0.0026 ppm	102.3192 %	101.8861 %	96.6535 %	98.7116 %	99.9142 %	101.1844 %
Concentration per Run 3	0.0027 ppm	104.6532 %	101.7049 %	97.0165 %	101.5743 %	99.7654 %	101.0165 %
Concentration RSD	0.6 %	3.7 %	0.2 %	0.2 %	4.5 %	0.1 %	0.2 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: L2512325-09 WG2039056
Analysis started at: 3/12/2025 1:58:35 PM
Comments <Comment>
Rack: 1
Vial: 47

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0017 ppm	-0.0006 ppm	0.0889 ppm	0.0132 ppm	0.0000 ppm	18.0513 ppm
Concentration per Run 1	0.0002 ppm	0.0026 ppm	0.0011 ppm	0.0893 ppm	0.0139 ppm	-0.0001 ppm	18.8623 ppm
Concentration per Run 2	0.0004 ppm	0.0033 ppm	-0.0023 ppm	0.0890 ppm	0.0131 ppm	0.0000 ppm	17.8441 ppm
Concentration per Run 3	0.0002 ppm	-0.0008 ppm	-0.0006 ppm	0.0884 ppm	0.0126 ppm	0.0000 ppm	17.4474 ppm
Concentration RSD	34.7 %	130.6 %	299.4 %	0.5 %	4.6 %	431.1 %	4.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0016 ppm	0.0011 ppm	0.0154 ppm	1.4194 ppm	0.0007 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0016 ppm	0.0012 ppm	0.0152 ppm	1.4944 ppm	0.0009 ppm
Concentration per Run 2	0.0000 ppm	0.0005 ppm	0.0016 ppm	0.0010 ppm	0.0153 ppm	1.3868 ppm	0.0003 ppm
Concentration per Run 3	-0.0001 ppm	0.0001 ppm	0.0016 ppm	0.0009 ppm	0.0158 ppm	1.3769 ppm	0.0011 ppm
Concentration RSD	61.4 %	83.4 %	1.7 %	13.9 %	2.0 %	4.6 %	55.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	9.0094 ppm	0.0035 ppm	0.0003 ppm	12.8081 ppm	0.0016 ppm	0.0000 ppm	-0.0016 ppm
Concentration per Run 1	9.0237 ppm	0.0034 ppm	0.0002 ppm	13.3894 ppm	0.0019 ppm	0.0004 ppm	-0.0015 ppm
Concentration per Run 2	8.9986 ppm	0.0035 ppm	0.0005 ppm	12.6623 ppm	0.0015 ppm	-0.0004 ppm	-0.0010 ppm
Concentration per Run 3	9.0059 ppm	0.0035 ppm	0.0004 ppm	12.3727 ppm	0.0016 ppm	0.0001 ppm	-0.0022 ppm
Concentration RSD	0.1 %	1.7 %	47.3 %	4.1 %	13.2 %	1,111.9 %	36.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0007 ppm	10.2442 ppm	0.0001 ppm	0.0896 ppm	0.0005 ppm	-0.0001 ppm	0.0014 ppm
Concentration per Run 1	0.0005 ppm	10.2770 ppm	0.0001 ppm	0.0935 ppm	0.0004 ppm	0.0005 ppm	0.0014 ppm
Concentration per Run 2	-0.0005 ppm	10.2382 ppm	0.0002 ppm	0.0889 ppm	0.0006 ppm	-0.0006 ppm	0.0017 ppm
Concentration per Run 3	-0.0020 ppm	10.2174 ppm	-0.0001 ppm	0.0864 ppm	0.0005 ppm	-0.0003 ppm	0.0011 ppm
Concentration RSD	190.4 %	0.3 %	159.6 %	4.0 %	26.1 %	381.2 %	23.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0063 ppm	101.6684 %	101.6491 %	96.8477 %	98.0773 %	99.3837 %	101.4472 %
Concentration per Run 1	0.0063 ppm	98.3046 %	101.2993 %	96.7730 %	93.6706 %	99.3427 %	101.0350 %
Concentration per Run 2	0.0064 ppm	102.5441 %	101.8927 %	96.9231 %	99.3878 %	99.3696 %	101.6724 %
Concentration per Run 3	0.0062 ppm	104.1565 %	101.7552 %	96.8469 %	101.1734 %	99.4388 %	101.6342 %
Concentration RSD	1.3 %	3.0 %	0.3 %	0.1 %	4.0 %	0.0 %	0.4 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: CCV
Analysis started at: 3/12/2025 2:10:42 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4950 ppm	0.5101 ppm	0.4977 ppm	0.4844 ppm	0.4916 ppm	0.5352 ppm	0.5192 ppm
Concentration per Run 1	0.4954 ppm	0.5368 ppm	0.5003 ppm	0.4863 ppm	0.5138 ppm	0.5608 ppm	0.5455 ppm
Concentration per Run 2	0.4944 ppm	0.5019 ppm	0.4958 ppm	0.4836 ppm	0.4858 ppm	0.5277 ppm	0.5107 ppm
Concentration per Run 3	0.4951 ppm	0.4915 ppm	0.4970 ppm	0.4835 ppm	0.4753 ppm	0.5173 ppm	0.5014 ppm
Recovery Percentage 1	98.991 %	102.012 %	99.538 %	96.890 %	98.320 %	107.048 %	103.844 %
Concentration RSD	0.1 %	4.7 %	0.5 %	0.3 %	4.0 %	4.2 %	4.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4880 ppm	0.4966 ppm	0.4942 ppm	0.4865 ppm	0.5280 ppm	5.3907 ppm	0.5088 ppm
Concentration per Run 1	0.4899 ppm	0.4986 ppm	0.4945 ppm	0.4855 ppm	0.5507 ppm	5.6659 ppm	0.5337 ppm
Concentration per Run 2	0.4870 ppm	0.4956 ppm	0.4946 ppm	0.4871 ppm	0.5252 ppm	5.3156 ppm	0.5013 ppm
Concentration per Run 3	0.4870 ppm	0.4958 ppm	0.4936 ppm	0.4868 ppm	0.5082 ppm	5.1907 ppm	0.4915 ppm
Recovery Percentage 1	97.598 %	99.328 %	98.842 %	97.296 %	105.607 %	107.815 %	101.769 %
Concentration RSD	0.3 %	0.3 %	0.1 %	0.2 %	4.1 %	4.6 %	4.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5344 ppm	0.5156 ppm	0.4709 ppm	9.8357 ppm	0.5136 ppm	0.5193 ppm	0.5023 ppm
Concentration per Run 1	0.5340 ppm	0.5399 ppm	0.4710 ppm	10.3172 ppm	0.5156 ppm	0.5216 ppm	0.5049 ppm
Concentration per Run 2	0.5329 ppm	0.5087 ppm	0.4695 ppm	9.6989 ppm	0.5125 ppm	0.5172 ppm	0.4993 ppm
Concentration per Run 3	0.5364 ppm	0.4982 ppm	0.4721 ppm	9.4910 ppm	0.5126 ppm	0.5193 ppm	0.5025 ppm
Recovery Percentage 1	106.883 %	103.113 %	94.171 %	98.357 %	102.717 %	103.870 %	100.453 %
Concentration RSD	0.3 %	4.2 %	0.3 %	4.4 %	0.3 %	0.4 %	0.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4707 ppm	5.6655 ppm	0.5185 ppm	0.5102 ppm	0.5137 ppm	0.5015 ppm	0.5005 ppm
Concentration per Run 1	0.4724 ppm	5.6968 ppm	0.5208 ppm	0.5346 ppm	0.5136 ppm	0.5032 ppm	0.4999 ppm
Concentration per Run 2	0.4706 ppm	5.6477 ppm	0.5174 ppm	0.5037 ppm	0.5139 ppm	0.4998 ppm	0.5007 ppm
Concentration per Run 3	0.4691 ppm	5.6520 ppm	0.5173 ppm	0.4924 ppm	0.5138 ppm	0.5016 ppm	0.5010 ppm
Recovery Percentage 1	94.143 %	107.914 %	103.697 %	102.047 %	102.748 %	100.304 %	100.110 %
Concentration RSD	0.3 %	0.5 %	0.4 %	4.3 %	0.0 %	0.3 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5031 ppm	99.5848 %	102.0959 %	96.7412 %	96.8380 %	99.6712 %	101.3316 %
Concentration per Run 1	0.5046 ppm	95.2369 %	102.0837 %	96.6466 %	92.1581 %	99.3809 %	101.3766 %
Concentration per Run 2	0.5021 ppm	101.2259 %	101.9852 %	96.8133 %	98.4722 %	99.8681 %	101.1796 %
Concentration per Run 3	0.5027 ppm	102.2918 %	102.2188 %	96.7638 %	99.8836 %	99.7646 %	101.4387 %
Recovery Percentage 1	100.622 %						
Concentration RSD	0.3 %	3.8 %	0.1 %	0.1 %	4.2 %	0.3 %	0.1 %

LabBook: WG2039392_03122025T5.imexp

Sample: CCB
Analysis started at: 3/12/2025 2:16:47 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	-0.0018 ppm	-0.0014 ppm	0.0012 ppm	0.0000 ppm	0.0000 ppm	0.0036 ppm
Concentration per Run 1	-0.0003 ppm	-0.0042 ppm	-0.0004 ppm	0.0013 ppm	0.0000 ppm	0.0000 ppm	0.0031 ppm
Concentration per Run 2	0.0002 ppm	0.0031 ppm	-0.0007 ppm	0.0011 ppm	0.0000 ppm	0.0000 ppm	0.0069 ppm
Concentration per Run 3	0.0000 ppm	-0.0043 ppm	-0.0032 ppm	0.0011 ppm	0.0002 ppm	0.0000 ppm	0.0008 ppm
Recovery Percentage 1	-0.608 %	-1.791 %	-28.284 %	3.854 %	0.276 %	-0.451 %	3.628 %
Concentration RSD	563.6 %	238.1 %	110.3 %	11.3 %	408.2 %	110.0 %	84.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0025 ppm	0.0587 ppm	-0.0007 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0031 ppm	0.0703 ppm	-0.0008 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0020 ppm	0.0796 ppm	0.0000 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0002 ppm	0.0025 ppm	0.0262 ppm	-0.0012 ppm
Recovery Percentage 1	0.552 %	0.295 %	0.950 %	2.266 %	5.071 %	2.347 %	-6.915 %
Concentration RSD	34.9 %	159.2 %	77.9 %	13.7 %	21.3 %	48.6 %	89.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0015 ppm	-0.0001 ppm	0.0012 ppm	0.0981 ppm	0.0002 ppm	0.0000 ppm	-0.0005 ppm
Concentration per Run 1	0.0010 ppm	0.0000 ppm	0.0014 ppm	0.1041 ppm	0.0002 ppm	0.0006 ppm	0.0000 ppm
Concentration per Run 2	0.0016 ppm	-0.0002 ppm	0.0011 ppm	0.1011 ppm	0.0003 ppm	-0.0002 ppm	-0.0017 ppm
Concentration per Run 3	0.0020 ppm	-0.0001 ppm	0.0010 ppm	0.0889 ppm	0.0002 ppm	-0.0004 ppm	0.0001 ppm
Recovery Percentage 1	1.545 %	-0.790 %	2.403 %	4.903 %	0.909 %	-0.163 %	-1.063 %
Concentration RSD	32.4 %	106.1 %	17.2 %	8.2 %	16.2 %	3,424.1 %	191.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0011 ppm	0.0003 ppm	0.0003 ppm	-0.0001 ppm	0.0002 ppm	-0.0003 ppm	0.0002 ppm
Concentration per Run 1	-0.0004 ppm	0.0000 ppm	0.0009 ppm	-0.0002 ppm	0.0004 ppm	0.0012 ppm	0.0000 ppm
Concentration per Run 2	-0.0026 ppm	0.0010 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0013 ppm	0.0004 ppm
Concentration per Run 3	-0.0004 ppm	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0004 ppm	-0.0009 ppm	0.0001 ppm
Recovery Percentage 1	-11.309 %	0.064 %	0.649 %	-0.731 %	2.109 %	-1.546 %	1.664 %
Concentration RSD	115.1 %	174.8 %	152.2 %	157.3 %	134.4 %	430.5 %	137.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0009 ppm	104.6749 %	102.2314 %	97.6015 %	101.0664 %	99.9458 %	100.8878 %
Concentration per Run 1	0.0009 ppm	103.5235 %	102.4888 %	97.6446 %	99.0284 %	100.0624 %	101.1671 %
Concentration per Run 2	0.0008 ppm	104.8981 %	102.1477 %	97.5073 %	101.5352 %	99.7599 %	100.7924 %
Concentration per Run 3	0.0009 ppm	105.6031 %	102.0576 %	97.6527 %	102.6357 %	100.0152 %	100.7041 %
Recovery Percentage 1	17.277 %						
Concentration RSD	4.8 %	1.0 %	0.2 %	0.1 %	1.8 %	0.2 %	0.2 %

LabBook: WG2039392_03122025T5.imexp

Sample: WG2039056-1 WG2039056
Analysis started at: 3/12/2025 2:23:14 PM
Comments <Comment>
Rack: 1
Vial: 33

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	-0.0012 ppm	-0.0007 ppm	0.0008 ppm	0.0000 ppm	-0.0001 ppm	0.0156 ppm
Concentration per Run 1	0.0008 ppm	-0.0035 ppm	0.0003 ppm	0.0007 ppm	0.0000 ppm	-0.0001 ppm	0.0118 ppm
Concentration per Run 2	0.0001 ppm	0.0039 ppm	-0.0006 ppm	0.0009 ppm	-0.0002 ppm	-0.0001 ppm	0.0167 ppm
Concentration per Run 3	0.0007 ppm	-0.0038 ppm	-0.0018 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0183 ppm
Recovery Percentage 1	7.409 %	-1.163 %	-13.839 %	2.547 %	-0.409 %	-1.301 %	15.596 %
Concentration RSD	68.3 %	374.6 %	148.3 %	21.5 %	305.9 %	36.1 %	21.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0005 ppm	-0.0088 ppm	-0.0018 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm	-0.0305 ppm	-0.0015 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0005 ppm	0.0007 ppm	0.0009 ppm	-0.0014 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0010 ppm	0.0032 ppm	-0.0025 ppm
Recovery Percentage 1	0.348 %	-0.323 %	0.376 %	3.158 %	1.007 %	-0.352 %	-18.120 %
Concentration RSD	97.3 %	96.0 %	97.1 %	74.7 %	126.1 %	214.2 %	30.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0026 ppm	-0.0001 ppm	0.0002 ppm	0.0183 ppm	0.0004 ppm	0.0003 ppm	-0.0007 ppm
Concentration per Run 1	0.0036 ppm	0.0003 ppm	0.0002 ppm	0.0154 ppm	0.0001 ppm	0.0001 ppm	-0.0005 ppm
Concentration per Run 2	0.0020 ppm	-0.0003 ppm	0.0003 ppm	0.0214 ppm	0.0006 ppm	0.0002 ppm	-0.0008 ppm
Concentration per Run 3	0.0023 ppm	-0.0003 ppm	0.0002 ppm	0.0179 ppm	0.0005 ppm	0.0005 ppm	-0.0008 ppm
Recovery Percentage 1	2.634 %	-0.907 %	0.498 %	0.913 %	1.553 %	3.007 %	-1.376 %
Concentration RSD	30.8 %	415.6 %	21.6 %	16.6 %	70.8 %	63.3 %	28.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0009 ppm	0.0050 ppm	0.0002 ppm	0.0000 ppm	0.0001 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 1	0.0020 ppm	0.0047 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0006 ppm	-0.0001 ppm
Concentration per Run 2	0.0025 ppm	0.0051 ppm	0.0004 ppm	0.0000 ppm	0.0002 ppm	-0.0001 ppm	0.0001 ppm
Concentration per Run 3	-0.0018 ppm	0.0051 ppm	0.0003 ppm	-0.0001 ppm	0.0001 ppm	-0.0012 ppm	0.0002 ppm
Recovery Percentage 1	8.846 %	0.990 %	0.378 %	0.048 %	1.361 %	-1.256 %	0.654 %
Concentration RSD	267.8 %	5.3 %	148.1 %	2,557.8 %	49.9 %	364.1 %	208.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0003 ppm	101.6262 %	102.6246 %	99.5950 %	97.9872 %	101.5966 %	102.2578 %
Concentration per Run 1	0.0004 ppm	98.4022 %	102.5896 %	99.5068 %	94.0513 %	101.4525 %	102.1615 %
Concentration per Run 2	0.0003 ppm	102.5549 %	102.7488 %	99.6222 %	98.7956 %	101.5416 %	102.3223 %
Concentration per Run 3	0.0003 ppm	103.9215 %	102.5354 %	99.6559 %	101.1147 %	101.7958 %	102.2895 %
Recovery Percentage 1	6.475 %						
Concentration RSD	14.5 %	2.8 %	0.1 %	0.1 %	3.7 %	0.2 %	0.1 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: WG2039056-2 WG2039056
Analysis started at: 3/12/2025 2:29:38 PM
Comments <Comment>
Rack: 1
Vial: 34

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0517 ppm	2.0923 ppm	0.1122 ppm	0.9300 ppm	2.0078 ppm	0.0538 ppm	10.0422 ppm
Concentration per Run 1	0.0515 ppm	2.1716 ppm	0.1120 ppm	0.9294 ppm	2.0866 ppm	0.0560 ppm	10.4592 ppm
Concentration per Run 2	0.0520 ppm	2.0826 ppm	0.1119 ppm	0.9307 ppm	1.9925 ppm	0.0534 ppm	9.9664 ppm
Concentration per Run 3	0.0518 ppm	2.0228 ppm	0.1128 ppm	0.9300 ppm	1.9444 ppm	0.0521 ppm	9.7012 ppm
Concentration RSD	0.4 %	3.6 %	0.4 %	0.1 %	3.6 %	3.7 %	3.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0533 ppm	0.4996 ppm	0.2016 ppm	0.2522 ppm	1.0641 ppm	10.4864 ppm	-0.0007 ppm
Concentration per Run 1	0.0532 ppm	0.4996 ppm	0.2023 ppm	0.2526 ppm	1.1029 ppm	10.9101 ppm	-0.0023 ppm
Concentration per Run 2	0.0533 ppm	0.4997 ppm	0.2010 ppm	0.2515 ppm	1.0605 ppm	10.4231 ppm	0.0004 ppm
Concentration per Run 3	0.0534 ppm	0.4996 ppm	0.2015 ppm	0.2524 ppm	1.0290 ppm	10.1261 ppm	-0.0003 ppm
Concentration RSD	0.1 %	0.0 %	0.3 %	0.2 %	3.5 %	3.8 %	181.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.1774 ppm	0.5277 ppm	0.9153 ppm	10.0619 ppm	0.5126 ppm	0.5319 ppm	0.4848 ppm
Concentration per Run 1	10.2172 ppm	0.5483 ppm	0.9081 ppm	10.4581 ppm	0.5129 ppm	0.5316 ppm	0.4810 ppm
Concentration per Run 2	10.1606 ppm	0.5247 ppm	0.9157 ppm	10.0046 ppm	0.5124 ppm	0.5317 ppm	0.4850 ppm
Concentration per Run 3	10.1542 ppm	0.5100 ppm	0.9222 ppm	9.7231 ppm	0.5125 ppm	0.5325 ppm	0.4885 ppm
Concentration RSD	0.3 %	3.7 %	0.8 %	3.7 %	0.0 %	0.1 %	0.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1060 ppm	1.1062 ppm	0.9949 ppm	0.9971 ppm	0.9848 ppm	0.1114 ppm	0.5095 ppm
Concentration per Run 1	0.1046 ppm	1.1074 ppm	0.9934 ppm	1.0354 ppm	0.9879 ppm	0.1109 ppm	0.5110 ppm
Concentration per Run 2	0.1058 ppm	1.1048 ppm	0.9936 ppm	0.9905 ppm	0.9830 ppm	0.1108 ppm	0.5083 ppm
Concentration per Run 3	0.1076 ppm	1.1063 ppm	0.9978 ppm	0.9654 ppm	0.9837 ppm	0.1123 ppm	0.5090 ppm
Concentration RSD	1.5 %	0.1 %	0.3 %	3.6 %	0.3 %	0.8 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5119 ppm	98.8107 %	100.6192 %	97.9788 %	97.5488 %	99.3832 %	101.6946 %
Concentration per Run 1	0.5120 ppm	95.6148 %	100.0645 %	97.9720 %	93.9414 %	99.4331 %	101.1239 %
Concentration per Run 2	0.5117 ppm	99.1034 %	100.7477 %	98.0548 %	97.9629 %	99.4895 %	101.8903 %
Concentration per Run 3	0.5120 ppm	101.7138 %	101.0453 %	97.9094 %	100.7420 %	99.2268 %	102.0696 %
Concentration RSD	0.0 %	3.1 %	0.5 %	0.1 %	3.5 %	0.1 %	0.5 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: L2512325-01 WG2039056
Analysis started at: 3/12/2025 2:35:45 PM
Comments <Comment>
Rack: 1
Vial: 40

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	0.0076 ppm	0.0005 ppm	0.0201 ppm	0.0198 ppm	0.0000 ppm	24.4663 ppm
Concentration per Run 1	0.0008 ppm	0.0178 ppm	-0.0005 ppm	0.0203 ppm	0.0207 ppm	0.0000 ppm	25.4421 ppm
Concentration per Run 2	0.0003 ppm	0.0054 ppm	0.0005 ppm	0.0204 ppm	0.0198 ppm	0.0000 ppm	24.3149 ppm
Concentration per Run 3	0.0004 ppm	-0.0004 ppm	0.0013 ppm	0.0197 ppm	0.0190 ppm	0.0000 ppm	23.6419 ppm
Concentration RSD	58.1 %	122.4 %	194.5 %	1.7 %	4.3 %	55.7 %	3.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0008 ppm	0.0069 ppm	2.0127 ppm	-0.0007 ppm
Concentration per Run 1	-0.0001 ppm	0.0001 ppm	0.0007 ppm	0.0008 ppm	0.0068 ppm	2.1082 ppm	-0.0017 ppm
Concentration per Run 2	-0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0011 ppm	0.0071 ppm	2.0111 ppm	0.0001 ppm
Concentration per Run 3	-0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0006 ppm	0.0067 ppm	1.9188 ppm	-0.0005 ppm
Concentration RSD	33.4 %	124.6 %	240.4 %	30.4 %	2.7 %	4.7 %	128.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	6.8705 ppm	0.0008 ppm	0.0043 ppm	12.0202 ppm	0.0006 ppm	0.0005 ppm	0.0029 ppm
Concentration per Run 1	6.8793 ppm	0.0007 ppm	0.0048 ppm	12.5189 ppm	0.0005 ppm	0.0009 ppm	0.0030 ppm
Concentration per Run 2	6.8743 ppm	0.0009 ppm	0.0042 ppm	11.9041 ppm	0.0008 ppm	-0.0002 ppm	0.0032 ppm
Concentration per Run 3	6.8580 ppm	0.0008 ppm	0.0038 ppm	11.6375 ppm	0.0006 ppm	0.0009 ppm	0.0025 ppm
Concentration RSD	0.2 %	14.4 %	12.0 %	3.8 %	23.5 %	110.8 %	12.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0018 ppm	3.4042 ppm	0.0021 ppm	0.0927 ppm	0.0013 ppm	0.0000 ppm	0.0006 ppm
Concentration per Run 1	-0.0011 ppm	3.4061 ppm	0.0025 ppm	0.0964 ppm	0.0012 ppm	0.0002 ppm	0.0005 ppm
Concentration per Run 2	-0.0015 ppm	3.4020 ppm	0.0022 ppm	0.0921 ppm	0.0015 ppm	0.0010 ppm	0.0005 ppm
Concentration per Run 3	-0.0027 ppm	3.4047 ppm	0.0016 ppm	0.0897 ppm	0.0011 ppm	-0.0011 ppm	0.0008 ppm
Concentration RSD	46.6 %	0.1 %	22.8 %	3.7 %	14.1 %	9,148.8 %	20.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0017 ppm	98.4644 %	99.8831 %	98.8023 %	97.2931 %	99.7080 %	101.5134 %
Concentration per Run 1	0.0016 ppm	95.6523 %	99.9626 %	98.6121 %	93.7621 %	99.4782 %	101.4645 %
Concentration per Run 2	0.0017 ppm	98.9994 %	99.7582 %	98.8704 %	97.9701 %	99.8548 %	101.5149 %
Concentration per Run 3	0.0017 ppm	100.7416 %	99.9285 %	98.9246 %	100.1473 %	99.7911 %	101.5608 %
Concentration RSD	3.2 %	2.6 %	0.1 %	0.2 %	3.3 %	0.2 %	0.0 %

LabBook: WG2039392_03122025T5.imexp

Sample: L2512325-03 WG2039056
Analysis started at: 3/12/2025 2:42:04 PM
Comments <Comment>
Rack: 1
Vial: 41

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0109 ppm	0.0000 ppm	0.0195 ppm	0.0195 ppm	0.0000 ppm	26.6752 ppm
Concentration per Run 1	0.0005 ppm	0.0109 ppm	-0.0002 ppm	0.0198 ppm	0.0205 ppm	0.0000 ppm	28.1678 ppm
Concentration per Run 2	0.0001 ppm	0.0126 ppm	-0.0022 ppm	0.0197 ppm	0.0193 ppm	0.0000 ppm	26.3664 ppm
Concentration per Run 3	-0.0001 ppm	0.0092 ppm	0.0026 ppm	0.0190 ppm	0.0188 ppm	-0.0001 ppm	25.4915 ppm
Concentration RSD	168.7 %	15.6 %	5,702.3 %	2.2 %	4.7 %	60.1 %	5.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	0.0004 ppm	0.0007 ppm	0.0016 ppm	0.0099 ppm	0.9998 ppm	-0.0005 ppm
Concentration per Run 1	-0.0001 ppm	0.0002 ppm	0.0008 ppm	0.0017 ppm	0.0088 ppm	1.0681 ppm	-0.0007 ppm
Concentration per Run 2	-0.0001 ppm	0.0005 ppm	0.0007 ppm	0.0017 ppm	0.0113 ppm	0.9791 ppm	-0.0007 ppm
Concentration per Run 3	-0.0001 ppm	0.0004 ppm	0.0005 ppm	0.0016 ppm	0.0098 ppm	0.9523 ppm	-0.0001 ppm
Concentration RSD	16.4 %	47.6 %	21.5 %	3.4 %	12.6 %	6.1 %	65.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	8.7132 ppm	0.0012 ppm	0.0012 ppm	2.5649 ppm	0.0013 ppm	0.0004 ppm	-0.0001 ppm
Concentration per Run 1	8.7188 ppm	0.0010 ppm	0.0012 ppm	2.7022 ppm	0.0011 ppm	0.0011 ppm	0.0002 ppm
Concentration per Run 2	8.7189 ppm	0.0017 ppm	0.0013 ppm	2.5321 ppm	0.0013 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 3	8.7019 ppm	0.0009 ppm	0.0010 ppm	2.4605 ppm	0.0015 ppm	0.0001 ppm	-0.0004 ppm
Concentration RSD	0.1 %	35.3 %	13.7 %	4.8 %	12.1 %	182.5 %	527.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0021 ppm	3.2785 ppm	0.0007 ppm	0.1047 ppm	0.0005 ppm	0.0002 ppm	0.0004 ppm
Concentration per Run 1	-0.0021 ppm	3.2858 ppm	0.0007 ppm	0.1106 ppm	0.0003 ppm	0.0009 ppm	0.0005 ppm
Concentration per Run 2	-0.0033 ppm	3.2814 ppm	0.0006 ppm	0.1032 ppm	0.0006 ppm	-0.0001 ppm	0.0003 ppm
Concentration per Run 3	-0.0009 ppm	3.2684 ppm	0.0009 ppm	0.1002 ppm	0.0005 ppm	-0.0002 ppm	0.0004 ppm
Concentration RSD	56.5 %	0.3 %	25.1 %	5.1 %	28.0 %	292.6 %	27.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0034 ppm	98.0600 %	101.3042 %	100.0672 %	97.3859 %	100.2981 %	102.7452 %
Concentration per Run 1	0.0035 ppm	94.0884 %	101.1882 %	99.9892 %	93.0544 %	100.1738 %	102.7119 %
Concentration per Run 2	0.0035 ppm	98.2410 %	101.2850 %	99.9199 %	97.8775 %	100.1173 %	102.6078 %
Concentration per Run 3	0.0034 ppm	101.8506 %	101.4393 %	100.2926 %	101.2257 %	100.6033 %	102.9160 %
Concentration RSD	1.2 %	4.0 %	0.1 %	0.2 %	4.2 %	0.3 %	0.2 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: L2512325-04 WG2039056
Analysis started at: 3/12/2025 2:48:23 PM
Comments <Comment>
Rack: 1
Vial: 42

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	0.0135 ppm	-0.0009 ppm	0.0913 ppm	0.0606 ppm	0.0000 ppm	60.5535 ppm
Concentration per Run 1	0.0003 ppm	0.0056 ppm	-0.0011 ppm	0.0914 ppm	0.0618 ppm	0.0000 ppm	61.7769 ppm
Concentration per Run 2	0.0003 ppm	0.0146 ppm	-0.0011 ppm	0.0910 ppm	0.0601 ppm	-0.0001 ppm	60.0028 ppm
Concentration per Run 3	0.0005 ppm	0.0203 ppm	-0.0005 ppm	0.0914 ppm	0.0600 ppm	0.0000 ppm	59.8807 ppm
Concentration RSD	35.1 %	54.8 %	35.5 %	0.3 %	1.7 %	243.2 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0002 ppm	0.0002 ppm	0.0002 ppm	0.0023 ppm	0.0022 ppm	7.2823 ppm	-0.0015 ppm
Concentration per Run 1	-0.0002 ppm	0.0002 ppm	0.0003 ppm	0.0020 ppm	0.0036 ppm	7.4377 ppm	-0.0020 ppm
Concentration per Run 2	-0.0002 ppm	0.0001 ppm	0.0002 ppm	0.0024 ppm	0.0015 ppm	7.2122 ppm	-0.0011 ppm
Concentration per Run 3	-0.0002 ppm	0.0002 ppm	0.0002 ppm	0.0026 ppm	0.0015 ppm	7.1969 ppm	-0.0014 ppm
Concentration RSD	14.8 %	57.8 %	20.6 %	11.0 %	53.6 %	1.9 %	29.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.5751 ppm	0.0512 ppm	0.0021 ppm	10.8656 ppm	0.0000 ppm	0.0008 ppm	0.0006 ppm
Concentration per Run 1	10.5685 ppm	0.0523 ppm	0.0020 ppm	11.0863 ppm	0.0001 ppm	0.0010 ppm	0.0012 ppm
Concentration per Run 2	10.5841 ppm	0.0510 ppm	0.0023 ppm	10.7559 ppm	0.0000 ppm	0.0008 ppm	0.0009 ppm
Concentration per Run 3	10.5727 ppm	0.0503 ppm	0.0021 ppm	10.7547 ppm	-0.0001 ppm	0.0005 ppm	-0.0002 ppm
Concentration RSD	0.1 %	2.0 %	6.2 %	1.8 %	594.2 %	37.4 %	125.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0020 ppm	4.9301 ppm	0.0010 ppm	0.3512 ppm	0.0004 ppm	0.0004 ppm	0.0006 ppm
Concentration per Run 1	-0.0013 ppm	4.9307 ppm	0.0013 ppm	0.3576 ppm	0.0002 ppm	0.0009 ppm	0.0006 ppm
Concentration per Run 2	-0.0017 ppm	4.9250 ppm	0.0013 ppm	0.3481 ppm	0.0003 ppm	-0.0010 ppm	0.0005 ppm
Concentration per Run 3	-0.0031 ppm	4.9347 ppm	0.0004 ppm	0.3478 ppm	0.0006 ppm	0.0011 ppm	0.0006 ppm
Concentration RSD	45.5 %	0.1 %	52.3 %	1.6 %	51.3 %	317.6 %	7.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0009 ppm	102.1839 %	98.5253 %	98.4431 %	102.9366 %	97.4115 %	101.1634 %
Concentration per Run 1	0.0010 ppm	101.0479 %	98.4606 %	98.4816 %	100.9965 %	97.5602 %	101.2005 %
Concentration per Run 2	0.0008 ppm	103.0475 %	98.5016 %	98.4621 %	103.7060 %	97.3958 %	101.1155 %
Concentration per Run 3	0.0009 ppm	102.4561 %	98.6137 %	98.3855 %	104.1075 %	97.2784 %	101.1741 %
Concentration RSD	8.0 %	1.0 %	0.1 %	0.1 %	1.6 %	0.1 %	0.0 %

LabBook: WG2039392_03122025T5.imexp

Sample: L2512325-02 WG2039056
Analysis started at: 3/12/2025 2:54:42 PM
Comments <Comment>
Rack: 1
Vial: 35

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0048 ppm	-0.0005 ppm	0.0877 ppm	0.0127 ppm	0.0000 ppm	17.2936 ppm
Concentration per Run 1	0.0001 ppm	0.0105 ppm	-0.0001 ppm	0.0887 ppm	0.0129 ppm	0.0000 ppm	17.8031 ppm
Concentration per Run 2	0.0007 ppm	0.0044 ppm	-0.0006 ppm	0.0873 ppm	0.0126 ppm	0.0000 ppm	17.1259 ppm
Concentration per Run 3	0.0003 ppm	-0.0006 ppm	-0.0008 ppm	0.0872 ppm	0.0126 ppm	0.0000 ppm	16.9518 ppm
Concentration RSD	84.1 %	117.1 %	81.4 %	0.9 %	1.7 %	110.7 %	2.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0018 ppm	0.0005 ppm	0.0122 ppm	1.3023 ppm	0.0018 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0020 ppm	0.0005 ppm	0.0127 ppm	1.3453 ppm	0.0021 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0017 ppm	0.0006 ppm	0.0122 ppm	1.2751 ppm	0.0022 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0018 ppm	0.0005 ppm	0.0117 ppm	1.2865 ppm	0.0011 ppm
Concentration RSD	43.8 %	26.6 %	10.4 %	8.6 %	4.3 %	2.9 %	35.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	8.6941 ppm	0.0030 ppm	0.0005 ppm	12.6324 ppm	0.0016 ppm	0.0005 ppm	0.0002 ppm
Concentration per Run 1	8.7013 ppm	0.0031 ppm	0.0005 ppm	13.0168 ppm	0.0016 ppm	0.0004 ppm	0.0006 ppm
Concentration per Run 2	8.6810 ppm	0.0031 ppm	0.0004 ppm	12.5047 ppm	0.0016 ppm	0.0009 ppm	-0.0007 ppm
Concentration per Run 3	8.6999 ppm	0.0028 ppm	0.0005 ppm	12.3756 ppm	0.0017 ppm	0.0002 ppm	0.0005 ppm
Concentration RSD	0.1 %	6.6 %	10.2 %	2.7 %	2.1 %	70.3 %	486.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0013 ppm	10.0246 ppm	0.0006 ppm	0.0851 ppm	0.0003 ppm	0.0004 ppm	0.0012 ppm
Concentration per Run 1	-0.0015 ppm	10.0457 ppm	0.0001 ppm	0.0876 ppm	0.0005 ppm	0.0005 ppm	0.0011 ppm
Concentration per Run 2	-0.0017 ppm	10.0406 ppm	0.0007 ppm	0.0841 ppm	0.0002 ppm	-0.0001 ppm	0.0014 ppm
Concentration per Run 3	-0.0008 ppm	9.9876 ppm	0.0008 ppm	0.0837 ppm	0.0002 ppm	0.0007 ppm	0.0012 ppm
Concentration RSD	38.0 %	0.3 %	69.8 %	2.5 %	62.2 %	112.1 %	10.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0042 ppm	101.4473 %	99.7063 %	100.2270 %	102.1173 %	99.6337 %	102.1250 %
Concentration per Run 1	0.0042 ppm	99.3660 %	99.6769 %	100.1980 %	98.9883 %	99.4583 %	101.9812 %
Concentration per Run 2	0.0043 ppm	101.9926 %	100.1227 %	100.2587 %	102.8233 %	99.6214 %	102.6289 %
Concentration per Run 3	0.0042 ppm	102.9832 %	99.3192 %	100.2244 %	104.5404 %	99.8213 %	101.7649 %
Concentration RSD	0.8 %	1.8 %	0.4 %	0.0 %	2.8 %	0.2 %	0.4 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: WG2039056-3 WG2039056
Analysis started at: 3/12/2025 3:01:02 PM
Comments <Comment>
Rack: 1
Vial: 36

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0509 ppm	2.0705 ppm	0.1112 ppm	1.0279 ppm	1.9982 ppm	0.0522 ppm	27.6477 ppm
Concentration per Run 1	0.0506 ppm	2.1779 ppm	0.1114 ppm	1.0282 ppm	2.0840 ppm	0.0545 ppm	28.8514 ppm
Concentration per Run 2	0.0513 ppm	2.0397 ppm	0.1118 ppm	1.0293 ppm	1.9774 ppm	0.0517 ppm	27.3281 ppm
Concentration per Run 3	0.0508 ppm	1.9939 ppm	0.1104 ppm	1.0262 ppm	1.9331 ppm	0.0505 ppm	26.7637 ppm
Concentration RSD	0.6 %	4.6 %	0.6 %	0.2 %	3.9 %	3.9 %	3.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0534 ppm	0.4995 ppm	0.2048 ppm	0.2550 ppm	1.0696 ppm	11.7860 ppm	0.0016 ppm
Concentration per Run 1	0.0534 ppm	0.4996 ppm	0.2053 ppm	0.2552 ppm	1.1134 ppm	12.2727 ppm	0.0032 ppm
Concentration per Run 2	0.0535 ppm	0.4999 ppm	0.2051 ppm	0.2552 ppm	1.0589 ppm	11.6834 ppm	0.0010 ppm
Concentration per Run 3	0.0535 ppm	0.4991 ppm	0.2042 ppm	0.2546 ppm	1.0366 ppm	11.4019 ppm	0.0006 ppm
Concentration RSD	0.1 %	0.1 %	0.3 %	0.1 %	3.7 %	3.8 %	86.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	18.4150 ppm	0.5202 ppm	0.9220 ppm	23.2557 ppm	0.5000 ppm	0.5181 ppm	0.4821 ppm
Concentration per Run 1	18.4416 ppm	0.5430 ppm	0.9124 ppm	24.2449 ppm	0.5000 ppm	0.5192 ppm	0.4782 ppm
Concentration per Run 2	18.4273 ppm	0.5154 ppm	0.9240 ppm	23.0343 ppm	0.5004 ppm	0.5180 ppm	0.4846 ppm
Concentration per Run 3	18.3762 ppm	0.5022 ppm	0.9295 ppm	22.4880 ppm	0.4997 ppm	0.5171 ppm	0.4836 ppm
Concentration RSD	0.2 %	4.0 %	0.9 %	3.9 %	0.1 %	0.2 %	0.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1071 ppm	11.0081 ppm	0.9668 ppm	1.0738 ppm	0.9737 ppm	0.1110 ppm	0.5048 ppm
Concentration per Run 1	0.1046 ppm	11.0215 ppm	0.9652 ppm	1.1193 ppm	0.9743 ppm	0.1101 ppm	0.5057 ppm
Concentration per Run 2	0.1080 ppm	11.0182 ppm	0.9682 ppm	1.0641 ppm	0.9742 ppm	0.1109 ppm	0.5051 ppm
Concentration per Run 3	0.1087 ppm	10.9846 ppm	0.9669 ppm	1.0381 ppm	0.9727 ppm	0.1119 ppm	0.5035 ppm
Concentration RSD	2.1 %	0.2 %	0.2 %	3.9 %	0.1 %	0.8 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5133 ppm	95.7001 %	98.4900 %	99.9327 %	98.0318 %	98.8180 %	101.5331 %
Concentration per Run 1	0.5128 ppm	92.0606 %	98.3730 %	99.9682 %	94.1393 %	98.9057 %	101.3389 %
Concentration per Run 2	0.5137 ppm	96.8185 %	98.4149 %	99.8608 %	98.9949 %	98.7562 %	101.4808 %
Concentration per Run 3	0.5133 ppm	98.2214 %	98.6822 %	99.9690 %	100.9613 %	98.7921 %	101.7796 %
Concentration RSD	0.1 %	3.4 %	0.2 %	0.1 %	3.6 %	0.1 %	0.2 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: WG2039056-4 WG2039056
Analysis started at: 3/12/2025 3:07:08 PM
Comments <Comment>
Rack: 1
Vial: 37

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0498 ppm	1.9041 ppm	0.1086 ppm	1.0092 ppm	1.8456 ppm	0.0480 ppm	25.7776 ppm
Concentration per Run 1	0.0500 ppm	1.9203 ppm	0.1093 ppm	1.0097 ppm	1.8524 ppm	0.0482 ppm	25.9141 ppm
Concentration per Run 2	0.0496 ppm	1.8886 ppm	0.1078 ppm	1.0067 ppm	1.8386 ppm	0.0477 ppm	25.6833 ppm
Concentration per Run 3	0.0499 ppm	1.9035 ppm	0.1087 ppm	1.0112 ppm	1.8458 ppm	0.0480 ppm	25.7352 ppm
Concentration RSD	0.3 %	0.8 %	0.7 %	0.2 %	0.4 %	0.5 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0525 ppm	0.4907 ppm	0.2023 ppm	0.2512 ppm	0.9879 ppm	10.8376 ppm	0.0019 ppm
Concentration per Run 1	0.0526 ppm	0.4913 ppm	0.2022 ppm	0.2509 ppm	0.9918 ppm	10.9036 ppm	0.0013 ppm
Concentration per Run 2	0.0523 ppm	0.4894 ppm	0.2023 ppm	0.2513 ppm	0.9853 ppm	10.8162 ppm	0.0019 ppm
Concentration per Run 3	0.0526 ppm	0.4915 ppm	0.2024 ppm	0.2514 ppm	0.9866 ppm	10.7929 ppm	0.0024 ppm
Concentration RSD	0.3 %	0.2 %	0.0 %	0.1 %	0.3 %	0.5 %	30.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	18.2135 ppm	0.4795 ppm	0.9086 ppm	21.6108 ppm	0.4904 ppm	0.5076 ppm	0.4843 ppm
Concentration per Run 1	18.1956 ppm	0.4828 ppm	0.9031 ppm	21.7515 ppm	0.4910 ppm	0.5083 ppm	0.4840 ppm
Concentration per Run 2	18.2275 ppm	0.4776 ppm	0.9059 ppm	21.5276 ppm	0.4895 ppm	0.5062 ppm	0.4816 ppm
Concentration per Run 3	18.2176 ppm	0.4781 ppm	0.9168 ppm	21.5532 ppm	0.4907 ppm	0.5081 ppm	0.4875 ppm
Concentration RSD	0.1 %	0.6 %	0.8 %	0.6 %	0.2 %	0.2 %	0.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1085 ppm	10.9496 ppm	0.9530 ppm	0.9865 ppm	0.9573 ppm	0.1090 ppm	0.4985 ppm
Concentration per Run 1	0.1088 ppm	10.9688 ppm	0.9538 ppm	0.9912 ppm	0.9560 ppm	0.1081 ppm	0.4969 ppm
Concentration per Run 2	0.1087 ppm	10.9195 ppm	0.9511 ppm	0.9830 ppm	0.9581 ppm	0.1095 ppm	0.4999 ppm
Concentration per Run 3	0.1081 ppm	10.9606 ppm	0.9540 ppm	0.9853 ppm	0.9579 ppm	0.1094 ppm	0.4986 ppm
Concentration RSD	0.3 %	0.2 %	0.2 %	0.4 %	0.1 %	0.7 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5030 ppm	101.1921 %	98.0622 %	100.2627 %	103.5120 %	98.8775 %	101.0202 %
Concentration per Run 1	0.5033 ppm	101.0279 %	98.0631 %	100.3239 %	102.1101 %	98.7434 %	100.9959 %
Concentration per Run 2	0.5020 ppm	100.5158 %	97.9791 %	100.1685 %	103.7244 %	99.1536 %	100.9274 %
Concentration per Run 3	0.5036 ppm	102.0325 %	98.1444 %	100.2957 %	104.7016 %	98.7356 %	101.1374 %
Concentration RSD	0.2 %	0.8 %	0.1 %	0.1 %	1.3 %	0.2 %	0.1 %

LabBook: WG2039392_03122025T5.imexp

Sample: WG2039056-5 WG2039056
Analysis started at: 3/12/2025 3:13:12 PM
Comments <Comment>
Rack: 1
Vial: 38

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0415 ppm	2.0177 ppm	0.1200 ppm	1.0309 ppm	1.9432 ppm	0.0508 ppm	27.7185 ppm
Concentration per Run 1	0.0418 ppm	2.0788 ppm	0.1214 ppm	1.0303 ppm	2.0040 ppm	0.0524 ppm	28.6418 ppm
Concentration per Run 2	0.0412 ppm	2.0167 ppm	0.1198 ppm	1.0307 ppm	1.9383 ppm	0.0506 ppm	27.6542 ppm
Concentration per Run 3	0.0416 ppm	1.9575 ppm	0.1188 ppm	1.0315 ppm	1.8875 ppm	0.0493 ppm	26.8596 ppm
Concentration RSD	0.8 %	3.0 %	1.1 %	0.1 %	3.0 %	3.1 %	3.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0526 ppm	0.4884 ppm	0.2007 ppm	0.2484 ppm	1.0482 ppm	11.9223 ppm	0.0016 ppm
Concentration per Run 1	0.0526 ppm	0.4881 ppm	0.2004 ppm	0.2482 ppm	1.0809 ppm	12.3228 ppm	0.0025 ppm
Concentration per Run 2	0.0526 ppm	0.4882 ppm	0.2012 ppm	0.2483 ppm	1.0486 ppm	11.9025 ppm	0.0016 ppm
Concentration per Run 3	0.0527 ppm	0.4890 ppm	0.2006 ppm	0.2486 ppm	1.0152 ppm	11.5415 ppm	0.0008 ppm
Concentration RSD	0.1 %	0.1 %	0.2 %	0.1 %	3.1 %	3.3 %	54.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	18.3899 ppm	0.5088 ppm	0.9377 ppm	23.3109 ppm	0.4866 ppm	0.5303 ppm	0.4681 ppm
Concentration per Run 1	18.3966 ppm	0.5253 ppm	0.9288 ppm	24.0712 ppm	0.4872 ppm	0.5302 ppm	0.4655 ppm
Concentration per Run 2	18.4219 ppm	0.5075 ppm	0.9382 ppm	23.2353 ppm	0.4863 ppm	0.5294 ppm	0.4671 ppm
Concentration per Run 3	18.3512 ppm	0.4936 ppm	0.9459 ppm	22.6260 ppm	0.4864 ppm	0.5313 ppm	0.4717 ppm
Concentration RSD	0.2 %	3.1 %	0.9 %	3.1 %	0.1 %	0.2 %	0.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1198 ppm	10.5479 ppm	0.9830 ppm	1.0843 ppm	0.9826 ppm	0.1202 ppm	0.4928 ppm
Concentration per Run 1	0.1210 ppm	10.5405 ppm	0.9821 ppm	1.1186 ppm	0.9834 ppm	0.1204 ppm	0.4928 ppm
Concentration per Run 2	0.1186 ppm	10.5398 ppm	0.9829 ppm	1.0804 ppm	0.9816 ppm	0.1196 ppm	0.4933 ppm
Concentration per Run 3	0.1198 ppm	10.5634 ppm	0.9840 ppm	1.0539 ppm	0.9827 ppm	0.1207 ppm	0.4921 ppm
Concentration RSD	1.0 %	0.1 %	0.1 %	3.0 %	0.1 %	0.5 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5015 ppm	95.0325 %	97.6943 %	100.3703 %	96.8837 %	98.6324 %	101.0368 %
Concentration per Run 1	0.5017 ppm	92.6030 %	97.4677 %	100.2664 %	93.8292 %	98.6787 %	100.8306 %
Concentration per Run 2	0.5016 ppm	94.7801 %	97.8497 %	100.5507 %	96.7306 %	98.7993 %	101.1068 %
Concentration per Run 3	0.5013 ppm	97.7143 %	97.7656 %	100.2940 %	100.0913 %	98.4190 %	101.1729 %
Concentration RSD	0.0 %	2.7 %	0.2 %	0.2 %	3.2 %	0.2 %	0.2 %

LabBook: WG2039392_03122025T5.imexp

Sample: WG2039056-6D5 WG2039056
Analysis started at: 3/12/2025 3:19:15 PM
Comments <Comment>
Rack: 1
Vial: 39

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0033 ppm	-0.0006 ppm	0.0204 ppm	0.0026 ppm	0.0000 ppm	3.4631 ppm
Concentration per Run 1	0.0002 ppm	0.0042 ppm	-0.0015 ppm	0.0205 ppm	0.0026 ppm	-0.0001 ppm	3.4602 ppm
Concentration per Run 2	0.0001 ppm	0.0009 ppm	0.0010 ppm	0.0205 ppm	0.0027 ppm	0.0000 ppm	3.4584 ppm
Concentration per Run 3	0.0005 ppm	0.0047 ppm	-0.0013 ppm	0.0202 ppm	0.0025 ppm	0.0000 ppm	3.4709 ppm
Concentration RSD	76.2 %	62.8 %	223.7 %	0.9 %	4.3 %	178.5 %	0.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0003 ppm	-0.0003 ppm	0.0049 ppm	0.2766 ppm	0.0011 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0003 ppm	-0.0003 ppm	0.0045 ppm	0.2984 ppm	0.0006 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0002 ppm	-0.0006 ppm	0.0054 ppm	0.2611 ppm	0.0017 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0005 ppm	0.0000 ppm	0.0047 ppm	0.2704 ppm	0.0012 ppm
Concentration RSD	292.4 %	223.8 %	48.0 %	90.0 %	10.2 %	7.0 %	48.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	1.7552 ppm	0.0011 ppm	0.0069 ppm	2.5186 ppm	0.0002 ppm	0.0009 ppm	0.0090 ppm
Concentration per Run 1	1.7589 ppm	0.0013 ppm	0.0080 ppm	2.5235 ppm	0.0003 ppm	0.0005 ppm	0.0111 ppm
Concentration per Run 2	1.7497 ppm	0.0011 ppm	0.0068 ppm	2.5208 ppm	0.0001 ppm	0.0016 ppm	0.0088 ppm
Concentration per Run 3	1.7569 ppm	0.0009 ppm	0.0060 ppm	2.5114 ppm	0.0004 ppm	0.0005 ppm	0.0071 ppm
Concentration RSD	0.3 %	17.2 %	15.2 %	0.3 %	58.0 %	72.6 %	21.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0006 ppm	1.9476 ppm	0.0043 ppm	0.0169 ppm	0.0012 ppm	0.0002 ppm	0.0002 ppm
Concentration per Run 1	-0.0006 ppm	1.9511 ppm	0.0054 ppm	0.0169 ppm	0.0011 ppm	0.0009 ppm	0.0003 ppm
Concentration per Run 2	-0.0010 ppm	1.9487 ppm	0.0040 ppm	0.0170 ppm	0.0015 ppm	-0.0005 ppm	0.0001 ppm
Concentration per Run 3	-0.0002 ppm	1.9431 ppm	0.0035 ppm	0.0169 ppm	0.0010 ppm	0.0001 ppm	0.0002 ppm
Concentration RSD	71.7 %	0.2 %	22.4 %	0.4 %	23.7 %	426.8 %	58.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0011 ppm	100.7786 %	99.9168 %	102.6120 %	102.8426 %	102.2683 %	102.7239 %
Concentration per Run 1	0.0011 ppm	100.2444 %	99.7609 %	102.7215 %	102.2848 %	102.2334 %	102.5649 %
Concentration per Run 2	0.0010 ppm	100.3749 %	99.7388 %	102.6174 %	102.9957 %	102.3037 %	102.5081 %
Concentration per Run 3	0.0011 ppm	101.7165 %	100.2506 %	102.4971 %	103.2473 %	102.2678 %	103.0987 %
Concentration RSD	3.8 %	0.8 %	0.3 %	0.1 %	0.5 %	0.0 %	0.3 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: CCV
Analysis started at: 3/12/2025 3:25:35 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4818 ppm	0.5010 ppm	0.4784 ppm	0.4744 ppm	0.4805 ppm	0.4958 ppm	0.5108 ppm
Concentration per Run 1	0.4807 ppm	0.5138 ppm	0.4776 ppm	0.4744 ppm	0.4902 ppm	0.5062 ppm	0.5165 ppm
Concentration per Run 2	0.4827 ppm	0.4977 ppm	0.4793 ppm	0.4743 ppm	0.4790 ppm	0.4945 ppm	0.5134 ppm
Concentration per Run 3	0.4820 ppm	0.4916 ppm	0.4784 ppm	0.4745 ppm	0.4724 ppm	0.4869 ppm	0.5024 ppm
Recovery Percentage 1	96.362 %	100.205 %	95.689 %	94.872 %	96.108 %	99.169 %	102.151 %
Concentration RSD	0.2 %	2.3 %	0.2 %	0.0 %	1.9 %	2.0 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4939 ppm	0.5026 ppm	0.5047 ppm	0.4920 ppm	0.5191 ppm	5.0941 ppm	0.4863 ppm
Concentration per Run 1	0.4941 ppm	0.5033 ppm	0.5034 ppm	0.4915 ppm	0.5275 ppm	5.2165 ppm	0.4955 ppm
Concentration per Run 2	0.4938 ppm	0.5021 ppm	0.5068 ppm	0.4918 ppm	0.5196 ppm	5.0776 ppm	0.4856 ppm
Concentration per Run 3	0.4938 ppm	0.5024 ppm	0.5040 ppm	0.4928 ppm	0.5102 ppm	4.9882 ppm	0.4778 ppm
Recovery Percentage 1	98.785 %	100.524 %	100.947 %	98.405 %	103.826 %	101.883 %	97.257 %
Concentration RSD	0.0 %	0.1 %	0.4 %	0.1 %	1.7 %	2.3 %	1.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5033 ppm	0.4953 ppm	0.4847 ppm	9.9522 ppm	0.4959 ppm	0.4972 ppm	0.4971 ppm
Concentration per Run 1	0.4978 ppm	0.5052 ppm	0.4840 ppm	10.1451 ppm	0.4966 ppm	0.4973 ppm	0.4975 ppm
Concentration per Run 2	0.5081 ppm	0.4942 ppm	0.4846 ppm	9.9284 ppm	0.4953 ppm	0.4971 ppm	0.4972 ppm
Concentration per Run 3	0.5039 ppm	0.4864 ppm	0.4855 ppm	9.7832 ppm	0.4957 ppm	0.4973 ppm	0.4965 ppm
Recovery Percentage 1	100.652 %	99.050 %	96.940 %	99.522 %	99.175 %	99.445 %	99.412 %
Concentration RSD	1.0 %	1.9 %	0.2 %	1.8 %	0.1 %	0.0 %	0.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4888 ppm	5.4591 ppm	0.4846 ppm	0.4934 ppm	0.4949 ppm	0.5056 ppm	0.4910 ppm
Concentration per Run 1	0.4876 ppm	5.4617 ppm	0.4864 ppm	0.5033 ppm	0.4941 ppm	0.5066 ppm	0.4895 ppm
Concentration per Run 2	0.4877 ppm	5.4548 ppm	0.4827 ppm	0.4918 ppm	0.4957 ppm	0.5052 ppm	0.4921 ppm
Concentration per Run 3	0.4910 ppm	5.4606 ppm	0.4846 ppm	0.4852 ppm	0.4950 ppm	0.5050 ppm	0.4915 ppm
Recovery Percentage 1	97.753 %	103.982 %	96.911 %	98.687 %	98.985 %	101.121 %	98.209 %
Concentration RSD	0.4 %	0.1 %	0.4 %	1.9 %	0.2 %	0.2 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4980 ppm	94.7788 %	98.5115 %	101.7995 %	97.5295 %	100.6527 %	101.5882 %
Concentration per Run 1	0.4986 ppm	93.0180 %	98.6650 %	101.5951 %	95.5798 %	100.5699 %	102.0330 %
Concentration per Run 2	0.4979 ppm	94.9003 %	97.9597 %	101.8101 %	97.6816 %	100.6319 %	101.0282 %
Concentration per Run 3	0.4977 ppm	96.4182 %	98.9097 %	101.9933 %	99.3272 %	100.7563 %	101.7035 %
Recovery Percentage 1	99.609 %						
Concentration RSD	0.1 %	1.8 %	0.5 %	0.2 %	1.9 %	0.1 %	0.5 %

LabBook: WG2039392_03122025T5.imexp

Sample: CCB
Analysis started at: 3/12/2025 3:31:42 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0015 ppm	-0.0005 ppm	0.0026 ppm	0.0001 ppm	0.0000 ppm	0.0068 ppm
Concentration per Run 1	-0.0003 ppm	-0.0034 ppm	0.0004 ppm	0.0028 ppm	0.0001 ppm	0.0000 ppm	0.0074 ppm
Concentration per Run 2	0.0005 ppm	0.0024 ppm	0.0005 ppm	0.0021 ppm	0.0001 ppm	0.0000 ppm	0.0060 ppm
Concentration per Run 3	-0.0002 ppm	0.0055 ppm	-0.0024 ppm	0.0028 ppm	0.0001 ppm	0.0000 ppm	0.0072 ppm
Recovery Percentage 1	0.106 %	1.511 %	-9.954 %	8.554 %	0.902 %	-0.134 %	6.848 %
Concentration RSD	5,909.5 %	298.6 %	323.7 %	15.4 %	24.5 %	550.1 %	11.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0023 ppm	0.0027 ppm	0.0007 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0009 ppm	0.0171 ppm	0.0009 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	-0.0004 ppm	0.0026 ppm	-0.0245 ppm	-0.0006 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	-0.0003 ppm	-0.0002 ppm	0.0033 ppm	0.0154 ppm	0.0017 ppm
Recovery Percentage 1	0.598 %	0.040 %	-0.692 %	-1.172 %	4.521 %	0.107 %	6.609 %
Concentration RSD	87.3 %	1,193.4 %	289.9 %	331.5 %	56.0 %	882.2 %	174.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0011 ppm	0.0003 ppm	0.0018 ppm	0.0387 ppm	0.0000 ppm	0.0002 ppm	0.0016 ppm
Concentration per Run 1	-0.0026 ppm	0.0002 ppm	0.0020 ppm	0.0412 ppm	0.0000 ppm	0.0002 ppm	0.0014 ppm
Concentration per Run 2	-0.0008 ppm	0.0002 ppm	0.0020 ppm	0.0406 ppm	-0.0002 ppm	0.0000 ppm	0.0022 ppm
Concentration per Run 3	0.0000 ppm	0.0005 ppm	0.0015 ppm	0.0343 ppm	0.0001 ppm	0.0003 ppm	0.0012 ppm
Recovery Percentage 1	-1.148 %	2.785 %	3.621 %	1.936 %	-0.114 %	1.973 %	3.188 %
Concentration RSD	117.2 %	69.9 %	16.4 %	9.8 %	457.0 %	74.0 %	33.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0005 ppm	0.0003 ppm	0.0014 ppm	0.0001 ppm	0.0003 ppm	0.0011 ppm	-0.0001 ppm
Concentration per Run 1	0.0027 ppm	0.0003 ppm	0.0016 ppm	0.0001 ppm	0.0003 ppm	-0.0003 ppm	-0.0001 ppm
Concentration per Run 2	0.0007 ppm	0.0004 ppm	0.0010 ppm	0.0000 ppm	0.0003 ppm	0.0019 ppm	-0.0003 ppm
Concentration per Run 3	-0.0018 ppm	0.0002 ppm	0.0017 ppm	0.0002 ppm	0.0004 ppm	0.0018 ppm	0.0000 ppm
Recovery Percentage 1	5.127 %	0.052 %	2.838 %	0.948 %	3.189 %	5.546 %	-1.307 %
Concentration RSD	445.2 %	41.6 %	27.5 %	88.6 %	19.5 %	108.8 %	113.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0010 ppm	95.5722 %	100.0342 %	103.0879 %	96.7001 %	102.1250 %	101.4701 %
Concentration per Run 1	0.0010 ppm	93.1261 %	99.0406 %	103.1699 %	93.8881 %	102.2107 %	100.5603 %
Concentration per Run 2	0.0010 ppm	96.3400 %	100.8003 %	103.1602 %	97.6504 %	102.2306 %	102.2109 %
Concentration per Run 3	0.0010 ppm	97.2503 %	100.2616 %	102.9336 %	98.5619 %	101.9336 %	101.6390 %
Recovery Percentage 1	19.893 %						
Concentration RSD	1.3 %	2.3 %	0.9 %	0.1 %	2.6 %	0.2 %	0.8 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: WG2039065-1 WG2039065
Analysis started at: 3/12/2025 3:42:13 PM
Comments <Comment>
Rack: 1
Vial: 50

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0016 ppm	-0.0009 ppm	0.0016 ppm	0.0000 ppm	0.0000 ppm	**0.1426 ppm**
Concentration per Run 1	0.0000 ppm	0.0049 ppm	-0.0007 ppm	0.0017 ppm	0.0000 ppm	0.0000 ppm	0.1542 ppm
Concentration per Run 2	-0.0003 ppm	-0.0002 ppm	-0.0010 ppm	0.0012 ppm	0.0001 ppm	0.0000 ppm	0.1404 ppm
Concentration per Run 3	-0.0001 ppm	0.0000 ppm	-0.0011 ppm	0.0018 ppm	0.0000 ppm	0.0000 ppm	0.1333 ppm
Recovery Percentage 1	-2.042 %	1.582 %	-18.490 %	5.267 %	0.466 %	-0.080 %	142.642 %
Concentration RSD	92.4 %	182.2 %	26.5 %	19.2 %	178.0 %	1,152.4 %	**7.5 %**

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0004 ppm	0.0009 ppm	-0.0118 ppm	0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0001 ppm	-0.0003 ppm	0.0002 ppm	0.0112 ppm	-0.0006 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0005 ppm	0.0013 ppm	-0.0242 ppm	0.0009 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0003 ppm	-0.0004 ppm	0.0012 ppm	-0.0224 ppm	0.0003 ppm
Recovery Percentage 1	0.277 %	0.231 %	0.893 %	-3.831 %	1.812 %	-0.471 %	2.034 %
Concentration RSD	184.5 %	121.7 %	228.3 %	31.1 %	64.5 %	169.6 %	356.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0001 ppm	0.0007 ppm	0.0005 ppm	-0.0152 ppm	-0.0001 ppm	0.0004 ppm	-0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0007 ppm	0.0005 ppm	-0.0166 ppm	-0.0001 ppm	0.0001 ppm	-0.0010 ppm
Concentration per Run 2	0.0003 ppm	0.0006 ppm	0.0005 ppm	-0.0139 ppm	-0.0003 ppm	0.0002 ppm	0.0003 ppm
Concentration per Run 3	0.0002 ppm	0.0008 ppm	0.0003 ppm	-0.0152 ppm	0.0000 ppm	0.0008 ppm	0.0002 ppm
Recovery Percentage 1	0.144 %	7.227 %	0.908 %	-0.760 %	-0.497 %	3.697 %	-0.337 %
Concentration RSD	94.8 %	13.9 %	20.2 %	9.0 %	131.5 %	100.2 %	423.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0009 ppm	0.0041 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm	-0.0001 ppm
Concentration per Run 1	0.0007 ppm	0.0037 ppm	0.0007 ppm	0.0000 ppm	0.0003 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0047 ppm	0.0004 ppm	0.0000 ppm	0.0002 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 3	-0.0032 ppm	0.0040 ppm	0.0008 ppm	0.0000 ppm	-0.0004 ppm	0.0008 ppm	-0.0002 ppm
Recovery Percentage 1	-8.555 %	0.821 %	1.278 %	0.190 %	0.413 %	2.094 %	-0.805 %
Concentration RSD	244.2 %	12.0 %	30.7 %	20.5 %	898.3 %	83.0 %	120.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0003 ppm	97.1663 %	102.3353 %	105.0524 %	97.5690 %	104.4136 %	103.6700 %
Concentration per Run 1	0.0004 ppm	93.8131 %	102.5218 %	104.9911 %	93.5502 %	104.4249 %	103.7914 %
Concentration per Run 2	0.0002 ppm	97.8508 %	102.2447 %	104.9888 %	98.2597 %	104.0862 %	103.6829 %
Concentration per Run 3	0.0003 ppm	99.8351 %	102.2396 %	105.1773 %	100.8972 %	104.7297 %	103.5356 %
Recovery Percentage 1	5.656 %						
Concentration RSD	30.6 %	3.2 %	0.2 %	0.1 %	3.8 %	0.3 %	0.1 %

LabBook: WG2039392_03122025T5.imexp

Sample: WG2039065-2 WG2039065
Analysis started at: 3/12/2025 3:48:37 PM
Comments <Comment>
Rack: 1
Vial: 51

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0505 ppm	2.0513 ppm	0.1087 ppm	0.9140 ppm	1.9824 ppm	0.0506 ppm	10.0944 ppm
Concentration per Run 1	0.0506 ppm	2.0854 ppm	0.1093 ppm	0.9144 ppm	2.0151 ppm	0.0515 ppm	10.2871 ppm
Concentration per Run 2	0.0507 ppm	2.0487 ppm	0.1088 ppm	0.9157 ppm	1.9818 ppm	0.0506 ppm	10.0651 ppm
Concentration per Run 3	0.0502 ppm	2.0199 ppm	0.1079 ppm	0.9118 ppm	1.9504 ppm	0.0498 ppm	9.9311 ppm
Concentration RSD	0.5 %	1.6 %	0.7 %	0.2 %	1.6 %	1.7 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0533 ppm	0.4985 ppm	0.2062 ppm	0.2556 ppm	1.0551 ppm	10.2026 ppm	0.0007 ppm
Concentration per Run 1	0.0533 ppm	0.4987 ppm	0.2066 ppm	0.2563 ppm	1.0732 ppm	10.3939 ppm	0.0005 ppm
Concentration per Run 2	0.0534 ppm	0.4993 ppm	0.2062 ppm	0.2557 ppm	1.0551 ppm	10.1908 ppm	0.0010 ppm
Concentration per Run 3	0.0533 ppm	0.4974 ppm	0.2058 ppm	0.2548 ppm	1.0371 ppm	10.0231 ppm	0.0007 ppm
Concentration RSD	0.1 %	0.2 %	0.2 %	0.3 %	1.7 %	1.8 %	37.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	9.9355 ppm	0.5111 ppm	0.9317 ppm	10.1917 ppm	0.4937 ppm	0.5166 ppm	0.4714 ppm
Concentration per Run 1	9.9369 ppm	0.5196 ppm	0.9234 ppm	10.3721 ppm	0.4938 ppm	0.5179 ppm	0.4680 ppm
Concentration per Run 2	9.9352 ppm	0.5103 ppm	0.9354 ppm	10.1953 ppm	0.4943 ppm	0.5171 ppm	0.4726 ppm
Concentration per Run 3	9.9342 ppm	0.5035 ppm	0.9363 ppm	10.0077 ppm	0.4930 ppm	0.5148 ppm	0.4735 ppm
Concentration RSD	0.0 %	1.6 %	0.8 %	1.8 %	0.1 %	0.3 %	0.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1110 ppm	1.0759 ppm	0.9496 ppm	0.9766 ppm	0.9744 ppm	0.1124 ppm	0.5045 ppm
Concentration per Run 1	0.1122 ppm	1.0767 ppm	0.9505 ppm	0.9922 ppm	0.9762 ppm	0.1116 ppm	0.5045 ppm
Concentration per Run 2	0.1094 ppm	1.0773 ppm	0.9495 ppm	0.9775 ppm	0.9748 ppm	0.1132 ppm	0.5058 ppm
Concentration per Run 3	0.1113 ppm	1.0737 ppm	0.9489 ppm	0.9602 ppm	0.9722 ppm	0.1125 ppm	0.5032 ppm
Concentration RSD	1.3 %	0.2 %	0.1 %	1.6 %	0.2 %	0.7 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5017 ppm	95.2361 %	99.1510 %	102.8813 %	98.0895 %	101.2237 %	102.3009 %
Concentration per Run 1	0.5018 ppm	93.5172 %	98.9759 %	102.9503 %	95.8433 %	101.2343 %	102.1599 %
Concentration per Run 2	0.5028 ppm	95.3188 %	99.3575 %	102.7929 %	98.5745 %	101.0366 %	102.3854 %
Concentration per Run 3	0.5004 ppm	96.8721 %	99.1195 %	102.9007 %	99.8506 %	101.4003 %	102.3573 %
Concentration RSD	0.2 %	1.8 %	0.2 %	0.1 %	2.1 %	0.2 %	0.1 %

LabBook: WG2039392_03122025T5.imexp

Sample: WG2039065-3 WG2039065
Analysis started at: 3/12/2025 3:54:49 PM
Comments <Comment>
Rack: 1
Vial: 52

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0496 ppm	2.0211 ppm	0.1086 ppm	0.9101 ppm	1.9547 ppm	0.0497 ppm	9.9727 ppm
Concentration per Run 1	0.0501 ppm	2.0615 ppm	0.1071 ppm	0.9097 ppm	1.9920 ppm	0.0506 ppm	10.1599 ppm
Concentration per Run 2	0.0495 ppm	2.0204 ppm	0.1098 ppm	0.9115 ppm	1.9543 ppm	0.0497 ppm	9.9915 ppm
Concentration per Run 3	0.0493 ppm	1.9815 ppm	0.1089 ppm	0.9090 ppm	1.9178 ppm	0.0487 ppm	9.7669 ppm
Concentration RSD	0.9 %	2.0 %	1.3 %	0.1 %	1.9 %	1.9 %	2.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0531 ppm	0.4962 ppm	0.2051 ppm	0.2543 ppm	1.0422 ppm	9.9944 ppm	-0.0001 ppm
Concentration per Run 1	0.0531 ppm	0.4957 ppm	0.2054 ppm	0.2543 ppm	1.0600 ppm	10.1862 ppm	0.0006 ppm
Concentration per Run 2	0.0532 ppm	0.4967 ppm	0.2045 ppm	0.2541 ppm	1.0417 ppm	10.0175 ppm	-0.0005 ppm
Concentration per Run 3	0.0530 ppm	0.4961 ppm	0.2054 ppm	0.2544 ppm	1.0249 ppm	9.7795 ppm	-0.0003 ppm
Concentration RSD	0.2 %	0.1 %	0.3 %	0.1 %	1.7 %	2.0 %	1,125.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	9.8794 ppm	0.5019 ppm	0.9280 ppm	10.0146 ppm	0.4912 ppm	0.5135 ppm	0.4741 ppm
Concentration per Run 1	9.8704 ppm	0.5118 ppm	0.9210 ppm	10.2097 ppm	0.4914 ppm	0.5133 ppm	0.4709 ppm
Concentration per Run 2	9.8831 ppm	0.5018 ppm	0.9301 ppm	10.0119 ppm	0.4923 ppm	0.5140 ppm	0.4752 ppm
Concentration per Run 3	9.8848 ppm	0.4922 ppm	0.9329 ppm	9.8223 ppm	0.4898 ppm	0.5132 ppm	0.4763 ppm
Concentration RSD	0.1 %	2.0 %	0.7 %	1.9 %	0.3 %	0.1 %	0.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1099 ppm	1.0716 ppm	0.9481 ppm	0.9588 ppm	0.9664 ppm	0.1101 ppm	0.5006 ppm
Concentration per Run 1	0.1111 ppm	1.0724 ppm	0.9471 ppm	0.9780 ppm	0.9666 ppm	0.1109 ppm	0.5006 ppm
Concentration per Run 2	0.1096 ppm	1.0738 ppm	0.9502 ppm	0.9584 ppm	0.9657 ppm	0.1100 ppm	0.5000 ppm
Concentration per Run 3	0.1091 ppm	1.0685 ppm	0.9469 ppm	0.9400 ppm	0.9671 ppm	0.1093 ppm	0.5011 ppm
Concentration RSD	0.9 %	0.3 %	0.2 %	2.0 %	0.1 %	0.7 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5008 ppm	95.8546 %	99.5367 %	103.3776 %	98.9936 %	101.4221 %	102.6709 %
Concentration per Run 1	0.5004 ppm	92.9529 %	99.7443 %	103.2962 %	96.3604 %	101.5405 %	102.8705 %
Concentration per Run 2	0.5019 ppm	96.4708 %	99.3595 %	103.2204 %	99.1456 %	101.2378 %	102.5705 %
Concentration per Run 3	0.5002 ppm	98.1402 %	99.5064 %	103.6163 %	101.4748 %	101.4879 %	102.5716 %
Concentration RSD	0.2 %	2.8 %	0.2 %	0.2 %	2.6 %	0.2 %	0.2 %

LabBook: WG2039392_03122025T5.imexp

Sample: L2512018-01 WG2039065
Analysis started at: 3/12/2025 4:00:54 PM
Comments <Comment>
Rack: 1
Vial: 53

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.1245 ppm	0.0122 ppm	3.4511 ppm	0.0370 ppm	0.0000 ppm	19.0335 ppm
Concentration per Run 1	0.0005 ppm	0.1187 ppm	0.0130 ppm	3.4596 ppm	0.0380 ppm	0.0000 ppm	19.4889 ppm
Concentration per Run 2	0.0000 ppm	0.1342 ppm	0.0114 ppm	3.4469 ppm	0.0367 ppm	0.0000 ppm	18.9529 ppm
Concentration per Run 3	0.0004 ppm	0.1207 ppm	0.0122 ppm	3.4468 ppm	0.0362 ppm	0.0001 ppm	18.6587 ppm
Concentration RSD	100.6 %	6.7 %	6.9 %	0.2 %	2.5 %	3,047.7 %	2.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	0.0159 ppm	0.0695 ppm	0.0026 ppm	1.1565 ppm	107.5733 ppm	0.0198 ppm
Concentration per Run 1	-0.0001 ppm	0.0160 ppm	0.0697 ppm	0.0026 ppm	1.1783 ppm	110.3383 ppm	0.0192 ppm
Concentration per Run 2	-0.0001 ppm	0.0160 ppm	0.0695 ppm	0.0028 ppm	1.1491 ppm	107.0562 ppm	0.0199 ppm
Concentration per Run 3	-0.0001 ppm	0.0157 ppm	0.0692 ppm	0.0026 ppm	1.1419 ppm	105.3255 ppm	0.0203 ppm
Concentration RSD	28.1 %	0.9 %	0.4 %	3.9 %	1.7 %	2.4 %	2.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	19.6651 ppm	0.0713 ppm	0.0062 ppm	416.4549 ppm	0.0630 ppm	0.0012 ppm	0.0061 ppm
Concentration per Run 1	19.6659 ppm	0.0730 ppm	0.0068 ppm	432.1036 ppm	0.0632 ppm	0.0011 ppm	0.0058 ppm
Concentration per Run 2	19.6691 ppm	0.0706 ppm	0.0061 ppm	413.9468 ppm	0.0629 ppm	0.0010 ppm	0.0062 ppm
Concentration per Run 3	19.6604 ppm	0.0702 ppm	0.0056 ppm	403.3142 ppm	0.0628 ppm	0.0015 ppm	0.0062 ppm
Concentration RSD	0.0 %	2.2 %	10.4 %	3.5 %	0.3 %	24.0 %	3.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0027 ppm	4.4848 ppm	0.0208 ppm	0.1578 ppm	0.1371 ppm	-0.0008 ppm	0.0344 ppm
Concentration per Run 1	-0.0047 ppm	4.4979 ppm	0.0209 ppm	0.1613 ppm	0.1372 ppm	-0.0006 ppm	0.0347 ppm
Concentration per Run 2	-0.0007 ppm	4.4759 ppm	0.0209 ppm	0.1572 ppm	0.1370 ppm	-0.0009 ppm	0.0344 ppm
Concentration per Run 3	-0.0027 ppm	4.4806 ppm	0.0205 ppm	0.1550 ppm	0.1372 ppm	-0.0009 ppm	0.0343 ppm
Concentration RSD	75.0 %	0.3 %	1.0 %	2.0 %	0.1 %	18.5 %	0.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0096 ppm	95.0502 %	90.8418 %	96.2565 %	97.8459 %	89.4516 %	94.0053 %
Concentration per Run 1	0.0097 ppm	94.0855 %	90.7416 %	96.1835 %	95.8831 %	89.2972 %	93.9184 %
Concentration per Run 2	0.0097 ppm	95.0160 %	90.9124 %	96.2380 %	98.0054 %	89.4787 %	93.9539 %
Concentration per Run 3	0.0096 ppm	96.0491 %	90.8712 %	96.3481 %	99.6492 %	89.5790 %	94.1438 %
Concentration RSD	0.8 %	1.0 %	0.1 %	0.1 %	1.9 %	0.2 %	0.1 %

LabBook: WG2039392_03122025T5.imexp

Sample: L2510636-02D5 WG2036123
Analysis started at: 3/12/2025 4:07:16 PM
Comments <Comment>
Rack: 1
Vial: 48

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0252 ppm	0.0009 ppm	0.0112 ppm	0.0413 ppm	0.0000 ppm	15.4948 ppm
Concentration per Run 1	0.0004 ppm	0.0240 ppm	-0.0006 ppm	0.0117 ppm	0.0422 ppm	0.0000 ppm	15.8844 ppm
Concentration per Run 2	0.0003 ppm	0.0262 ppm	0.0023 ppm	0.0111 ppm	0.0412 ppm	0.0001 ppm	15.4492 ppm
Concentration per Run 3	0.0002 ppm	0.0256 ppm	0.0009 ppm	0.0109 ppm	0.0405 ppm	0.0001 ppm	15.1509 ppm
Concentration RSD	30.0 %	4.5 %	167.0 %	3.6 %	2.2 %	92.7 %	2.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0005 ppm	0.0011 ppm	0.0001 ppm	0.0005 ppm	0.0063 ppm	2.1625 ppm	0.0043 ppm
Concentration per Run 1	0.0005 ppm	0.0012 ppm	0.0000 ppm	0.0006 ppm	0.0058 ppm	2.2053 ppm	0.0047 ppm
Concentration per Run 2	0.0005 ppm	0.0011 ppm	0.0001 ppm	0.0005 ppm	0.0080 ppm	2.1678 ppm	0.0053 ppm
Concentration per Run 3	0.0005 ppm	0.0011 ppm	0.0002 ppm	0.0006 ppm	0.0052 ppm	2.1145 ppm	0.0031 ppm
Concentration RSD	6.9 %	4.9 %	104.3 %	6.2 %	23.3 %	2.1 %	26.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	1.7654 ppm	0.1661 ppm	0.0018 ppm	225.9475 ppm	0.0012 ppm	0.0027 ppm	0.0033 ppm
Concentration per Run 1	1.7675 ppm	0.1695 ppm	0.0020 ppm	234.9806 ppm	0.0011 ppm	0.0025 ppm	0.0049 ppm
Concentration per Run 2	1.7580 ppm	0.1655 ppm	0.0018 ppm	226.1450 ppm	0.0010 ppm	0.0030 ppm	0.0027 ppm
Concentration per Run 3	1.7707 ppm	0.1633 ppm	0.0016 ppm	216.7168 ppm	0.0016 ppm	0.0027 ppm	0.0024 ppm
Concentration RSD	0.4 %	1.9 %	10.6 %	4.0 %	26.0 %	9.4 %	40.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0024 ppm	1.3052 ppm	0.0013 ppm	0.0883 ppm	0.0006 ppm	0.0009 ppm	0.0002 ppm
Concentration per Run 1	-0.0006 ppm	1.3068 ppm	0.0021 ppm	0.0904 ppm	0.0008 ppm	0.0014 ppm	0.0004 ppm
Concentration per Run 2	-0.0011 ppm	1.3034 ppm	0.0013 ppm	0.0879 ppm	0.0004 ppm	0.0011 ppm	0.0001 ppm
Concentration per Run 3	-0.0053 ppm	1.3052 ppm	0.0006 ppm	0.0865 ppm	0.0005 ppm	0.0003 ppm	0.0000 ppm
Concentration RSD	110.8 %	0.1 %	56.2 %	2.3 %	29.7 %	64.4 %	148.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0032 ppm	94.9741 %	93.7170 %	99.0840 %	98.1371 %	94.4751 %	97.2570 %
Concentration per Run 1	0.0033 ppm	93.3253 %	93.6700 %	99.2823 %	96.2080 %	94.7052 %	97.2906 %
Concentration per Run 2	0.0032 ppm	95.2041 %	93.8814 %	98.9521 %	98.3328 %	94.3905 %	97.3836 %
Concentration per Run 3	0.0031 ppm	96.3927 %	93.5995 %	99.0175 %	99.8705 %	94.3296 %	97.0967 %
Concentration RSD	3.8 %	1.6 %	0.2 %	0.2 %	1.9 %	0.2 %	0.2 %

LabBook: WG2039392_03122025T5.imexp

Sample: L2510636-03D5 WG2036123
Analysis started at: 3/12/2025 4:13:46 PM
Comments <Comment>
Rack: 1
Vial: 49

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0284 ppm	0.0002 ppm	0.0089 ppm	0.0412 ppm	0.0001 ppm	15.5318 ppm
Concentration per Run 1	0.0005 ppm	0.0311 ppm	0.0009 ppm	0.0091 ppm	0.0419 ppm	0.0000 ppm	15.7927 ppm
Concentration per Run 2	0.0000 ppm	0.0245 ppm	0.0001 ppm	0.0090 ppm	0.0411 ppm	0.0001 ppm	15.5276 ppm
Concentration per Run 3	0.0004 ppm	0.0295 ppm	-0.0003 ppm	0.0087 ppm	0.0406 ppm	0.0001 ppm	15.2752 ppm
Concentration RSD	99.4 %	12.2 %	252.6 %	2.7 %	1.7 %	35.5 %	1.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0005 ppm	0.0010 ppm	0.0001 ppm	0.0006 ppm	0.0045 ppm	2.0876 ppm	0.0043 ppm
Concentration per Run 1	0.0005 ppm	0.0011 ppm	0.0001 ppm	0.0006 ppm	0.0043 ppm	2.1254 ppm	0.0039 ppm
Concentration per Run 2	0.0005 ppm	0.0010 ppm	-0.0001 ppm	0.0006 ppm	0.0051 ppm	2.0644 ppm	0.0048 ppm
Concentration per Run 3	0.0005 ppm	0.0009 ppm	0.0002 ppm	0.0007 ppm	0.0040 ppm	2.0729 ppm	0.0042 ppm
Concentration RSD	1.6 %	9.1 %	243.0 %	8.0 %	13.2 %	1.6 %	10.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	1.7688 ppm	0.1670 ppm	0.0008 ppm	225.3666 ppm	0.0012 ppm	0.0022 ppm	0.0016 ppm
Concentration per Run 1	1.7800 ppm	0.1696 ppm	0.0007 ppm	231.8580 ppm	0.0012 ppm	0.0028 ppm	0.0012 ppm
Concentration per Run 2	1.7637 ppm	0.1666 ppm	0.0009 ppm	224.5871 ppm	0.0013 ppm	0.0026 ppm	0.0012 ppm
Concentration per Run 3	1.7627 ppm	0.1647 ppm	0.0008 ppm	219.6545 ppm	0.0012 ppm	0.0012 ppm	0.0025 ppm
Concentration RSD	0.5 %	1.5 %	9.8 %	2.7 %	6.6 %	38.9 %	47.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0021 ppm	1.2780 ppm	0.0006 ppm	0.0883 ppm	0.0003 ppm	-0.0005 ppm	0.0001 ppm
Concentration per Run 1	-0.0016 ppm	1.2856 ppm	0.0009 ppm	0.0898 ppm	0.0006 ppm	-0.0013 ppm	0.0001 ppm
Concentration per Run 2	-0.0020 ppm	1.2766 ppm	0.0005 ppm	0.0880 ppm	0.0003 ppm	-0.0001 ppm	0.0001 ppm
Concentration per Run 3	-0.0028 ppm	1.2717 ppm	0.0003 ppm	0.0869 ppm	0.0001 ppm	-0.0002 ppm	0.0001 ppm
Concentration RSD	27.8 %	0.5 %	51.2 %	1.7 %	83.8 %	127.6 %	14.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0032 ppm	95.0231 %	93.2750 %	99.2035 %	98.5690 %	94.5611 %	96.6626 %
Concentration per Run 1	0.0032 ppm	93.9106 %	93.0547 %	99.1138 %	97.2747 %	94.4783 %	96.5000 %
Concentration per Run 2	0.0032 ppm	94.9075 %	93.5227 %	99.3421 %	98.5963 %	94.7468 %	96.8702 %
Concentration per Run 3	0.0032 ppm	96.2511 %	93.2477 %	99.1546 %	99.8359 %	94.4582 %	96.6175 %
Concentration RSD	0.5 %	1.2 %	0.3 %	0.1 %	1.3 %	0.2 %	0.2 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: L2512069-04d2 WG2037739
Analysis started at: 3/12/2025 4:24:11 PM
Comments <Comment>
Rack: 1
Vial: 57

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0022 ppm	87.0495 ppm	0.0632 ppm	0.0092 ppm	0.6315 ppm	0.0055 ppm	9.6222 ppm
Concentration per Run 1	0.0021 ppm	86.8721 ppm	0.0630 ppm	0.0092 ppm	0.6295 ppm	0.0055 ppm	9.6301 ppm
Concentration per Run 2	0.0023 ppm	87.4304 ppm	0.0645 ppm	0.0097 ppm	0.6346 ppm	0.0055 ppm	9.6558 ppm
Concentration per Run 3	0.0021 ppm	86.8459 ppm	0.0621 ppm	0.0087 ppm	0.6305 ppm	0.0055 ppm	9.5807 ppm
Concentration RSD	5.0 %	0.4 %	2.0 %	5.1 %	0.4 %	0.4 %	0.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0017 ppm	0.0324 ppm	0.1229 ppm	0.0672 ppm	131.7158 ppm	4.3076 ppm	0.0485 ppm
Concentration per Run 1	-0.0016 ppm	0.0329 ppm	0.1240 ppm	0.0676 ppm	131.2177 ppm	4.3195 ppm	0.0487 ppm
Concentration per Run 2	-0.0017 ppm	0.0322 ppm	0.1230 ppm	0.0675 ppm	132.1042 ppm	4.3300 ppm	0.0484 ppm
Concentration per Run 3	-0.0018 ppm	0.0321 ppm	0.1218 ppm	0.0665 ppm	131.8253 ppm	4.2732 ppm	0.0485 ppm
Concentration RSD	5.6 %	1.3 %	0.9 %	0.9 %	0.3 %	0.7 %	0.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	8.4532 ppm	2.2524 ppm	0.0035 ppm	0.3470 ppm	0.0508 ppm	0.1561 ppm	0.0053 ppm
Concentration per Run 1	8.5333 ppm	2.2488 ppm	0.0036 ppm	0.3590 ppm	0.0517 ppm	0.1587 ppm	0.0052 ppm
Concentration per Run 2	8.4588 ppm	2.2598 ppm	0.0036 ppm	0.3439 ppm	0.0508 ppm	0.1552 ppm	0.0058 ppm
Concentration per Run 3	8.3675 ppm	2.2487 ppm	0.0032 ppm	0.3382 ppm	0.0500 ppm	0.1543 ppm	0.0050 ppm
Concentration RSD	1.0 %	0.3 %	5.5 %	3.1 %	1.6 %	1.5 %	7.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0093 ppm	4.9847 ppm	0.0099 ppm	0.0281 ppm	1.0264 ppm	0.0128 ppm	0.1985 ppm
Concentration per Run 1	0.0100 ppm	5.0554 ppm	0.0104 ppm	0.0281 ppm	1.0356 ppm	0.0129 ppm	0.2003 ppm
Concentration per Run 2	0.0103 ppm	4.9646 ppm	0.0101 ppm	0.0283 ppm	1.0279 ppm	0.0121 ppm	0.1984 ppm
Concentration per Run 3	0.0075 ppm	4.9340 ppm	0.0093 ppm	0.0280 ppm	1.0157 ppm	0.0134 ppm	0.1967 ppm
Concentration RSD	16.4 %	1.3 %	5.6 %	0.5 %	1.0 %	5.3 %	0.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.2205 ppm	163.4032 %	159.8155 %	165.1184 %	104.8410 %	99.8859 %	103.2123 %
Concentration per Run 1	0.2238 ppm	163.1792 %	159.6319 %	165.8107 %	105.1497 %	99.6920 %	102.6731 %
Concentration per Run 2	0.2192 ppm	162.6463 %	159.8508 %	164.6935 %	104.3418 %	100.0059 %	103.1656 %
Concentration per Run 3	0.2186 ppm	164.3841 %	159.9638 %	164.8509 %	105.0315 %	99.9597 %	103.7984 %
Concentration RSD	1.3 %	0.5 %	0.1 %	0.4 %	0.4 %	0.2 %	0.5 %

LabBook: WG2039392_03122025T5.imexp

Sample: L2512166-01d2 WG2037739
Analysis started at: 3/12/2025 4:30:28 PM
Comments <Comment>
Rack: 1
Vial: 58

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0028 ppm	54.2823 ppm	0.0432 ppm	0.0590 ppm	0.6559 ppm	0.0024 ppm	72.9926 ppm
Concentration per Run 1	0.0028 ppm	54.7932 ppm	0.0448 ppm	0.0600 ppm	0.6619 ppm	0.0024 ppm	73.7714 ppm
Concentration per Run 2	0.0029 ppm	54.3770 ppm	0.0435 ppm	0.0589 ppm	0.6570 ppm	0.0024 ppm	73.0974 ppm
Concentration per Run 3	0.0027 ppm	53.6765 ppm	0.0413 ppm	0.0580 ppm	0.6488 ppm	0.0024 ppm	72.1090 ppm
Concentration RSD	3.5 %	1.0 %	4.1 %	1.7 %	1.0 %	0.5 %	1.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0003 ppm	0.0496 ppm	0.1669 ppm	0.3767 ppm	118.5506 ppm	6.7110 ppm	0.0600 ppm
Concentration per Run 1	0.0004 ppm	0.0505 ppm	0.1678 ppm	0.3782 ppm	119.2352 ppm	6.7553 ppm	0.0608 ppm
Concentration per Run 2	0.0003 ppm	0.0496 ppm	0.1672 ppm	0.3764 ppm	118.4649 ppm	6.7019 ppm	0.0598 ppm
Concentration per Run 3	0.0002 ppm	0.0488 ppm	0.1656 ppm	0.3754 ppm	117.9515 ppm	6.6757 ppm	0.0594 ppm
Concentration RSD	32.4 %	1.8 %	0.7 %	0.4 %	0.5 %	0.6 %	1.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	25.3444 ppm	3.6525 ppm	0.0050 ppm	3.3428 ppm	0.1014 ppm	0.4730 ppm	0.0043 ppm
Concentration per Run 1	25.4799 ppm	3.6793 ppm	0.0052 ppm	3.3738 ppm	0.1026 ppm	0.4809 ppm	0.0054 ppm
Concentration per Run 2	25.3866 ppm	3.6582 ppm	0.0050 ppm	3.3486 ppm	0.1011 ppm	0.4712 ppm	0.0041 ppm
Concentration per Run 3	25.1668 ppm	3.6200 ppm	0.0047 ppm	3.3059 ppm	0.1006 ppm	0.4670 ppm	0.0035 ppm
Concentration RSD	0.6 %	0.8 %	4.7 %	1.0 %	1.0 %	1.5 %	22.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0025 ppm	4.7641 ppm	0.0227 ppm	0.2964 ppm	2.2928 ppm	0.0016 ppm	0.1966 ppm
Concentration per Run 1	0.0040 ppm	4.8366 ppm	0.0221 ppm	0.2987 ppm	2.3064 ppm	0.0007 ppm	0.1975 ppm
Concentration per Run 2	0.0005 ppm	4.7517 ppm	0.0228 ppm	0.2967 ppm	2.2919 ppm	0.0024 ppm	0.1965 ppm
Concentration per Run 3	0.0032 ppm	4.7040 ppm	0.0230 ppm	0.2940 ppm	2.2803 ppm	0.0017 ppm	0.1959 ppm
Concentration RSD	70.9 %	1.4 %	2.0 %	0.8 %	0.6 %	52.2 %	0.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.7874 ppm	115.1420 %	113.0750 %	117.0035 %	104.7186 %	97.4722 %	102.7383 %
Concentration per Run 1	0.7990 ppm	114.7558 %	113.3978 %	117.1047 %	103.9782 %	97.4287 %	103.0323 %
Concentration per Run 2	0.7856 ppm	115.5500 %	113.0854 %	116.9304 %	104.7755 %	97.4179 %	102.7872 %
Concentration per Run 3	0.7777 ppm	115.1201 %	112.7418 %	116.9755 %	105.4020 %	97.5702 %	102.3952 %
Concentration RSD	1.4 %	0.3 %	0.3 %	0.1 %	0.7 %	0.1 %	0.3 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: CCV
Analysis started at: 3/12/2025 4:36:41 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4839 ppm	0.4951 ppm	0.4742 ppm	0.4700 ppm	0.4758 ppm	0.4830 ppm	0.5134 ppm
Concentration per Run 1	0.4824 ppm	0.4996 ppm	0.4754 ppm	0.4682 ppm	0.4788 ppm	0.4857 ppm	0.5159 ppm
Concentration per Run 2	0.4808 ppm	0.4918 ppm	0.4700 ppm	0.4688 ppm	0.4745 ppm	0.4816 ppm	0.5121 ppm
Concentration per Run 3	0.4885 ppm	0.4939 ppm	0.4771 ppm	0.4731 ppm	0.4741 ppm	0.4817 ppm	0.5121 ppm
Recovery Percentage 1	96.778 %	99.012 %	94.834 %	94.006 %	95.164 %	96.598 %	102.673 %
Concentration RSD	0.8 %	0.8 %	0.8 %	0.6 %	0.5 %	0.5 %	0.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4950 ppm	0.5032 ppm	0.5179 ppm	0.5025 ppm	0.5391 ppm	5.0074 ppm	0.4774 ppm
Concentration per Run 1	0.4928 ppm	0.5008 ppm	0.5153 ppm	0.4991 ppm	0.5420 ppm	5.0758 ppm	0.4814 ppm
Concentration per Run 2	0.4954 ppm	0.5030 ppm	0.5147 ppm	0.5000 ppm	0.5380 ppm	4.9676 ppm	0.4756 ppm
Concentration per Run 3	0.4969 ppm	0.5057 ppm	0.5236 ppm	0.5083 ppm	0.5372 ppm	4.9788 ppm	0.4752 ppm
Recovery Percentage 1	99.008 %	100.634 %	103.576 %	100.492 %	107.810 %	100.148 %	95.479 %
Concentration RSD	0.4 %	0.5 %	1.0 %	1.0 %	0.5 %	1.2 %	0.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5106 ppm	0.4900 ppm	0.4834 ppm	9.7775 ppm	0.4912 ppm	0.4917 ppm	0.4895 ppm
Concentration per Run 1	0.5098 ppm	0.4937 ppm	0.4798 ppm	9.8919 ppm	0.4893 ppm	0.4906 ppm	0.4882 ppm
Concentration per Run 2	0.5080 ppm	0.4878 ppm	0.4836 ppm	9.7449 ppm	0.4920 ppm	0.4922 ppm	0.4903 ppm
Concentration per Run 3	0.5140 ppm	0.4887 ppm	0.4868 ppm	9.6957 ppm	0.4924 ppm	0.4925 ppm	0.4900 ppm
Recovery Percentage 1	102.117 %	98.010 %	96.681 %	97.775 %	98.246 %	98.346 %	97.897 %
Concentration RSD	0.6 %	0.7 %	0.7 %	1.0 %	0.3 %	0.2 %	0.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4915 ppm	5.4147 ppm	0.4750 ppm	0.4868 ppm	0.4997 ppm	0.5039 ppm	0.4989 ppm
Concentration per Run 1	0.4923 ppm	5.3958 ppm	0.4722 ppm	0.4919 ppm	0.4968 ppm	0.5015 ppm	0.4956 ppm
Concentration per Run 2	0.4899 ppm	5.4136 ppm	0.4766 ppm	0.4850 ppm	0.4978 ppm	0.5038 ppm	0.4964 ppm
Concentration per Run 3	0.4923 ppm	5.4348 ppm	0.4761 ppm	0.4836 ppm	0.5044 ppm	0.5065 ppm	0.5048 ppm
Recovery Percentage 1	98.303 %	103.138 %	94.995 %	97.366 %	99.937 %	100.784 %	99.789 %
Concentration RSD	0.3 %	0.4 %	0.5 %	0.9 %	0.8 %	0.5 %	1.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4970 ppm	95.0546 %	98.4397 %	104.3049 %	99.4110 %	102.3370 %	101.6107 %
Concentration per Run 1	0.4949 ppm	93.6897 %	98.5465 %	104.6875 %	98.3700 %	102.7997 %	101.9952 %
Concentration per Run 2	0.4979 ppm	95.6581 %	98.8345 %	103.9876 %	99.8095 %	102.2575 %	102.0847 %
Concentration per Run 3	0.4982 ppm	95.8159 %	97.9382 %	104.2395 %	100.0534 %	101.9538 %	100.7523 %
Recovery Percentage 1	99.401 %						
Concentration RSD	0.4 %	1.2 %	0.5 %	0.3 %	0.9 %	0.4 %	0.7 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: CCB
Analysis started at: 3/12/2025 4:53:42 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	-0.0030 ppm	-0.0003 ppm	0.0015 ppm	0.0001 ppm	0.0000 ppm	0.0090 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0006 ppm	0.0015 ppm	0.0002 ppm	0.0000 ppm	0.0103 ppm
Concentration per Run 2	0.0004 ppm	-0.0011 ppm	-0.0010 ppm	0.0018 ppm	0.0001 ppm	0.0001 ppm	0.0089 ppm
Concentration per Run 3	0.0003 ppm	-0.0078 ppm	-0.0006 ppm	0.0012 ppm	0.0000 ppm	0.0000 ppm	0.0077 ppm
Recovery Percentage 1	3.481 %	-2.983 %	-6.991 %	4.974 %	1.148 %	0.004 %	8.989 %
Concentration RSD	78.2 %	140.4 %	245.4 %	19.7 %	100.3 %	24,905.1 %	14.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	0.0029 ppm	-0.0025 ppm	0.0010 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0006 ppm	0.0016 ppm	0.0053 ppm	0.0002 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0002 ppm	0.0037 ppm	0.0314 ppm	0.0017 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0002 ppm	-0.0004 ppm	0.0035 ppm	-0.0442 ppm	0.0012 ppm
Recovery Percentage 1	0.203 %	0.137 %	-0.571 %	-3.879 %	5.846 %	-0.101 %	10.178 %
Concentration RSD	87.3 %	115.7 %	301.5 %	48.5 %	40.2 %	1,528.3 %	76.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0018 ppm	-0.0001 ppm	0.0004 ppm	0.0417 ppm	0.0000 ppm	0.0005 ppm	-0.0009 ppm
Concentration per Run 1	-0.0017 ppm	0.0000 ppm	0.0004 ppm	0.0431 ppm	0.0001 ppm	0.0001 ppm	-0.0020 ppm
Concentration per Run 2	-0.0025 ppm	-0.0001 ppm	0.0003 ppm	0.0432 ppm	-0.0002 ppm	0.0011 ppm	-0.0009 ppm
Concentration per Run 3	-0.0012 ppm	-0.0003 ppm	0.0003 ppm	0.0388 ppm	0.0001 ppm	0.0004 ppm	0.0002 ppm
Recovery Percentage 1	-1.782 %	-1.260 %	0.708 %	2.087 %	-0.023 %	5.409 %	-1.788 %
Concentration RSD	37.1 %	129.8 %	13.3 %	6.0 %	2,776.8 %	96.8 %	124.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0006 ppm	-0.0006 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0013 ppm	0.0000 ppm
Concentration per Run 1	0.0010 ppm	-0.0002 ppm	0.0005 ppm	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0001 ppm
Concentration per Run 2	-0.0007 ppm	-0.0017 ppm	0.0006 ppm	0.0001 ppm	0.0000 ppm	0.0014 ppm	-0.0002 ppm
Concentration per Run 3	-0.0021 ppm	0.0000 ppm	0.0002 ppm	0.0000 ppm	-0.0001 ppm	0.0020 ppm	0.0002 ppm
Recovery Percentage 1	-5.727 %	-0.127 %	0.819 %	-0.032 %	0.224 %	6.480 %	0.415 %
Concentration RSD	269.5 %	139.5 %	48.1 %	1,536.4 %	368.1 %	61.4 %	536.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0008 ppm	94.9103 %	100.2978 %	104.4886 %	96.5608 %	103.2461 %	101.3357 %
Concentration per Run 1	0.0007 ppm	92.7923 %	100.1997 %	104.5607 %	94.8896 %	103.1353 %	101.3739 %
Concentration per Run 2	0.0008 ppm	95.3718 %	100.4686 %	104.4822 %	96.4230 %	103.3021 %	101.4077 %
Concentration per Run 3	0.0008 ppm	96.5669 %	100.2250 %	104.4228 %	98.3698 %	103.3007 %	101.2254 %
Recovery Percentage 1	15.492 %						
Concentration RSD	4.6 %	2.0 %	0.1 %	0.1 %	1.8 %	0.1 %	0.1 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: zWG2038617-1 WG2038617
Analysis started at: 3/12/2025 5:11:52 PM
Comments <Comment>
Rack: 1
Vial: 54

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0006 ppm	0.0129 ppm	-0.0013 ppm	0.0012 ppm	0.0005 ppm	0.0000 ppm	0.0534 ppm
Concentration per Run 1	0.0005 ppm	0.0173 ppm	-0.0020 ppm	0.0011 ppm	0.0005 ppm	0.0000 ppm	0.0518 ppm
Concentration per Run 2	0.0007 ppm	0.0125 ppm	-0.0015 ppm	0.0014 ppm	0.0005 ppm	0.0000 ppm	0.0555 ppm
Concentration per Run 3	0.0005 ppm	0.0089 ppm	-0.0006 ppm	0.0011 ppm	0.0005 ppm	-0.0001 ppm	0.0528 ppm
Recovery Percentage 1	8.296 %	12.927 %	-26.820 %	3.906 %	4.885 %	-0.541 %	53.368 %
Concentration RSD	23.8 %	32.6 %	51.2 %	14.2 %	10.3 %	226.3 %	3.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0001 ppm	0.0000 ppm	0.0007 ppm	0.0002 ppm	0.0380 ppm	0.0112 ppm	0.0016 ppm
Concentration per Run 1	0.0001 ppm	0.0001 ppm	0.0006 ppm	0.0003 ppm	0.0378 ppm	0.0211 ppm	0.0013 ppm
Concentration per Run 2	0.0001 ppm	0.0000 ppm	0.0007 ppm	0.0001 ppm	0.0380 ppm	0.0178 ppm	0.0020 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	0.0009 ppm	0.0002 ppm	0.0383 ppm	-0.0052 ppm	0.0015 ppm
Recovery Percentage 1	2.304 %	0.107 %	7.177 %	2.070 %	76.074 %	0.449 %	15.682 %
Concentration RSD	16.3 %	189.8 %	21.1 %	48.5 %	0.7 %	127.5 %	23.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0072 ppm	0.0019 ppm	0.0004 ppm	0.0438 ppm	0.0003 ppm	0.1059 ppm	-0.0002 ppm
Concentration per Run 1	0.0073 ppm	0.0019 ppm	0.0005 ppm	0.0473 ppm	0.0005 ppm	0.1056 ppm	-0.0008 ppm
Concentration per Run 2	0.0072 ppm	0.0020 ppm	0.0003 ppm	0.0414 ppm	0.0001 ppm	0.1061 ppm	-0.0002 ppm
Concentration per Run 3	0.0072 ppm	0.0019 ppm	0.0004 ppm	0.0427 ppm	0.0004 ppm	0.1060 ppm	0.0004 ppm
Recovery Percentage 1	7.214 %	19.356 %	0.795 %	2.189 %	1.279 %	1,059.128 %	-0.398 %
Concentration RSD	0.7 %	5.0 %	33.1 %	7.0 %	60.8 %	0.3 %	291.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0005 ppm	0.0175 ppm	0.0063 ppm	0.0002 ppm	0.0015 ppm	-0.0007 ppm	-0.0001 ppm
Concentration per Run 1	0.0012 ppm	0.0171 ppm	0.0066 ppm	0.0002 ppm	0.0016 ppm	-0.0011 ppm	0.0001 ppm
Concentration per Run 2	-0.0002 ppm	0.0183 ppm	0.0064 ppm	0.0002 ppm	0.0015 ppm	-0.0009 ppm	0.0000 ppm
Concentration per Run 3	-0.0025 ppm	0.0170 ppm	0.0060 ppm	0.0001 ppm	0.0015 ppm	0.0000 ppm	-0.0003 ppm
Recovery Percentage 1	-4.746 %	3.496 %	12.656 %	1.505 %	15.225 %	-3.333 %	-0.839 %
Concentration RSD	390.4 %	4.0 %	4.8 %	16.3 %	4.1 %	85.4 %	283.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0086 ppm	98.8693 %	101.8317 %	104.9832 %	101.2434 %	103.5969 %	103.7700 %
Concentration per Run 1	0.0086 ppm	99.6140 %	101.6878 %	105.0192 %	102.3335 %	103.5417 %	103.4814 %
Concentration per Run 2	0.0086 ppm	98.3720 %	101.8089 %	104.9726 %	100.5646 %	103.7103 %	103.8568 %
Concentration per Run 3	0.0086 ppm	98.6220 %	101.9985 %	104.9578 %	100.8320 %	103.5386 %	103.9717 %
Recovery Percentage 1	171.433 %						
Concentration RSD	0.1 %	0.7 %	0.2 %	0.0 %	0.9 %	0.1 %	0.2 %

LabBook: WG2039392_03122025T5.imexp

Sample: OB SCAN 2325-06 DIS
Analysis started at: 3/12/2025 5:18:32 PM
Comments <Comment>
Rack: 1
Vial: 56

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0044 ppm	-0.0003 ppm	0.0119 ppm	0.0105 ppm	0.0000 ppm	11.4960 ppm
Concentration per Run 1	0.0001 ppm	0.0061 ppm	-0.0012 ppm	0.0121 ppm	0.0108 ppm	0.0000 ppm	11.8363 ppm
Concentration per Run 2	0.0000 ppm	0.0052 ppm	-0.0001 ppm	0.0118 ppm	0.0105 ppm	-0.0001 ppm	11.4919 ppm
Concentration per Run 3	0.0003 ppm	0.0018 ppm	0.0004 ppm	0.0119 ppm	0.0102 ppm	0.0000 ppm	11.1596 ppm
Concentration RSD	123.5 %	51.9 %	279.2 %	1.2 %	2.8 %	74.2 %	2.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0024 ppm	-0.0004 ppm	0.0049 ppm	1.0283 ppm	0.0024 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0024 ppm	-0.0004 ppm	0.0047 ppm	1.0611 ppm	0.0027 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0023 ppm	-0.0004 ppm	0.0043 ppm	1.0442 ppm	0.0012 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0025 ppm	-0.0003 ppm	0.0056 ppm	0.9795 ppm	0.0034 ppm
Concentration RSD	134.3 %	97.7 %	4.0 %	15.7 %	13.4 %	4.2 %	47.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	5.1276 ppm	0.0002 ppm	0.0001 ppm	17.7560 ppm	0.0002 ppm	0.0008 ppm	-0.0004 ppm
Concentration per Run 1	5.1519 ppm	0.0002 ppm	0.0002 ppm	18.3271 ppm	0.0002 ppm	0.0005 ppm	-0.0002 ppm
Concentration per Run 2	5.1132 ppm	0.0004 ppm	0.0001 ppm	17.7105 ppm	0.0001 ppm	0.0013 ppm	-0.0005 ppm
Concentration per Run 3	5.1176 ppm	0.0000 ppm	0.0001 ppm	17.2302 ppm	0.0002 ppm	0.0007 ppm	-0.0004 ppm
Concentration RSD	0.4 %	103.2 %	42.9 %	3.1 %	39.0 %	50.8 %	37.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0006 ppm	6.8928 ppm	-0.0001 ppm	0.0571 ppm	0.0003 ppm	-0.0003 ppm	0.0003 ppm
Concentration per Run 1	0.0011 ppm	6.8959 ppm	-0.0003 ppm	0.0591 ppm	0.0003 ppm	-0.0005 ppm	0.0007 ppm
Concentration per Run 2	0.0000 ppm	6.8927 ppm	0.0002 ppm	0.0568 ppm	0.0004 ppm	-0.0008 ppm	0.0002 ppm
Concentration per Run 3	0.0006 ppm	6.8899 ppm	-0.0002 ppm	0.0554 ppm	0.0002 ppm	0.0004 ppm	0.0001 ppm
Concentration RSD	98.3 %	0.0 %	265.5 %	3.2 %	41.9 %	192.2 %	103.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0007 ppm	96.1742 %	100.8061 %	106.3412 %	96.4376 %	104.7340 %	103.6315 %
Concentration per Run 1	0.0006 ppm	94.2408 %	100.5470 %	106.0913 %	93.4873 %	104.6975 %	103.1271 %
Concentration per Run 2	0.0007 ppm	96.1204 %	100.9714 %	106.3173 %	96.7014 %	104.7197 %	103.7790 %
Concentration per Run 3	0.0009 ppm	98.1615 %	100.8998 %	106.6152 %	99.1240 %	104.7849 %	103.9883 %
Concentration RSD	15.8 %	2.0 %	0.2 %	0.2 %	2.9 %	0.0 %	0.4 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: xwrong spot
Analysis started at: 3/12/2025 5:24:53 PM
Comments <Comment>
Rack: 1
Vial: 57

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0014 ppm	78.8422 ppm	-0.0008 ppm	-0.0009 ppm	0.5737 ppm	0.0043 ppm	8.8633 ppm
Concentration per Run 1	0.0019 ppm	79.7324 ppm	-0.0009 ppm	-0.0008 ppm	0.5796 ppm	0.0043 ppm	8.9450 ppm
Concentration per Run 2	0.0011 ppm	79.0501 ppm	-0.0009 ppm	-0.0009 ppm	0.5749 ppm	0.0042 ppm	8.8812 ppm
Concentration per Run 3	0.0013 ppm	77.7442 ppm	-0.0006 ppm	-0.0009 ppm	0.5667 ppm	0.0043 ppm	8.7636 ppm
Concentration RSD	27.1 %	1.3 %	19.9 %	5.7 %	1.1 %	1.4 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0013 ppm	-0.0003 ppm	0.0021 ppm	0.0005 ppm	120.2698 ppm	3.8744 ppm	0.0431 ppm
Concentration per Run 1	-0.0012 ppm	-0.0002 ppm	0.0038 ppm	0.0032 ppm	121.5208 ppm	3.9457 ppm	0.0431 ppm
Concentration per Run 2	-0.0013 ppm	-0.0004 ppm	0.0012 ppm	-0.0017 ppm	120.5791 ppm	3.8788 ppm	0.0437 ppm
Concentration per Run 3	-0.0014 ppm	-0.0003 ppm	0.0013 ppm	-0.0001 ppm	118.7093 ppm	3.7988 ppm	0.0426 ppm
Concentration RSD	6.0 %	29.6 %	70.0 %	552.1 %	1.2 %	1.9 %	1.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0736 ppm	2.0419 ppm	0.0000 ppm	0.3259 ppm	0.0023 ppm	0.0027 ppm	-0.0021 ppm
Concentration per Run 1	0.1900 ppm	2.0622 ppm	0.0000 ppm	0.2909 ppm	0.0023 ppm	0.0033 ppm	-0.0022 ppm
Concentration per Run 2	0.0138 ppm	2.0471 ppm	0.0000 ppm	0.3288 ppm	0.0022 ppm	0.0022 ppm	-0.0024 ppm
Concentration per Run 3	0.0170 ppm	2.0164 ppm	0.0001 ppm	0.3579 ppm	0.0023 ppm	0.0026 ppm	-0.0018 ppm
Concentration RSD	136.9 %	1.1 %	155.3 %	10.3 %	2.0 %	21.3 %	13.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0059 ppm	0.0112 ppm	-0.0004 ppm	0.0258 ppm	0.0097 ppm	0.0034 ppm	0.0027 ppm
Concentration per Run 1	0.0062 ppm	0.0256 ppm	-0.0003 ppm	0.0259 ppm	0.0228 ppm	0.0033 ppm	0.0054 ppm
Concentration per Run 2	0.0061 ppm	-0.0010 ppm	-0.0004 ppm	0.0258 ppm	0.0032 ppm	0.0035 ppm	0.0013 ppm
Concentration per Run 3	0.0055 ppm	0.0090 ppm	-0.0004 ppm	0.0256 ppm	0.0032 ppm	0.0034 ppm	0.0013 ppm
Concentration RSD	5.8 %	120.5 %	9.9 %	0.7 %	116.1 %	2.9 %	86.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0005 ppm	156.0021 %	456.5418 %	474.4883 %	104.0977 %	465.9545 %	393.3156 %
Concentration per Run 1	0.0013 ppm	154.9192 %	N/A	491.7722 %	102.9230 %	482.4263 %	260.8922 %
Concentration per Run 2	-0.0002 ppm	155.4906 %	N/A	482.0230 %	103.6327 %	472.8448 %	500.5623 %
Concentration per Run 3	0.0003 ppm	157.5963 %	456.5418 %	449.6699 %	105.7374 %	442.5925 %	418.4923 %
Concentration RSD	171.2 %	0.9 %	N/A	4.6 %	1.4 %	4.5 %	31.0 %

LabBook: WG2039392_03122025T5.imexp

Sample: CCV
Analysis started at: 3/12/2025 5:31:26 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4731 ppm	0.4769 ppm	0.4671 ppm	0.4626 ppm	0.4595 ppm	0.4646 ppm	0.4915 ppm
Concentration per Run 1	0.4727 ppm	0.4597 ppm	0.4663 ppm	0.4625 ppm	0.4516 ppm	0.4576 ppm	0.4849 ppm
Concentration per Run 2	0.4730 ppm	0.4895 ppm	0.4692 ppm	0.4638 ppm	0.4627 ppm	0.4672 ppm	0.4977 ppm
Concentration per Run 3	0.4738 ppm	0.4815 ppm	0.4658 ppm	0.4615 ppm	0.4643 ppm	0.4689 ppm	0.4918 ppm
Recovery Percentage 1	94.628 %	95.378 %	93.428 %	92.524 %	91.907 %	92.912 %	98.294 %
Concentration RSD	0.1 %	3.2 %	0.4 %	0.2 %	1.5 %	1.3 %	1.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4897 ppm	0.4970 ppm	0.5101 ppm	0.4949 ppm	0.5072 ppm	4.7861 ppm	0.4562 ppm
Concentration per Run 1	0.4907 ppm	0.4982 ppm	0.5092 ppm	0.4945 ppm	0.5001 ppm	4.7101 ppm	0.4503 ppm
Concentration per Run 2	0.4901 ppm	0.4977 ppm	0.5098 ppm	0.4957 ppm	0.5100 ppm	4.8293 ppm	0.4602 ppm
Concentration per Run 3	0.4883 ppm	0.4951 ppm	0.5114 ppm	0.4946 ppm	0.5115 ppm	4.8187 ppm	0.4583 ppm
Recovery Percentage 1	97.941 %	99.401 %	102.022 %	98.982 %	101.445 %	95.721 %	91.247 %
Concentration RSD	0.3 %	0.3 %	0.2 %	0.1 %	1.2 %	1.4 %	1.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5007 ppm	0.4690 ppm	0.4764 ppm	9.4077 ppm	0.4858 ppm	0.4876 ppm	0.4823 ppm
Concentration per Run 1	0.4968 ppm	0.4626 ppm	0.4765 ppm	9.2771 ppm	0.4867 ppm	0.4870 ppm	0.4823 ppm
Concentration per Run 2	0.5031 ppm	0.4714 ppm	0.4770 ppm	9.4738 ppm	0.4864 ppm	0.4894 ppm	0.4837 ppm
Concentration per Run 3	0.5023 ppm	0.4730 ppm	0.4756 ppm	9.4721 ppm	0.4842 ppm	0.4863 ppm	0.4810 ppm
Recovery Percentage 1	100.140 %	93.802 %	95.273 %	94.077 %	97.150 %	97.511 %	96.460 %
Concentration RSD	0.7 %	1.2 %	0.2 %	1.2 %	0.3 %	0.3 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4878 ppm	5.3492 ppm	0.4713 ppm	0.4618 ppm	0.4903 ppm	0.4973 ppm	0.4910 ppm
Concentration per Run 1	0.4881 ppm	5.3600 ppm	0.4719 ppm	0.4550 ppm	0.4907 ppm	0.4977 ppm	0.4910 ppm
Concentration per Run 2	0.4862 ppm	5.3600 ppm	0.4715 ppm	0.4647 ppm	0.4891 ppm	0.4982 ppm	0.4913 ppm
Concentration per Run 3	0.4893 ppm	5.3275 ppm	0.4706 ppm	0.4658 ppm	0.4910 ppm	0.4960 ppm	0.4908 ppm
Recovery Percentage 1	97.569 %	101.889 %	94.264 %	92.362 %	98.054 %	99.457 %	98.200 %
Concentration RSD	0.3 %	0.4 %	0.1 %	1.3 %	0.2 %	0.2 %	0.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4915 ppm	97.7284 %	99.7786 %	104.7406 %	101.9584 %	102.8087 %	102.5595 %
Concentration per Run 1	0.4924 ppm	98.2583 %	99.7230 %	104.8908 %	102.5193 %	102.7240 %	102.3920 %
Concentration per Run 2	0.4916 ppm	97.3893 %	100.1163 %	104.7610 %	101.7155 %	102.6993 %	102.8352 %
Concentration per Run 3	0.4905 ppm	97.5375 %	99.4966 %	104.5701 %	101.6404 %	103.0028 %	102.4513 %
Recovery Percentage 1	98.300 %						
Concentration RSD	0.2 %	0.5 %	0.3 %	0.2 %	0.5 %	0.2 %	0.2 %

LabBook: WG2039392_03122025T5.imexp

Sample: CCB
Analysis started at: 3/12/2025 5:37:34 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	-0.0033 ppm	0.0001 ppm	0.0010 ppm	0.0002 ppm	0.0000 ppm	0.0041 ppm
Concentration per Run 1	-0.0003 ppm	-0.0081 ppm	0.0005 ppm	0.0011 ppm	0.0001 ppm	0.0000 ppm	0.0038 ppm
Concentration per Run 2	0.0004 ppm	-0.0018 ppm	0.0002 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0052 ppm
Concentration per Run 3	-0.0002 ppm	0.0001 ppm	-0.0004 ppm	0.0011 ppm	0.0004 ppm	0.0000 ppm	0.0033 ppm
Recovery Percentage 1	-0.211 %	-3.281 %	2.236 %	3.492 %	1.602 %	0.123 %	4.108 %
Concentration RSD	2,437.3 %	130.4 %	447.1 %	10.9 %	115.7 %	435.7 %	23.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0002 ppm	-0.0006 ppm	0.0019 ppm	-0.0297 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0002 ppm	-0.0007 ppm	0.0027 ppm	-0.0395 ppm	0.0003 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0002 ppm	-0.0007 ppm	0.0019 ppm	0.0067 ppm	0.0001 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0002 ppm	-0.0004 ppm	0.0011 ppm	-0.0563 ppm	-0.0001 ppm
Recovery Percentage 1	0.861 %	0.403 %	1.974 %	-6.007 %	3.805 %	-1.188 %	1.225 %
Concentration RSD	29.3 %	31.5 %	8.2 %	29.2 %	42.7 %	109.9 %	167.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0009 ppm	-0.0001 ppm	0.0011 ppm	0.0066 ppm	0.0000 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run 1	-0.0003 ppm	-0.0001 ppm	0.0013 ppm	0.0095 ppm	0.0001 ppm	0.0004 ppm	0.0010 ppm
Concentration per Run 2	0.0033 ppm	-0.0001 ppm	0.0011 ppm	0.0073 ppm	0.0000 ppm	0.0004 ppm	-0.0013 ppm
Concentration per Run 3	-0.0003 ppm	0.0000 ppm	0.0010 ppm	0.0031 ppm	0.0000 ppm	-0.0002 ppm	0.0003 ppm
Recovery Percentage 1	0.907 %	-0.611 %	2.284 %	0.332 %	0.107 %	1.949 %	-0.026 %
Concentration RSD	230.9 %	77.5 %	15.8 %	48.6 %	112.9 %	183.4 %	8,905.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0014 ppm	0.0001 ppm	0.0002 ppm	0.0001 ppm	0.0001 ppm	0.0009 ppm	0.0000 ppm
Concentration per Run 1	0.0038 ppm	0.0004 ppm	0.0003 ppm	0.0001 ppm	0.0001 ppm	0.0007 ppm	0.0001 ppm
Concentration per Run 2	-0.0016 ppm	-0.0001 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm	-0.0001 ppm
Concentration per Run 3	0.0021 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0021 ppm	0.0000 ppm
Recovery Percentage 1	14.485 %	0.025 %	0.474 %	0.612 %	0.936 %	4.407 %	0.272 %
Concentration RSD	189.8 %	216.2 %	81.1 %	72.6 %	145.7 %	132.9 %	275.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0008 ppm	99.4760 %	99.9437 %	105.0859 %	101.9963 %	103.2910 %	101.3841 %
Concentration per Run 1	0.0009 ppm	100.7184 %	99.9827 %	105.1349 %	102.5989 %	102.9876 %	101.5498 %
Concentration per Run 2	0.0008 ppm	98.8650 %	100.0363 %	105.0822 %	101.3056 %	103.4274 %	101.3451 %
Concentration per Run 3	0.0008 ppm	98.8446 %	99.8120 %	105.0408 %	102.0844 %	103.4582 %	101.2573 %
Recovery Percentage 1	16.591 %						
Concentration RSD	4.3 %	1.1 %	0.1 %	0.0 %	0.6 %	0.3 %	0.1 %

LabBook: WG2039392_03122025T5.imexp

Sample: OB SCAN 2325-06 TOT
Analysis started at: 3/12/2025 5:43:59 PM
Comments <Comment>
Rack: 1
Vial: 55

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.1518 ppm	-0.0009 ppm	0.0140 ppm	0.0116 ppm	0.0000 ppm	13.6147 ppm
Concentration per Run 1	0.0000 ppm	0.1524 ppm	-0.0012 ppm	0.0139 ppm	0.0117 ppm	0.0000 ppm	13.8528 ppm
Concentration per Run 2	-0.0001 ppm	0.1561 ppm	-0.0004 ppm	0.0139 ppm	0.0116 ppm	0.0000 ppm	13.4567 ppm
Concentration per Run 3	0.0002 ppm	0.1469 ppm	-0.0010 ppm	0.0141 ppm	0.0114 ppm	0.0000 ppm	13.5345 ppm
Concentration RSD	391.4 %	3.1 %	48.4 %	0.8 %	1.5 %	188.1 %	1.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0026 ppm	-0.0004 ppm	0.1053 ppm	0.9973 ppm	0.0013 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0027 ppm	-0.0003 ppm	0.1065 ppm	1.0186 ppm	0.0003 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0023 ppm	-0.0003 ppm	0.1018 ppm	0.9920 ppm	0.0021 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0026 ppm	-0.0005 ppm	0.1076 ppm	0.9813 ppm	0.0016 ppm
Concentration RSD	27.6 %	40.4 %	8.5 %	35.4 %	2.9 %	1.9 %	68.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	6.7985 ppm	0.0070 ppm	0.0003 ppm	10.7757 ppm	0.0005 ppm	0.0010 ppm	0.0000 ppm
Concentration per Run 1	6.8069 ppm	0.0070 ppm	0.0004 ppm	10.9628 ppm	0.0005 ppm	0.0011 ppm	-0.0003 ppm
Concentration per Run 2	6.8043 ppm	0.0071 ppm	0.0001 ppm	10.6651 ppm	0.0006 ppm	0.0013 ppm	0.0006 ppm
Concentration per Run 3	6.7843 ppm	0.0069 ppm	0.0004 ppm	10.6991 ppm	0.0005 ppm	0.0006 ppm	-0.0003 ppm
Concentration RSD	0.2 %	1.4 %	56.3 %	1.5 %	11.7 %	37.6 %	3,327.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0005 ppm	6.6755 ppm	-0.0002 ppm	0.0617 ppm	0.0030 ppm	0.0011 ppm	0.0006 ppm
Concentration per Run 1	-0.0014 ppm	6.6926 ppm	0.0000 ppm	0.0627 ppm	0.0028 ppm	0.0007 ppm	0.0006 ppm
Concentration per Run 2	-0.0003 ppm	6.6564 ppm	0.0001 ppm	0.0609 ppm	0.0030 ppm	0.0009 ppm	0.0005 ppm
Concentration per Run 3	0.0004 ppm	6.6776 ppm	-0.0006 ppm	0.0616 ppm	0.0032 ppm	0.0016 ppm	0.0008 ppm
Concentration RSD	198.6 %	0.3 %	241.3 %	1.5 %	7.7 %	44.4 %	20.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0014 ppm	102.1317 %	101.2077 %	106.3296 %	102.2058 %	104.8071 %	103.5896 %
Concentration per Run 1	0.0014 ppm	101.9607 %	101.2359 %	106.5211 %	100.7829 %	104.9810 %	103.5160 %
Concentration per Run 2	0.0015 ppm	103.4452 %	101.4960 %	106.2078 %	103.3128 %	104.7602 %	103.8515 %
Concentration per Run 3	0.0014 ppm	100.9892 %	100.8912 %	106.2600 %	102.5216 %	104.6800 %	103.4014 %
Concentration RSD	4.7 %	1.2 %	0.3 %	0.2 %	1.3 %	0.1 %	0.2 %

LabBook: WG2039392_03122025T5.imexp

Sample: WG2039428-1 WG2039428
Analysis started at: 3/12/2025 6:21:23 PM
Comments <Comment>
Rack: 1
Vial: 59

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	-0.0024 ppm	-0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0124 ppm
Concentration per Run 1	0.0003 ppm	-0.0066 ppm	0.0008 ppm	0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0107 ppm
Concentration per Run 2	0.0004 ppm	-0.0041 ppm	-0.0003 ppm	0.0005 ppm	0.0002 ppm	0.0000 ppm	0.0166 ppm
Concentration per Run 3	-0.0001 ppm	0.0036 ppm	-0.0007 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0099 ppm
Concentration RSD	108.1 %	222.1 %	1,019.3 %	84.2 %	16.8 %	200.1 %	29.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0002 ppm	-0.0002 ppm	0.0019 ppm	-0.0419 ppm	-0.0004 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0003 ppm	-0.0002 ppm	0.0019 ppm	-0.0414 ppm	0.0005 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0022 ppm	-0.0264 ppm	-0.0002 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0002 ppm	-0.0003 ppm	0.0015 ppm	-0.0578 ppm	-0.0014 ppm
Concentration RSD	1,770.3 %	495.7 %	101.0 %	69.6 %	17.8 %	37.5 %	282.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0022 ppm	-0.0002 ppm	0.0001 ppm	-0.0318 ppm	0.0003 ppm	0.0005 ppm	-0.0007 ppm
Concentration per Run 1	0.0033 ppm	-0.0001 ppm	0.0003 ppm	-0.0301 ppm	0.0003 ppm	0.0009 ppm	-0.0006 ppm
Concentration per Run 2	0.0023 ppm	-0.0003 ppm	0.0003 ppm	-0.0312 ppm	0.0001 ppm	0.0001 ppm	-0.0009 ppm
Concentration per Run 3	0.0010 ppm	-0.0001 ppm	-0.0001 ppm	-0.0342 ppm	0.0004 ppm	0.0004 ppm	-0.0006 ppm
Concentration RSD	51.5 %	72.5 %	136.5 %	6.7 %	54.6 %	89.6 %	24.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0004 ppm	-0.0005 ppm	0.0002 ppm	0.0000 ppm	-0.0001 ppm	0.0007 ppm	0.0000 ppm
Concentration per Run 1	0.0019 ppm	-0.0004 ppm	0.0000 ppm	-0.0001 ppm	-0.0002 ppm	0.0012 ppm	0.0000 ppm
Concentration per Run 2	-0.0007 ppm	-0.0005 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0014 ppm	0.0000 ppm
Concentration per Run 3	-0.0024 ppm	-0.0006 ppm	0.0004 ppm	0.0000 ppm	-0.0001 ppm	-0.0006 ppm	0.0000 ppm
Concentration RSD	511.5 %	25.5 %	131.5 %	276.0 %	142.9 %	165.9 %	23.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0007 ppm	105.2672 %	103.3692 %	107.1513 %	104.9244 %	106.3058 %	104.1203 %
Concentration per Run 1	0.0008 ppm	109.4201 %	103.5819 %	107.1154 %	107.6203 %	106.4090 %	104.4452 %
Concentration per Run 2	0.0006 ppm	103.9001 %	103.5714 %	107.1484 %	104.2656 %	106.3226 %	104.2368 %
Concentration per Run 3	0.0007 ppm	102.4813 %	102.9541 %	107.1901 %	102.8872 %	106.1858 %	103.6791 %
Concentration RSD	9.8 %	3.5 %	0.3 %	0.0 %	2.3 %	0.1 %	0.4 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: WG2039428-2 WG2039428
Analysis started at: 3/12/2025 6:27:49 PM
Comments <Comment>
Rack: 1
Vial: 60

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0493 ppm	1.9992 ppm	0.1079 ppm	0.9092 ppm	1.9391 ppm	0.0492 ppm	10.2380 ppm
Concentration per Run 1	0.0492 ppm	1.9988 ppm	0.1095 ppm	0.9051 ppm	1.9366 ppm	0.0489 ppm	10.2270 ppm
Concentration per Run 2	0.0488 ppm	2.0013 ppm	0.1070 ppm	0.9146 ppm	1.9446 ppm	0.0494 ppm	10.2514 ppm
Concentration per Run 3	0.0498 ppm	1.9976 ppm	0.1073 ppm	0.9078 ppm	1.9362 ppm	0.0492 ppm	10.2355 ppm
Concentration RSD	1.0 %	0.1 %	1.3 %	0.5 %	0.2 %	0.5 %	0.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0523 ppm	0.4862 ppm	0.2046 ppm	0.2527 ppm	1.0348 ppm	10.1708 ppm	0.0004 ppm
Concentration per Run 1	0.0522 ppm	0.4849 ppm	0.2048 ppm	0.2534 ppm	1.0328 ppm	10.1399 ppm	0.0010 ppm
Concentration per Run 2	0.0524 ppm	0.4887 ppm	0.2043 ppm	0.2525 ppm	1.0372 ppm	10.1790 ppm	-0.0013 ppm
Concentration per Run 3	0.0522 ppm	0.4851 ppm	0.2046 ppm	0.2522 ppm	1.0344 ppm	10.1934 ppm	0.0015 ppm
Concentration RSD	0.2 %	0.4 %	0.1 %	0.2 %	0.2 %	0.3 %	366.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.0367 ppm	0.4985 ppm	0.9241 ppm	10.1381 ppm	0.4803 ppm	0.5157 ppm	0.4589 ppm
Concentration per Run 1	10.0581 ppm	0.4974 ppm	0.9127 ppm	10.1275 ppm	0.4788 ppm	0.5142 ppm	0.4546 ppm
Concentration per Run 2	10.0226 ppm	0.4999 ppm	0.9298 ppm	10.1704 ppm	0.4826 ppm	0.5175 ppm	0.4601 ppm
Concentration per Run 3	10.0295 ppm	0.4982 ppm	0.9299 ppm	10.1164 ppm	0.4794 ppm	0.5156 ppm	0.4619 ppm
Concentration RSD	0.2 %	0.3 %	1.1 %	0.3 %	0.4 %	0.3 %	0.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1105 ppm	0.8629 ppm	0.9473 ppm	0.9630 ppm	0.9787 ppm	0.1116 ppm	0.4983 ppm
Concentration per Run 1	0.1108 ppm	0.8607 ppm	0.9423 ppm	0.9607 ppm	0.9809 ppm	0.1105 ppm	0.4989 ppm
Concentration per Run 2	0.1084 ppm	0.8669 ppm	0.9527 ppm	0.9659 ppm	0.9766 ppm	0.1112 ppm	0.4970 ppm
Concentration per Run 3	0.1124 ppm	0.8612 ppm	0.9467 ppm	0.9623 ppm	0.9786 ppm	0.1131 ppm	0.4991 ppm
Concentration RSD	1.8 %	0.4 %	0.6 %	0.3 %	0.2 %	1.2 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4926 ppm	95.6365 %	100.3138 %	104.9641 %	98.6985 %	102.9019 %	102.7381 %
Concentration per Run 1	0.4920 ppm	95.4633 %	100.0925 %	105.1642 %	98.5621 %	103.0701 %	102.5527 %
Concentration per Run 2	0.4945 ppm	95.6437 %	100.3928 %	104.6160 %	98.6318 %	102.4793 %	102.9071 %
Concentration per Run 3	0.4913 ppm	95.8024 %	100.4560 %	105.1123 %	98.9018 %	103.1564 %	102.7546 %
Concentration RSD	0.3 %	0.2 %	0.2 %	0.3 %	0.2 %	0.4 %	0.2 %

LabBook: WG2039392_03122025T5.imexp

Sample: L2512189-01 WG2039428
Analysis started at: 3/12/2025 6:33:56 PM
Comments <Comment>
Rack: 2
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0102 ppm	-0.0006 ppm	0.0174 ppm	0.0421 ppm	-0.0001 ppm	32.8126 ppm
Concentration per Run 1	0.0002 ppm	0.0094 ppm	-0.0002 ppm	0.0173 ppm	0.0414 ppm	0.0000 ppm	32.4088 ppm
Concentration per Run 2	0.0001 ppm	0.0121 ppm	-0.0012 ppm	0.0176 ppm	0.0423 ppm	-0.0001 ppm	32.8316 ppm
Concentration per Run 3	0.0002 ppm	0.0092 ppm	-0.0003 ppm	0.0174 ppm	0.0426 ppm	-0.0001 ppm	33.1972 ppm
Concentration RSD	34.1 %	15.8 %	95.3 %	0.9 %	1.4 %	47.4 %	1.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	0.0009 ppm	0.0012 ppm	-0.0001 ppm	0.0400 ppm	2.9552 ppm	0.0005 ppm
Concentration per Run 1	-0.0001 ppm	0.0008 ppm	0.0011 ppm	-0.0002 ppm	0.0390 ppm	2.9206 ppm	0.0000 ppm
Concentration per Run 2	-0.0001 ppm	0.0007 ppm	0.0010 ppm	0.0000 ppm	0.0414 ppm	2.9624 ppm	0.0018 ppm
Concentration per Run 3	-0.0001 ppm	0.0010 ppm	0.0016 ppm	-0.0002 ppm	0.0398 ppm	2.9826 ppm	-0.0002 ppm
Concentration RSD	5.3 %	19.5 %	27.4 %	110.8 %	3.0 %	1.1 %	204.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	6.4979 ppm	0.0583 ppm	0.0048 ppm	41.4065 ppm	0.0009 ppm	0.0006 ppm	0.0041 ppm
Concentration per Run 1	6.5038 ppm	0.0574 ppm	0.0055 ppm	40.8195 ppm	0.0009 ppm	0.0008 ppm	0.0044 ppm
Concentration per Run 2	6.4711 ppm	0.0584 ppm	0.0048 ppm	41.5013 ppm	0.0013 ppm	0.0009 ppm	0.0046 ppm
Concentration per Run 3	6.5189 ppm	0.0589 ppm	0.0040 ppm	41.8988 ppm	0.0006 ppm	0.0001 ppm	0.0033 ppm
Concentration RSD	0.4 %	1.3 %	15.3 %	1.3 %	41.9 %	68.0 %	17.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0002 ppm	2.4940 ppm	0.0023 ppm	0.1398 ppm	0.0009 ppm	0.0005 ppm	0.0000 ppm
Concentration per Run 1	-0.0009 ppm	2.4969 ppm	0.0024 ppm	0.1374 ppm	0.0010 ppm	0.0008 ppm	0.0000 ppm
Concentration per Run 2	0.0013 ppm	2.4901 ppm	0.0020 ppm	0.1404 ppm	0.0007 ppm	0.0003 ppm	0.0002 ppm
Concentration per Run 3	0.0003 ppm	2.4950 ppm	0.0025 ppm	0.1416 ppm	0.0009 ppm	0.0003 ppm	-0.0001 ppm
Concentration RSD	495.7 %	0.1 %	13.0 %	1.6 %	12.9 %	68.1 %	495.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0018 ppm	101.1413 %	98.8419 %	102.8386 %	103.9016 %	100.2781 %	101.4266 %
Concentration per Run 1	0.0018 ppm	103.0979 %	98.8941 %	102.9845 %	104.8572 %	100.2147 %	101.1594 %
Concentration per Run 2	0.0018 ppm	100.9165 %	99.1442 %	102.7166 %	104.1680 %	100.5631 %	101.9060 %
Concentration per Run 3	0.0019 ppm	99.4093 %	98.4874 %	102.8148 %	102.6797 %	100.0564 %	101.2143 %
Concentration RSD	2.7 %	1.8 %	0.3 %	0.1 %	1.1 %	0.3 %	0.4 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: WG2039428-3 WG2039428
Analysis started at: 3/12/2025 6:40:17 PM
Comments <Comment>
Rack: 2
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0486 ppm	1.9038 ppm	0.1123 ppm	0.9431 ppm	1.8748 ppm	0.0468 ppm	42.7537 ppm
Concentration per Run 1	0.0491 ppm	1.8806 ppm	0.1117 ppm	0.9429 ppm	1.8523 ppm	0.0461 ppm	42.2510 ppm
Concentration per Run 2	0.0483 ppm	1.9081 ppm	0.1117 ppm	0.9419 ppm	1.8809 ppm	0.0470 ppm	42.8973 ppm
Concentration per Run 3	0.0483 ppm	1.9226 ppm	0.1135 ppm	0.9444 ppm	1.8913 ppm	0.0473 ppm	43.1129 ppm
Concentration RSD	0.9 %	1.1 %	0.9 %	0.1 %	1.1 %	1.4 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0522 ppm	0.4855 ppm	0.2040 ppm	0.2523 ppm	1.0154 ppm	12.8318 ppm	-0.0003 ppm
Concentration per Run 1	0.0523 ppm	0.4863 ppm	0.2040 ppm	0.2532 ppm	1.0036 ppm	12.6773 ppm	-0.0004 ppm
Concentration per Run 2	0.0520 ppm	0.4849 ppm	0.2028 ppm	0.2513 ppm	1.0176 ppm	12.8837 ppm	0.0001 ppm
Concentration per Run 3	0.0522 ppm	0.4854 ppm	0.2052 ppm	0.2524 ppm	1.0251 ppm	12.9345 ppm	-0.0004 ppm
Concentration RSD	0.3 %	0.2 %	0.6 %	0.4 %	1.1 %	1.1 %	115.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	16.2966 ppm	0.5266 ppm	0.9347 ppm	51.3891 ppm	0.4759 ppm	0.5080 ppm	0.4848 ppm
Concentration per Run 1	16.2912 ppm	0.5198 ppm	0.9270 ppm	50.8695 ppm	0.4760 ppm	0.5087 ppm	0.4820 ppm
Concentration per Run 2	16.2562 ppm	0.5285 ppm	0.9338 ppm	51.5467 ppm	0.4753 ppm	0.5075 ppm	0.4860 ppm
Concentration per Run 3	16.3425 ppm	0.5316 ppm	0.9434 ppm	51.7509 ppm	0.4765 ppm	0.5078 ppm	0.4864 ppm
Concentration RSD	0.3 %	1.2 %	0.9 %	0.9 %	0.1 %	0.1 %	0.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1139 ppm	3.3962 ppm	0.9479 ppm	1.0462 ppm	0.9770 ppm	0.1090 ppm	0.5004 ppm
Concentration per Run 1	0.1167 ppm	3.3997 ppm	0.9482 ppm	1.0347 ppm	0.9787 ppm	0.1084 ppm	0.5012 ppm
Concentration per Run 2	0.1125 ppm	3.3976 ppm	0.9488 ppm	1.0497 ppm	0.9724 ppm	0.1087 ppm	0.4988 ppm
Concentration per Run 3	0.1124 ppm	3.3912 ppm	0.9468 ppm	1.0543 ppm	0.9798 ppm	0.1098 ppm	0.5012 ppm
Concentration RSD	2.2 %	0.1 %	0.1 %	1.0 %	0.4 %	0.7 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4953 ppm	98.6768 %	97.2628 %	102.5601 %	102.4947 %	99.2484 %	99.8826 %
Concentration per Run 1	0.4961 ppm	99.5490 %	97.0867 %	102.3618 %	103.3054 %	99.0736 %	99.6673 %
Concentration per Run 2	0.4938 ppm	98.5219 %	97.6327 %	102.8516 %	102.8022 %	99.5240 %	100.2755 %
Concentration per Run 3	0.4961 ppm	97.9593 %	97.0689 %	102.4668 %	101.3765 %	99.1477 %	99.7050 %
Concentration RSD	0.3 %	0.8 %	0.3 %	0.3 %	1.0 %	0.2 %	0.3 %

LabBook: WG2039392_03122025T5.imexp

Sample: WG2039428-4 WG2039428
Analysis started at: 3/12/2025 6:46:21 PM
Comments <Comment>
Rack: 2
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0126 ppm	-0.0003 ppm	0.0178 ppm	0.0429 ppm	0.0000 ppm	33.2498 ppm
Concentration per Run 1	0.0004 ppm	0.0130 ppm	-0.0015 ppm	0.0178 ppm	0.0426 ppm	0.0000 ppm	33.0630 ppm
Concentration per Run 2	0.0004 ppm	0.0115 ppm	-0.0002 ppm	0.0179 ppm	0.0430 ppm	0.0000 ppm	33.2930 ppm
Concentration per Run 3	0.0000 ppm	0.0134 ppm	0.0008 ppm	0.0178 ppm	0.0431 ppm	0.0000 ppm	33.3935 ppm
Concentration RSD	76.2 %	7.8 %	357.9 %	0.2 %	0.6 %	394.3 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	0.0009 ppm	0.0003 ppm	0.0000 ppm	0.0444 ppm	2.9899 ppm	0.0003 ppm
Concentration per Run 1	-0.0001 ppm	0.0011 ppm	0.0002 ppm	0.0000 ppm	0.0425 ppm	2.9627 ppm	0.0002 ppm
Concentration per Run 2	-0.0001 ppm	0.0010 ppm	0.0005 ppm	0.0003 ppm	0.0428 ppm	3.0039 ppm	0.0009 ppm
Concentration per Run 3	-0.0001 ppm	0.0008 ppm	0.0001 ppm	-0.0003 ppm	0.0478 ppm	3.0032 ppm	-0.0003 ppm
Concentration RSD	9.2 %	15.0 %	78.3 %	10,774.6 %	6.6 %	0.8 %	209.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	6.5478 ppm	0.0586 ppm	0.0051 ppm	41.7966 ppm	0.0009 ppm	0.0010 ppm	0.0021 ppm
Concentration per Run 1	6.5103 ppm	0.0584 ppm	0.0058 ppm	41.6261 ppm	0.0008 ppm	0.0016 ppm	0.0023 ppm
Concentration per Run 2	6.5822 ppm	0.0586 ppm	0.0051 ppm	41.8027 ppm	0.0010 ppm	0.0008 ppm	0.0016 ppm
Concentration per Run 3	6.5510 ppm	0.0588 ppm	0.0044 ppm	41.9609 ppm	0.0010 ppm	0.0004 ppm	0.0024 ppm
Concentration RSD	0.6 %	0.3 %	14.4 %	0.4 %	11.6 %	63.8 %	22.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0006 ppm	2.5052 ppm	0.0028 ppm	0.1411 ppm	0.0008 ppm	0.0004 ppm	0.0003 ppm
Concentration per Run 1	0.0019 ppm	2.4969 ppm	0.0028 ppm	0.1403 ppm	0.0010 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 2	0.0015 ppm	2.5126 ppm	0.0026 ppm	0.1409 ppm	0.0007 ppm	0.0008 ppm	0.0004 ppm
Concentration per Run 3	-0.0016 ppm	2.5063 ppm	0.0029 ppm	0.1420 ppm	0.0007 ppm	0.0006 ppm	0.0002 ppm
Concentration RSD	316.8 %	0.3 %	5.1 %	0.6 %	22.9 %	106.9 %	37.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0027 ppm	99.5956 %	98.4389 %	102.8314 %	102.6830 %	100.2682 %	100.7050 %
Concentration per Run 1	0.0027 ppm	100.4748 %	98.7894 %	103.1078 %	102.7294 %	100.7426 %	101.1070 %
Concentration per Run 2	0.0028 ppm	99.2230 %	97.9300 %	102.7032 %	102.3364 %	99.8748 %	100.1376 %
Concentration per Run 3	0.0025 ppm	99.0890 %	98.5973 %	102.6831 %	102.9831 %	100.1871 %	100.8704 %
Concentration RSD	4.7 %	0.8 %	0.5 %	0.2 %	0.3 %	0.4 %	0.5 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: WG2039428-5 WG2039428
Analysis started at: 3/12/2025 6:52:41 PM
Comments <Comment>
Rack: 2
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0230 ppm	1.9919 ppm	0.1178 ppm	0.9267 ppm	1.9482 ppm	0.0492 ppm	42.0627 ppm
Concentration per Run 1	0.0225 ppm	1.9723 ppm	0.1175 ppm	0.9325 ppm	1.9318 ppm	0.0488 ppm	41.5819 ppm
Concentration per Run 2	0.0183 ppm	1.9873 ppm	0.1208 ppm	0.9258 ppm	1.9467 ppm	0.0493 ppm	41.9734 ppm
Concentration per Run 3	0.0283 ppm	2.0160 ppm	0.1152 ppm	0.9216 ppm	1.9661 ppm	0.0496 ppm	42.6329 ppm
Concentration RSD	21.8 %	1.1 %	2.4 %	0.6 %	0.9 %	0.9 %	1.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0515 ppm	0.4767 ppm	0.2019 ppm	0.2488 ppm	1.0624 ppm	13.2696 ppm	0.0003 ppm
Concentration per Run 1	0.0519 ppm	0.4800 ppm	0.2032 ppm	0.2501 ppm	1.0529 ppm	13.1209 ppm	0.0005 ppm
Concentration per Run 2	0.0514 ppm	0.4759 ppm	0.2011 ppm	0.2474 ppm	1.0607 ppm	13.2822 ppm	0.0004 ppm
Concentration per Run 3	0.0512 ppm	0.4740 ppm	0.2013 ppm	0.2489 ppm	1.0737 ppm	13.4056 ppm	0.0001 ppm
Concentration RSD	0.7 %	0.6 %	0.6 %	0.6 %	1.0 %	1.1 %	77.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	16.1562 ppm	0.5489 ppm	0.9186 ppm	50.3600 ppm	0.4695 ppm	0.5109 ppm	0.4482 ppm
Concentration per Run 1	16.2407 ppm	0.5428 ppm	0.9167 ppm	49.7717 ppm	0.4725 ppm	0.5150 ppm	0.4461 ppm
Concentration per Run 2	16.0657 ppm	0.5488 ppm	0.9178 ppm	50.3586 ppm	0.4689 ppm	0.5098 ppm	0.4471 ppm
Concentration per Run 3	16.1622 ppm	0.5550 ppm	0.9212 ppm	50.9497 ppm	0.4671 ppm	0.5079 ppm	0.4513 ppm
Concentration RSD	0.5 %	1.1 %	0.3 %	1.2 %	0.6 %	0.7 %	0.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1191 ppm	3.2604 ppm	0.9487 ppm	1.0887 ppm	0.9716 ppm	0.1153 ppm	0.4951 ppm
Concentration per Run 1	0.1206 ppm	3.2646 ppm	0.9535 ppm	1.0774 ppm	0.9770 ppm	0.1163 ppm	0.4971 ppm
Concentration per Run 2	0.1189 ppm	3.2564 ppm	0.9475 ppm	1.0906 ppm	0.9669 ppm	0.1141 ppm	0.4939 ppm
Concentration per Run 3	0.1178 ppm	3.2600 ppm	0.9451 ppm	1.0982 ppm	0.9710 ppm	0.1156 ppm	0.4944 ppm
Concentration RSD	1.2 %	0.1 %	0.5 %	1.0 %	0.5 %	1.0 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4890 ppm	100.0025 %	97.9958 %	102.5314 %	103.0758 %	99.5721 %	100.7262 %
Concentration per Run 1	0.4926 ppm	101.2477 %	97.6750 %	102.7408 %	104.0219 %	99.5935 %	100.3556 %
Concentration per Run 2	0.4886 ppm	100.2989 %	98.5851 %	102.5289 %	103.4928 %	99.6898 %	101.2999 %
Concentration per Run 3	0.4857 ppm	98.4609 %	97.7274 %	102.3244 %	101.7128 %	99.4329 %	100.5233 %
Concentration RSD	0.7 %	1.4 %	0.5 %	0.2 %	1.2 %	0.1 %	0.5 %

LabBook: WG2039392_03122025T5.imexp

Sample: WG2039428-6d5 WG2039428
Analysis started at: 3/12/2025 6:58:46 PM
Comments <Comment>
Rack: 2
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	0.0047 ppm	0.0001 ppm	0.0052 ppm	0.0105 ppm	0.0000 ppm	7.3257 ppm
Concentration per Run 1	0.0004 ppm	0.0093 ppm	0.0010 ppm	0.0055 ppm	0.0108 ppm	0.0000 ppm	7.4145 ppm
Concentration per Run 2	0.0005 ppm	0.0061 ppm	0.0002 ppm	0.0049 ppm	0.0106 ppm	0.0000 ppm	7.3569 ppm
Concentration per Run 3	0.0002 ppm	-0.0015 ppm	-0.0010 ppm	0.0051 ppm	0.0100 ppm	-0.0001 ppm	7.2057 ppm
Concentration RSD	36.1 %	118.7 %	1,306.2 %	5.9 %	3.8 %	151.8 %	1.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0001 ppm	-0.0005 ppm	0.0108 ppm	0.6302 ppm	0.0015 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0002 ppm	-0.0003 ppm	0.0113 ppm	0.6426 ppm	0.0005 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	0.0004 ppm	-0.0006 ppm	0.0105 ppm	0.6336 ppm	0.0026 ppm
Concentration per Run 3	-0.0001 ppm	0.0003 ppm	-0.0001 ppm	-0.0004 ppm	0.0106 ppm	0.6145 ppm	0.0013 ppm
Concentration RSD	283.7 %	19.9 %	183.6 %	36.7 %	4.1 %	2.3 %	74.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	1.3505 ppm	0.0134 ppm	0.0052 ppm	9.0511 ppm	0.0002 ppm	0.0004 ppm	0.0083 ppm
Concentration per Run 1	1.3535 ppm	0.0136 ppm	0.0061 ppm	9.1530 ppm	0.0001 ppm	0.0008 ppm	0.0101 ppm
Concentration per Run 2	1.3528 ppm	0.0135 ppm	0.0051 ppm	9.0769 ppm	0.0002 ppm	-0.0002 ppm	0.0076 ppm
Concentration per Run 3	1.3451 ppm	0.0130 ppm	0.0044 ppm	8.9235 ppm	0.0004 ppm	0.0006 ppm	0.0073 ppm
Concentration RSD	0.3 %	2.1 %	16.7 %	1.3 %	64.9 %	145.3 %	18.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0020 ppm	0.4783 ppm	0.0027 ppm	0.0318 ppm	0.0008 ppm	0.0011 ppm	0.0001 ppm
Concentration per Run 1	0.0022 ppm	0.4807 ppm	0.0024 ppm	0.0325 ppm	0.0007 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 2	0.0010 ppm	0.4771 ppm	0.0030 ppm	0.0318 ppm	0.0008 ppm	0.0010 ppm	0.0001 ppm
Concentration per Run 3	0.0026 ppm	0.4772 ppm	0.0027 ppm	0.0312 ppm	0.0009 ppm	0.0019 ppm	0.0003 ppm
Concentration RSD	42.1 %	0.4 %	9.4 %	2.0 %	8.8 %	75.5 %	138.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0006 ppm	95.1298 %	100.6137 %	105.5295 %	97.4130 %	105.2287 %	102.5680 %
Concentration per Run 1	0.0007 ppm	94.4924 %	100.7375 %	105.4972 %	96.5961 %	105.1257 %	102.6100 %
Concentration per Run 2	0.0005 ppm	94.5550 %	100.3152 %	105.5261 %	96.9669 %	105.1911 %	102.2878 %
Concentration per Run 3	0.0005 ppm	96.3420 %	100.7885 %	105.5652 %	98.6759 %	105.3693 %	102.8063 %
Concentration RSD	14.3 %	1.1 %	0.3 %	0.0 %	1.1 %	0.1 %	0.3 %

LabBook: WG2039392_03122025T5.imexp

Sample: L2512189-02 WG2039428
Analysis started at: 3/12/2025 7:05:06 PM
Comments <Comment>
Rack: 2
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0006 ppm	0.9783 ppm	0.0005 ppm	0.0614 ppm	0.0477 ppm	0.0000 ppm	53.7710 ppm
Concentration per Run 1	0.0004 ppm	0.9702 ppm	0.0016 ppm	0.0616 ppm	0.0470 ppm	0.0000 ppm	52.9698 ppm
Concentration per Run 2	0.0004 ppm	0.9792 ppm	0.0012 ppm	0.0612 ppm	0.0478 ppm	0.0000 ppm	54.0325 ppm
Concentration per Run 3	0.0009 ppm	0.9856 ppm	-0.0012 ppm	0.0615 ppm	0.0484 ppm	0.0000 ppm	54.3106 ppm
Concentration RSD	46.0 %	0.8 %	297.7 %	0.4 %	1.4 %	342.1 %	1.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0003 ppm	0.0008 ppm	0.0024 ppm	0.0018 ppm	3.9505 ppm	3.7467 ppm	0.0006 ppm
Concentration per Run 1	-0.0003 ppm	0.0008 ppm	0.0023 ppm	0.0019 ppm	3.8961 ppm	3.6771 ppm	0.0000 ppm
Concentration per Run 2	-0.0003 ppm	0.0008 ppm	0.0023 ppm	0.0020 ppm	3.9649 ppm	3.7606 ppm	0.0009 ppm
Concentration per Run 3	-0.0003 ppm	0.0008 ppm	0.0025 ppm	0.0015 ppm	3.9903 ppm	3.8023 ppm	0.0010 ppm
Concentration RSD	7.5 %	3.7 %	4.3 %	13.4 %	1.2 %	1.7 %	83.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	15.6640 ppm	0.0835 ppm	0.0013 ppm	62.3326 ppm	0.0011 ppm	0.0077 ppm	0.0013 ppm
Concentration per Run 1	15.6343 ppm	0.0819 ppm	0.0013 ppm	61.3718 ppm	0.0009 ppm	0.0082 ppm	0.0016 ppm
Concentration per Run 2	15.6533 ppm	0.0843 ppm	0.0012 ppm	62.6312 ppm	0.0011 ppm	0.0076 ppm	0.0014 ppm
Concentration per Run 3	15.7044 ppm	0.0843 ppm	0.0013 ppm	62.9948 ppm	0.0012 ppm	0.0074 ppm	0.0008 ppm
Concentration RSD	0.2 %	1.7 %	6.6 %	1.4 %	14.3 %	5.3 %	34.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0015 ppm	5.7708 ppm	0.0010 ppm	0.2629 ppm	0.0203 ppm	0.0009 ppm	0.0022 ppm
Concentration per Run 1	-0.0017 ppm	5.7666 ppm	0.0018 ppm	0.2584 ppm	0.0201 ppm	0.0028 ppm	0.0022 ppm
Concentration per Run 2	-0.0031 ppm	5.7626 ppm	0.0010 ppm	0.2645 ppm	0.0205 ppm	-0.0001 ppm	0.0023 ppm
Concentration per Run 3	0.0003 ppm	5.7832 ppm	0.0002 ppm	0.2658 ppm	0.0203 ppm	0.0001 ppm	0.0022 ppm
Concentration RSD	113.0 %	0.2 %	83.1 %	1.5 %	0.9 %	178.4 %	2.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0022 ppm	101.3932 %	97.7739 %	102.5516 %	104.2723 %	98.6783 %	100.3896 %
Concentration per Run 1	0.0022 ppm	102.7714 %	98.0910 %	102.7185 %	105.5990 %	98.6360 %	100.6282 %
Concentration per Run 2	0.0022 ppm	101.3970 %	98.1536 %	102.5322 %	104.2391 %	98.9515 %	100.6264 %
Concentration per Run 3	0.0022 ppm	100.0113 %	97.0772 %	102.4042 %	102.9788 %	98.4474 %	99.9140 %
Concentration RSD	2.4 %	1.4 %	0.6 %	0.2 %	1.3 %	0.3 %	0.4 %

LabBook: WG2039392_03122025T5.imexp

Sample: L2512189-03 WG2039428
Analysis started at: 3/12/2025 7:11:25 PM
Comments <Comment>
Rack: 2
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0075 ppm	-0.0010 ppm	0.1696 ppm	0.0739 ppm	0.0000 ppm	21.0276 ppm
Concentration per Run 1	0.0006 ppm	0.0047 ppm	0.0000 ppm	0.1696 ppm	0.0739 ppm	0.0000 ppm	20.9828 ppm
Concentration per Run 2	0.0001 ppm	0.0130 ppm	-0.0010 ppm	0.1697 ppm	0.0750 ppm	0.0000 ppm	21.3720 ppm
Concentration per Run 3	0.0002 ppm	0.0048 ppm	-0.0021 ppm	0.1694 ppm	0.0729 ppm	0.0000 ppm	20.7279 ppm
Concentration RSD	94.6 %	63.5 %	104.2 %	0.1 %	1.4 %	211.9 %	1.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0003 ppm	0.0055 ppm	0.0002 ppm	0.0000 ppm	12.9374 ppm	2.9583 ppm	0.0006 ppm
Concentration per Run 1	-0.0003 ppm	0.0053 ppm	0.0003 ppm	-0.0002 ppm	12.9115 ppm	2.9624 ppm	0.0001 ppm
Concentration per Run 2	-0.0003 ppm	0.0057 ppm	0.0002 ppm	0.0002 ppm	13.1269 ppm	2.9946 ppm	0.0004 ppm
Concentration per Run 3	-0.0003 ppm	0.0055 ppm	0.0002 ppm	0.0001 ppm	12.7738 ppm	2.9179 ppm	0.0013 ppm
Concentration RSD	4.3 %	3.5 %	23.1 %	1,833.8 %	1.4 %	1.3 %	101.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	7.5029 ppm	0.3748 ppm	0.0004 ppm	77.5758 ppm	0.0026 ppm	0.0007 ppm	0.0003 ppm
Concentration per Run 1	7.4790 ppm	0.3749 ppm	0.0002 ppm	77.6309 ppm	0.0024 ppm	0.0004 ppm	0.0008 ppm
Concentration per Run 2	7.5262 ppm	0.3795 ppm	0.0005 ppm	78.6301 ppm	0.0024 ppm	0.0009 ppm	0.0014 ppm
Concentration per Run 3	7.5033 ppm	0.3698 ppm	0.0004 ppm	76.4664 ppm	0.0030 ppm	0.0009 ppm	-0.0014 ppm
Concentration RSD	0.3 %	1.3 %	48.4 %	1.4 %	12.7 %	40.0 %	579.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0007 ppm	3.6195 ppm	0.0013 ppm	0.0834 ppm	0.0001 ppm	0.0008 ppm	0.0003 ppm
Concentration per Run 1	0.0003 ppm	3.6220 ppm	0.0011 ppm	0.0835 ppm	0.0000 ppm	0.0014 ppm	0.0005 ppm
Concentration per Run 2	-0.0032 ppm	3.6124 ppm	0.0014 ppm	0.0844 ppm	-0.0002 ppm	-0.0009 ppm	0.0004 ppm
Concentration per Run 3	0.0007 ppm	3.6241 ppm	0.0014 ppm	0.0822 ppm	0.0005 ppm	0.0018 ppm	0.0001 ppm
Concentration RSD	310.2 %	0.2 %	12.3 %	1.3 %	369.3 %	197.0 %	64.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0029 ppm	95.3557 %	98.6876 %	103.3036 %	98.6261 %	99.8675 %	101.4600 %
Concentration per Run 1	0.0028 ppm	95.5839 %	98.5823 %	103.2027 %	98.9174 %	99.6933 %	101.4700 %
Concentration per Run 2	0.0029 ppm	93.9001 %	98.6281 %	103.4113 %	96.9040 %	99.9577 %	101.3061 %
Concentration per Run 3	0.0028 ppm	96.5832 %	98.8524 %	103.2969 %	100.0571 %	99.9515 %	101.6038 %
Concentration RSD	2.6 %	1.4 %	0.1 %	0.1 %	1.6 %	0.2 %	0.1 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: CCV
Analysis started at: 3/12/2025 7:17:41 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4747 ppm	0.4947 ppm	0.4682 ppm	0.4610 ppm	0.4758 ppm	0.4848 ppm	0.5095 ppm
Concentration per Run 1	0.4750 ppm	0.4932 ppm	0.4686 ppm	0.4616 ppm	0.4752 ppm	0.4838 ppm	0.5088 ppm
Concentration per Run 2	0.4747 ppm	0.4994 ppm	0.4677 ppm	0.4611 ppm	0.4792 ppm	0.4879 ppm	0.5096 ppm
Concentration per Run 3	0.4744 ppm	0.4916 ppm	0.4685 ppm	0.4605 ppm	0.4731 ppm	0.4828 ppm	0.5101 ppm
Recovery Percentage 1	94.939 %	98.947 %	93.647 %	92.209 %	95.162 %	96.966 %	101.895 %
Concentration RSD	0.1 %	0.8 %	0.1 %	0.1 %	0.6 %	0.6 %	0.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4872 ppm	0.4933 ppm	0.5113 ppm	0.4939 ppm	0.5229 ppm	4.9733 ppm	0.4739 ppm
Concentration per Run 1	0.4879 ppm	0.4944 ppm	0.5111 ppm	0.4935 ppm	0.5215 ppm	4.9838 ppm	0.4733 ppm
Concentration per Run 2	0.4864 ppm	0.4925 ppm	0.5112 ppm	0.4951 ppm	0.5246 ppm	4.9939 ppm	0.4760 ppm
Concentration per Run 3	0.4872 ppm	0.4931 ppm	0.5118 ppm	0.4932 ppm	0.5226 ppm	4.9420 ppm	0.4726 ppm
Recovery Percentage 1	97.436 %	98.666 %	102.269 %	98.783 %	104.580 %	99.465 %	94.788 %
Concentration RSD	0.2 %	0.2 %	0.1 %	0.2 %	0.3 %	0.6 %	0.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5070 ppm	0.4880 ppm	0.4714 ppm	9.7005 ppm	0.4844 ppm	0.4877 ppm	0.4798 ppm
Concentration per Run 1	0.5011 ppm	0.4865 ppm	0.4708 ppm	9.7214 ppm	0.4851 ppm	0.4897 ppm	0.4805 ppm
Concentration per Run 2	0.5111 ppm	0.4909 ppm	0.4707 ppm	9.7348 ppm	0.4835 ppm	0.4867 ppm	0.4808 ppm
Concentration per Run 3	0.5089 ppm	0.4865 ppm	0.4728 ppm	9.6454 ppm	0.4846 ppm	0.4868 ppm	0.4781 ppm
Recovery Percentage 1	101.407 %	97.596 %	94.285 %	97.005 %	96.877 %	97.549 %	95.954 %
Concentration RSD	1.0 %	0.5 %	0.2 %	0.5 %	0.2 %	0.3 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4806 ppm	5.3273 ppm	0.4733 ppm	0.4785 ppm	0.4913 ppm	0.4926 ppm	0.4925 ppm
Concentration per Run 1	0.4789 ppm	5.3339 ppm	0.4756 ppm	0.4790 ppm	0.4909 ppm	0.4947 ppm	0.4922 ppm
Concentration per Run 2	0.4831 ppm	5.3154 ppm	0.4716 ppm	0.4805 ppm	0.4920 ppm	0.4915 ppm	0.4932 ppm
Concentration per Run 3	0.4797 ppm	5.3325 ppm	0.4726 ppm	0.4760 ppm	0.4911 ppm	0.4916 ppm	0.4922 ppm
Recovery Percentage 1	96.114 %	101.472 %	94.656 %	95.697 %	98.264 %	98.518 %	98.504 %
Concentration RSD	0.5 %	0.2 %	0.4 %	0.5 %	0.1 %	0.4 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4908 ppm	96.0819 %	100.2619 %	105.1822 %	98.7807 %	103.7609 %	102.5339 %
Concentration per Run 1	0.4912 ppm	95.9173 %	100.2175 %	104.9068 %	98.9464 %	103.5854 %	102.4815 %
Concentration per Run 2	0.4905 ppm	96.3432 %	100.1565 %	105.4230 %	98.7929 %	103.9438 %	102.4160 %
Concentration per Run 3	0.4908 ppm	95.9851 %	100.4117 %	105.2167 %	98.6028 %	103.7536 %	102.7042 %
Recovery Percentage 1	98.164 %						
Concentration RSD	0.1 %	0.2 %	0.1 %	0.2 %	0.2 %	0.2 %	0.1 %

LabBook: WG2039392_03122025T5.imexp

Sample: CCB
Analysis started at: 3/12/2025 7:23:49 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	0.0003 ppm	0.0004 ppm	0.0016 ppm	0.0002 ppm	0.0000 ppm	0.0101 ppm
Concentration per Run 1	0.0002 ppm	-0.0039 ppm	0.0011 ppm	0.0017 ppm	0.0003 ppm	0.0000 ppm	0.0090 ppm
Concentration per Run 2	0.0009 ppm	0.0014 ppm	-0.0009 ppm	0.0014 ppm	0.0000 ppm	-0.0001 ppm	0.0131 ppm
Concentration per Run 3	0.0001 ppm	0.0033 ppm	0.0008 ppm	0.0016 ppm	0.0002 ppm	0.0000 ppm	0.0083 ppm
Recovery Percentage 1	5.495 %	0.272 %	7.429 %	5.203 %	1.833 %	-0.467 %	10.100 %
Concentration RSD	108.4 %	1,382.6 %	293.6 %	10.6 %	69.2 %	132.3 %	25.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0004 ppm	0.0017 ppm	-0.0118 ppm	0.0008 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0004 ppm	0.0008 ppm	-0.0122 ppm	0.0015 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0000 ppm	-0.0004 ppm	0.0024 ppm	0.0058 ppm	0.0006 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0001 ppm	-0.0004 ppm	0.0019 ppm	-0.0292 ppm	0.0004 ppm
Recovery Percentage 1	0.471 %	0.565 %	0.517 %	-4.145 %	3.471 %	-0.474 %	8.323 %
Concentration RSD	169.7 %	51.4 %	77.1 %	1.9 %	46.7 %	148.0 %	69.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0004 ppm	0.0000 ppm	0.0016 ppm	0.0196 ppm	0.0003 ppm	0.0004 ppm	0.0004 ppm
Concentration per Run 1	0.0020 ppm	0.0002 ppm	0.0018 ppm	0.0220 ppm	0.0005 ppm	-0.0001 ppm	0.0007 ppm
Concentration per Run 2	-0.0007 ppm	-0.0001 ppm	0.0016 ppm	0.0183 ppm	0.0002 ppm	0.0005 ppm	0.0007 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0014 ppm	0.0186 ppm	0.0002 ppm	0.0009 ppm	-0.0003 ppm
Recovery Percentage 1	0.418 %	0.369 %	3.189 %	0.982 %	1.212 %	4.350 %	0.785 %
Concentration RSD	331.3 %	365.0 %	14.1 %	10.4 %	47.3 %	121.2 %	149.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0003 ppm	-0.0003 ppm	0.0006 ppm	0.0000 ppm	0.0002 ppm	0.0011 ppm	0.0000 ppm
Concentration per Run 1	0.0003 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0002 ppm	0.0001 ppm
Concentration per Run 2	-0.0016 ppm	-0.0004 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	0.0020 ppm	-0.0001 ppm
Concentration per Run 3	0.0022 ppm	-0.0006 ppm	0.0009 ppm	-0.0001 ppm	0.0002 ppm	0.0010 ppm	0.0001 ppm
Recovery Percentage 1	2.929 %	-0.068 %	1.137 %	-0.265 %	2.009 %	5.407 %	0.344 %
Concentration RSD	644.9 %	87.7 %	78.6 %	304.3 %	112.5 %	79.3 %	441.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0008 ppm	100.9458 %	101.6690 %	105.6732 %	102.8073 %	104.5570 %	102.1129 %
Concentration per Run 1	0.0008 ppm	103.1567 %	101.4012 %	105.7038 %	104.4266 %	104.5751 %	101.9075 %
Concentration per Run 2	0.0008 ppm	100.5647 %	101.9170 %	105.4023 %	102.6142 %	104.4502 %	102.4349 %
Concentration per Run 3	0.0008 ppm	99.1160 %	101.6888 %	105.9134 %	101.3811 %	104.6456 %	101.9964 %
Recovery Percentage 1	16.287 %						
Concentration RSD	4.7 %	2.0 %	0.3 %	0.2 %	1.5 %	0.1 %	0.3 %

LabBook: WG2039392_03122025T5.imexp

Sample: WG2039054-1 WG2039054
Analysis started at: 3/12/2025 7:37:31 PM
Comments <Comment>
Rack: 2
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	-0.0007 ppm	-0.0024 ppm	0.0008 ppm	0.0001 ppm	-0.0001 ppm	0.0122 ppm
Concentration per Run 1	-0.0002 ppm	-0.0026 ppm	-0.0020 ppm	0.0007 ppm	0.0002 ppm	-0.0001 ppm	0.0082 ppm
Concentration per Run 2	0.0005 ppm	0.0004 ppm	-0.0037 ppm	0.0008 ppm	0.0000 ppm	-0.0001 ppm	0.0148 ppm
Concentration per Run 3	0.0003 ppm	0.0002 ppm	-0.0014 ppm	0.0008 ppm	0.0001 ppm	0.0000 ppm	0.0135 ppm
Concentration RSD	170.4 %	247.9 %	51.3 %	4.5 %	112.4 %	29.2 %	28.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0002 ppm	0.0013 ppm	-0.0267 ppm	0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0002 ppm	0.0008 ppm	-0.0277 ppm	-0.0005 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0000 ppm	-0.0002 ppm	0.0020 ppm	-0.0540 ppm	0.0011 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0003 ppm	-0.0002 ppm	0.0011 ppm	0.0017 ppm	0.0000 ppm
Concentration RSD	105.8 %	400.1 %	118.0 %	14.5 %	47.6 %	104.7 %	406.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0002 ppm	0.0034 ppm	0.0002 ppm	-0.0168 ppm	0.0001 ppm	0.0007 ppm	-0.0001 ppm
Concentration per Run 1	0.0002 ppm	0.0037 ppm	0.0002 ppm	-0.0140 ppm	0.0000 ppm	0.0012 ppm	-0.0010 ppm
Concentration per Run 2	-0.0005 ppm	0.0031 ppm	0.0002 ppm	-0.0249 ppm	0.0001 ppm	0.0002 ppm	0.0005 ppm
Concentration per Run 3	0.0008 ppm	0.0033 ppm	0.0001 ppm	-0.0115 ppm	0.0001 ppm	0.0007 ppm	0.0002 ppm
Concentration RSD	394.7 %	9.3 %	29.4 %	42.5 %	87.4 %	73.8 %	558.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0006 ppm	0.0035 ppm	0.0003 ppm	0.0001 ppm	0.0001 ppm	0.0006 ppm	-0.0001 ppm
Concentration per Run 1	-0.0016 ppm	0.0027 ppm	0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0019 ppm	-0.0001 ppm
Concentration per Run 2	0.0008 ppm	0.0043 ppm	0.0008 ppm	0.0003 ppm	0.0002 ppm	0.0003 ppm	-0.0002 ppm
Concentration per Run 3	-0.0012 ppm	0.0037 ppm	-0.0001 ppm	0.0001 ppm	-0.0002 ppm	-0.0003 ppm	-0.0001 ppm
Concentration RSD	201.7 %	22.5 %	159.2 %	151.1 %	286.8 %	179.0 %	61.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0003 ppm	96.0884 %	103.9023 %	106.9711 %	95.5117 %	106.8244 %	103.8845 %
Concentration per Run 1	0.0003 ppm	94.8333 %	103.7647 %	106.7550 %	93.6512 %	106.7746 %	103.6161 %
Concentration per Run 2	0.0003 ppm	95.6592 %	104.0238 %	107.2570 %	95.2795 %	106.9190 %	103.9624 %
Concentration per Run 3	0.0004 ppm	97.7727 %	103.9185 %	106.9013 %	97.6043 %	106.7794 %	104.0751 %
Concentration RSD	14.2 %	1.6 %	0.1 %	0.2 %	2.1 %	0.1 %	0.2 %

LabBook: WG2039392_03122025T5.imexp

Sample: WG2039054-2 WG2039054
Analysis started at: 3/12/2025 7:43:57 PM
Comments <Comment>
Rack: 2
Vial: 9

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0496 ppm	1.9295 ppm	0.1089 ppm	0.9041 ppm	1.8636 ppm	0.0477 ppm	9.6539 ppm
Concentration per Run 1	0.0494 ppm	1.9229 ppm	0.1089 ppm	0.9031 ppm	1.8583 ppm	0.0475 ppm	9.6050 ppm
Concentration per Run 2	0.0501 ppm	1.9352 ppm	0.1089 ppm	0.9049 ppm	1.8648 ppm	0.0478 ppm	9.6921 ppm
Concentration per Run 3	0.0495 ppm	1.9305 ppm	0.1089 ppm	0.9043 ppm	1.8676 ppm	0.0479 ppm	9.6645 ppm
Concentration RSD	0.7 %	0.3 %	0.0 %	0.1 %	0.3 %	0.4 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0525 ppm	0.4877 ppm	0.2071 ppm	0.2552 ppm	0.9976 ppm	9.6046 ppm	-0.0007 ppm
Concentration per Run 1	0.0524 ppm	0.4877 ppm	0.2067 ppm	0.2544 ppm	0.9928 ppm	9.5723 ppm	-0.0001 ppm
Concentration per Run 2	0.0525 ppm	0.4882 ppm	0.2069 ppm	0.2553 ppm	1.0007 ppm	9.5802 ppm	-0.0003 ppm
Concentration per Run 3	0.0525 ppm	0.4873 ppm	0.2077 ppm	0.2560 ppm	0.9992 ppm	9.6613 ppm	-0.0017 ppm
Concentration RSD	0.0 %	0.1 %	0.3 %	0.3 %	0.4 %	0.5 %	122.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.0685 ppm	0.4812 ppm	0.9050 ppm	9.5480 ppm	0.4866 ppm	0.5154 ppm	0.4586 ppm
Concentration per Run 1	10.0746 ppm	0.4798 ppm	0.8962 ppm	9.5508 ppm	0.4875 ppm	0.5163 ppm	0.4540 ppm
Concentration per Run 2	10.0664 ppm	0.4823 ppm	0.9069 ppm	9.5384 ppm	0.4856 ppm	0.5143 ppm	0.4596 ppm
Concentration per Run 3	10.0645 ppm	0.4815 ppm	0.9118 ppm	9.5547 ppm	0.4866 ppm	0.5157 ppm	0.4622 ppm
Concentration RSD	0.1 %	0.3 %	0.9 %	0.1 %	0.2 %	0.2 %	0.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1084 ppm	1.0738 ppm	0.9562 ppm	0.9101 ppm	0.9764 ppm	0.1102 ppm	0.5059 ppm
Concentration per Run 1	0.1070 ppm	1.0738 ppm	0.9573 ppm	0.9094 ppm	0.9744 ppm	0.1113 ppm	0.5052 ppm
Concentration per Run 2	0.1081 ppm	1.0728 ppm	0.9537 ppm	0.9089 ppm	0.9771 ppm	0.1108 ppm	0.5056 ppm
Concentration per Run 3	0.1100 ppm	1.0748 ppm	0.9576 ppm	0.9120 ppm	0.9776 ppm	0.1083 ppm	0.5068 ppm
Concentration RSD	1.4 %	0.1 %	0.2 %	0.2 %	0.2 %	1.4 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4981 ppm	101.3284 %	101.6177 %	104.5811 %	103.5696 %	103.9645 %	103.3071 %
Concentration per Run 1	0.4982 ppm	101.6112 %	101.2856 %	104.6057 %	103.9396 %	103.9590 %	103.1698 %
Concentration per Run 2	0.4981 ppm	100.7252 %	102.0001 %	104.7664 %	102.8584 %	104.0345 %	103.5500 %
Concentration per Run 3	0.4981 ppm	101.6489 %	101.5675 %	104.3712 %	103.9108 %	103.8999 %	103.2014 %
Concentration RSD	0.0 %	0.5 %	0.4 %	0.2 %	0.6 %	0.1 %	0.2 %

LabBook: WG2039392_03122025T5.imexp

Sample: L2512368-10 WG2039054
Analysis started at: 3/12/2025 7:50:04 PM
Comments <Comment>
Rack: 2
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0010 ppm	-0.0003 ppm	0.0172 ppm	0.0304 ppm	-0.0001 ppm	13.1034 ppm
Concentration per Run 1	0.0003 ppm	0.0002 ppm	-0.0002 ppm	0.0172 ppm	0.0307 ppm	-0.0001 ppm	13.1811 ppm
Concentration per Run 2	0.0001 ppm	-0.0036 ppm	-0.0006 ppm	0.0172 ppm	0.0305 ppm	0.0000 ppm	13.1002 ppm
Concentration per Run 3	-0.0003 ppm	0.0062 ppm	-0.0002 ppm	0.0173 ppm	0.0301 ppm	-0.0001 ppm	13.0288 ppm
Concentration RSD	558.1 %	519.0 %	72.0 %	0.3 %	1.0 %	35.6 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0011 ppm	0.0004 ppm	0.0055 ppm	2.0162 ppm	0.0005 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0010 ppm	0.0007 ppm	0.0052 ppm	2.0221 ppm	0.0003 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0008 ppm	0.0001 ppm	0.0057 ppm	1.9973 ppm	0.0004 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0015 ppm	0.0003 ppm	0.0055 ppm	2.0291 ppm	0.0007 ppm
Concentration RSD	185.0 %	39.8 %	34.4 %	74.8 %	4.6 %	0.8 %	34.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	2.6714 ppm	0.0006 ppm	0.0046 ppm	11.1351 ppm	0.0002 ppm	0.0009 ppm	0.0024 ppm
Concentration per Run 1	2.6757 ppm	0.0008 ppm	0.0052 ppm	11.1849 ppm	0.0003 ppm	0.0012 ppm	0.0040 ppm
Concentration per Run 2	2.6678 ppm	0.0002 ppm	0.0044 ppm	11.1167 ppm	0.0004 ppm	0.0012 ppm	0.0021 ppm
Concentration per Run 3	2.6706 ppm	0.0008 ppm	0.0042 ppm	11.1037 ppm	0.0000 ppm	0.0004 ppm	0.0011 ppm
Concentration RSD	0.2 %	54.5 %	11.6 %	0.4 %	78.7 %	53.1 %	60.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0004 ppm	4.2638 ppm	0.0014 ppm	0.0558 ppm	0.0009 ppm	0.0002 ppm	0.0002 ppm
Concentration per Run 1	-0.0022 ppm	4.2643 ppm	0.0011 ppm	0.0560 ppm	0.0010 ppm	0.0018 ppm	0.0003 ppm
Concentration per Run 2	0.0014 ppm	4.2694 ppm	0.0014 ppm	0.0556 ppm	0.0012 ppm	-0.0009 ppm	0.0002 ppm
Concentration per Run 3	-0.0006 ppm	4.2577 ppm	0.0016 ppm	0.0557 ppm	0.0004 ppm	-0.0003 ppm	0.0001 ppm
Concentration RSD	403.0 %	0.1 %	17.2 %	0.4 %	45.2 %	649.8 %	58.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0173 ppm	102.1361 %	102.3974 %	105.3046 %	103.0445 %	104.9823 %	103.5286 %
Concentration per Run 1	0.0172 ppm	101.9675 %	102.0597 %	105.3740 %	102.1834 %	105.1459 %	103.1646 %
Concentration per Run 2	0.0174 ppm	101.7155 %	102.2839 %	105.2050 %	102.9303 %	104.7303 %	103.5734 %
Concentration per Run 3	0.0174 ppm	102.7252 %	102.8487 %	105.3349 %	104.0199 %	105.0708 %	103.8479 %
Concentration RSD	0.5 %	0.5 %	0.4 %	0.1 %	0.9 %	0.2 %	0.3 %

LabBook: WG2039392_03122025T5.imexp

Sample: WG2039054-3 WG2039054
Analysis started at: 3/12/2025 7:56:25 PM
Comments <Comment>
Rack: 2
Vial: 11

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0491 ppm	1.8737 ppm	0.1109 ppm	0.9344 ppm	1.8376 ppm	0.0466 ppm	21.8510 ppm
Concentration per Run 1	0.0493 ppm	1.8225 ppm	0.1109 ppm	0.9332 ppm	1.7895 ppm	0.0453 ppm	21.2845 ppm
Concentration per Run 2	0.0493 ppm	1.8834 ppm	0.1099 ppm	0.9335 ppm	1.8456 ppm	0.0469 ppm	21.9272 ppm
Concentration per Run 3	0.0486 ppm	1.9153 ppm	0.1119 ppm	0.9365 ppm	1.8775 ppm	0.0475 ppm	22.3414 ppm
Concentration RSD	0.9 %	2.5 %	0.9 %	0.2 %	2.4 %	2.4 %	2.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0523 ppm	0.4837 ppm	0.2066 ppm	0.2547 ppm	0.9683 ppm	11.3962 ppm	-0.0009 ppm
Concentration per Run 1	0.0523 ppm	0.4841 ppm	0.2080 ppm	0.2552 ppm	0.9418 ppm	11.0646 ppm	-0.0003 ppm
Concentration per Run 2	0.0523 ppm	0.4837 ppm	0.2065 ppm	0.2545 ppm	0.9715 ppm	11.4841 ppm	-0.0004 ppm
Concentration per Run 3	0.0522 ppm	0.4833 ppm	0.2054 ppm	0.2543 ppm	0.9917 ppm	11.6399 ppm	-0.0020 ppm
Concentration RSD	0.1 %	0.1 %	0.6 %	0.2 %	2.6 %	2.6 %	104.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	12.6532 ppm	0.4667 ppm	0.8949 ppm	20.0684 ppm	0.4818 ppm	0.5120 ppm	0.4656 ppm
Concentration per Run 1	12.7305 ppm	0.4540 ppm	0.8853 ppm	19.5196 ppm	0.4824 ppm	0.5115 ppm	0.4609 ppm
Concentration per Run 2	12.6165 ppm	0.4689 ppm	0.8941 ppm	20.1583 ppm	0.4817 ppm	0.5126 ppm	0.4664 ppm
Concentration per Run 3	12.6125 ppm	0.4774 ppm	0.9054 ppm	20.5272 ppm	0.4811 ppm	0.5119 ppm	0.4694 ppm
Concentration RSD	0.5 %	2.5 %	1.1 %	2.5 %	0.1 %	0.1 %	0.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1108 ppm	5.4057 ppm	0.9568 ppm	0.9355 ppm	0.9772 ppm	0.1103 ppm	0.5049 ppm
Concentration per Run 1	0.1107 ppm	5.4016 ppm	0.9555 ppm	0.9094 ppm	0.9805 ppm	0.1101 ppm	0.5073 ppm
Concentration per Run 2	0.1093 ppm	5.4091 ppm	0.9577 ppm	0.9400 ppm	0.9759 ppm	0.1115 ppm	0.5045 ppm
Concentration per Run 3	0.1122 ppm	5.4065 ppm	0.9571 ppm	0.9572 ppm	0.9752 ppm	0.1095 ppm	0.5028 ppm
Concentration RSD	1.3 %	0.1 %	0.1 %	2.6 %	0.3 %	0.9 %	0.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5122 ppm	103.6311 %	100.7103 %	104.2578 %	105.2707 %	102.9450 %	102.2856 %
Concentration per Run 1	0.5126 ppm	107.2098 %	100.2154 %	104.2848 %	107.7031 %	102.8258 %	101.6231 %
Concentration per Run 2	0.5120 ppm	102.8270 %	101.0582 %	103.9203 %	104.8740 %	102.9129 %	102.5925 %
Concentration per Run 3	0.5121 ppm	100.8566 %	100.8575 %	104.5681 %	103.2349 %	103.0963 %	102.6413 %
Concentration RSD	0.1 %	3.1 %	0.4 %	0.3 %	2.1 %	0.1 %	0.6 %

LabBook: WG2039392_03122025T5.imexp

Sample: WG2039054-4 WG2039054
Analysis started at: 3/12/2025 8:02:31 PM
Comments <Comment>
Rack: 2
Vial: 12

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0499 ppm	1.9590 ppm	0.1124 ppm	0.9440 ppm	1.9179 ppm	0.0487 ppm	23.0248 ppm
Concentration per Run 1	0.0501 ppm	1.9570 ppm	0.1131 ppm	0.9437 ppm	1.9213 ppm	0.0487 ppm	23.0763 ppm
Concentration per Run 2	0.0501 ppm	1.9564 ppm	0.1117 ppm	0.9450 ppm	1.9131 ppm	0.0486 ppm	22.9749 ppm
Concentration per Run 3	0.0496 ppm	1.9636 ppm	0.1123 ppm	0.9434 ppm	1.9193 ppm	0.0487 ppm	23.0231 ppm
Concentration RSD	0.6 %	0.2 %	0.6 %	0.1 %	0.2 %	0.2 %	0.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0528 ppm	0.4884 ppm	0.2090 ppm	0.2565 ppm	1.0117 ppm	11.9391 ppm	0.0001 ppm
Concentration per Run 1	0.0529 ppm	0.4883 ppm	0.2098 ppm	0.2572 ppm	1.0125 ppm	11.9557 ppm	0.0008 ppm
Concentration per Run 2	0.0527 ppm	0.4892 ppm	0.2089 ppm	0.2569 ppm	1.0103 ppm	11.9094 ppm	-0.0002 ppm
Concentration per Run 3	0.0528 ppm	0.4877 ppm	0.2083 ppm	0.2554 ppm	1.0122 ppm	11.9521 ppm	-0.0004 ppm
Concentration RSD	0.2 %	0.2 %	0.4 %	0.4 %	0.1 %	0.2 %	825.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	12.8492 ppm	0.4864 ppm	0.9063 ppm	21.0694 ppm	0.4862 ppm	0.5170 ppm	0.4734 ppm
Concentration per Run 1	12.8541 ppm	0.4866 ppm	0.8954 ppm	21.0891 ppm	0.4862 ppm	0.5171 ppm	0.4726 ppm
Concentration per Run 2	12.8602 ppm	0.4855 ppm	0.9085 ppm	21.0232 ppm	0.4865 ppm	0.5172 ppm	0.4721 ppm
Concentration per Run 3	12.8333 ppm	0.4872 ppm	0.9151 ppm	21.0959 ppm	0.4858 ppm	0.5167 ppm	0.4754 ppm
Concentration RSD	0.1 %	0.2 %	1.1 %	0.2 %	0.1 %	0.1 %	0.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1112 ppm	5.5039 ppm	0.9722 ppm	0.9790 ppm	0.9892 ppm	0.1110 ppm	0.5101 ppm
Concentration per Run 1	0.1131 ppm	5.5061 ppm	0.9711 ppm	0.9793 ppm	0.9895 ppm	0.1110 ppm	0.5105 ppm
Concentration per Run 2	0.1073 ppm	5.5083 ppm	0.9714 ppm	0.9769 ppm	0.9895 ppm	0.1119 ppm	0.5106 ppm
Concentration per Run 3	0.1133 ppm	5.4974 ppm	0.9740 ppm	0.9807 ppm	0.9884 ppm	0.1101 ppm	0.5092 ppm
Concentration RSD	3.1 %	0.1 %	0.2 %	0.2 %	0.1 %	0.8 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5180 ppm	100.9394 %	100.4013 %	103.9050 %	102.8929 %	103.1420 %	102.1709 %
Concentration per Run 1	0.5182 ppm	101.4811 %	100.4208 %	104.0707 %	102.9517 %	103.1082 %	102.0605 %
Concentration per Run 2	0.5181 ppm	100.7658 %	100.4109 %	103.6249 %	102.8138 %	102.9998 %	102.0728 %
Concentration per Run 3	0.5178 ppm	100.5712 %	100.3724 %	104.0195 %	102.9133 %	103.3180 %	102.3794 %
Concentration RSD	0.0 %	0.5 %	0.0 %	0.2 %	0.1 %	0.2 %	0.2 %

LabBook: WG2039392_03122025T5.imexp

Sample: WG2039054-5 WG2039054
Analysis started at: 3/12/2025 8:08:37 PM
Comments <Comment>
Rack: 2
Vial: 13

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0243 ppm	2.1553 ppm	0.1275 ppm	1.0205 ppm	2.0999 ppm	0.0538 ppm	23.5481 ppm
Concentration per Run 1	0.0258 ppm	2.1777 ppm	0.1278 ppm	1.0210 ppm	2.1174 ppm	0.0543 ppm	23.7362 ppm
Concentration per Run 2	0.0230 ppm	2.1518 ppm	0.1278 ppm	1.0210 ppm	2.1008 ppm	0.0539 ppm	23.5372 ppm
Concentration per Run 3	0.0243 ppm	2.1364 ppm	0.1269 ppm	1.0195 ppm	2.0815 ppm	0.0531 ppm	23.3708 ppm
Concentration RSD	5.7 %	1.0 %	0.4 %	0.1 %	0.9 %	1.1 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0567 ppm	0.5215 ppm	0.2243 ppm	0.2757 ppm	1.1190 ppm	13.0682 ppm	0.0003 ppm
Concentration per Run 1	0.0567 ppm	0.5215 ppm	0.2232 ppm	0.2755 ppm	1.1270 ppm	13.2071 ppm	0.0008 ppm
Concentration per Run 2	0.0567 ppm	0.5217 ppm	0.2249 ppm	0.2760 ppm	1.1209 ppm	13.0135 ppm	0.0013 ppm
Concentration per Run 3	0.0565 ppm	0.5214 ppm	0.2247 ppm	0.2756 ppm	1.1090 ppm	12.9839 ppm	-0.0013 ppm
Concentration RSD	0.2 %	0.0 %	0.4 %	0.1 %	0.8 %	0.9 %	519.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	13.6461 ppm	0.5385 ppm	0.9878 ppm	21.7623 ppm	0.5190 ppm	0.5694 ppm	0.4936 ppm
Concentration per Run 1	13.6540 ppm	0.5456 ppm	0.9768 ppm	21.9901 ppm	0.5198 ppm	0.5705 ppm	0.4917 ppm
Concentration per Run 2	13.6277 ppm	0.5384 ppm	0.9900 ppm	21.7044 ppm	0.5190 ppm	0.5705 ppm	0.4936 ppm
Concentration per Run 3	13.6565 ppm	0.5316 ppm	0.9967 ppm	21.5924 ppm	0.5183 ppm	0.5674 ppm	0.4955 ppm
Concentration RSD	0.1 %	1.3 %	1.0 %	0.9 %	0.1 %	0.3 %	0.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1274 ppm	5.1026 ppm	1.0565 ppm	1.0884 ppm	1.0792 ppm	0.1283 ppm	0.5489 ppm
Concentration per Run 1	0.1274 ppm	5.1063 ppm	1.0562 ppm	1.1006 ppm	1.0787 ppm	0.1274 ppm	0.5475 ppm
Concentration per Run 2	0.1267 ppm	5.1015 ppm	1.0600 ppm	1.0865 ppm	1.0786 ppm	0.1284 ppm	0.5492 ppm
Concentration per Run 3	0.1280 ppm	5.1001 ppm	1.0532 ppm	1.0781 ppm	1.0802 ppm	0.1291 ppm	0.5501 ppm
Concentration RSD	0.5 %	0.1 %	0.3 %	1.0 %	0.1 %	0.7 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5518 ppm	100.3457 %	100.3936 %	104.0121 %	102.3661 %	102.8655 %	101.9198 %
Concentration per Run 1	0.5511 ppm	99.5047 %	100.3592 %	104.0218 %	101.1945 %	102.9977 %	102.0060 %
Concentration per Run 2	0.5530 ppm	100.6749 %	100.2971 %	103.8760 %	102.5218 %	102.8197 %	101.9261 %
Concentration per Run 3	0.5512 ppm	100.8575 %	100.5244 %	104.1384 %	103.3820 %	102.7792 %	101.8275 %
Concentration RSD	0.2 %	0.7 %	0.1 %	0.1 %	1.1 %	0.1 %	0.1 %

LabBook: WG2039392_03122025T5.imexp

Sample: WG2039054-6d5 WG2039054
Analysis started at: 3/12/2025 8:14:42 PM
Comments <Comment>
Rack: 2
Vial: 14

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0032 ppm	0.0001 ppm	0.0062 ppm	0.0074 ppm	0.0000 ppm	2.8139 ppm
Concentration per Run 1	0.0001 ppm	0.0041 ppm	0.0000 ppm	0.0061 ppm	0.0080 ppm	0.0000 ppm	2.8752 ppm
Concentration per Run 2	0.0001 ppm	0.0018 ppm	0.0004 ppm	0.0062 ppm	0.0072 ppm	0.0000 ppm	2.8046 ppm
Concentration per Run 3	0.0003 ppm	0.0036 ppm	-0.0001 ppm	0.0063 ppm	0.0069 ppm	0.0000 ppm	2.7619 ppm
Concentration RSD	69.8 %	37.1 %	419.8 %	1.5 %	7.2 %	161.1 %	2.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0003 ppm	-0.0003 ppm	0.0034 ppm	0.4137 ppm	0.0005 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0006 ppm	-0.0004 ppm	0.0039 ppm	0.4376 ppm	0.0008 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0040 ppm	0.4205 ppm	0.0004 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0005 ppm	-0.0003 ppm	0.0022 ppm	0.3830 ppm	0.0003 ppm
Concentration RSD	1,068.9 %	58.4 %	96.0 %	55.3 %	31.2 %	6.8 %	45.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5481 ppm	0.0005 ppm	0.0072 ppm	2.3587 ppm	0.0003 ppm	0.0004 ppm	0.0099 ppm
Concentration per Run 1	0.5484 ppm	0.0005 ppm	0.0082 ppm	2.4092 ppm	0.0004 ppm	0.0004 ppm	0.0106 ppm
Concentration per Run 2	0.5478 ppm	0.0003 ppm	0.0072 ppm	2.3505 ppm	0.0002 ppm	0.0007 ppm	0.0103 ppm
Concentration per Run 3	0.5482 ppm	0.0006 ppm	0.0063 ppm	2.3165 ppm	0.0003 ppm	0.0002 ppm	0.0086 ppm
Concentration RSD	0.1 %	33.9 %	13.2 %	2.0 %	34.3 %	60.3 %	10.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0010 ppm	0.8498 ppm	0.0041 ppm	0.0123 ppm	0.0008 ppm	0.0010 ppm	0.0003 ppm
Concentration per Run 1	-0.0040 ppm	0.8525 ppm	0.0045 ppm	0.0127 ppm	0.0010 ppm	0.0006 ppm	0.0005 ppm
Concentration per Run 2	0.0001 ppm	0.8484 ppm	0.0045 ppm	0.0123 ppm	0.0009 ppm	0.0005 ppm	-0.0001 ppm
Concentration per Run 3	0.0010 ppm	0.8487 ppm	0.0033 ppm	0.0120 ppm	0.0006 ppm	0.0020 ppm	0.0004 ppm
Concentration RSD	280.1 %	0.3 %	16.6 %	2.8 %	28.0 %	80.9 %	113.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0034 ppm	96.4993 %	102.2388 %	106.0364 %	97.7656 %	106.6101 %	103.4125 %
Concentration per Run 1	0.0034 ppm	94.5630 %	101.9557 %	106.0177 %	95.3767 %	106.6830 %	103.0951 %
Concentration per Run 2	0.0035 ppm	96.5621 %	102.3190 %	106.2055 %	98.1817 %	106.7199 %	103.5049 %
Concentration per Run 3	0.0034 ppm	98.3729 %	102.4416 %	105.8860 %	99.7385 %	106.4273 %	103.6374 %
Concentration RSD	1.0 %	2.0 %	0.2 %	0.2 %	2.3 %	0.1 %	0.3 %

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LabBook: WG2039392_03122025T5.imexp

Sample: L2512368-01 WG2039054
Analysis started at: 3/12/2025 8:21:03 PM
Comments <Comment>
Rack: 2
Vial: 15

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0062 ppm	-0.0003 ppm	0.0144 ppm	0.0145 ppm	-0.0001 ppm	22.7624 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	-0.0015 ppm	0.0142 ppm	0.0147 ppm	0.0000 ppm	22.9610 ppm
Concentration per Run 2	0.0004 ppm	0.0101 ppm	0.0011 ppm	0.0145 ppm	0.0142 ppm	-0.0001 ppm	22.5501 ppm
Concentration per Run 3	0.0005 ppm	0.0081 ppm	-0.0004 ppm	0.0145 ppm	0.0146 ppm	0.0000 ppm	22.7759 ppm
Concentration RSD	79.1 %	83.7 %	483.5 %	1.4 %	2.0 %	35.9 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0061 ppm	0.0034 ppm	1.6607 ppm	-0.0012 ppm
Concentration per Run 1	-0.0001 ppm	0.0000 ppm	0.0006 ppm	0.0059 ppm	0.0036 ppm	1.6630 ppm	-0.0019 ppm
Concentration per Run 2	-0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0064 ppm	0.0022 ppm	1.6601 ppm	-0.0005 ppm
Concentration per Run 3	-0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0061 ppm	0.0046 ppm	1.6589 ppm	-0.0012 ppm
Concentration RSD	27.5 %	487.9 %	32.9 %	3.8 %	35.1 %	0.1 %	58.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	4.7111 ppm	0.0011 ppm	0.0023 ppm	8.7124 ppm	0.0007 ppm	0.0012 ppm	0.0009 ppm
Concentration per Run 1	4.7088 ppm	0.0012 ppm	0.0025 ppm	8.8035 ppm	0.0005 ppm	0.0014 ppm	0.0004 ppm
Concentration per Run 2	4.7180 ppm	0.0011 ppm	0.0023 ppm	8.6410 ppm	0.0007 ppm	0.0014 ppm	0.0015 ppm
Concentration per Run 3	4.7063 ppm	0.0010 ppm	0.0023 ppm	8.6928 ppm	0.0009 ppm	0.0009 ppm	0.0008 ppm
Concentration RSD	0.1 %	7.9 %	5.1 %	1.0 %	24.3 %	23.0 %	62.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0009 ppm	1.7453 ppm	0.0016 ppm	0.0746 ppm	0.0005 ppm	0.0018 ppm	0.0007 ppm
Concentration per Run 1	-0.0001 ppm	1.7452 ppm	0.0019 ppm	0.0753 ppm	0.0007 ppm	0.0013 ppm	0.0006 ppm
Concentration per Run 2	-0.0015 ppm	1.7460 ppm	0.0018 ppm	0.0737 ppm	0.0003 ppm	0.0005 ppm	0.0009 ppm
Concentration per Run 3	-0.0013 ppm	1.7445 ppm	0.0012 ppm	0.0746 ppm	0.0005 ppm	0.0036 ppm	0.0004 ppm
Concentration RSD	81.3 %	0.0 %	23.2 %	1.1 %	48.7 %	89.6 %	36.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0272 ppm	100.8866 %	101.0241 %	104.5763 %	102.5791 %	104.0609 %	102.9622 %
Concentration per Run 1	0.0271 ppm	100.1672 %	100.4998 %	104.7818 %	101.3705 %	104.2587 %	102.5952 %
Concentration per Run 2	0.0272 ppm	101.1044 %	101.3450 %	104.4082 %	103.1335 %	104.0364 %	103.3115 %
Concentration per Run 3	0.0273 ppm	101.3880 %	101.2275 %	104.5389 %	103.2333 %	103.8874 %	102.9800 %
Concentration RSD	0.3 %	0.6 %	0.5 %	0.2 %	1.0 %	0.2 %	0.3 %

LabBook: WG2039392_03122025T5.imexp

Sample: WG2039054-7 WG2039054
Analysis started at: 3/12/2025 8:27:23 PM
Comments <Comment>
Rack: 2
Vial: 16

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0501 ppm	1.9945 ppm	0.1124 ppm	0.9437 ppm	1.9433 ppm	0.0500 ppm	33.3475 ppm
Concentration per Run 1	0.0500 ppm	2.0333 ppm	0.1115 ppm	0.9442 ppm	1.9824 ppm	0.0512 ppm	34.0816 ppm
Concentration per Run 2	0.0497 ppm	1.9846 ppm	0.1123 ppm	0.9445 ppm	1.9338 ppm	0.0498 ppm	33.1652 ppm
Concentration per Run 3	0.0507 ppm	1.9655 ppm	0.1135 ppm	0.9425 ppm	1.9138 ppm	0.0491 ppm	32.7955 ppm
Concentration RSD	1.0 %	1.8 %	0.9 %	0.1 %	1.8 %	2.1 %	2.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0530 ppm	0.4899 ppm	0.2069 ppm	0.2621 ppm	1.0307 ppm	11.8682 ppm	-0.0008 ppm
Concentration per Run 1	0.0531 ppm	0.4899 ppm	0.2068 ppm	0.2617 ppm	1.0543 ppm	12.1224 ppm	-0.0022 ppm
Concentration per Run 2	0.0530 ppm	0.4899 ppm	0.2063 ppm	0.2627 ppm	1.0203 ppm	11.7945 ppm	0.0010 ppm
Concentration per Run 3	0.0529 ppm	0.4898 ppm	0.2077 ppm	0.2617 ppm	1.0175 ppm	11.6876 ppm	-0.0011 ppm
Concentration RSD	0.1 %	0.0 %	0.3 %	0.2 %	2.0 %	1.9 %	205.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	14.9267 ppm	0.4992 ppm	0.9103 ppm	19.0233 ppm	0.4880 ppm	0.5181 ppm	0.4709 ppm
Concentration per Run 1	14.8767 ppm	0.5110 ppm	0.8992 ppm	19.4733 ppm	0.4887 ppm	0.5198 ppm	0.4667 ppm
Concentration per Run 2	14.9558 ppm	0.4961 ppm	0.9119 ppm	18.8925 ppm	0.4881 ppm	0.5166 ppm	0.4708 ppm
Concentration per Run 3	14.9475 ppm	0.4905 ppm	0.9198 ppm	18.7040 ppm	0.4871 ppm	0.5178 ppm	0.4752 ppm
Concentration RSD	0.3 %	2.1 %	1.1 %	2.1 %	0.2 %	0.3 %	0.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1123 ppm	2.8967 ppm	0.9726 ppm	1.0240 ppm	0.9882 ppm	0.1105 ppm	0.5096 ppm
Concentration per Run 1	0.1105 ppm	2.9053 ppm	0.9706 ppm	1.0467 ppm	0.9867 ppm	0.1099 ppm	0.5084 ppm
Concentration per Run 2	0.1133 ppm	2.8940 ppm	0.9731 ppm	1.0175 ppm	0.9887 ppm	0.1109 ppm	0.5101 ppm
Concentration per Run 3	0.1132 ppm	2.8908 ppm	0.9742 ppm	1.0076 ppm	0.9893 ppm	0.1106 ppm	0.5103 ppm
Concentration RSD	1.4 %	0.3 %	0.2 %	2.0 %	0.1 %	0.5 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5299 ppm	99.9222 %	100.6242 %	103.5214 %	101.0596 %	102.4118 %	102.5461 %
Concentration per Run 1	0.5299 ppm	98.1608 %	100.9919 %	103.6848 %	98.5253 %	102.4873 %	102.8435 %
Concentration per Run 2	0.5303 ppm	100.2156 %	100.5998 %	103.5631 %	101.7565 %	102.3849 %	102.4559 %
Concentration per Run 3	0.5297 ppm	101.3903 %	100.2807 %	103.3161 %	102.8970 %	102.3632 %	102.3388 %
Concentration RSD	0.1 %	1.6 %	0.4 %	0.2 %	2.2 %	0.1 %	0.3 %

LabBook: WG2039392_03122025T5.imexp

Sample: WG2039054-8 WG2039054
Analysis started at: 3/12/2025 8:33:28 PM
Comments <Comment>
Rack: 2
Vial: 17

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0104 ppm	-0.0004 ppm	0.0150 ppm	0.0156 ppm	0.0000 ppm	23.7890 ppm
Concentration per Run 1	-0.0002 ppm	0.0157 ppm	-0.0005 ppm	0.0150 ppm	0.0159 ppm	0.0000 ppm	24.2743 ppm
Concentration per Run 2	-0.0004 ppm	0.0063 ppm	0.0007 ppm	0.0150 ppm	0.0155 ppm	0.0000 ppm	23.6475 ppm
Concentration per Run 3	0.0005 ppm	0.0092 ppm	-0.0013 ppm	0.0151 ppm	0.0153 ppm	0.0000 ppm	23.4454 ppm
Concentration RSD	2,232.6 %	46.2 %	293.1 %	0.3 %	1.9 %	67.8 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0062 ppm	0.0036 ppm	1.7611 ppm	-0.0010 ppm
Concentration per Run 1	-0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0063 ppm	0.0040 ppm	1.7963 ppm	-0.0009 ppm
Concentration per Run 2	-0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0063 ppm	0.0019 ppm	1.7568 ppm	-0.0009 ppm
Concentration per Run 3	-0.0001 ppm	0.0002 ppm	0.0005 ppm	0.0059 ppm	0.0049 ppm	1.7303 ppm	-0.0012 ppm
Concentration RSD	32.6 %	60.7 %	110.8 %	4.2 %	42.7 %	1.9 %	19.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	4.8477 ppm	0.0003 ppm	0.0058 ppm	9.0864 ppm	0.0006 ppm	0.0009 ppm	0.0035 ppm
Concentration per Run 1	4.8359 ppm	0.0003 ppm	0.0068 ppm	9.2689 ppm	0.0009 ppm	0.0007 ppm	0.0036 ppm
Concentration per Run 2	4.8599 ppm	0.0003 ppm	0.0057 ppm	9.0280 ppm	0.0004 ppm	0.0008 ppm	0.0032 ppm
Concentration per Run 3	4.8474 ppm	0.0004 ppm	0.0050 ppm	8.9623 ppm	0.0005 ppm	0.0011 ppm	0.0039 ppm
Concentration RSD	0.2 %	16.7 %	15.7 %	1.8 %	48.5 %	23.1 %	10.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0006 ppm	1.7805 ppm	0.0021 ppm	0.0779 ppm	0.0006 ppm	0.0007 ppm	0.0007 ppm
Concentration per Run 1	0.0009 ppm	1.7787 ppm	0.0020 ppm	0.0796 ppm	0.0005 ppm	0.0006 ppm	0.0005 ppm
Concentration per Run 2	0.0012 ppm	1.7810 ppm	0.0021 ppm	0.0773 ppm	0.0008 ppm	0.0006 ppm	0.0006 ppm
Concentration per Run 3	-0.0002 ppm	1.7819 ppm	0.0021 ppm	0.0768 ppm	0.0005 ppm	0.0010 ppm	0.0009 ppm
Concentration RSD	111.7 %	0.1 %	4.1 %	1.9 %	24.7 %	36.0 %	26.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0278 ppm	100.2278 %	101.4890 %	104.4914 %	100.7603 %	104.0408 %	102.8982 %
Concentration per Run 1	0.0279 ppm	98.7936 %	101.5978 %	104.6635 %	98.5666 %	104.1159 %	103.0120 %
Concentration per Run 2	0.0279 ppm	100.9768 %	101.5117 %	104.4450 %	101.7386 %	103.9648 %	102.8050 %
Concentration per Run 3	0.0278 ppm	100.9130 %	101.3575 %	104.3658 %	101.9758 %	104.0418 %	102.8777 %
Concentration RSD	0.2 %	1.2 %	0.1 %	0.1 %	1.9 %	0.1 %	0.1 %

LabBook: WG2039392_03122025T5.imexp

Sample: CCV
Analysis started at: 3/12/2025 8:39:48 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4768 ppm	0.4920 ppm	0.4704 ppm	0.4621 ppm	0.4815 ppm	0.4924 ppm	0.5171 ppm
Concentration per Run 1	0.4770 ppm	0.4966 ppm	0.4736 ppm	0.4634 ppm	0.4872 ppm	0.4982 ppm	0.5186 ppm
Concentration per Run 2	0.4773 ppm	0.4944 ppm	0.4702 ppm	0.4614 ppm	0.4798 ppm	0.4915 ppm	0.5205 ppm
Concentration per Run 3	0.4761 ppm	0.4851 ppm	0.4674 ppm	0.4616 ppm	0.4774 ppm	0.4875 ppm	0.5121 ppm
Recovery Percentage 1	95.356 %	98.409 %	94.077 %	92.427 %	96.292 %	98.475 %	103.414 %
Concentration RSD	0.1 %	1.2 %	0.7 %	0.2 %	1.1 %	1.1 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4865 ppm	0.4916 ppm	0.5082 ppm	0.4924 ppm	0.5220 ppm	5.0311 ppm	0.4784 ppm
Concentration per Run 1	0.4872 ppm	0.4930 ppm	0.5097 ppm	0.4937 ppm	0.5240 ppm	5.0978 ppm	0.4839 ppm
Concentration per Run 2	0.4858 ppm	0.4906 ppm	0.5068 ppm	0.4917 ppm	0.5215 ppm	4.9892 ppm	0.4784 ppm
Concentration per Run 3	0.4865 ppm	0.4913 ppm	0.5080 ppm	0.4919 ppm	0.5204 ppm	5.0064 ppm	0.4729 ppm
Recovery Percentage 1	97.297 %	98.327 %	101.633 %	98.485 %	104.396 %	100.622 %	95.676 %
Concentration RSD	0.1 %	0.2 %	0.3 %	0.2 %	0.4 %	1.2 %	1.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5087 ppm	0.4927 ppm	0.4695 ppm	9.7858 ppm	0.4866 ppm	0.4896 ppm	0.4846 ppm
Concentration per Run 1	0.5089 ppm	0.4975 ppm	0.4696 ppm	9.9244 ppm	0.4879 ppm	0.4908 ppm	0.4865 ppm
Concentration per Run 2	0.5095 ppm	0.4916 ppm	0.4691 ppm	9.7426 ppm	0.4858 ppm	0.4890 ppm	0.4826 ppm
Concentration per Run 3	0.5076 ppm	0.4889 ppm	0.4698 ppm	9.6903 ppm	0.4862 ppm	0.4890 ppm	0.4847 ppm
Recovery Percentage 1	101.733 %	98.532 %	93.897 %	97.858 %	97.330 %	97.919 %	96.919 %
Concentration RSD	0.2 %	0.9 %	0.1 %	1.3 %	0.2 %	0.2 %	0.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4798 ppm	5.3458 ppm	0.4788 ppm	0.4814 ppm	0.4939 ppm	0.4925 ppm	0.4922 ppm
Concentration per Run 1	0.4815 ppm	5.3588 ppm	0.4807 ppm	0.4869 ppm	0.4951 ppm	0.4936 ppm	0.4929 ppm
Concentration per Run 2	0.4811 ppm	5.3404 ppm	0.4774 ppm	0.4801 ppm	0.4919 ppm	0.4906 ppm	0.4904 ppm
Concentration per Run 3	0.4769 ppm	5.3384 ppm	0.4782 ppm	0.4773 ppm	0.4947 ppm	0.4932 ppm	0.4932 ppm
Recovery Percentage 1	95.967 %	101.826 %	95.753 %	96.281 %	98.778 %	98.496 %	98.431 %
Concentration RSD	0.5 %	0.2 %	0.4 %	1.0 %	0.3 %	0.3 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4914 ppm	96.0261 %	101.2679 %	104.7666 %	98.3469 %	104.1327 %	103.2056 %
Concentration per Run 1	0.4923 ppm	94.3662 %	101.3010 %	104.8128 %	96.8504 %	104.0002 %	103.1308 %
Concentration per Run 2	0.4905 ppm	96.5193 %	101.2547 %	104.6415 %	98.6581 %	104.3002 %	103.3591 %
Concentration per Run 3	0.4914 ppm	97.1929 %	101.2481 %	104.8455 %	99.5323 %	104.0977 %	103.1268 %
Recovery Percentage 1	98.278 %						
Concentration RSD	0.2 %	1.5 %	0.0 %	0.1 %	1.4 %	0.1 %	0.1 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: CCB
Analysis started at: 3/12/2025 8:45:55 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0016 ppm	-0.0018 ppm	0.0020 ppm	0.0002 ppm	0.0000 ppm	0.0051 ppm
Concentration per Run 1	0.0001 ppm	0.0041 ppm	-0.0024 ppm	0.0020 ppm	0.0001 ppm	0.0000 ppm	0.0039 ppm
Concentration per Run 2	0.0008 ppm	0.0012 ppm	-0.0023 ppm	0.0020 ppm	0.0002 ppm	0.0000 ppm	0.0031 ppm
Concentration per Run 3	0.0000 ppm	-0.0004 ppm	-0.0007 ppm	0.0020 ppm	0.0003 ppm	0.0000 ppm	0.0084 ppm
Recovery Percentage 1	4.459 %	1.634 %	-35.994 %	6.687 %	1.865 %	0.019 %	5.125 %
Concentration RSD	140.5 %	137.7 %	51.3 %	2.2 %	40.0 %	1,567.9 %	55.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0005 ppm	0.0006 ppm	-0.0143 ppm	0.0009 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0005 ppm	0.0010 ppm	0.0054 ppm	0.0006 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0005 ppm	0.0002 ppm	-0.0249 ppm	0.0013 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0006 ppm	0.0006 ppm	-0.0233 ppm	0.0008 ppm
Recovery Percentage 1	0.190 %	0.433 %	0.612 %	-5.260 %	1.204 %	-0.571 %	9.069 %
Concentration RSD	137.8 %	58.9 %	97.4 %	14.3 %	63.0 %	119.3 %	42.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0009 ppm	0.0002 ppm	0.0019 ppm	-0.0065 ppm	0.0002 ppm	0.0006 ppm	0.0020 ppm
Concentration per Run 1	0.0007 ppm	0.0001 ppm	0.0023 ppm	-0.0091 ppm	0.0003 ppm	0.0005 ppm	0.0021 ppm
Concentration per Run 2	-0.0022 ppm	0.0003 ppm	0.0018 ppm	-0.0096 ppm	0.0000 ppm	0.0003 ppm	0.0024 ppm
Concentration per Run 3	-0.0013 ppm	0.0001 ppm	0.0016 ppm	-0.0008 ppm	0.0003 ppm	0.0011 ppm	0.0013 ppm
Recovery Percentage 1	-0.938 %	1.816 %	3.758 %	-0.325 %	0.765 %	6.297 %	3.915 %
Concentration RSD	159.3 %	70.5 %	19.0 %	76.7 %	106.0 %	72.7 %	29.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0005 ppm	-0.0009 ppm	0.0011 ppm	0.0001 ppm	0.0002 ppm	0.0020 ppm	0.0001 ppm
Concentration per Run 1	-0.0013 ppm	-0.0009 ppm	0.0012 ppm	0.0000 ppm	0.0004 ppm	0.0025 ppm	0.0000 ppm
Concentration per Run 2	-0.0019 ppm	-0.0005 ppm	0.0013 ppm	0.0001 ppm	0.0003 ppm	0.0027 ppm	0.0002 ppm
Concentration per Run 3	0.0018 ppm	-0.0012 ppm	0.0007 ppm	0.0002 ppm	-0.0001 ppm	0.0007 ppm	0.0001 ppm
Recovery Percentage 1	-4.701 %	-0.172 %	2.105 %	0.980 %	2.066 %	9.752 %	0.833 %
Concentration RSD	418.6 %	42.2 %	33.9 %	67.0 %	124.9 %	57.6 %	145.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0008 ppm	102.1625 %	102.0053 %	105.3240 %	102.5810 %	104.8095 %	102.5571 %
Concentration per Run 1	0.0008 ppm	104.8667 %	102.0313 %	105.4407 %	104.7551 %	104.6653 %	102.7987 %
Concentration per Run 2	0.0007 ppm	100.9080 %	101.6712 %	105.1989 %	101.6498 %	104.7240 %	102.3235 %
Concentration per Run 3	0.0008 ppm	100.7127 %	102.3135 %	105.3324 %	101.3380 %	105.0391 %	102.5489 %
Recovery Percentage 1	15.518 %						
Concentration RSD	8.0 %	2.3 %	0.3 %	0.1 %	1.8 %	0.2 %	0.2 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: WG2039054-9 WG2039054
Analysis started at: 3/12/2025 8:53:06 PM
Comments <Comment>
Rack: 2
Vial: 18

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0238 ppm	1.8899 ppm	0.1174 ppm	0.9182 ppm	1.8256 ppm	0.0472 ppm	31.3065 ppm
Concentration per Run 1	0.0237 ppm	1.8864 ppm	0.1173 ppm	0.9161 ppm	1.8286 ppm	0.0471 ppm	31.2844 ppm
Concentration per Run 2	0.0239 ppm	1.8952 ppm	0.1182 ppm	0.9167 ppm	1.8257 ppm	0.0472 ppm	31.3266 ppm
Concentration per Run 3	0.0239 ppm	1.8881 ppm	0.1166 ppm	0.9219 ppm	1.8224 ppm	0.0472 ppm	31.3086 ppm
Concentration RSD	0.6 %	0.2 %	0.7 %	0.3 %	0.2 %	0.1 %	0.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0511 ppm	0.4699 ppm	0.2000 ppm	0.2525 ppm	0.9755 ppm	11.3673 ppm	-0.0007 ppm
Concentration per Run 1	0.0511 ppm	0.4694 ppm	0.2000 ppm	0.2534 ppm	0.9750 ppm	11.3715 ppm	-0.0002 ppm
Concentration per Run 2	0.0510 ppm	0.4690 ppm	0.2000 ppm	0.2528 ppm	0.9759 ppm	11.3433 ppm	-0.0005 ppm
Concentration per Run 3	0.0513 ppm	0.4711 ppm	0.2001 ppm	0.2513 ppm	0.9755 ppm	11.3871 ppm	-0.0015 ppm
Concentration RSD	0.2 %	0.2 %	0.0 %	0.4 %	0.0 %	0.2 %	91.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	14.5597 ppm	0.4725 ppm	0.8861 ppm	18.0048 ppm	0.4695 ppm	0.5177 ppm	0.4377 ppm
Concentration per Run 1	14.5897 ppm	0.4720 ppm	0.8745 ppm	18.0119 ppm	0.4693 ppm	0.5174 ppm	0.4322 ppm
Concentration per Run 2	14.5471 ppm	0.4732 ppm	0.8849 ppm	18.0120 ppm	0.4680 ppm	0.5175 ppm	0.4367 ppm
Concentration per Run 3	14.5423 ppm	0.4723 ppm	0.8988 ppm	17.9904 ppm	0.4713 ppm	0.5183 ppm	0.4442 ppm
Concentration RSD	0.2 %	0.1 %	1.4 %	0.1 %	0.3 %	0.1 %	1.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1153 ppm	2.5084 ppm	0.9580 ppm	0.9804 ppm	0.9689 ppm	0.1162 ppm	0.4923 ppm
Concentration per Run 1	0.1138 ppm	2.5035 ppm	0.9570 ppm	0.9815 ppm	0.9698 ppm	0.1152 ppm	0.4925 ppm
Concentration per Run 2	0.1132 ppm	2.5043 ppm	0.9550 ppm	0.9811 ppm	0.9695 ppm	0.1162 ppm	0.4925 ppm
Concentration per Run 3	0.1189 ppm	2.5174 ppm	0.9621 ppm	0.9787 ppm	0.9674 ppm	0.1172 ppm	0.4920 ppm
Concentration RSD	2.7 %	0.3 %	0.4 %	0.2 %	0.1 %	0.9 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5099 ppm	102.2549 %	100.5818 %	103.7672 %	104.0380 %	103.1145 %	102.3806 %
Concentration per Run 1	0.5092 ppm	102.2876 %	100.3049 %	103.9993 %	103.9138 %	103.4409 %	102.1594 %
Concentration per Run 2	0.5088 ppm	102.5552 %	100.8599 %	103.6446 %	104.2189 %	103.2245 %	102.5314 %
Concentration per Run 3	0.5116 ppm	101.9221 %	100.5806 %	103.6577 %	103.9812 %	102.6782 %	102.4511 %
Concentration RSD	0.3 %	0.3 %	0.3 %	0.2 %	0.2 %	0.4 %	0.2 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: WG2039054-10d5 WG2039054
Analysis started at: 3/12/2025 8:59:10 PM
Comments <Comment>
Rack: 2
Vial: 19

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0070 ppm	-0.0007 ppm	0.0048 ppm	0.0036 ppm	-0.0001 ppm	4.8438 ppm
Concentration per Run 1	0.0002 ppm	0.0053 ppm	-0.0004 ppm	0.0051 ppm	0.0037 ppm	0.0000 ppm	4.9336 ppm
Concentration per Run 2	0.0005 ppm	0.0074 ppm	-0.0006 ppm	0.0050 ppm	0.0036 ppm	-0.0001 ppm	4.8197 ppm
Concentration per Run 3	0.0002 ppm	0.0083 ppm	-0.0011 ppm	0.0044 ppm	0.0035 ppm	-0.0001 ppm	4.7781 ppm
Concentration RSD	64.2 %	22.5 %	60.5 %	8.2 %	2.8 %	77.2 %	1.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0010 ppm	0.0035 ppm	0.3342 ppm	0.0011 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	0.0002 ppm	0.0010 ppm	0.0021 ppm	0.3323 ppm	0.0012 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0011 ppm	0.0055 ppm	0.3467 ppm	0.0020 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	-0.0002 ppm	0.0008 ppm	0.0031 ppm	0.3236 ppm	0.0002 ppm
Concentration RSD	2,014.8 %	58.9 %	289.8 %	18.0 %	49.2 %	3.5 %	79.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.9630 ppm	0.0005 ppm	0.0054 ppm	1.8037 ppm	0.0002 ppm	0.0007 ppm	0.0082 ppm
Concentration per Run 1	0.9639 ppm	0.0007 ppm	0.0063 ppm	1.8259 ppm	0.0002 ppm	0.0010 ppm	0.0097 ppm
Concentration per Run 2	0.9665 ppm	0.0004 ppm	0.0052 ppm	1.8143 ppm	0.0003 ppm	0.0007 ppm	0.0079 ppm
Concentration per Run 3	0.9585 ppm	0.0004 ppm	0.0047 ppm	1.7709 ppm	0.0001 ppm	0.0005 ppm	0.0068 ppm
Concentration RSD	0.4 %	35.4 %	15.0 %	1.6 %	61.4 %	35.6 %	18.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0003 ppm	0.3428 ppm	0.0030 ppm	0.0161 ppm	0.0007 ppm	0.0017 ppm	0.0003 ppm
Concentration per Run 1	0.0008 ppm	0.3421 ppm	0.0031 ppm	0.0164 ppm	0.0006 ppm	0.0010 ppm	0.0003 ppm
Concentration per Run 2	0.0003 ppm	0.3431 ppm	0.0035 ppm	0.0160 ppm	0.0008 ppm	0.0012 ppm	0.0005 ppm
Concentration per Run 3	-0.0002 ppm	0.3432 ppm	0.0022 ppm	0.0159 ppm	0.0007 ppm	0.0029 ppm	0.0002 ppm
Concentration RSD	179.4 %	0.2 %	22.6 %	1.4 %	16.4 %	60.2 %	45.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0056 ppm	98.0370 %	102.5449 %	106.2221 %	98.5895 %	106.7536 %	104.1510 %
Concentration per Run 1	0.0057 ppm	96.4161 %	102.1944 %	106.0572 %	96.8688 %	106.5505 %	103.4835 %
Concentration per Run 2	0.0056 ppm	98.2360 %	102.3536 %	106.3077 %	98.6466 %	106.8220 %	104.1194 %
Concentration per Run 3	0.0056 ppm	99.4590 %	103.0868 %	106.3013 %	100.2531 %	106.8883 %	104.8500 %
Concentration RSD	1.3 %	1.6 %	0.5 %	0.1 %	1.7 %	0.2 %	0.7 %

LabBook: WG2039392_03122025T5.imexp

Sample: L2512368-02 WG2039054
Analysis started at: 3/12/2025 9:05:31 PM
Comments <Comment>
Rack: 2
Vial: 20

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	-0.0004 ppm	-0.0004 ppm	0.0142 ppm	0.0680 ppm	0.0000 ppm	16.5640 ppm
Concentration per Run 1	0.0004 ppm	-0.0096 ppm	-0.0006 ppm	0.0142 ppm	0.0678 ppm	0.0000 ppm	16.6088 ppm
Concentration per Run 2	0.0003 ppm	0.0093 ppm	0.0014 ppm	0.0141 ppm	0.0679 ppm	0.0000 ppm	16.5513 ppm
Concentration per Run 3	0.0010 ppm	-0.0009 ppm	-0.0019 ppm	0.0141 ppm	0.0683 ppm	0.0000 ppm	16.5319 ppm
Concentration RSD	71.8 %	2,309.9 %	457.1 %	0.5 %	0.4 %	89.9 %	0.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0019 ppm	0.0040 ppm	0.0026 ppm	1.0442 ppm	0.0007 ppm
Concentration per Run 1	-0.0001 ppm	0.0001 ppm	0.0019 ppm	0.0039 ppm	0.0039 ppm	1.0497 ppm	0.0011 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0018 ppm	0.0041 ppm	0.0019 ppm	1.0259 ppm	0.0009 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0020 ppm	0.0040 ppm	0.0021 ppm	1.0570 ppm	0.0001 ppm
Concentration RSD	196.5 %	175.0 %	4.3 %	2.1 %	41.5 %	1.6 %	80.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	7.6124 ppm	0.0003 ppm	0.0012 ppm	12.0732 ppm	0.0016 ppm	0.0009 ppm	0.0007 ppm
Concentration per Run 1	7.6053 ppm	0.0005 ppm	0.0014 ppm	12.0861 ppm	0.0016 ppm	0.0005 ppm	0.0006 ppm
Concentration per Run 2	7.6251 ppm	0.0002 ppm	0.0011 ppm	12.0881 ppm	0.0017 ppm	0.0010 ppm	-0.0003 ppm
Concentration per Run 3	7.6067 ppm	0.0004 ppm	0.0011 ppm	12.0453 ppm	0.0017 ppm	0.0011 ppm	0.0018 ppm
Concentration RSD	0.1 %	39.5 %	16.9 %	0.2 %	1.8 %	38.0 %	148.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0026 ppm	5.6118 ppm	0.0013 ppm	0.0789 ppm	0.0005 ppm	0.0008 ppm	0.0002 ppm
Concentration per Run 1	-0.0026 ppm	5.6072 ppm	0.0013 ppm	0.0789 ppm	0.0004 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 2	-0.0021 ppm	5.6079 ppm	0.0015 ppm	0.0790 ppm	0.0007 ppm	0.0009 ppm	0.0002 ppm
Concentration per Run 3	-0.0031 ppm	5.6202 ppm	0.0011 ppm	0.0787 ppm	0.0004 ppm	0.0014 ppm	0.0003 ppm
Concentration RSD	19.1 %	0.1 %	15.7 %	0.2 %	35.9 %	90.8 %	26.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0233 ppm	103.0407 %	101.5920 %	105.3571 %	104.4807 %	104.5088 %	104.0443 %
Concentration per Run 1	0.0234 ppm	103.4819 %	101.4880 %	105.2977 %	104.2612 %	104.3990 %	103.8844 %
Concentration per Run 2	0.0232 ppm	102.5331 %	101.4101 %	105.4152 %	104.0886 %	104.7416 %	103.9717 %
Concentration per Run 3	0.0234 ppm	103.1071 %	101.8779 %	105.3583 %	105.0923 %	104.3858 %	104.2767 %
Concentration RSD	0.4 %	0.5 %	0.2 %	0.1 %	0.5 %	0.2 %	0.2 %

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Sample: L2512368-04 WG2039054
Analysis started at: 3/12/2025 9:11:52 PM
Comments <Comment>
Rack: 2
Vial: 21

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0060 ppm	-0.0003 ppm	0.0178 ppm	0.0173 ppm	-0.0001 ppm	25.0453 ppm
Concentration per Run 1	0.0001 ppm	-0.0008 ppm	-0.0012 ppm	0.0175 ppm	0.0171 ppm	-0.0001 ppm	24.7345 ppm
Concentration per Run 2	0.0004 ppm	0.0124 ppm	-0.0005 ppm	0.0178 ppm	0.0172 ppm	-0.0001 ppm	25.0227 ppm
Concentration per Run 3	-0.0001 ppm	0.0063 ppm	0.0008 ppm	0.0181 ppm	0.0176 ppm	0.0000 ppm	25.3788 ppm
Concentration RSD	169.1 %	111.4 %	316.4 %	1.5 %	1.4 %	28.4 %	1.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	0.0001 ppm	0.0007 ppm	0.0080 ppm	0.0043 ppm	1.0339 ppm	0.0003 ppm
Concentration per Run 1	-0.0001 ppm	0.0001 ppm	0.0010 ppm	0.0081 ppm	0.0052 ppm	1.0148 ppm	-0.0007 ppm
Concentration per Run 2	-0.0001 ppm	0.0001 ppm	0.0004 ppm	0.0078 ppm	0.0033 ppm	1.0434 ppm	0.0010 ppm
Concentration per Run 3	-0.0001 ppm	0.0002 ppm	0.0007 ppm	0.0082 ppm	0.0043 ppm	1.0437 ppm	0.0006 ppm
Concentration RSD	19.0 %	51.0 %	41.7 %	2.2 %	23.0 %	1.6 %	285.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	5.5614 ppm	0.0026 ppm	0.0005 ppm	8.7993 ppm	0.0162 ppm	0.0010 ppm	0.0004 ppm
Concentration per Run 1	5.5634 ppm	0.0024 ppm	0.0005 ppm	8.6820 ppm	0.0161 ppm	0.0008 ppm	0.0003 ppm
Concentration per Run 2	5.5631 ppm	0.0026 ppm	0.0005 ppm	8.7995 ppm	0.0164 ppm	0.0017 ppm	0.0008 ppm
Concentration per Run 3	5.5578 ppm	0.0029 ppm	0.0004 ppm	8.9163 ppm	0.0162 ppm	0.0006 ppm	0.0001 ppm
Concentration RSD	0.1 %	9.4 %	13.3 %	1.3 %	1.1 %	59.4 %	89.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0022 ppm	3.6709 ppm	0.0004 ppm	0.0830 ppm	0.0003 ppm	0.0006 ppm	0.0004 ppm
Concentration per Run 1	-0.0015 ppm	3.6833 ppm	0.0003 ppm	0.0817 ppm	0.0005 ppm	0.0003 ppm	0.0006 ppm
Concentration per Run 2	-0.0029 ppm	3.6683 ppm	0.0004 ppm	0.0829 ppm	0.0002 ppm	0.0018 ppm	0.0005 ppm
Concentration per Run 3	-0.0022 ppm	3.6610 ppm	0.0005 ppm	0.0843 ppm	0.0003 ppm	-0.0004 ppm	0.0001 ppm
Concentration RSD	33.0 %	0.3 %	25.0 %	1.6 %	60.6 %	207.7 %	68.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0308 ppm	104.2227 %	101.9545 %	104.8089 %	104.4773 %	104.2556 %	103.8242 %
Concentration per Run 1	0.0309 ppm	106.1490 %	101.8675 %	104.7493 %	105.3365 %	104.1665 %	103.8140 %
Concentration per Run 2	0.0307 ppm	104.2215 %	101.7396 %	104.6758 %	105.1160 %	104.2147 %	103.5940 %
Concentration per Run 3	0.0307 ppm	102.2975 %	102.2563 %	105.0016 %	102.9795 %	104.3854 %	104.0644 %
Concentration RSD	0.2 %	1.8 %	0.3 %	0.2 %	1.2 %	0.1 %	0.2 %

LabBook: WG2039392_03122025T5.imexp

Sample: L2512368-05 WG2039054
Analysis started at: 3/12/2025 9:18:10 PM
Comments <Comment>
Rack: 2
Vial: 22

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	0.0039 ppm	-0.0010 ppm	0.0150 ppm	0.0406 ppm	-0.0001 ppm	23.1241 ppm
Concentration per Run 1	0.0004 ppm	-0.0060 ppm	-0.0015 ppm	0.0150 ppm	0.0418 ppm	-0.0001 ppm	23.7489 ppm
Concentration per Run 2	0.0002 ppm	0.0106 ppm	-0.0012 ppm	0.0150 ppm	0.0405 ppm	-0.0001 ppm	23.1266 ppm
Concentration per Run 3	0.0005 ppm	0.0073 ppm	-0.0004 ppm	0.0150 ppm	0.0395 ppm	-0.0001 ppm	22.4968 ppm
Concentration RSD	29.8 %	223.0 %	52.2 %	0.3 %	2.9 %	26.0 %	2.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	0.0001 ppm	0.0010 ppm	0.0122 ppm	0.0085 ppm	1.1798 ppm	0.0011 ppm
Concentration per Run 1	-0.0001 ppm	0.0001 ppm	0.0008 ppm	0.0120 ppm	0.0081 ppm	1.2106 ppm	0.0007 ppm
Concentration per Run 2	-0.0001 ppm	0.0001 ppm	0.0009 ppm	0.0123 ppm	0.0097 ppm	1.1824 ppm	0.0004 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0013 ppm	0.0124 ppm	0.0078 ppm	1.1464 ppm	0.0023 ppm
Concentration RSD	25.8 %	35.6 %	23.1 %	1.6 %	11.9 %	2.7 %	88.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	4.9583 ppm	0.0047 ppm	0.0004 ppm	10.7171 ppm	0.0094 ppm	0.0014 ppm	0.0009 ppm
Concentration per Run 1	4.9458 ppm	0.0049 ppm	0.0004 ppm	10.9940 ppm	0.0092 ppm	0.0014 ppm	0.0009 ppm
Concentration per Run 2	4.9675 ppm	0.0050 ppm	0.0005 ppm	10.7384 ppm	0.0094 ppm	0.0012 ppm	0.0010 ppm
Concentration per Run 3	4.9616 ppm	0.0042 ppm	0.0004 ppm	10.4188 ppm	0.0096 ppm	0.0017 ppm	0.0007 ppm
Concentration RSD	0.2 %	9.0 %	21.9 %	2.7 %	2.0 %	15.0 %	19.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0020 ppm	5.9715 ppm	0.0007 ppm	0.0958 ppm	0.0002 ppm	0.0012 ppm	0.0002 ppm
Concentration per Run 1	-0.0009 ppm	5.9708 ppm	0.0005 ppm	0.0982 ppm	0.0000 ppm	-0.0001 ppm	0.0004 ppm
Concentration per Run 2	-0.0018 ppm	5.9768 ppm	0.0010 ppm	0.0959 ppm	0.0002 ppm	0.0030 ppm	-0.0001 ppm
Concentration per Run 3	-0.0032 ppm	5.9667 ppm	0.0006 ppm	0.0932 ppm	0.0003 ppm	0.0006 ppm	0.0001 ppm
Concentration RSD	58.3 %	0.1 %	40.4 %	2.6 %	80.5 %	138.6 %	138.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0310 ppm	96.0632 %	102.2031 %	104.9407 %	96.5630 %	104.7324 %	103.8928 %
Concentration per Run 1	0.0311 ppm	94.7681 %	101.9656 %	105.0587 %	94.4823 %	104.7286 %	103.8114 %
Concentration per Run 2	0.0311 ppm	95.8503 %	102.6926 %	105.0310 %	96.4369 %	104.6022 %	104.1579 %
Concentration per Run 3	0.0308 ppm	97.5712 %	101.9510 %	104.7323 %	98.7698 %	104.8665 %	103.7091 %
Concentration RSD	0.5 %	1.5 %	0.4 %	0.2 %	2.2 %	0.1 %	0.2 %

LabBook: WG2039392_03122025T5.imexp

Sample: L2512368-07 WG2039054
Analysis started at: 3/12/2025 9:24:29 PM
Comments <Comment>
Rack: 2
Vial: 23

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0152 ppm	-0.0001 ppm	0.0507 ppm	0.1054 ppm	-0.0001 ppm	77.0564 ppm
Concentration per Run 1	-0.0002 ppm	0.0153 ppm	0.0011 ppm	0.0505 ppm	0.1068 ppm	-0.0001 ppm	78.2985 ppm
Concentration per Run 2	0.0000 ppm	0.0191 ppm	-0.0022 ppm	0.0510 ppm	0.1058 ppm	-0.0001 ppm	77.3353 ppm
Concentration per Run 3	0.0004 ppm	0.0111 ppm	0.0009 ppm	0.0506 ppm	0.1036 ppm	0.0000 ppm	75.5355 ppm
Concentration RSD	505.6 %	26.4 %	2,125.0 %	0.6 %	1.6 %	62.5 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0002 ppm	0.0004 ppm	0.0010 ppm	0.0068 ppm	0.0016 ppm	10.9921 ppm	0.0003 ppm
Concentration per Run 1	-0.0002 ppm	0.0005 ppm	0.0008 ppm	0.0069 ppm	0.0017 ppm	11.1702 ppm	0.0008 ppm
Concentration per Run 2	-0.0001 ppm	0.0004 ppm	0.0011 ppm	0.0066 ppm	0.0022 ppm	11.0342 ppm	0.0003 ppm
Concentration per Run 3	-0.0002 ppm	0.0004 ppm	0.0011 ppm	0.0068 ppm	0.0009 ppm	10.7718 ppm	-0.0002 ppm
Concentration RSD	9.4 %	12.1 %	15.2 %	2.0 %	42.6 %	1.8 %	159.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	14.0243 ppm	2.9849 ppm	0.0006 ppm	13.2484 ppm	0.0017 ppm	0.0019 ppm	-0.0005 ppm
Concentration per Run 1	14.0141 ppm	3.0330 ppm	0.0006 ppm	13.4584 ppm	0.0012 ppm	0.0018 ppm	0.0000 ppm
Concentration per Run 2	14.0443 ppm	2.9912 ppm	0.0006 ppm	13.2814 ppm	0.0021 ppm	0.0021 ppm	-0.0014 ppm
Concentration per Run 3	14.0146 ppm	2.9306 ppm	0.0006 ppm	13.0053 ppm	0.0018 ppm	0.0019 ppm	-0.0001 ppm
Concentration RSD	0.1 %	1.7 %	1.2 %	1.7 %	24.4 %	6.8 %	149.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0029 ppm	4.8146 ppm	-0.0001 ppm	0.2960 ppm	0.0001 ppm	0.0005 ppm	0.0034 ppm
Concentration per Run 1	-0.0007 ppm	4.8204 ppm	-0.0004 ppm	0.3003 ppm	0.0005 ppm	-0.0001 ppm	0.0032 ppm
Concentration per Run 2	-0.0033 ppm	4.8048 ppm	-0.0004 ppm	0.2966 ppm	-0.0004 ppm	0.0011 ppm	0.0037 ppm
Concentration per Run 3	-0.0047 ppm	4.8186 ppm	0.0006 ppm	0.2910 ppm	0.0002 ppm	0.0006 ppm	0.0032 ppm
Concentration RSD	70.8 %	0.2 %	1,137.2 %	1.6 %	382.0 %	112.8 %	7.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0216 ppm	97.5556 %	100.4532 %	102.5026 %	97.6112 %	100.9733 %	101.4254 %
Concentration per Run 1	0.0217 ppm	96.6822 %	100.3428 %	102.4684 %	96.1010 %	100.9505 %	101.3473 %
Concentration per Run 2	0.0216 ppm	97.1323 %	100.3846 %	102.6621 %	97.2381 %	101.1434 %	101.3276 %
Concentration per Run 3	0.0217 ppm	98.8523 %	100.6323 %	102.3772 %	99.4945 %	100.8261 %	101.6013 %
Concentration RSD	0.1 %	1.2 %	0.2 %	0.1 %	1.8 %	0.2 %	0.2 %

LabBook: WG2039392_03122025T5.imexp

Sample: L2512368-08 WG2039054
Analysis started at: 3/12/2025 9:30:50 PM
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Rack: 2
Vial: 24

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	0.0062 ppm	-0.0010 ppm	0.0175 ppm	0.0321 ppm	0.0000 ppm	31.9099 ppm
Concentration per Run 1	0.0005 ppm	0.0019 ppm	-0.0010 ppm	0.0177 ppm	0.0325 ppm	-0.0001 ppm	32.2001 ppm
Concentration per Run 2	0.0003 ppm	0.0023 ppm	-0.0007 ppm	0.0172 ppm	0.0321 ppm	0.0000 ppm	31.9383 ppm
Concentration per Run 3	0.0003 ppm	0.0144 ppm	-0.0012 ppm	0.0175 ppm	0.0319 ppm	0.0000 ppm	31.5913 ppm
Concentration RSD	35.2 %	114.9 %	24.7 %	1.6 %	1.0 %	87.1 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	0.0002 ppm	0.0012 ppm	0.0007 ppm	0.0500 ppm	1.5300 ppm	0.0008 ppm
Concentration per Run 1	-0.0001 ppm	0.0003 ppm	0.0012 ppm	0.0006 ppm	0.0513 ppm	1.5347 ppm	0.0008 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0011 ppm	0.0010 ppm	0.0485 ppm	1.5395 ppm	0.0000 ppm
Concentration per Run 3	-0.0001 ppm	0.0002 ppm	0.0014 ppm	0.0005 ppm	0.0501 ppm	1.5158 ppm	0.0016 ppm
Concentration RSD	21.7 %	109.6 %	12.1 %	32.9 %	2.8 %	0.8 %	103.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	5.9204 ppm	0.0115 ppm	0.0002 ppm	12.6099 ppm	0.0042 ppm	0.0008 ppm	-0.0007 ppm
Concentration per Run 1	5.9181 ppm	0.0117 ppm	0.0004 ppm	12.7359 ppm	0.0043 ppm	0.0008 ppm	-0.0008 ppm
Concentration per Run 2	5.9090 ppm	0.0116 ppm	0.0002 ppm	12.6317 ppm	0.0042 ppm	0.0009 ppm	-0.0012 ppm
Concentration per Run 3	5.9343 ppm	0.0112 ppm	0.0002 ppm	12.4620 ppm	0.0041 ppm	0.0008 ppm	-0.0001 ppm
Concentration RSD	0.2 %	2.2 %	51.2 %	1.1 %	3.0 %	6.6 %	76.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0033 ppm	5.3000 ppm	0.0003 ppm	0.1087 ppm	0.0002 ppm	0.0016 ppm	0.0003 ppm
Concentration per Run 1	-0.0035 ppm	5.3079 ppm	0.0001 ppm	0.1100 ppm	0.0003 ppm	0.0029 ppm	0.0002 ppm
Concentration per Run 2	-0.0042 ppm	5.2912 ppm	0.0003 ppm	0.1088 ppm	0.0001 ppm	0.0004 ppm	0.0003 ppm
Concentration per Run 3	-0.0021 ppm	5.3008 ppm	0.0004 ppm	0.1072 ppm	0.0002 ppm	0.0013 ppm	0.0004 ppm
Concentration RSD	31.9 %	0.2 %	55.9 %	1.3 %	35.0 %	80.1 %	34.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0185 ppm	99.3040 %	101.5890 %	104.2822 %	99.8342 %	103.7677 %	102.8797 %
Concentration per Run 1	0.0184 ppm	98.3705 %	101.5737 %	104.2506 %	98.6172 %	103.7527 %	102.9829 %
Concentration per Run 2	0.0185 ppm	99.8060 %	101.6164 %	104.4056 %	100.1521 %	103.8136 %	102.7341 %
Concentration per Run 3	0.0185 ppm	99.7354 %	101.5769 %	104.1904 %	100.7334 %	103.7367 %	102.9219 %
Concentration RSD	0.2 %	0.8 %	0.0 %	0.1 %	1.1 %	0.0 %	0.1 %

LabBook: WG2039392_03122025T5.imexp

Sample: L2512368-11 WG2039054
Analysis started at: 3/12/2025 9:37:12 PM
Comments <Comment>
Rack: 2
Vial: 25

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	-0.0010 ppm	-0.0002 ppm	0.0077 ppm	0.0026 ppm	-0.0001 ppm	8.5089 ppm
Concentration per Run 1	0.0000 ppm	-0.0018 ppm	0.0006 ppm	0.0076 ppm	0.0026 ppm	-0.0001 ppm	8.6716 ppm
Concentration per Run 2	-0.0002 ppm	0.0013 ppm	-0.0004 ppm	0.0080 ppm	0.0027 ppm	-0.0001 ppm	8.4160 ppm
Concentration per Run 3	0.0000 ppm	-0.0026 ppm	-0.0010 ppm	0.0076 ppm	0.0026 ppm	-0.0001 ppm	8.4391 ppm
Concentration RSD	217.8 %	199.6 %	312.6 %	2.9 %	1.3 %	18.6 %	1.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0144 ppm	0.9858 ppm	0.9407 ppm	0.0018 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0146 ppm	1.0002 ppm	0.9697 ppm	0.0014 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0006 ppm	0.0144 ppm	0.9791 ppm	0.9213 ppm	0.0020 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0004 ppm	0.0142 ppm	0.9781 ppm	0.9312 ppm	0.0018 ppm
Concentration RSD	480.4 %	84.1 %	37.2 %	1.5 %	1.3 %	2.7 %	18.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	3.3241 ppm	0.0328 ppm	0.0004 ppm	6.0008 ppm	0.0006 ppm	0.0020 ppm	-0.0011 ppm
Concentration per Run 1	3.3226 ppm	0.0333 ppm	0.0004 ppm	6.1404 ppm	0.0006 ppm	0.0020 ppm	-0.0019 ppm
Concentration per Run 2	3.3212 ppm	0.0323 ppm	0.0005 ppm	5.9083 ppm	0.0005 ppm	0.0021 ppm	-0.0007 ppm
Concentration per Run 3	3.3285 ppm	0.0329 ppm	0.0004 ppm	5.9538 ppm	0.0006 ppm	0.0019 ppm	-0.0009 ppm
Concentration RSD	0.1 %	1.5 %	14.2 %	2.0 %	9.9 %	5.0 %	55.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0015 ppm	13.0903 ppm	0.0006 ppm	0.0371 ppm	0.0002 ppm	0.0010 ppm	0.0002 ppm
Concentration per Run 1	-0.0012 ppm	13.1046 ppm	0.0007 ppm	0.0378 ppm	0.0002 ppm	0.0009 ppm	0.0003 ppm
Concentration per Run 2	0.0000 ppm	13.0738 ppm	0.0001 ppm	0.0368 ppm	0.0001 ppm	0.0022 ppm	0.0001 ppm
Concentration per Run 3	-0.0032 ppm	13.0926 ppm	0.0010 ppm	0.0369 ppm	0.0004 ppm	-0.0002 ppm	0.0002 ppm
Concentration RSD	107.8 %	0.1 %	77.8 %	1.5 %	49.5 %	122.1 %	55.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0319 ppm	98.8436 %	103.2869 %	105.4993 %	98.8649 %	106.3351 %	103.9371 %
Concentration per Run 1	0.0320 ppm	97.5166 %	103.1762 %	105.6706 %	96.9819 %	106.2562 %	103.6335 %
Concentration per Run 2	0.0318 ppm	100.0374 %	103.2498 %	105.5119 %	99.8978 %	106.6363 %	104.0038 %
Concentration per Run 3	0.0319 ppm	98.9769 %	103.4347 %	105.3153 %	99.7149 %	106.1129 %	104.1740 %
Concentration RSD	0.3 %	1.3 %	0.1 %	0.2 %	1.7 %	0.3 %	0.3 %

LabBook: WG2039392_03122025T5.imexp

Sample: L2512368-13 WG2039054
Analysis started at: 3/12/2025 9:43:30 PM
Comments <Comment>
Rack: 2
Vial: 26

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0121 ppm	-0.0006 ppm	0.0173 ppm	0.0427 ppm	0.0000 ppm	14.9541 ppm
Concentration per Run 1	0.0003 ppm	0.0096 ppm	0.0001 ppm	0.0174 ppm	0.0435 ppm	-0.0001 ppm	15.2113 ppm
Concentration per Run 2	0.0001 ppm	0.0144 ppm	-0.0010 ppm	0.0174 ppm	0.0427 ppm	0.0000 ppm	14.9695 ppm
Concentration per Run 3	0.0003 ppm	0.0122 ppm	-0.0008 ppm	0.0172 ppm	0.0419 ppm	0.0000 ppm	14.6815 ppm
Concentration RSD	56.7 %	19.9 %	100.2 %	0.6 %	1.8 %	75.9 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0006 ppm	0.0002 ppm	0.0022 ppm	2.0312 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0004 ppm	0.0002 ppm	0.0036 ppm	2.0598 ppm	-0.0002 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0005 ppm	0.0004 ppm	0.0013 ppm	2.0477 ppm	0.0008 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0009 ppm	0.0000 ppm	0.0017 ppm	1.9860 ppm	-0.0003 ppm
Concentration RSD	72.0 %	142.2 %	44.0 %	108.9 %	55.7 %	1.9 %	454.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	4.7366 ppm	0.0026 ppm	0.0002 ppm	11.8038 ppm	0.0005 ppm	0.0011 ppm	-0.0005 ppm
Concentration per Run 1	4.7290 ppm	0.0028 ppm	0.0005 ppm	12.0299 ppm	0.0008 ppm	0.0013 ppm	0.0006 ppm
Concentration per Run 2	4.7537 ppm	0.0025 ppm	0.0001 ppm	11.7976 ppm	0.0004 ppm	0.0006 ppm	-0.0020 ppm
Concentration per Run 3	4.7272 ppm	0.0025 ppm	0.0002 ppm	11.5840 ppm	0.0004 ppm	0.0013 ppm	0.0001 ppm
Concentration RSD	0.3 %	6.8 %	74.5 %	1.9 %	44.0 %	35.0 %	311.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0018 ppm	6.7504 ppm	0.0000 ppm	0.0753 ppm	0.0003 ppm	0.0010 ppm	0.0000 ppm
Concentration per Run 1	-0.0004 ppm	6.7354 ppm	0.0004 ppm	0.0767 ppm	0.0003 ppm	0.0010 ppm	0.0002 ppm
Concentration per Run 2	-0.0020 ppm	6.7709 ppm	-0.0002 ppm	0.0755 ppm	0.0002 ppm	0.0002 ppm	-0.0002 ppm
Concentration per Run 3	-0.0030 ppm	6.7449 ppm	-0.0001 ppm	0.0739 ppm	0.0002 ppm	0.0018 ppm	0.0001 ppm
Concentration RSD	71.6 %	0.3 %	984.2 %	1.9 %	15.1 %	78.7 %	809.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0139 ppm	97.6373 %	102.3889 %	105.1931 %	98.0108 %	104.9343 %	103.6325 %
Concentration per Run 1	0.0139 ppm	96.3604 %	102.4661 %	105.3031 %	96.1628 %	105.1101 %	103.7260 %
Concentration per Run 2	0.0139 ppm	97.9388 %	102.2855 %	105.1057 %	98.1958 %	104.7617 %	103.3431 %
Concentration per Run 3	0.0138 ppm	98.6127 %	102.4152 %	105.1703 %	99.6739 %	104.9311 %	103.8284 %
Concentration RSD	0.3 %	1.2 %	0.1 %	0.1 %	1.8 %	0.2 %	0.2 %

LabBook: WG2039392_03122025T5.imexp

Sample: L2512368-14 WG2039054
Analysis started at: 3/12/2025 9:49:51 PM
Comments <Comment>
Rack: 2
Vial: 27

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	0.0096 ppm	-0.0005 ppm	0.0126 ppm	0.0011 ppm	-0.0001 ppm	30.9701 ppm
Concentration per Run 1	0.0003 ppm	0.0083 ppm	-0.0012 ppm	0.0125 ppm	0.0011 ppm	-0.0001 ppm	30.8018 ppm
Concentration per Run 2	0.0003 ppm	0.0108 ppm	0.0008 ppm	0.0128 ppm	0.0011 ppm	0.0000 ppm	30.9982 ppm
Concentration per Run 3	0.0006 ppm	0.0095 ppm	-0.0011 ppm	0.0125 ppm	0.0010 ppm	-0.0001 ppm	31.1104 ppm
Concentration RSD	43.2 %	12.8 %	221.5 %	1.2 %	3.3 %	36.5 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	-0.0001 ppm	0.0004 ppm	-0.0003 ppm	0.0291 ppm	1.4892 ppm	0.0028 ppm
Concentration per Run 1	-0.0001 ppm	0.0000 ppm	0.0004 ppm	-0.0002 ppm	0.0275 ppm	1.4799 ppm	0.0022 ppm
Concentration per Run 2	-0.0001 ppm	-0.0003 ppm	0.0002 ppm	-0.0003 ppm	0.0299 ppm	1.4946 ppm	0.0029 ppm
Concentration per Run 3	-0.0001 ppm	-0.0001 ppm	0.0006 ppm	-0.0003 ppm	0.0300 ppm	1.4931 ppm	0.0033 ppm
Concentration RSD	39.0 %	88.1 %	41.3 %	29.3 %	4.9 %	0.5 %	20.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	3.9724 ppm	0.0526 ppm	0.0002 ppm	7.5374 ppm	-0.0001 ppm	0.0010 ppm	0.0002 ppm
Concentration per Run 1	3.9744 ppm	0.0524 ppm	0.0003 ppm	7.4830 ppm	-0.0002 ppm	0.0013 ppm	0.0005 ppm
Concentration per Run 2	3.9795 ppm	0.0530 ppm	0.0001 ppm	7.5566 ppm	-0.0002 ppm	0.0010 ppm	0.0000 ppm
Concentration per Run 3	3.9633 ppm	0.0524 ppm	0.0003 ppm	7.5725 ppm	0.0000 ppm	0.0007 ppm	0.0002 ppm
Concentration RSD	0.2 %	0.7 %	62.4 %	0.6 %	124.0 %	28.7 %	102.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0004 ppm	22.1897 [SIC 100]	0.0001 ppm	0.1478 ppm	0.0004 ppm	0.0010 ppm	0.0001 ppm
Concentration per Run 1	0.0007 ppm	22.1682 ppm	0.0007 ppm	0.1472 ppm	0.0005 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 2	-0.0026 ppm	22.1815 ppm	-0.0004 ppm	0.1481 ppm	0.0000 ppm	0.0021 ppm	0.0002 ppm
Concentration per Run 3	0.0031 ppm	22.2193 ppm	0.0000 ppm	0.1479 ppm	0.0006 ppm	0.0008 ppm	0.0002 ppm
Concentration RSD	728.8 %	0.1 %	559.0 %	0.3 %	75.6 %	101.7 %	200.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0147 ppm	103.3785 %	102.3401 %	104.8826 %	104.6209 %	104.2840 %	103.7449 %
Concentration per Run 1	0.0146 ppm	104.0770 %	102.6894 %	104.8343 %	104.9465 %	104.1693 %	103.9383 %
Concentration per Run 2	0.0147 ppm	103.0620 %	101.8760 %	105.1270 %	104.5104 %	104.5164 %	103.3328 %
Concentration per Run 3	0.0148 ppm	102.9966 %	102.4548 %	104.6865 %	104.4058 %	104.1664 %	103.9635 %
Concentration RSD	0.6 %	0.6 %	0.4 %	0.2 %	0.3 %	0.2 %	0.3 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: CCV
Analysis started at: 3/12/2025 9:56:12 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4750 ppm	0.4683 ppm	0.4730 ppm	0.4612 ppm	0.4533 ppm	0.4653 ppm	0.4972 ppm
Concentration per Run 1	0.4754 ppm	0.4579 ppm	0.4730 ppm	0.4606 ppm	0.4387 ppm	0.4506 ppm	0.4871 ppm
Concentration per Run 2	0.4746 ppm	0.4678 ppm	0.4723 ppm	0.4615 ppm	0.4582 ppm	0.4718 ppm	0.5040 ppm
Concentration per Run 3	0.4750 ppm	0.4792 ppm	0.4738 ppm	0.4614 ppm	0.4629 ppm	0.4736 ppm	0.5004 ppm
Recovery Percentage 1	95.005 %	93.658 %	94.608 %	92.239 %	90.652 %	93.065 %	99.433 %
Concentration RSD	0.1 %	2.3 %	0.2 %	0.1 %	2.8 %	2.8 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4849 ppm	0.4905 ppm	0.5086 ppm	0.4919 ppm	0.4906 ppm	4.7247 ppm	0.4520 ppm
Concentration per Run 1	0.4855 ppm	0.4907 ppm	0.5079 ppm	0.4919 ppm	0.4751 ppm	4.5715 ppm	0.4373 ppm
Concentration per Run 2	0.4848 ppm	0.4908 ppm	0.5096 ppm	0.4932 ppm	0.4968 ppm	4.7870 ppm	0.4571 ppm
Concentration per Run 3	0.4843 ppm	0.4899 ppm	0.5082 ppm	0.4906 ppm	0.4999 ppm	4.8158 ppm	0.4616 ppm
Recovery Percentage 1	96.973 %	98.097 %	101.720 %	98.380 %	98.124 %	94.495 %	90.397 %
Concentration RSD	0.1 %	0.1 %	0.2 %	0.3 %	2.8 %	2.8 %	2.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5106 ppm	0.4646 ppm	0.4672 ppm	9.1940 ppm	0.4870 ppm	0.4914 ppm	0.4794 ppm
Concentration per Run 1	0.5104 ppm	0.4497 ppm	0.4661 ppm	8.9261 ppm	0.4869 ppm	0.4906 ppm	0.4788 ppm
Concentration per Run 2	0.5122 ppm	0.4702 ppm	0.4675 ppm	9.2951 ppm	0.4864 ppm	0.4913 ppm	0.4781 ppm
Concentration per Run 3	0.5091 ppm	0.4738 ppm	0.4680 ppm	9.3607 ppm	0.4876 ppm	0.4923 ppm	0.4812 ppm
Recovery Percentage 1	102.119 %	92.916 %	93.445 %	91.940 %	97.394 %	98.279 %	95.875 %
Concentration RSD	0.3 %	2.8 %	0.2 %	2.5 %	0.1 %	0.2 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4754 ppm	5.3553 ppm	0.4802 ppm	0.4524 ppm	0.4941 ppm	0.4904 ppm	0.4937 ppm
Concentration per Run 1	0.4765 ppm	5.3569 ppm	0.4787 ppm	0.4391 ppm	0.4936 ppm	0.4914 ppm	0.4934 ppm
Concentration per Run 2	0.4779 ppm	5.3475 ppm	0.4794 ppm	0.4568 ppm	0.4956 ppm	0.4908 ppm	0.4951 ppm
Concentration per Run 3	0.4717 ppm	5.3614 ppm	0.4825 ppm	0.4613 ppm	0.4929 ppm	0.4891 ppm	0.4925 ppm
Recovery Percentage 1	95.076 %	102.005 %	96.039 %	90.472 %	98.812 %	98.086 %	98.731 %
Concentration RSD	0.7 %	0.1 %	0.4 %	2.6 %	0.3 %	0.2 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4907 ppm	101.8876 %	101.8429 %	104.7076 %	104.1152 %	104.5654 %	103.2495 %
Concentration per Run 1	0.4912 ppm	104.5825 %	101.5705 %	104.5412 %	106.3964 %	104.3967 %	103.0943 %
Concentration per Run 2	0.4904 ppm	100.7792 %	102.1205 %	104.9385 %	103.0815 %	104.7162 %	103.3588 %
Concentration per Run 3	0.4905 ppm	100.3010 %	101.8377 %	104.6431 %	102.8678 %	104.5833 %	103.2955 %
Recovery Percentage 1	98.143 %						
Concentration RSD	0.1 %	2.3 %	0.3 %	0.2 %	1.9 %	0.2 %	0.1 %

LabBook: WG2039392_03122025T5.imexp

Sample: CCB
Analysis started at: 3/12/2025 10:02:20 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	-0.0046 ppm	-0.0006 ppm	0.0012 ppm	0.0002 ppm	0.0000 ppm	0.0066 ppm
Concentration per Run 1	0.0004 ppm	-0.0003 ppm	-0.0011 ppm	0.0013 ppm	0.0001 ppm	0.0001 ppm	0.0052 ppm
Concentration per Run 2	0.0003 ppm	-0.0134 ppm	-0.0009 ppm	0.0013 ppm	0.0002 ppm	0.0000 ppm	0.0040 ppm
Concentration per Run 3	0.0002 ppm	0.0000 ppm	0.0001 ppm	0.0010 ppm	0.0003 ppm	0.0000 ppm	0.0106 ppm
Recovery Percentage 1	4.056 %	-4.576 %	-12.417 %	3.950 %	1.856 %	0.357 %	6.601 %
Concentration RSD	38.5 %	167.4 %	97.6 %	12.5 %	62.0 %	193.0 %	53.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0004 ppm	-0.0004 ppm	0.0018 ppm	-0.0456 ppm	0.0010 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0003 ppm	-0.0005 ppm	0.0019 ppm	-0.0510 ppm	0.0006 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0005 ppm	-0.0003 ppm	0.0020 ppm	-0.0362 ppm	0.0012 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0003 ppm	-0.0003 ppm	0.0014 ppm	-0.0495 ppm	0.0012 ppm
Recovery Percentage 1	1.155 %	0.092 %	3.794 %	-3.586 %	3.564 %	-1.823 %	10.026 %
Concentration RSD	37.4 %	475.7 %	27.9 %	27.2 %	18.1 %	17.8 %	31.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0007 ppm	0.0000 ppm	0.0013 ppm	-0.0123 ppm	0.0000 ppm	-0.0001 ppm	-0.0003 ppm
Concentration per Run 1	-0.0006 ppm	0.0001 ppm	0.0015 ppm	-0.0169 ppm	-0.0004 ppm	-0.0002 ppm	-0.0008 ppm
Concentration per Run 2	0.0012 ppm	0.0000 ppm	0.0015 ppm	-0.0086 ppm	0.0003 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 3	0.0014 ppm	0.0000 ppm	0.0010 ppm	-0.0114 ppm	0.0000 ppm	0.0001 ppm	0.0002 ppm
Recovery Percentage 1	0.677 %	0.408 %	2.665 %	-0.614 %	-0.120 %	-0.572 %	-0.502 %
Concentration RSD	159.3 %	93.5 %	19.6 %	34.6 %	1,041.5 %	318.9 %	198.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0008 ppm	0.0004 ppm	0.0009 ppm	0.0000 ppm	0.0002 ppm	0.0008 ppm	0.0001 ppm
Concentration per Run 1	-0.0015 ppm	0.0006 ppm	0.0007 ppm	0.0000 ppm	0.0001 ppm	0.0007 ppm	0.0000 ppm
Concentration per Run 2	-0.0004 ppm	-0.0002 ppm	0.0014 ppm	-0.0002 ppm	0.0004 ppm	0.0006 ppm	0.0001 ppm
Concentration per Run 3	-0.0006 ppm	0.0007 ppm	0.0006 ppm	0.0001 ppm	0.0002 ppm	0.0010 ppm	0.0002 ppm
Recovery Percentage 1	-7.862 %	0.075 %	1.797 %	-0.032 %	2.059 %	3.906 %	0.969 %
Concentration RSD	74.6 %	142.0 %	47.9 %	4,310.0 %	72.2 %	31.2 %	102.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0007 ppm	102.3256 %	102.9441 %	105.2720 %	102.4831 %	105.5929 %	102.8362 %
Concentration per Run 1	0.0007 ppm	104.1013 %	102.8545 %	105.1615 %	103.7205 %	105.5792 %	102.6221 %
Concentration per Run 2	0.0008 ppm	101.8830 %	102.9361 %	105.4244 %	102.2728 %	105.4822 %	102.9372 %
Concentration per Run 3	0.0007 ppm	100.9925 %	103.0419 %	105.2302 %	101.4559 %	105.7174 %	102.9492 %
Recovery Percentage 1	14.708 %						
Concentration RSD	7.4 %	1.6 %	0.1 %	0.1 %	1.1 %	0.1 %	0.2 %

LabBook: WG2039392_03122025T5.imexp

Sample: L2512368-16 WG2039054
Analysis started at: 3/12/2025 10:08:46 PM
Comments <Comment>
Rack: 2
Vial: 28

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0067 ppm	-0.0003 ppm	0.0157 ppm	0.0446 ppm	0.0000 ppm	21.4937 ppm
Concentration per Run 1	-0.0001 ppm	0.0156 ppm	0.0009 ppm	0.0155 ppm	0.0454 ppm	0.0000 ppm	21.8379 ppm
Concentration per Run 2	0.0006 ppm	-0.0001 ppm	-0.0029 ppm	0.0157 ppm	0.0443 ppm	-0.0001 ppm	21.4977 ppm
Concentration per Run 3	0.0002 ppm	0.0045 ppm	0.0012 ppm	0.0159 ppm	0.0441 ppm	0.0000 ppm	21.1454 ppm
Concentration RSD	128.7 %	121.1 %	871.7 %	1.4 %	1.6 %	218.2 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0007 ppm	0.0113 ppm	0.0018 ppm	2.0144 ppm	-0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0008 ppm	0.0112 ppm	0.0021 ppm	2.0803 ppm	-0.0001 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0006 ppm	0.0112 ppm	0.0013 ppm	2.0056 ppm	-0.0003 ppm
Concentration per Run 3	-0.0001 ppm	0.0000 ppm	0.0006 ppm	0.0115 ppm	0.0020 ppm	1.9573 ppm	0.0000 ppm
Concentration RSD	121.5 %	2,514.0 %	17.1 %	1.5 %	26.5 %	3.1 %	91.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	6.2669 ppm	0.0032 ppm	0.0001 ppm	11.2339 ppm	0.0009 ppm	0.0016 ppm	-0.0010 ppm
Concentration per Run 1	6.2882 ppm	0.0035 ppm	0.0002 ppm	11.4260 ppm	0.0009 ppm	0.0021 ppm	-0.0024 ppm
Concentration per Run 2	6.2601 ppm	0.0032 ppm	0.0002 ppm	11.2288 ppm	0.0008 ppm	0.0013 ppm	-0.0008 ppm
Concentration per Run 3	6.2522 ppm	0.0031 ppm	0.0000 ppm	11.0469 ppm	0.0010 ppm	0.0013 ppm	0.0003 ppm
Concentration RSD	0.3 %	7.1 %	62.2 %	1.7 %	8.0 %	29.1 %	137.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0003 ppm	8.0504 ppm	0.0005 ppm	0.0951 ppm	0.0003 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 1	-0.0017 ppm	8.0667 ppm	0.0009 ppm	0.0969 ppm	0.0002 ppm	-0.0012 ppm	0.0002 ppm
Concentration per Run 2	0.0010 ppm	8.0484 ppm	0.0003 ppm	0.0949 ppm	0.0003 ppm	0.0003 ppm	0.0002 ppm
Concentration per Run 3	-0.0003 ppm	8.0360 ppm	0.0003 ppm	0.0934 ppm	0.0004 ppm	0.0007 ppm	0.0003 ppm
Concentration RSD	415.0 %	0.2 %	73.6 %	1.8 %	18.8 %	1,781.5 %	39.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0354 ppm	96.5729 %	102.2442 %	105.2005 %	97.0241 %	104.6539 %	103.2688 %
Concentration per Run 1	0.0355 ppm	95.4038 %	101.8648 %	105.3415 %	95.6104 %	104.5002 %	102.8601 %
Concentration per Run 2	0.0352 ppm	96.3509 %	102.4648 %	105.0437 %	96.9512 %	104.7207 %	103.4110 %
Concentration per Run 3	0.0354 ppm	97.9640 %	102.4030 %	105.2163 %	98.5108 %	104.7407 %	103.5354 %
Concentration RSD	0.5 %	1.3 %	0.3 %	0.1 %	1.5 %	0.1 %	0.3 %

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3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: L2512368-17 WG2039054
Analysis started at: 3/12/2025 10:15:05 PM
Comments <Comment>
Rack: 2
Vial: 29

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	0.0028 ppm	-0.0009 ppm	0.0132 ppm	0.0227 ppm	0.0000 ppm	13.9469 ppm
Concentration per Run 1	0.0002 ppm	0.0073 ppm	-0.0018 ppm	0.0133 ppm	0.0226 ppm	0.0000 ppm	13.8209 ppm
Concentration per Run 2	0.0008 ppm	0.0002 ppm	0.0004 ppm	0.0133 ppm	0.0227 ppm	0.0000 ppm	13.9862 ppm
Concentration per Run 3	0.0003 ppm	0.0009 ppm	-0.0012 ppm	0.0131 ppm	0.0229 ppm	0.0000 ppm	14.0336 ppm
Concentration RSD	63.2 %	141.4 %	129.4 %	0.8 %	0.7 %	320.6 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0001 ppm	0.0034 ppm	0.0011 ppm	0.0104 ppm	0.3252 ppm	1.1105 ppm	0.0034 ppm
Concentration per Run 1	0.0000 ppm	0.0035 ppm	0.0011 ppm	0.0105 ppm	0.3226 ppm	1.0797 ppm	0.0025 ppm
Concentration per Run 2	0.0001 ppm	0.0034 ppm	0.0009 ppm	0.0105 ppm	0.3251 ppm	1.1239 ppm	0.0044 ppm
Concentration per Run 3	0.0001 ppm	0.0033 ppm	0.0013 ppm	0.0103 ppm	0.3280 ppm	1.1279 ppm	0.0035 ppm
Concentration RSD	35.8 %	2.1 %	19.2 %	1.0 %	0.8 %	2.4 %	28.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	6.4170 ppm	0.0262 ppm	0.0001 ppm	13.2718 ppm	0.0054 ppm	0.0013 ppm	-0.0003 ppm
Concentration per Run 1	6.4185 ppm	0.0264 ppm	0.0000 ppm	13.1375 ppm	0.0057 ppm	0.0009 ppm	0.0006 ppm
Concentration per Run 2	6.4209 ppm	0.0260 ppm	0.0003 ppm	13.3138 ppm	0.0054 ppm	0.0022 ppm	-0.0008 ppm
Concentration per Run 3	6.4117 ppm	0.0263 ppm	0.0001 ppm	13.3642 ppm	0.0052 ppm	0.0008 ppm	-0.0007 ppm
Concentration RSD	0.1 %	0.6 %	78.9 %	0.9 %	4.4 %	58.8 %	265.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0037 ppm	11.0517 ppm	0.0003 ppm	0.0701 ppm	0.0002 ppm	0.0005 ppm	0.0000 ppm
Concentration per Run 1	-0.0048 ppm	11.0812 ppm	0.0004 ppm	0.0694 ppm	0.0001 ppm	0.0003 ppm	-0.0002 ppm
Concentration per Run 2	0.0004 ppm	11.0346 ppm	0.0000 ppm	0.0702 ppm	0.0002 ppm	0.0005 ppm	0.0000 ppm
Concentration per Run 3	-0.0067 ppm	11.0394 ppm	0.0005 ppm	0.0706 ppm	0.0004 ppm	0.0007 ppm	0.0001 ppm
Concentration RSD	100.5 %	0.2 %	82.6 %	0.9 %	64.9 %	41.0 %	437.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0403 ppm	104.7326 %	102.7847 %	104.8707 %	104.8463 %	104.9905 %	104.2076 %
Concentration per Run 1	0.0402 ppm	105.9607 %	102.6958 %	105.0760 %	105.3994 %	104.9225 %	104.1388 %
Concentration per Run 2	0.0403 ppm	104.2277 %	102.6582 %	104.6630 %	104.7175 %	105.1688 %	104.1210 %
Concentration per Run 3	0.0403 ppm	104.0094 %	103.0002 %	104.8730 %	104.4220 %	104.8801 %	104.3629 %
Concentration RSD	0.1 %	1.0 %	0.2 %	0.2 %	0.5 %	0.1 %	0.1 %

LabBook: WG2039392_03122025T5.imexp

Sample: L2512368-19 WG2039054
Analysis started at: 3/12/2025 10:21:25 PM
Comments <Comment>
Rack: 2
Vial: 30

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0077 ppm	-0.0002 ppm	0.0150 ppm	0.0409 ppm	0.0000 ppm	19.9240 ppm
Concentration per Run 1	0.0002 ppm	0.0111 ppm	-0.0008 ppm	0.0148 ppm	0.0402 ppm	-0.0001 ppm	19.6094 ppm
Concentration per Run 2	0.0000 ppm	0.0061 ppm	0.0000 ppm	0.0154 ppm	0.0410 ppm	0.0000 ppm	20.0383 ppm
Concentration per Run 3	0.0002 ppm	0.0060 ppm	0.0001 ppm	0.0148 ppm	0.0415 ppm	0.0000 ppm	20.1243 ppm
Concentration RSD	66.9 %	37.7 %	213.4 %	2.2 %	1.6 %	107.8 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0008 ppm	0.0002 ppm	0.0012 ppm	1.8419 ppm	0.0006 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0008 ppm	0.0002 ppm	0.0015 ppm	1.8047 ppm	0.0012 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0005 ppm	0.0000 ppm	0.0011 ppm	1.8562 ppm	-0.0001 ppm
Concentration per Run 3	-0.0001 ppm	0.0000 ppm	0.0010 ppm	0.0004 ppm	0.0011 ppm	1.8649 ppm	0.0007 ppm
Concentration RSD	24.8 %	71.6 %	27.9 %	88.7 %	19.1 %	1.8 %	103.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	6.2873 ppm	0.0025 ppm	0.0001 ppm	10.4808 ppm	0.0006 ppm	0.0011 ppm	-0.0001 ppm
Concentration per Run 1	6.2822 ppm	0.0025 ppm	0.0004 ppm	10.3333 ppm	0.0008 ppm	0.0012 ppm	-0.0007 ppm
Concentration per Run 2	6.3030 ppm	0.0025 ppm	0.0000 ppm	10.5045 ppm	0.0007 ppm	0.0009 ppm	0.0007 ppm
Concentration per Run 3	6.2767 ppm	0.0026 ppm	0.0000 ppm	10.6045 ppm	0.0004 ppm	0.0012 ppm	-0.0002 ppm
Concentration RSD	0.2 %	1.5 %	172.7 %	1.3 %	29.4 %	16.3 %	1,383.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0012 ppm	8.0708 ppm	-0.0001 ppm	0.0881 ppm	0.0003 ppm	0.0007 ppm	0.0002 ppm
Concentration per Run 1	-0.0016 ppm	8.0791 ppm	-0.0001 ppm	0.0874 ppm	0.0003 ppm	0.0017 ppm	0.0004 ppm
Concentration per Run 2	-0.0006 ppm	8.0636 ppm	-0.0003 ppm	0.0881 ppm	0.0007 ppm	0.0014 ppm	-0.0001 ppm
Concentration per Run 3	-0.0015 ppm	8.0697 ppm	0.0003 ppm	0.0889 ppm	0.0001 ppm	-0.0010 ppm	0.0004 ppm
Concentration RSD	41.1 %	0.1 %	521.5 %	0.9 %	91.7 %	210.2 %	108.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0157 ppm	104.5824 %	102.9643 %	104.9880 %	104.8471 %	104.9397 %	103.9395 %
Concentration per Run 1	0.0157 ppm	107.3102 %	102.9640 %	105.0763 %	106.8916 %	105.0063 %	104.0342 %
Concentration per Run 2	0.0157 ppm	103.5058 %	102.8688 %	104.9802 %	103.9971 %	104.9602 %	103.7476 %
Concentration per Run 3	0.0157 ppm	102.9311 %	103.0601 %	104.9077 %	103.6527 %	104.8525 %	104.0366 %
Concentration RSD	0.2 %	2.3 %	0.1 %	0.1 %	1.7 %	0.1 %	0.2 %

LabBook: WG2039392_03122025T5.imexp

Sample: L2512607-01 WG2039054
Analysis started at: 3/12/2025 10:27:45 PM
Comments <Comment>
Rack: 2
Vial: 31

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0023 ppm	-0.0011 ppm	0.0409 ppm	0.0502 ppm	0.0000 ppm	15.4639 ppm
Concentration per Run 1	0.0003 ppm	0.0030 ppm	-0.0011 ppm	0.0408 ppm	0.0513 ppm	0.0000 ppm	15.7875 ppm
Concentration per Run 2	0.0001 ppm	0.0046 ppm	-0.0013 ppm	0.0409 ppm	0.0505 ppm	-0.0001 ppm	15.5031 ppm
Concentration per Run 3	0.0001 ppm	-0.0007 ppm	-0.0009 ppm	0.0409 ppm	0.0488 ppm	0.0000 ppm	15.1013 ppm
Concentration RSD	55.3 %	119.6 %	19.3 %	0.2 %	2.5 %	92.5 %	2.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0006 ppm	0.0007 ppm	0.0001 ppm	0.0057 ppm	1.6539 ppm	0.0004 ppm
Concentration per Run 1	0.0000 ppm	0.0007 ppm	0.0009 ppm	0.0002 ppm	0.0068 ppm	1.6915 ppm	0.0020 ppm
Concentration per Run 2	0.0000 ppm	0.0005 ppm	0.0007 ppm	0.0000 ppm	0.0043 ppm	1.6627 ppm	0.0004 ppm
Concentration per Run 3	0.0000 ppm	0.0006 ppm	0.0004 ppm	0.0000 ppm	0.0062 ppm	1.6076 ppm	-0.0013 ppm
Concentration RSD	12.5 %	21.8 %	40.7 %	194.1 %	22.7 %	2.6 %	464.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	4.9280 ppm	0.0024 ppm	0.0002 ppm	55.7557 ppm	0.0000 ppm	0.0005 ppm	-0.0007 ppm
Concentration per Run 1	4.9254 ppm	0.0024 ppm	0.0003 ppm	56.9491 ppm	0.0000 ppm	0.0006 ppm	-0.0008 ppm
Concentration per Run 2	4.9367 ppm	0.0023 ppm	0.0002 ppm	55.9831 ppm	-0.0001 ppm	0.0004 ppm	-0.0006 ppm
Concentration per Run 3	4.9219 ppm	0.0026 ppm	0.0001 ppm	54.3348 ppm	0.0001 ppm	0.0006 ppm	-0.0009 ppm
Concentration RSD	0.2 %	5.2 %	35.8 %	2.4 %	404.1 %	25.4 %	21.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0005 ppm	3.4794 ppm	0.0001 ppm	0.0644 ppm	0.0002 ppm	0.0006 ppm	0.0003 ppm
Concentration per Run 1	0.0003 ppm	3.4741 ppm	0.0008 ppm	0.0659 ppm	0.0000 ppm	0.0014 ppm	0.0002 ppm
Concentration per Run 2	0.0002 ppm	3.4825 ppm	-0.0004 ppm	0.0644 ppm	0.0004 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 3	0.0011 ppm	3.4816 ppm	0.0000 ppm	0.0629 ppm	0.0001 ppm	0.0004 ppm	0.0003 ppm
Concentration RSD	97.8 %	0.1 %	485.7 %	2.3 %	139.1 %	119.2 %	14.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0021 ppm	97.6151 %	101.4567 %	103.3285 %	97.7645 %	102.8891 %	103.0548 %
Concentration per Run 1	0.0022 ppm	96.1693 %	101.5882 %	103.2079 %	95.8944 %	103.0232 %	103.0362 %
Concentration per Run 2	0.0020 ppm	97.2330 %	101.0812 %	103.3122 %	97.5129 %	102.8392 %	102.7562 %
Concentration per Run 3	0.0021 ppm	99.4429 %	101.7007 %	103.4654 %	99.8861 %	102.8048 %	103.3719 %
Concentration RSD	5.9 %	1.7 %	0.3 %	0.1 %	2.1 %	0.1 %	0.3 %

LabBook: WG2039392_03122025T5.imexp

Sample: L2512607-02 WG2039054
Analysis started at: 3/12/2025 10:34:06 PM
Comments <Comment>
Rack: 2
Vial: 32

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0079 ppm	-0.0017 ppm	0.0065 ppm	0.0137 ppm	0.0000 ppm	11.3732 ppm
Concentration per Run 1	0.0004 ppm	0.0086 ppm	-0.0014 ppm	0.0066 ppm	0.0139 ppm	0.0000 ppm	11.5395 ppm
Concentration per Run 2	0.0003 ppm	0.0099 ppm	-0.0029 ppm	0.0065 ppm	0.0138 ppm	0.0000 ppm	11.4652 ppm
Concentration per Run 3	0.0004 ppm	0.0053 ppm	-0.0007 ppm	0.0064 ppm	0.0135 ppm	0.0000 ppm	11.1147 ppm
Concentration RSD	19.4 %	30.1 %	68.0 %	1.2 %	1.5 %	139.8 %	2.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0001 ppm	0.0002 ppm	0.0032 ppm	0.0006 ppm	0.0103 ppm	0.8597 ppm	0.0031 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0032 ppm	0.0008 ppm	0.0116 ppm	0.8625 ppm	0.0039 ppm
Concentration per Run 2	0.0001 ppm	0.0002 ppm	0.0031 ppm	0.0005 ppm	0.0102 ppm	0.8813 ppm	0.0031 ppm
Concentration per Run 3	0.0001 ppm	0.0002 ppm	0.0033 ppm	0.0006 ppm	0.0092 ppm	0.8354 ppm	0.0023 ppm
Concentration RSD	14.0 %	12.6 %	2.8 %	27.4 %	11.6 %	2.7 %	25.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	5.2216 ppm	0.0008 ppm	0.0003 ppm	7.4688 ppm	0.0012 ppm	0.0006 ppm	-0.0006 ppm
Concentration per Run 1	5.2068 ppm	0.0010 ppm	0.0003 ppm	7.5685 ppm	0.0013 ppm	0.0005 ppm	-0.0008 ppm
Concentration per Run 2	5.2161 ppm	0.0006 ppm	0.0003 ppm	7.5100 ppm	0.0013 ppm	0.0004 ppm	-0.0007 ppm
Concentration per Run 3	5.2419 ppm	0.0007 ppm	0.0004 ppm	7.3278 ppm	0.0011 ppm	0.0010 ppm	-0.0004 ppm
Concentration RSD	0.3 %	30.1 %	9.7 %	1.7 %	9.1 %	51.5 %	35.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0020 ppm	9.6786 ppm	0.0001 ppm	0.0510 ppm	0.0001 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 1	-0.0033 ppm	9.6827 ppm	-0.0002 ppm	0.0516 ppm	0.0000 ppm	-0.0005 ppm	0.0002 ppm
Concentration per Run 2	-0.0008 ppm	9.6732 ppm	0.0001 ppm	0.0515 ppm	0.0004 ppm	-0.0004 ppm	0.0003 ppm
Concentration per Run 3	-0.0021 ppm	9.6799 ppm	0.0005 ppm	0.0500 ppm	-0.0001 ppm	0.0013 ppm	0.0002 ppm
Concentration RSD	62.8 %	0.1 %	226.9 %	1.8 %	225.9 %	773.3 %	24.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0046 ppm	98.8603 %	103.3826 %	105.2651 %	98.8552 %	105.6277 %	104.5233 %
Concentration per Run 1	0.0047 ppm	98.0383 %	103.6362 %	105.2975 %	97.4165 %	105.6369 %	104.9391 %
Concentration per Run 2	0.0046 ppm	97.9883 %	103.2145 %	105.3540 %	98.0645 %	105.7593 %	104.3586 %
Concentration per Run 3	0.0045 ppm	100.5543 %	103.2970 %	105.1438 %	101.0845 %	105.4869 %	104.2722 %
Concentration RSD	1.5 %	1.5 %	0.2 %	0.1 %	2.0 %	0.1 %	0.3 %

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Sample: L2512607-03 WG2039054
Analysis started at: 3/12/2025 10:40:27 PM
Comments <Comment>
Rack: 2
Vial: 33

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	0.0034 ppm	-0.0008 ppm	0.0178 ppm	0.0562 ppm	-0.0001 ppm	5.5241 ppm
Concentration per Run 1	0.0004 ppm	0.0002 ppm	-0.0015 ppm	0.0178 ppm	0.0544 ppm	-0.0001 ppm	5.3334 ppm
Concentration per Run 2	0.0005 ppm	0.0127 ppm	0.0011 ppm	0.0177 ppm	0.0566 ppm	-0.0001 ppm	5.5825 ppm
Concentration per Run 3	0.0002 ppm	-0.0025 ppm	-0.0019 ppm	0.0179 ppm	0.0576 ppm	0.0000 ppm	5.6563 ppm
Concentration RSD	43.7 %	235.6 %	207.3 %	0.4 %	3.0 %	42.7 %	3.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0001 ppm	0.0001 ppm	0.0007 ppm	0.0001 ppm	0.0067 ppm	1.1263 ppm	0.0007 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0007 ppm	0.0001 ppm	0.0073 ppm	1.0702 ppm	0.0011 ppm
Concentration per Run 2	0.0001 ppm	0.0001 ppm	0.0008 ppm	0.0000 ppm	0.0072 ppm	1.1451 ppm	0.0002 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0005 ppm	0.0001 ppm	0.0055 ppm	1.1636 ppm	0.0009 ppm
Concentration RSD	28.4 %	31.4 %	22.1 %	105.2 %	15.2 %	4.4 %	58.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	2.0576 ppm	0.0166 ppm	0.0002 ppm	69.2256 ppm	-0.0001 ppm	0.0001 ppm	-0.0007 ppm
Concentration per Run 1	2.0553 ppm	0.0159 ppm	0.0002 ppm	67.0497 ppm	0.0001 ppm	-0.0001 ppm	-0.0014 ppm
Concentration per Run 2	2.0553 ppm	0.0170 ppm	0.0003 ppm	69.9371 ppm	-0.0001 ppm	0.0001 ppm	-0.0007 ppm
Concentration per Run 3	2.0624 ppm	0.0170 ppm	0.0003 ppm	70.6900 ppm	-0.0003 ppm	0.0003 ppm	0.0000 ppm
Concentration RSD	0.2 %	3.7 %	23.8 %	2.8 %	165.9 %	156.5 %	101.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0000 ppm	4.8450 ppm	0.0003 ppm	0.0287 ppm	0.0000 ppm	0.0011 ppm	0.0002 ppm
Concentration per Run 1	-0.0001 ppm	4.8408 ppm	0.0002 ppm	0.0278 ppm	0.0002 ppm	0.0011 ppm	0.0000 ppm
Concentration per Run 2	0.0013 ppm	4.8421 ppm	0.0003 ppm	0.0291 ppm	0.0000 ppm	0.0018 ppm	0.0003 ppm
Concentration per Run 3	-0.0012 ppm	4.8521 ppm	0.0003 ppm	0.0293 ppm	-0.0001 ppm	0.0004 ppm	0.0003 ppm
Concentration RSD	4,556.1 %	0.1 %	28.3 %	2.8 %	496.9 %	66.4 %	90.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0008 ppm	105.6506 %	100.9063 %	103.3040 %	105.7958 %	102.2865 %	102.6330 %
Concentration per Run 1	0.0008 ppm	109.0728 %	101.2136 %	103.3029 %	108.4194 %	102.5775 %	102.8450 %
Concentration per Run 2	0.0008 ppm	104.5677 %	100.6459 %	103.3174 %	104.6921 %	102.0647 %	102.4830 %
Concentration per Run 3	0.0009 ppm	103.3112 %	100.8595 %	103.2916 %	104.2759 %	102.2174 %	102.5709 %
Concentration RSD	3.8 %	2.9 %	0.3 %	0.0 %	2.2 %	0.3 %	0.2 %

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Sample: L2512607-04 WG2039054
Analysis started at: 3/12/2025 10:46:48 PM
Comments <Comment>
Rack: 2
Vial: 34

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0057 ppm	0.0005 ppm	0.0133 ppm	0.0351 ppm	0.0000 ppm	13.3615 ppm
Concentration per Run 1	0.0001 ppm	0.0032 ppm	0.0004 ppm	0.0133 ppm	0.0354 ppm	0.0000 ppm	13.5751 ppm
Concentration per Run 2	0.0001 ppm	0.0086 ppm	0.0002 ppm	0.0132 ppm	0.0351 ppm	0.0000 ppm	13.3153 ppm
Concentration per Run 3	0.0007 ppm	0.0054 ppm	0.0011 ppm	0.0134 ppm	0.0347 ppm	0.0000 ppm	13.1940 ppm
Concentration RSD	104.7 %	46.9 %	93.6 %	0.6 %	1.1 %	34.3 %	1.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0003 ppm	0.0038 ppm	0.0012 ppm	0.0081 ppm	1.0297 ppm	0.0031 ppm
Concentration per Run 1	0.0000 ppm	0.0004 ppm	0.0039 ppm	0.0014 ppm	0.0076 ppm	1.0529 ppm	0.0027 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	0.0038 ppm	0.0012 ppm	0.0085 ppm	1.0170 ppm	0.0035 ppm
Concentration per Run 3	0.0000 ppm	0.0004 ppm	0.0037 ppm	0.0011 ppm	0.0082 ppm	1.0192 ppm	0.0030 ppm
Concentration RSD	22.0 %	11.8 %	1.7 %	12.4 %	5.3 %	2.0 %	11.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	5.3684 ppm	0.0011 ppm	0.0003 ppm	13.2368 ppm	0.0039 ppm	0.0008 ppm	-0.0005 ppm
Concentration per Run 1	5.3675 ppm	0.0012 ppm	0.0004 ppm	13.4314 ppm	0.0041 ppm	0.0014 ppm	-0.0011 ppm
Concentration per Run 2	5.3584 ppm	0.0011 ppm	0.0003 ppm	13.2307 ppm	0.0038 ppm	0.0006 ppm	-0.0005 ppm
Concentration per Run 3	5.3793 ppm	0.0010 ppm	0.0003 ppm	13.0484 ppm	0.0039 ppm	0.0004 ppm	0.0000 ppm
Concentration RSD	0.2 %	10.6 %	12.5 %	1.4 %	3.9 %	64.9 %	104.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0011 ppm	9.4661 ppm	-0.0001 ppm	0.0765 ppm	0.0001 ppm	0.0007 ppm	0.0004 ppm
Concentration per Run 1	0.0022 ppm	9.4651 ppm	-0.0002 ppm	0.0774 ppm	0.0002 ppm	0.0011 ppm	0.0004 ppm
Concentration per Run 2	-0.0022 ppm	9.4624 ppm	0.0000 ppm	0.0767 ppm	0.0002 ppm	0.0008 ppm	0.0005 ppm
Concentration per Run 3	-0.0032 ppm	9.4709 ppm	-0.0002 ppm	0.0755 ppm	-0.0001 ppm	0.0001 ppm	0.0002 ppm
Concentration RSD	270.4 %	0.0 %	134.6 %	1.3 %	166.9 %	76.7 %	43.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0118 ppm	99.3156 %	102.8704 %	104.9233 %	99.5261 %	104.9628 %	104.1762 %
Concentration per Run 1	0.0119 ppm	98.2378 %	103.0395 %	104.9249 %	97.9968 %	105.0790 %	104.5630 %
Concentration per Run 2	0.0118 ppm	99.3543 %	102.7922 %	104.9115 %	99.9780 %	104.8396 %	104.1653 %
Concentration per Run 3	0.0118 ppm	100.3548 %	102.7795 %	104.9336 %	100.6034 %	104.9700 %	103.8003 %
Concentration RSD	0.4 %	1.1 %	0.1 %	0.0 %	1.4 %	0.1 %	0.4 %

LabBook: WG2039392_03122025T5.imexp

Sample: L2512607-05 WG2039054
Analysis started at: 3/12/2025 10:53:10 PM
Comments <Comment>
Rack: 2
Vial: 35

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0054 ppm	-0.0010 ppm	0.0242 ppm	0.0147 ppm	0.0000 ppm	13.4622 ppm
Concentration per Run 1	0.0005 ppm	0.0054 ppm	-0.0018 ppm	0.0240 ppm	0.0156 ppm	0.0000 ppm	14.4340 ppm
Concentration per Run 2	0.0002 ppm	0.0074 ppm	-0.0012 ppm	0.0244 ppm	0.0154 ppm	-0.0001 ppm	14.1137 ppm
Concentration per Run 3	0.0002 ppm	0.0033 ppm	0.0000 ppm	0.0240 ppm	0.0130 ppm	0.0000 ppm	11.8388 ppm
Concentration RSD	46.9 %	38.4 %	90.4 %	0.9 %	10.1 %	159.1 %	10.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0024 ppm	0.0000 ppm	0.0096 ppm	1.3451 ppm	0.0016 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0024 ppm	0.0001 ppm	0.0099 ppm	1.4499 ppm	0.0017 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0025 ppm	-0.0002 ppm	0.0101 ppm	1.4179 ppm	0.0025 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0022 ppm	0.0001 ppm	0.0088 ppm	1.1674 ppm	0.0007 ppm
Concentration RSD	39.5 %	110.6 %	6.6 %	1,058.3 %	7.2 %	11.5 %	57.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	6.1431 ppm	0.0005 ppm	0.0003 ppm	20.4260 ppm	0.0008 ppm	0.0004 ppm	-0.0006 ppm
Concentration per Run 1	6.1458 ppm	0.0007 ppm	0.0003 ppm	21.8982 ppm	0.0007 ppm	0.0005 ppm	-0.0004 ppm
Concentration per Run 2	6.1521 ppm	0.0004 ppm	0.0002 ppm	21.3966 ppm	0.0008 ppm	0.0006 ppm	-0.0006 ppm
Concentration per Run 3	6.1313 ppm	0.0005 ppm	0.0003 ppm	17.9833 ppm	0.0007 ppm	0.0002 ppm	-0.0007 ppm
Concentration RSD	0.2 %	28.5 %	17.8 %	10.4 %	5.0 %	47.5 %	32.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0007 ppm	8.2680 ppm	0.0005 ppm	0.0718 ppm	0.0003 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 1	-0.0007 ppm	8.2606 ppm	0.0006 ppm	0.0769 ppm	0.0002 ppm	-0.0001 ppm	-0.0002 ppm
Concentration per Run 2	-0.0016 ppm	8.2805 ppm	0.0005 ppm	0.0753 ppm	0.0005 ppm	0.0005 ppm	0.0001 ppm
Concentration per Run 3	0.0002 ppm	8.2629 ppm	0.0004 ppm	0.0634 ppm	0.0003 ppm	0.0007 ppm	0.0002 ppm
Concentration RSD	123.0 %	0.1 %	27.8 %	10.2 %	49.0 %	116.3 %	391.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0013 ppm	104.2980 %	102.6687 %	104.5134 %	105.0539 %	104.5533 %	103.8763 %
Concentration per Run 1	0.0013 ppm	97.0691 %	102.5633 %	104.4531 %	97.6934 %	104.6766 %	103.7433 %
Concentration per Run 2	0.0013 ppm	99.1690 %	102.6356 %	104.6653 %	100.3637 %	104.3811 %	103.8571 %
Concentration per Run 3	0.0013 ppm	116.6559 %	102.8073 %	104.4219 %	117.1045 %	104.6023 %	104.0286 %
Concentration RSD	0.7 %	10.3 %	0.1 %	0.1 %	10.0 %	0.1 %	0.1 %

LabBook: WG2039392_03122025T5.imexp

Sample: L2512607-06 WG2039054
Analysis started at: 3/12/2025 10:59:31 PM
Comments <Comment>
Rack: 2
Vial: 36

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.2198 ppm	-0.0009 ppm	0.0012 ppm	0.0026 ppm	0.0000 ppm	0.1020 ppm
Concentration per Run 1	0.0005 ppm	0.2253 ppm	-0.0009 ppm	0.0009 ppm	0.0027 ppm	0.0000 ppm	0.1023 ppm
Concentration per Run 2	0.0002 ppm	0.2156 ppm	-0.0009 ppm	0.0014 ppm	0.0025 ppm	0.0000 ppm	0.1019 ppm
Concentration per Run 3	0.0000 ppm	0.2186 ppm	-0.0011 ppm	0.0012 ppm	0.0025 ppm	0.0000 ppm	0.1018 ppm
Concentration RSD	110.5 %	2.3 %	11.8 %	20.2 %	3.4 %	81.5 %	0.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0004 ppm	0.0042 ppm	0.2743 ppm	0.0159 ppm	-0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0043 ppm	0.2766 ppm	0.0098 ppm	-0.0002 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0004 ppm	0.0040 ppm	0.2754 ppm	0.0305 ppm	-0.0001 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0008 ppm	0.0042 ppm	0.2708 ppm	0.0073 ppm	-0.0002 ppm
Concentration RSD	64.0 %	30.0 %	88.7 %	3.0 %	1.1 %	80.0 %	48.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0643 ppm	0.0126 ppm	0.0003 ppm	0.0043 ppm	0.0003 ppm	0.0020 ppm	-0.0017 ppm
Concentration per Run 1	0.0635 ppm	0.0126 ppm	0.0001 ppm	0.0034 ppm	0.0002 ppm	0.0022 ppm	-0.0026 ppm
Concentration per Run 2	0.0646 ppm	0.0124 ppm	0.0002 ppm	0.0035 ppm	0.0006 ppm	0.0015 ppm	-0.0010 ppm
Concentration per Run 3	0.0647 ppm	0.0127 ppm	0.0004 ppm	0.0060 ppm	0.0001 ppm	0.0023 ppm	-0.0015 ppm
Concentration RSD	1.1 %	1.2 %	56.1 %	33.8 %	92.9 %	21.1 %	49.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0013 ppm	0.2125 ppm	0.0004 ppm	0.0008 ppm	0.0113 ppm	0.0006 ppm	0.0003 ppm
Concentration per Run 1	-0.0015 ppm	0.2128 ppm	0.0001 ppm	0.0008 ppm	0.0114 ppm	0.0006 ppm	0.0002 ppm
Concentration per Run 2	-0.0022 ppm	0.2126 ppm	0.0008 ppm	0.0009 ppm	0.0113 ppm	0.0009 ppm	0.0003 ppm
Concentration per Run 3	-0.0003 ppm	0.2122 ppm	0.0002 ppm	0.0007 ppm	0.0113 ppm	0.0001 ppm	0.0005 ppm
Concentration RSD	70.2 %	0.1 %	112.3 %	10.0 %	0.4 %	73.6 %	50.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0040 ppm	100.9953 %	104.7371 %	106.7298 %	100.8248 %	107.3349 %	105.3889 %
Concentration per Run 1	0.0040 ppm	100.0648 %	104.8619 %	106.8165 %	99.1147 %	107.4738 %	105.3253 %
Concentration per Run 2	0.0041 ppm	101.1690 %	104.9528 %	106.7017 %	101.0003 %	107.4164 %	105.6296 %
Concentration per Run 3	0.0041 ppm	101.7520 %	104.3967 %	106.6713 %	102.3595 %	107.1144 %	105.2118 %
Concentration RSD	0.8 %	0.8 %	0.3 %	0.1 %	1.6 %	0.2 %	0.2 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: CCV
Analysis started at: 3/12/2025 11:05:56 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4708 ppm	0.4599 ppm	0.4673 ppm	0.4582 ppm	0.4479 ppm	0.4624 ppm	0.4796 ppm
Concentration per Run 1	0.4708 ppm	0.4537 ppm	0.4685 ppm	0.4590 ppm	0.4417 ppm	0.4567 ppm	0.4685 ppm
Concentration per Run 2	0.4709 ppm	0.4548 ppm	0.4665 ppm	0.4565 ppm	0.4475 ppm	0.4625 ppm	0.4777 ppm
Concentration per Run 3	0.4706 ppm	0.4712 ppm	0.4668 ppm	0.4590 ppm	0.4544 ppm	0.4681 ppm	0.4927 ppm
Recovery Percentage 1	94.152 %	91.975 %	93.451 %	91.640 %	89.571 %	92.480 %	95.926 %
Concentration RSD	0.0 %	2.1 %	0.2 %	0.3 %	1.4 %	1.2 %	2.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4802 ppm	0.4851 ppm	0.5022 ppm	0.4867 ppm	0.4844 ppm	4.6955 ppm	0.4472 ppm
Concentration per Run 1	0.4824 ppm	0.4874 ppm	0.5031 ppm	0.4876 ppm	0.4749 ppm	4.6458 ppm	0.4438 ppm
Concentration per Run 2	0.4781 ppm	0.4826 ppm	0.5023 ppm	0.4867 ppm	0.4882 ppm	4.6854 ppm	0.4465 ppm
Concentration per Run 3	0.4800 ppm	0.4853 ppm	0.5013 ppm	0.4857 ppm	0.4902 ppm	4.7553 ppm	0.4513 ppm
Recovery Percentage 1	96.039 %	97.019 %	100.445 %	97.331 %	96.888 %	93.910 %	89.439 %
Concentration RSD	0.4 %	0.5 %	0.2 %	0.2 %	1.7 %	1.2 %	0.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5076 ppm	0.4606 ppm	0.4604 ppm	9.1172 ppm	0.4837 ppm	0.4884 ppm	0.4751 ppm
Concentration per Run 1	0.5085 ppm	0.4555 ppm	0.4606 ppm	9.0110 ppm	0.4853 ppm	0.4902 ppm	0.4752 ppm
Concentration per Run 2	0.5055 ppm	0.4609 ppm	0.4591 ppm	9.1165 ppm	0.4823 ppm	0.4868 ppm	0.4732 ppm
Concentration per Run 3	0.5088 ppm	0.4656 ppm	0.4614 ppm	9.2241 ppm	0.4836 ppm	0.4882 ppm	0.4769 ppm
Recovery Percentage 1	101.521 %	92.130 %	92.072 %	91.172 %	96.745 %	97.679 %	95.024 %
Concentration RSD	0.4 %	1.1 %	0.3 %	1.2 %	0.3 %	0.3 %	0.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4696 ppm	5.3207 ppm	0.4788 ppm	0.4485 ppm	0.4900 ppm	0.4853 ppm	0.4892 ppm
Concentration per Run 1	0.4735 ppm	5.3372 ppm	0.4797 ppm	0.4428 ppm	0.4906 ppm	0.4893 ppm	0.4905 ppm
Concentration per Run 2	0.4661 ppm	5.3024 ppm	0.4773 ppm	0.4485 ppm	0.4906 ppm	0.4840 ppm	0.4903 ppm
Concentration per Run 3	0.4691 ppm	5.3224 ppm	0.4793 ppm	0.4543 ppm	0.4889 ppm	0.4826 ppm	0.4868 ppm
Recovery Percentage 1	93.913 %	101.346 %	95.751 %	89.707 %	98.007 %	97.061 %	97.839 %
Concentration RSD	0.8 %	0.3 %	0.3 %	1.3 %	0.2 %	0.7 %	0.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4869 ppm	102.1278 %	102.5137 %	104.2898 %	103.9541 %	104.6240 %	103.6204 %
Concentration per Run 1	0.4884 ppm	102.8955 %	102.2204 %	104.2293 %	104.7145 %	104.2249 %	103.4144 %
Concentration per Run 2	0.4851 ppm	102.1972 %	102.7150 %	104.4454 %	104.1241 %	105.0243 %	103.6184 %
Concentration per Run 3	0.4872 ppm	101.2907 %	102.6056 %	104.1949 %	103.0236 %	104.6229 %	103.8284 %
Recovery Percentage 1	97.377 %						
Concentration RSD	0.3 %	0.8 %	0.3 %	0.1 %	0.8 %	0.4 %	0.2 %

LabBook: WG2039392_03122025T5.imexp

Sample: CCB
Analysis started at: 3/12/2025 11:12:03 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	-0.0047 ppm	0.0001 ppm	0.0010 ppm	0.0002 ppm	0.0001 ppm	0.0030 ppm
Concentration per Run 1	-0.0001 ppm	-0.0075 ppm	0.0009 ppm	0.0008 ppm	0.0002 ppm	0.0000 ppm	0.0069 ppm
Concentration per Run 2	-0.0001 ppm	0.0001 ppm	-0.0007 ppm	0.0010 ppm	0.0002 ppm	0.0000 ppm	0.0007 ppm
Concentration per Run 3	0.0001 ppm	-0.0066 ppm	0.0002 ppm	0.0011 ppm	0.0002 ppm	0.0001 ppm	0.0014 ppm
Recovery Percentage 1	-0.576 %	-4.650 %	2.571 %	3.280 %	2.124 %	1.100 %	3.012 %
Concentration RSD	247.4 %	88.5 %	630.7 %	15.7 %	12.3 %	55.9 %	112.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0001 ppm	-0.0003 ppm	0.0008 ppm	-0.0289 ppm	0.0008 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0003 ppm	0.0009 ppm	-0.0463 ppm	0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0002 ppm	-0.0002 ppm	0.0002 ppm	-0.0316 ppm	0.0022 ppm
Concentration per Run 3	0.0001 ppm	-0.0003 ppm	0.0002 ppm	-0.0005 ppm	0.0013 ppm	-0.0088 ppm	0.0000 ppm
Recovery Percentage 1	0.562 %	-0.316 %	1.361 %	-3.313 %	1.583 %	-1.156 %	7.602 %
Concentration RSD	240.9 %	304.4 %	51.8 %	38.0 %	74.8 %	65.5 %	159.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0014 ppm	-0.0112 ppm	0.0000 ppm	0.0002 ppm	-0.0007 ppm
Concentration per Run 1	0.0005 ppm	0.0004 ppm	0.0015 ppm	-0.0129 ppm	-0.0001 ppm	0.0007 ppm	-0.0002 ppm
Concentration per Run 2	-0.0004 ppm	0.0002 ppm	0.0015 ppm	-0.0114 ppm	0.0000 ppm	-0.0002 ppm	-0.0018 ppm
Concentration per Run 3	-0.0002 ppm	-0.0001 ppm	0.0011 ppm	-0.0093 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm
Recovery Percentage 1	-0.024 %	1.798 %	2.783 %	-0.560 %	-0.098 %	1.732 %	-1.417 %
Concentration RSD	2,143.9 %	138.7 %	17.7 %	16.4 %	293.6 %	284.5 %	138.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0006 ppm	-0.0009 ppm	0.0002 ppm	0.0001 ppm	0.0001 ppm	0.0012 ppm	-0.0002 ppm
Concentration per Run 1	-0.0001 ppm	-0.0013 ppm	0.0004 ppm	0.0002 ppm	-0.0001 ppm	0.0010 ppm	-0.0002 ppm
Concentration per Run 2	-0.0008 ppm	-0.0004 ppm	0.0005 ppm	0.0001 ppm	0.0001 ppm	0.0012 ppm	-0.0003 ppm
Concentration per Run 3	-0.0008 ppm	-0.0010 ppm	-0.0002 ppm	0.0000 ppm	0.0004 ppm	0.0014 ppm	0.0000 ppm
Recovery Percentage 1	-5.821 %	-0.181 %	0.428 %	0.991 %	1.266 %	5.942 %	-1.513 %
Concentration RSD	65.9 %	47.4 %	173.6 %	95.1 %	206.6 %	18.1 %	103.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0010 ppm	102.6708 %	102.9263 %	105.4644 %	102.8516 %	105.5331 %	102.7759 %
Concentration per Run 1	0.0010 ppm	104.0240 %	102.9803 %	105.7629 %	103.7931 %	105.7032 %	103.0929 %
Concentration per Run 2	0.0010 ppm	102.3786 %	102.5848 %	105.4032 %	102.8298 %	105.5303 %	102.3362 %
Concentration per Run 3	0.0010 ppm	101.6097 %	103.2137 %	105.2272 %	101.9319 %	105.3659 %	102.8986 %
Recovery Percentage 1	20.125 %						
Concentration RSD	3.9 %	1.2 %	0.3 %	0.3 %	0.9 %	0.2 %	0.4 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: CCV
Analysis started at: 3/12/2025 11:18:29 PM
Comments <Comment>
Rack: 0
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	-0.0025 ppm	-0.0017 ppm	-0.0003 ppm	0.0000 ppm	-0.0001 ppm	-0.0102 ppm
Concentration per Run 1	0.0004 ppm	-0.0013 ppm	N/A	N/A	0.0000 ppm	-0.0001 ppm	-0.0099 ppm
Concentration per Run 2	0.0004 ppm	-0.0036 ppm	N/A	N/A	0.0000 ppm	-0.0001 ppm	-0.0104 ppm
Concentration per Run 3	0.0005 ppm	N/A	-0.0017 ppm	-0.0003 ppm	N/A	N/A	N/A
Recovery Percentage 1	0.086 %	-0.493 %	-0.335 %	-0.066 %	0.002 %	-0.023 %	-2.031 %
Concentration RSD	10.4 %	65.0 %	N/A	N/A	482.8 %	4.6 %	3.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0005 ppm	0.0007 ppm	-0.0032 ppm	0.0011 ppm	-0.0755 ppm	-0.0009 ppm
Concentration per Run 1	N/A	N/A	0.0007 ppm	-0.0033 ppm	0.0008 ppm	-0.0656 ppm	-0.0008 ppm
Concentration per Run 2	N/A	N/A	0.0007 ppm	-0.0028 ppm	0.0014 ppm	-0.0853 ppm	-0.0010 ppm
Concentration per Run 3	0.0000 ppm	-0.0005 ppm	0.0007 ppm	-0.0035 ppm	N/A	N/A	N/A
Recovery Percentage 1	0.002 %	-0.098 %	0.138 %	-0.636 %	0.216 %	-1.509 %	-0.174 %
Concentration RSD	N/A	N/A	6.5 %	11.1 %	37.9 %	18.5 %	13.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0012 ppm	0.0000 ppm	0.0001 ppm	-0.0475 ppm	0.0010 ppm	0.0009 ppm	-0.0013 ppm
Concentration per Run 1	-0.0013 ppm	0.0000 ppm	N/A	-0.0459 ppm	N/A	N/A	N/A
Concentration per Run 2	-0.0017 ppm	0.0000 ppm	N/A	-0.0492 ppm	N/A	N/A	N/A
Concentration per Run 3	-0.0007 ppm	N/A	0.0001 ppm	N/A	0.0010 ppm	0.0009 ppm	-0.0013 ppm
Recovery Percentage 1	-0.241 %	-0.001 %	0.027 %	-0.475 %	0.203 %	0.184 %	-0.256 %
Concentration RSD	41.7 %	680.9 %	N/A	4.9 %	N/A	N/A	N/A

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0022 ppm	-0.0024 ppm	-0.0002 ppm	0.0002 ppm	0.0009 ppm	0.0010 ppm	0.0006 ppm
Concentration per Run 1	N/A	N/A	N/A	0.0002 ppm	0.0010 ppm	N/A	0.0006 ppm
Concentration per Run 2	N/A	N/A	N/A	0.0002 ppm	0.0009 ppm	N/A	0.0005 ppm
Concentration per Run 3	0.0022 ppm	-0.0024 ppm	-0.0002 ppm	N/A	0.0009 ppm	0.0010 ppm	0.0006 ppm
Recovery Percentage 1	0.445 %	-0.046 %	-0.042 %	0.040 %	0.186 %	0.207 %	0.116 %
Concentration RSD	N/A	N/A	N/A	13.5 %	7.0 %	N/A	9.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	299.6881 %	390.6577 %	457.0560 %	303.4186 %	455.3735 %	487.4996 %
Concentration per Run 1	N/A	316.9632 %	N/A	N/A	320.2202 %	N/A	543.1178 %
Concentration per Run 2	N/A	282.4130 %	N/A	N/A	286.6171 %	N/A	489.6853 %
Concentration per Run 3	0.0000 ppm	N/A	390.6577 %	457.0560 %	N/A	455.3735 %	429.6957 %
Recovery Percentage 1	0.002 %						
Concentration RSD	N/A	8.2 %	N/A	N/A	7.8 %	N/A	11.6 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: CCB
Analysis started at: 3/12/2025 11:25:11 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	-0.0041 ppm	-0.0006 ppm	0.0007 ppm	0.0001 ppm	-0.0001 ppm	0.0038 ppm
Concentration per Run 1	0.0004 ppm	-0.0121 ppm	-0.0019 ppm	0.0005 ppm	0.0001 ppm	-0.0001 ppm	0.0018 ppm
Concentration per Run 2	0.0003 ppm	0.0019 ppm	0.0002 ppm	0.0007 ppm	0.0001 ppm	-0.0001 ppm	0.0055 ppm
Concentration per Run 3	0.0003 ppm	-0.0022 ppm	-0.0002 ppm	0.0008 ppm	0.0001 ppm	-0.0002 ppm	0.0042 ppm
Recovery Percentage 1	4.836 %	-4.147 %	-12.931 %	2.242 %	0.777 %	-1.784 %	3.809 %
Concentration RSD	26.7 %	173.8 %	175.3 %	16.6 %	25.6 %	64.2 %	49.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0002 ppm	-0.0003 ppm	0.0009 ppm	-0.0219 ppm	0.0012 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0002 ppm	-0.0001 ppm	0.0010 ppm	-0.0016 ppm	0.0035 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0005 ppm	-0.0006 ppm	0.0011 ppm	-0.0246 ppm	0.0003 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0000 ppm	-0.0003 ppm	0.0007 ppm	-0.0397 ppm	-0.0003 ppm
Recovery Percentage 1	0.466 %	0.242 %	2.187 %	-3.376 %	1.843 %	-0.878 %	11.815 %
Concentration RSD	72.5 %	172.2 %	123.9 %	72.2 %	22.8 %	87.4 %	173.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0002 ppm	-0.0172 ppm	0.0001 ppm	0.0008 ppm	0.0005 ppm
Concentration per Run 1	-0.0008 ppm	-0.0002 ppm	0.0002 ppm	-0.0210 ppm	0.0001 ppm	0.0007 ppm	0.0004 ppm
Concentration per Run 2	-0.0008 ppm	0.0001 ppm	0.0001 ppm	-0.0165 ppm	0.0003 ppm	0.0012 ppm	0.0003 ppm
Concentration per Run 3	0.0018 ppm	-0.0002 ppm	0.0003 ppm	-0.0141 ppm	0.0000 ppm	0.0004 ppm	0.0009 ppm
Recovery Percentage 1	0.081 %	-0.962 %	0.419 %	-0.860 %	0.523 %	7.687 %	1.085 %
Concentration RSD	1,828.4 %	194.5 %	36.3 %	20.4 %	121.8 %	51.0 %	65.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0012 ppm	-0.0012 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0014 ppm	-0.0002 ppm
Concentration per Run 1	-0.0010 ppm	-0.0011 ppm	0.0003 ppm	0.0000 ppm	-0.0001 ppm	0.0011 ppm	-0.0001 ppm
Concentration per Run 2	-0.0003 ppm	-0.0012 ppm	-0.0003 ppm	0.0000 ppm	-0.0001 ppm	0.0033 ppm	-0.0003 ppm
Concentration per Run 3	-0.0022 ppm	-0.0015 ppm	-0.0001 ppm	-0.0001 ppm	-0.0001 ppm	-0.0001 ppm	-0.0001 ppm
Recovery Percentage 1	-11.679 %	-0.248 %	-0.095 %	-0.289 %	-0.867 %	7.232 %	-1.502 %
Concentration RSD	81.9 %	16.2 %	731.5 %	216.0 %	51.2 %	119.2 %	74.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0009 ppm	103.3268 %	103.0680 %	105.2812 %	103.7362 %	105.3041 %	102.5411 %
Concentration per Run 1	0.0009 ppm	106.3485 %	103.1865 %	105.3892 %	106.4406 %	105.5841 %	102.5622 %
Concentration per Run 2	0.0009 ppm	102.2260 %	102.9052 %	105.3665 %	103.1324 %	105.5591 %	102.5521 %
Concentration per Run 3	0.0010 ppm	101.4060 %	103.1123 %	105.0879 %	101.6354 %	104.7689 %	102.5090 %
Recovery Percentage 1	18.937 %						
Concentration RSD	0.4 %	2.6 %	0.1 %	0.2 %	2.4 %	0.4 %	0.0 %

ICP DataTrace 5

3/13/2025 10:58:28 AM

LabBook: WG2039392_03122025T5.imexp

Sample: LLOQ RL
Analysis started at: 3/12/2025 11:31:36 PM
Comments <Comment>
Rack: 0
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0051 ppm	0.0937 ppm	0.0042 ppm	0.0287 ppm	0.0093 ppm	0.0047 ppm	0.0985 ppm
Concentration per Run 1	0.0052 ppm	0.1004 ppm	0.0048 ppm	0.0286 ppm	0.0093 ppm	0.0046 ppm	0.0986 ppm
Concentration per Run 2	0.0050 ppm	0.0839 ppm	0.0038 ppm	0.0284 ppm	0.0093 ppm	0.0047 ppm	0.0983 ppm
Concentration per Run 3	0.0050 ppm	0.0969 ppm	0.0039 ppm	0.0290 ppm	0.0094 ppm	0.0047 ppm	0.0985 ppm
Recovery Percentage 1	101.266 %	93.716 %	83.291 %	95.617 %	93.205 %	93.522 %	98.462 %
Concentration RSD	3.0 %	9.3 %	12.9 %	1.1 %	0.8 %	1.5 %	0.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0040 ppm	0.0097 ppm	0.0103 ppm	0.0095 ppm	0.0531 ppm	2.3253 ppm	0.0097 ppm
Concentration per Run 1	0.0040 ppm	0.0097 ppm	0.0101 ppm	0.0091 ppm	0.0520 ppm	2.2978 ppm	0.0093 ppm
Concentration per Run 2	0.0040 ppm	0.0098 ppm	0.0104 ppm	0.0098 ppm	0.0541 ppm	2.3280 ppm	0.0103 ppm
Concentration per Run 3	0.0040 ppm	0.0097 ppm	0.0105 ppm	0.0097 ppm	0.0531 ppm	2.3501 ppm	0.0095 ppm
Recovery Percentage 1	99.379 %	97.092 %	103.307 %	95.117 %	106.130 %	93.012 %	97.260 %
Concentration RSD	0.4 %	0.7 %	2.2 %	3.6 %	2.0 %	1.1 %	5.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.1032 ppm	0.0096 ppm	0.0470 ppm	1.8358 ppm	0.0191 ppm	0.0107 ppm	0.0469 ppm
Concentration per Run 1	0.1022 ppm	0.0096 ppm	0.0467 ppm	1.8075 ppm	0.0189 ppm	0.0104 ppm	0.0469 ppm
Concentration per Run 2	0.1039 ppm	0.0095 ppm	0.0469 ppm	1.8369 ppm	0.0192 ppm	0.0103 ppm	0.0462 ppm
Concentration per Run 3	0.1034 ppm	0.0098 ppm	0.0473 ppm	1.8628 ppm	0.0193 ppm	0.0112 ppm	0.0475 ppm
Recovery Percentage 1	103.154 %	96.129 %	93.921 %	91.788 %	95.611 %	106.614 %	93.724 %
Concentration RSD	0.8 %	1.6 %	0.6 %	1.5 %	1.2 %	4.8 %	1.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0086 ppm	0.5130 ppm	0.0493 ppm	0.0091 ppm	0.0099 ppm	0.0208 ppm	0.0101 ppm
Concentration per Run 1	0.0090 ppm	0.5131 ppm	0.0493 ppm	0.0091 ppm	0.0099 ppm	0.0202 ppm	0.0102 ppm
Concentration per Run 2	0.0097 ppm	0.5128 ppm	0.0495 ppm	0.0091 ppm	0.0101 ppm	0.0211 ppm	0.0100 ppm
Concentration per Run 3	0.0072 ppm	0.5130 ppm	0.0491 ppm	0.0091 ppm	0.0098 ppm	0.0211 ppm	0.0100 ppm
Recovery Percentage 1	86.243 %	102.595 %	98.664 %	91.116 %	99.171 %	103.963 %	100.759 %
Concentration RSD	14.9 %	0.0 %	0.4 %	0.3 %	1.7 %	2.6 %	0.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0053 ppm	101.4030 %	102.7978 %	105.8079 %	103.1718 %	105.8941 %	104.1594 %
Concentration per Run 1	0.0052 ppm	103.2904 %	102.8083 %	105.9942 %	104.5737 %	106.0426 %	104.2268 %
Concentration per Run 2	0.0053 ppm	101.4821 %	102.8032 %	105.7088 %	103.2833 %	105.7148 %	104.0698 %
Concentration per Run 3	0.0053 ppm	99.4365 %	102.7819 %	105.7208 %	101.6583 %	105.9248 %	104.1816 %
Recovery Percentage 1	105.385 %						
Concentration RSD	1.2 %	1.9 %	0.0 %	0.2 %	1.4 %	0.2 %	0.1 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: Blank JMF Trace9
Analysis started at: 3/13/2025 8:15:45 AM
Rack 0
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-1.0 %	0.2 %	-4.9 %	-0.7 %	0.1 %	-0.7 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	1.6 %	0.6 %	-0.3 %	-0.1 %	0.5 %	-0.4 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.1 %	-0.4 %	1.1 %	0.1 %	3.5 %	-0.6 %	2.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	4.7 %	0.1 %	0.3 %	1.4 %	-0.1 %	-0.7 %	-0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration per Run	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration RSD	0.6 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: ICAL
Analysis started at: 3/13/2025 8:19:25 AM
Rack 0
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	0.9953 ppm	24.9543 ppm	1.0047 ppm	0.9988 ppm	0.9988 ppm	0.9992 ppm	10.0272 ppm
Concentration per Run 2	1.0021 ppm	25.0234 ppm	1.0021 ppm	1.0034 ppm	1.0020 ppm	1.0015 ppm	9.9869 ppm
Concentration per Run 3	1.0026 ppm	25.0222 ppm	0.9932 ppm	0.9977 ppm	0.9992 ppm	0.9993 ppm	9.9859 ppm
Concentration RSD	0.4 %	0.2 %	0.6 %	0.3 %	0.2 %	0.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	1.0000 ppm
Concentration per Run 1	0.9986 ppm	0.9979 ppm	0.9968 ppm	1.0008 ppm	24.9807 ppm	34.9155 ppm	0.9958 ppm
Concentration per Run 2	1.0007 ppm	1.0015 ppm	1.0013 ppm	0.9984 ppm	25.0151 ppm	35.1056 ppm	1.0057 ppm
Concentration per Run 3	1.0007 ppm	1.0007 ppm	1.0019 ppm	1.0008 ppm	25.0041 ppm	34.9789 ppm	0.9985 ppm
Concentration RSD	0.1 %	0.2 %	0.3 %	0.1 %	0.1 %	0.3 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	9.9688 ppm	0.9990 ppm	0.9949 ppm	24.9661 ppm	0.9925 ppm	1.0045 ppm	1.0025 ppm
Concentration per Run 2	10.0305 ppm	1.0024 ppm	1.0012 ppm	25.1068 ppm	1.0063 ppm	0.9979 ppm	0.9976 ppm
Concentration per Run 3	10.0007 ppm	0.9986 ppm	1.0039 ppm	24.9272 ppm	1.0012 ppm	0.9976 ppm	1.0000 ppm
Concentration RSD	0.3 %	0.2 %	0.5 %	0.4 %	0.7 %	0.4 %	0.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	1.0000 ppm	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	1.0028 ppm	9.9650 ppm	0.9949 ppm	0.9989 ppm	0.9955 ppm	1.0017 ppm	0.9974 ppm
Concentration per Run 2	1.0014 ppm	10.0283 ppm	1.0009 ppm	1.0022 ppm	1.0024 ppm	0.9995 ppm	1.0019 ppm
Concentration per Run 3	0.9957 ppm	10.0067 ppm	1.0042 ppm	0.9989 ppm	1.0021 ppm	0.9987 ppm	1.0007 ppm
Concentration RSD	0.4 %	0.3 %	0.5 %	0.2 %	0.4 %	0.2 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0000 ppm	103.5467 %	101.8302 %	103.1231 %	100.2400 %	99.1481 %	99.6491 %
Concentration per Run 1	0.9943 ppm	103.9602 %	101.6529 %	103.2903 %	100.5016 %	98.8400 %	99.9422 %
Concentration per Run 2	1.0021 ppm	103.5930 %	101.6349 %	102.7719 %	100.3230 %	98.9860 %	99.4339 %
Concentration per Run 3	1.0036 ppm	103.0870 %	102.2027 %	103.3072 %	99.8953 %	99.6185 %	99.5712 %
Concentration RSD	0.5 %	0.4 %	0.3 %	0.3 %	0.3 %	0.4 %	0.3 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: ICV
Analysis started at: 3/13/2025 8:22:51 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4663 ppm	0.4854 ppm	0.4918 ppm	0.4810 ppm	0.4808 ppm	0.5091 ppm	0.4997 ppm
Concentration per Run 1	0.4652 ppm	0.4825 ppm	0.4916 ppm	0.4814 ppm	0.4831 ppm	0.5108 ppm	0.5038 ppm
Concentration per Run 2	0.4656 ppm	0.4821 ppm	0.4928 ppm	0.4801 ppm	0.4821 ppm	0.5086 ppm	0.4979 ppm
Concentration per Run 3	0.4682 ppm	0.4915 ppm	0.4910 ppm	0.4816 ppm	0.4771 ppm	0.5079 ppm	0.4975 ppm
Recovery Percentage 1	93.267 %	97.072 %	98.357 %	96.203 %	96.153 %	101.816 %	99.942 %
Concentration RSD	0.3 %	1.1 %	0.2 %	0.2 %	0.7 %	0.3 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4999 ppm	0.5096 ppm	0.4938 ppm	0.4723 ppm	0.5134 ppm	5.0880 ppm	0.5009 ppm
Concentration per Run 1	0.4997 ppm	0.5111 ppm	0.4915 ppm	0.4762 ppm	0.5101 ppm	5.1065 ppm	0.4993 ppm
Concentration per Run 2	0.4976 ppm	0.5071 ppm	0.4948 ppm	0.4679 ppm	0.5182 ppm	5.1101 ppm	0.5035 ppm
Concentration per Run 3	0.5024 ppm	0.5107 ppm	0.4949 ppm	0.4729 ppm	0.5119 ppm	5.0476 ppm	0.4999 ppm
Recovery Percentage 1	99.981 %	101.930 %	98.751 %	94.469 %	102.682 %	101.761 %	100.175 %
Concentration RSD	0.5 %	0.4 %	0.4 %	0.9 %	0.8 %	0.7 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4909 ppm	0.4939 ppm	0.4947 ppm	9.9982 ppm	0.5045 ppm	0.5016 ppm	0.4942 ppm
Concentration per Run 1	0.4931 ppm	0.4922 ppm	0.4915 ppm	10.0297 ppm	0.5014 ppm	0.5029 ppm	0.4876 ppm
Concentration per Run 2	0.4886 ppm	0.4925 ppm	0.4930 ppm	9.9861 ppm	0.5072 ppm	0.5022 ppm	0.4945 ppm
Concentration per Run 3	0.4911 ppm	0.4970 ppm	0.4996 ppm	9.9788 ppm	0.5049 ppm	0.4997 ppm	0.5006 ppm
Recovery Percentage 1	98.184 %	98.782 %	98.942 %	99.982 %	100.897 %	100.314 %	98.848 %
Concentration RSD	0.5 %	0.5 %	0.9 %	0.3 %	0.6 %	0.3 %	1.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4927 ppm	5.4644 ppm	0.5091 ppm	0.5012 ppm	0.4936 ppm	0.4900 ppm	0.4889 ppm
Concentration per Run 1	0.4917 ppm	5.4464 ppm	0.5059 ppm	0.5035 ppm	0.4923 ppm	0.4897 ppm	0.4880 ppm
Concentration per Run 2	0.4936 ppm	5.4554 ppm	0.5073 ppm	0.5028 ppm	0.4934 ppm	0.4914 ppm	0.4875 ppm
Concentration per Run 3	0.4926 ppm	5.4914 ppm	0.5141 ppm	0.4972 ppm	0.4951 ppm	0.4889 ppm	0.4913 ppm
Recovery Percentage 1	98.532 %	104.084 %	101.819 %	100.237 %	98.719 %	98.002 %	97.788 %
Concentration RSD	0.2 %	0.4 %	0.9 %	0.7 %	0.3 %	0.3 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5065 ppm	103.2592 %	102.1058 %	103.0480 %	101.4665 %	100.0922 %	100.6415 %
Concentration per Run 1	0.5050 ppm	103.4562 %	101.9850 %	103.3105 %	101.8990 %	99.7962 %	100.7305 %
Concentration per Run 2	0.5062 ppm	103.7516 %	102.3928 %	102.5840 %	101.8960 %	100.3143 %	100.8294 %
Concentration per Run 3	0.5081 ppm	102.5698 %	101.9395 %	103.2496 %	100.6044 %	100.1661 %	100.3646 %
Recovery Percentage 1	101.291 %						
Concentration RSD	0.3 %	0.6 %	0.2 %	0.4 %	0.7 %	0.3 %	0.2 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: ICB
Analysis started at: 3/13/2025 8:26:18 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0003 ppm	0.0001 ppm	-0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0019 ppm
Concentration per Run 1	0.0003 ppm	0.0031 ppm	0.0003 ppm	0.0014 ppm	0.0000 ppm	0.0000 ppm	0.0034 ppm
Concentration per Run 2	-0.0007 ppm	-0.0037 ppm	0.0000 ppm	-0.0028 ppm	0.0000 ppm	0.0000 ppm	-0.0011 ppm
Concentration per Run 3	0.0005 ppm	0.0017 ppm	0.0001 ppm	-0.0013 ppm	0.0000 ppm	0.0000 ppm	0.0033 ppm
Recovery Percentage 1	0.433 %	0.349 %	2.403 %	-2.999 %	0.076 %	0.044 %	1.861 %
Concentration RSD	2,102.5 %	1,029.6 %	130.9 %	235.7 %	307.9 %	1,232.3 %	137.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0004 ppm	-0.0003 ppm	-0.0001 ppm	0.0005 ppm	-0.0118 ppm	0.0000 ppm
Concentration per Run 1	0.0000 ppm	-0.0004 ppm	0.0002 ppm	0.0003 ppm	0.0011 ppm	0.0081 ppm	0.0007 ppm
Concentration per Run 2	0.0002 ppm	-0.0010 ppm	-0.0008 ppm	0.0006 ppm	0.0001 ppm	-0.0372 ppm	-0.0005 ppm
Concentration per Run 3	-0.0001 ppm	0.0003 ppm	-0.0003 ppm	-0.0011 ppm	0.0002 ppm	-0.0063 ppm	-0.0003 ppm
Recovery Percentage 1	0.039 %	-1.828 %	-2.825 %	-0.789 %	0.917 %	-0.472 %	-0.423 %
Concentration RSD	8,251.3 %	174.7 %	179.5 %	1,176.7 %	120.0 %	196.1 %	3,159.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0017 ppm	-0.0001 ppm	0.0023 ppm	-0.0086 ppm	0.0013 ppm	0.0005 ppm	0.0037 ppm
Concentration per Run 1	0.0014 ppm	-0.0002 ppm	0.0026 ppm	-0.0096 ppm	0.0018 ppm	-0.0002 ppm	0.0048 ppm
Concentration per Run 2	0.0019 ppm	-0.0002 ppm	0.0019 ppm	-0.0099 ppm	0.0006 ppm	0.0019 ppm	0.0032 ppm
Concentration per Run 3	0.0018 ppm	0.0001 ppm	0.0023 ppm	-0.0064 ppm	0.0015 ppm	-0.0001 ppm	0.0031 ppm
Recovery Percentage 1	1.718 %	-0.679 %	4.575 %	-0.432 %	5.169 %	5.361 %	7.401 %
Concentration RSD	15.1 %	244.3 %	14.9 %	22.9 %	49.1 %	227.3 %	25.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0014 ppm	-0.0089 ppm	-0.0003 ppm	0.0000 ppm	0.0002 ppm	0.0017 ppm	0.0000 ppm
Concentration per Run 1	-0.0003 ppm	-0.0074 ppm	-0.0012 ppm	0.0000 ppm	0.0000 ppm	0.0022 ppm	0.0002 ppm
Concentration per Run 2	-0.0019 ppm	-0.0085 ppm	-0.0005 ppm	0.0000 ppm	0.0004 ppm	0.0007 ppm	-0.0001 ppm
Concentration per Run 3	-0.0020 ppm	-0.0107 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	0.0021 ppm	-0.0001 ppm
Recovery Percentage 1	-13.992 %	-1.771 %	-0.617 %	0.058 %	1.527 %	8.327 %	0.284 %
Concentration RSD	66.3 %	18.9 %	323.8 %	766.2 %	159.2 %	49.2 %	533.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0002 ppm	99.4858 %	100.6698 %	101.3037 %	99.6448 %	100.6148 %	101.1136 %
Concentration per Run 1	0.0003 ppm	100.4454 %	100.6577 %	101.4384 %	100.0876 %	101.1686 %	101.5201 %
Concentration per Run 2	0.0002 ppm	99.2064 %	100.2603 %	101.4643 %	99.4338 %	100.0908 %	100.8190 %
Concentration per Run 3	0.0001 ppm	98.8057 %	101.0912 %	101.0084 %	99.4130 %	100.5850 %	101.0016 %
Recovery Percentage 1	3.724 %						
Concentration RSD	40.1 %	0.9 %	0.4 %	0.3 %	0.4 %	0.5 %	0.4 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: ICV
Analysis started at: 3/13/2025 8:29:46 AM
Rack 0
Vial 10
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4854 ppm	0.4950 ppm	0.4966 ppm	0.4923 ppm	0.4917 ppm	0.5182 ppm	0.5097 ppm
Concentration per Run 1	0.4854 ppm	0.4949 ppm	0.4982 ppm	0.4882 ppm	0.4924 ppm	0.5180 ppm	0.5120 ppm
Concentration per Run 2	0.4860 ppm	0.4996 ppm	0.4964 ppm	0.4961 ppm	0.4917 ppm	0.5184 ppm	0.5102 ppm
Concentration per Run 3	0.4847 ppm	0.4905 ppm	0.4951 ppm	0.4925 ppm	0.4911 ppm	0.5182 ppm	0.5071 ppm
Recovery Percentage 1	97.076 %	99.003 %	99.322 %	98.450 %	98.347 %	103.639 %	101.949 %
Concentration RSD	0.1 %	0.9 %	0.3 %	0.8 %	0.1 %	0.0 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5073 ppm	0.5158 ppm	0.5038 ppm	0.4793 ppm	0.5262 ppm	5.1959 ppm	0.5114 ppm
Concentration per Run 1	0.5062 ppm	0.5161 ppm	0.5046 ppm	0.4751 ppm	0.5287 ppm	5.2126 ppm	0.5116 ppm
Concentration per Run 2	0.5076 ppm	0.5164 ppm	0.5050 ppm	0.4837 ppm	0.5240 ppm	5.1923 ppm	0.5098 ppm
Concentration per Run 3	0.5080 ppm	0.5149 ppm	0.5017 ppm	0.4792 ppm	0.5258 ppm	5.1828 ppm	0.5129 ppm
Recovery Percentage 1	101.456 %	103.160 %	100.755 %	95.868 %	105.231 %	103.918 %	102.281 %
Concentration RSD	0.2 %	0.2 %	0.4 %	0.9 %	0.4 %	0.3 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5043 ppm	0.5005 ppm	0.4986 ppm	10.2227 ppm	0.5153 ppm	0.5090 ppm	0.4990 ppm
Concentration per Run 1	0.5046 ppm	0.4997 ppm	0.4983 ppm	10.2287 ppm	0.5169 ppm	0.5098 ppm	0.4968 ppm
Concentration per Run 2	0.5038 ppm	0.5017 ppm	0.4989 ppm	10.2089 ppm	0.5160 ppm	0.5095 ppm	0.4997 ppm
Concentration per Run 3	0.5046 ppm	0.5000 ppm	0.4985 ppm	10.2304 ppm	0.5131 ppm	0.5077 ppm	0.5005 ppm
Recovery Percentage 1	100.862 %	100.096 %	99.712 %	102.227 %	103.064 %	101.797 %	99.796 %
Concentration RSD	0.1 %	0.2 %	0.1 %	0.1 %	0.4 %	0.2 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4982 ppm	5.5139 ppm	0.5169 ppm	0.5101 ppm	0.5046 ppm	0.4946 ppm	0.4980 ppm
Concentration per Run 1	0.4960 ppm	5.5079 ppm	0.5161 ppm	0.5106 ppm	0.5024 ppm	0.4945 ppm	0.4968 ppm
Concentration per Run 2	0.5010 ppm	5.5046 ppm	0.5200 ppm	0.5110 ppm	0.5061 ppm	0.4947 ppm	0.4982 ppm
Concentration per Run 3	0.4977 ppm	5.5293 ppm	0.5146 ppm	0.5087 ppm	0.5055 ppm	0.4946 ppm	0.4990 ppm
Recovery Percentage 1	99.646 %	105.027 %	103.384 %	102.019 %	100.928 %	98.920 %	99.601 %
Concentration RSD	0.5 %	0.2 %	0.5 %	0.2 %	0.4 %	0.0 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5138 ppm	103.1830 %	102.4658 %	104.0228 %	101.0504 %	100.2783 %	101.5816 %
Concentration per Run 1	0.5155 ppm	103.9715 %	102.6853 %	103.8867 %	101.7969 %	100.6163 %	101.5524 %
Concentration per Run 2	0.5142 ppm	102.6559 %	102.4609 %	103.8381 %	100.4622 %	100.4924 %	101.5071 %
Concentration per Run 3	0.5116 ppm	102.9215 %	102.2512 %	104.3434 %	100.8920 %	99.7262 %	101.6852 %
Recovery Percentage 1	102.762 %						
Concentration RSD	0.4 %	0.7 %	0.2 %	0.3 %	0.7 %	0.5 %	0.1 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: ICB
Analysis started at: 3/13/2025 8:33:17 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0024 ppm	-0.0006 ppm	-0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0023 ppm
Concentration per Run 1	0.0002 ppm	0.0002 ppm	-0.0005 ppm	-0.0009 ppm	0.0002 ppm	0.0000 ppm	0.0022 ppm
Concentration per Run 2	-0.0004 ppm	-0.0014 ppm	0.0002 ppm	-0.0002 ppm	0.0002 ppm	-0.0001 ppm	0.0003 ppm
Concentration per Run 3	-0.0002 ppm	-0.0059 ppm	-0.0015 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0045 ppm
Recovery Percentage 1	-2.138 %	-2.378 %	-11.874 %	-0.505 %	1.255 %	-0.334 %	2.334 %
Concentration RSD	191.7 %	131.9 %	145.2 %	545.4 %	91.5 %	304.9 %	90.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0001 ppm	-0.0004 ppm	-0.0001 ppm	-0.0003 ppm	-0.0051 ppm	0.0008 ppm
Concentration per Run 1	-0.0001 ppm	0.0001 ppm	-0.0008 ppm	0.0000 ppm	-0.0003 ppm	0.0039 ppm	0.0003 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0002 ppm	-0.0206 ppm	0.0007 ppm
Concentration per Run 3	-0.0002 ppm	-0.0003 ppm	-0.0003 ppm	-0.0003 ppm	-0.0008 ppm	0.0015 ppm	0.0012 ppm
Recovery Percentage 1	-1.555 %	-0.487 %	-3.951 %	-0.963 %	-0.610 %	-0.202 %	15.162 %
Concentration RSD	121.5 %	220.3 %	99.4 %	209.5 %	170.1 %	267.1 %	61.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0008 ppm	0.0000 ppm	0.0020 ppm	-0.0146 ppm	0.0006 ppm	0.0021 ppm	0.0030 ppm
Concentration per Run 1	-0.0004 ppm	-0.0001 ppm	0.0025 ppm	-0.0162 ppm	-0.0003 ppm	0.0028 ppm	0.0011 ppm
Concentration per Run 2	0.0002 ppm	0.0000 ppm	0.0022 ppm	-0.0124 ppm	0.0011 ppm	0.0036 ppm	0.0009 ppm
Concentration per Run 3	0.0027 ppm	0.0002 ppm	0.0013 ppm	-0.0153 ppm	0.0010 ppm	-0.0001 ppm	0.0071 ppm
Recovery Percentage 1	0.841 %	0.360 %	3.998 %	-0.732 %	2.292 %	21.074 %	6.089 %
Concentration RSD	193.4 %	366.4 %	32.2 %	13.3 %	137.1 %	92.5 %	115.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0019 ppm	-0.0111 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0013 ppm	-0.0002 ppm
Concentration per Run 1	-0.0015 ppm	-0.0142 ppm	0.0002 ppm	0.0000 ppm	0.0003 ppm	0.0011 ppm	0.0005 ppm
Concentration per Run 2	-0.0015 ppm	-0.0085 ppm	-0.0003 ppm	0.0001 ppm	0.0001 ppm	0.0010 ppm	-0.0005 ppm
Concentration per Run 3	-0.0028 ppm	-0.0107 ppm	0.0006 ppm	0.0001 ppm	-0.0004 ppm	0.0017 ppm	-0.0006 ppm
Recovery Percentage 1	-19.317 %	-2.227 %	0.311 %	0.620 %	0.170 %	6.412 %	-2.441 %
Concentration RSD	38.2 %	25.5 %	303.4 %	106.5 %	2,223.3 %	30.6 %	250.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0001 ppm	100.4566 %	100.5790 %	100.9055 %	100.6503 %	100.4796 %	100.8326 %
Concentration per Run 1	0.0000 ppm	101.3376 %	100.6721 %	100.4390 %	101.7426 %	100.6200 %	100.6205 %
Concentration per Run 2	0.0002 ppm	100.4512 %	100.2302 %	101.2755 %	100.0577 %	100.0487 %	101.0942 %
Concentration per Run 3	0.0001 ppm	99.5808 %	100.8348 %	101.0020 %	100.1506 %	100.7702 %	100.7830 %
Recovery Percentage 1	1.921 %						
Concentration RSD	79.8 %	0.9 %	0.3 %	0.4 %	0.9 %	0.4 %	0.2 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: LLOQ
Analysis started at: 3/13/2025 8:41:45 AM
Rack 0
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0049 ppm	0.1009 ppm	0.0045 ppm	0.0299 ppm	0.0098 ppm	0.0052 ppm	0.1024 ppm
Concentration per Run 1	0.0046 ppm	0.1007 ppm	0.0018 ppm	0.0296 ppm	0.0098 ppm	0.0051 ppm	0.1009 ppm
Concentration per Run 2	0.0047 ppm	0.0971 ppm	0.0057 ppm	0.0302 ppm	0.0098 ppm	0.0052 ppm	0.1022 ppm
Concentration per Run 3	0.0053 ppm	0.1050 ppm	0.0060 ppm	0.0301 ppm	0.0096 ppm	0.0052 ppm	0.1040 ppm
Recovery Percentage 1	97.888 %	100.936 %	89.967 %	99.823 %	97.526 %	103.330 %	102.372 %
Concentration RSD	8.1 %	3.9 %	52.6 %	1.0 %	1.1 %	0.7 %	1.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0042 ppm	0.0103 ppm	0.0099 ppm	0.0094 ppm	0.0552 ppm	2.5626 ppm	0.0102 ppm
Concentration per Run 1	0.0042 ppm	0.0101 ppm	0.0102 ppm	0.0096 ppm	0.0541 ppm	2.5510 ppm	0.0101 ppm
Concentration per Run 2	0.0041 ppm	0.0100 ppm	0.0099 ppm	0.0092 ppm	0.0563 ppm	2.5439 ppm	0.0103 ppm
Concentration per Run 3	0.0042 ppm	0.0108 ppm	0.0096 ppm	0.0094 ppm	0.0551 ppm	2.5927 ppm	0.0104 ppm
Recovery Percentage 1	104.932 %	102.904 %	99.175 %	93.987 %	110.311 %	102.502 %	102.464 %
Concentration RSD	1.3 %	4.0 %	3.2 %	2.1 %	2.1 %	1.0 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.1041 ppm	0.0101 ppm	0.0500 ppm	2.0290 ppm	0.0211 ppm	0.0119 ppm	0.0515 ppm
Concentration per Run 1	0.1052 ppm	0.0102 ppm	0.0497 ppm	2.0260 ppm	0.0207 ppm	0.0136 ppm	0.0509 ppm
Concentration per Run 2	0.1026 ppm	0.0101 ppm	0.0503 ppm	2.0244 ppm	0.0208 ppm	0.0116 ppm	0.0507 ppm
Concentration per Run 3	0.1046 ppm	0.0099 ppm	0.0499 ppm	2.0367 ppm	0.0217 ppm	0.0105 ppm	0.0528 ppm
Recovery Percentage 1	104.116 %	100.743 %	99.950 %	101.451 %	84.206 %	119.081 %	102.979 %
Concentration RSD	1.3 %	1.3 %	0.7 %	0.3 %	2.7 %	12.9 %	2.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0106 ppm	0.5095 ppm	0.0508 ppm	0.0101 ppm	0.0099 ppm	0.0207 ppm	0.0099 ppm
Concentration per Run 1	0.0100 ppm	0.5135 ppm	0.0508 ppm	0.0099 ppm	0.0099 ppm	0.0202 ppm	0.0102 ppm
Concentration per Run 2	0.0102 ppm	0.5053 ppm	0.0508 ppm	0.0101 ppm	0.0098 ppm	0.0215 ppm	0.0096 ppm
Concentration per Run 3	0.0114 ppm	0.5097 ppm	0.0507 ppm	0.0102 ppm	0.0099 ppm	0.0203 ppm	0.0099 ppm
Recovery Percentage 1	105.605 %	101.896 %	101.582 %	100.719 %	98.757 %	103.442 %	99.138 %
Concentration RSD	7.0 %	0.8 %	0.1 %	1.4 %	0.4 %	3.6 %	2.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0056 ppm	103.8847 %	103.5775 %	103.7294 %	102.1269 %	102.0612 %	102.1637 %
Concentration per Run 1	0.0056 ppm	103.7806 %	103.4940 %	103.4679 %	101.9366 %	102.1554 %	102.4039 %
Concentration per Run 2	0.0058 ppm	104.0962 %	104.0780 %	103.4321 %	102.4882 %	102.1631 %	101.6081 %
Concentration per Run 3	0.0054 ppm	103.7773 %	103.1605 %	104.2883 %	101.9561 %	101.8651 %	102.4790 %
Recovery Percentage 1	111.525 %						
Concentration RSD	3.5 %	0.2 %	0.4 %	0.5 %	0.3 %	0.2 %	0.5 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: ICSA
Analysis started at: 3/13/2025 8:45:20 AM
Rack 0
Vial 6
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0016 ppm	522.5802 [SIC 500]	-0.0054 ppm	-0.0071 ppm	0.0015 ppm	0.0000 ppm	490.7384 ppm
Concentration per Run 1	-0.0016 ppm	523.3868 ppm	-0.0062 ppm	-0.0081 ppm	0.0016 ppm	0.0001 ppm	488.8909 ppm
Concentration per Run 2	-0.0017 ppm	522.7577 ppm	-0.0036 ppm	-0.0091 ppm	0.0015 ppm	0.0000 ppm	491.3506 ppm
Concentration per Run 3	-0.0014 ppm	521.5961 ppm	-0.0065 ppm	-0.0042 ppm	0.0013 ppm	0.0000 ppm	491.9736 ppm
Recovery Percentage 1	-22.169 %		-108.859 %	-23.735 %	14.708 %	1.093 %	
Concentration RSD	8.8 %	0.2 %	29.8 %	36.4 %	9.1 %	41.6 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0012 ppm	-0.0009 ppm	-0.0010 ppm	-0.0054 ppm	192.5513 ppm	-0.0123 ppm	-0.0036 ppm
Concentration per Run 1	-0.0012 ppm	-0.0009 ppm	-0.0005 ppm	-0.0052 ppm	192.3822 ppm	0.0013 ppm	-0.0036 ppm
Concentration per Run 2	-0.0012 ppm	-0.0015 ppm	-0.0010 ppm	-0.0054 ppm	192.0111 ppm	-0.0234 ppm	-0.0033 ppm
Concentration per Run 3	-0.0012 ppm	-0.0003 ppm	-0.0015 ppm	-0.0056 ppm	193.2608 ppm	-0.0146 ppm	-0.0038 ppm
Recovery Percentage 1	-24.328 %	-4.516 %	-10.289 %	-53.847 %		-0.490 %	-71.326 %
Concentration RSD	1.3 %	65.5 %	49.5 %	3.9 %	0.3 %	102.3 %	7.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	488.9938 ppm	-0.0004 ppm	-0.0012 ppm	0.0022 ppm	0.0008 ppm	0.0002 ppm	-0.0138 ppm
Concentration per Run 1	490.1868 ppm	-0.0002 ppm	-0.0005 ppm	0.0041 ppm	0.0009 ppm	0.0001 ppm	-0.0131 ppm
Concentration per Run 2	488.7827 ppm	-0.0004 ppm	-0.0021 ppm	-0.0010 ppm	0.0007 ppm	-0.0021 ppm	-0.0125 ppm
Concentration per Run 3	488.0120 ppm	-0.0005 ppm	-0.0011 ppm	0.0035 ppm	0.0009 ppm	0.0026 ppm	-0.0158 ppm
Recovery Percentage 1		-3.713 %	-2.431 %	0.109 %	3.209 %	2.099 %	-27.645 %
Concentration RSD	0.2 %	41.4 %	68.1 %	127.4 %	13.3 %	1,120.6 %	12.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0015 ppm	0.0007 ppm	0.0008 ppm	0.0026 ppm	0.0034 ppm	0.0047 ppm	-0.0016 ppm
Concentration per Run 1	-0.0012 ppm	0.0027 ppm	0.0007 ppm	0.0027 ppm	0.0033 ppm	0.0043 ppm	-0.0020 ppm
Concentration per Run 2	-0.0009 ppm	0.0011 ppm	0.0017 ppm	0.0024 ppm	0.0034 ppm	0.0042 ppm	-0.0015 ppm
Concentration per Run 3	-0.0023 ppm	-0.0017 ppm	0.0000 ppm	0.0027 ppm	0.0036 ppm	0.0056 ppm	-0.0014 ppm
Recovery Percentage 1	-14.835 %	0.142 %	1.602 %	26.002 %	34.236 %	23.440 %	-16.196 %
Concentration RSD	48.0 %	312.5 %	103.7 %	5.7 %	3.6 %	17.0 %	19.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0026 ppm	96.9918 %	93.5638 %	89.1982 %	93.5263 %	91.3443 %	89.8600 %
Concentration per Run 1	-0.0030 ppm	96.6106 %	93.5532 %	89.4396 %	92.9302 %	92.0986 %	89.8936 %
Concentration per Run 2	-0.0020 ppm	96.9770 %	94.0769 %	88.6624 %	93.7343 %	91.6347 %	89.6049 %
Concentration per Run 3	-0.0028 ppm	97.3879 %	93.0613 %	89.4926 %	93.9146 %	90.2998 %	90.0814 %
Recovery Percentage 1	-52.272 %						
Concentration RSD	20.5 %	0.4 %	0.5 %	0.5 %	0.6 %	1.0 %	0.3 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: SIC Multi
Analysis started at: 3/13/2025 8:50:50 AM
Rack 0
Vial 7
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0010 ppm	0.0054 ppm	-0.0018 ppm	0.0012 ppm	0.0002 ppm	-0.0005 ppm	-0.0180 ppm
Concentration per Run 1	-0.0010 ppm	0.0093 ppm	-0.0018 ppm	0.0010 ppm	0.0003 ppm	-0.0004 ppm	-0.0189 ppm
Concentration per Run 2	-0.0010 ppm	0.0042 ppm	-0.0019 ppm	0.0008 ppm	0.0002 ppm	-0.0004 ppm	-0.0153 ppm
Concentration per Run 3	-0.0010 ppm	0.0027 ppm	-0.0016 ppm	0.0016 ppm	0.0000 ppm	-0.0005 ppm	-0.0197 ppm
Recovery Percentage 1	-14.148 %	5.404 %	-35.493 %	3.842 %	1.569 %	-11.584 %	-17.985 %
Concentration RSD	3.0 %	63.6 %	11.4 %	37.4 %	91.6 %	15.3 %	13.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0004 ppm	-0.0035 ppm	**20.4772 ppm**	-0.0024 ppm	0.0062 ppm	-0.0258 ppm	0.0004 ppm
Concentration per Run 1	-0.0003 ppm	-0.0038 ppm	20.5413 ppm	-0.0026 ppm	0.0063 ppm	-0.0320 ppm	-0.0006 ppm
Concentration per Run 2	-0.0003 ppm	-0.0031 ppm	20.4803 ppm	-0.0020 ppm	0.0055 ppm	-0.0277 ppm	0.0003 ppm
Concentration per Run 3	-0.0005 ppm	-0.0037 ppm	20.4101 ppm	-0.0026 ppm	0.0067 ppm	-0.0178 ppm	0.0016 ppm
Recovery Percentage 1	-7.238 %	-17.555 %	204,772.432 %	-24.053 %	12.337 %	-1.033 %	8.651 %
Concentration RSD	36.4 %	9.6 %	**0.3 %**	13.8 %	9.6 %	28.3 %	248.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0076 ppm	**20.1255 [SIC 100]**	-0.0019 ppm	-0.0129 ppm	0.0010 ppm	0.0000 ppm	-0.0022 ppm
Concentration per Run 1	-0.0023 ppm	20.1479 ppm	-0.0029 ppm	-0.0107 ppm	0.0014 ppm	0.0009 ppm	-0.0025 ppm
Concentration per Run 2	-0.0098 ppm	20.0576 ppm	-0.0017 ppm	-0.0106 ppm	0.0005 ppm	-0.0005 ppm	-0.0005 ppm
Concentration per Run 3	-0.0105 ppm	20.1711 ppm	-0.0010 ppm	-0.0175 ppm	0.0013 ppm	-0.0005 ppm	-0.0037 ppm
Recovery Percentage 1	-7.552 %	201,255.390 %	-3.760 %	-0.646 %	4.185 %	-0.173 %	-4.454 %
Concentration RSD	60.2 %	**0.3 %**	49.2 %	30.5 %	45.6 %	4,652.3 %	72.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0031 ppm	0.0488 ppm	0.0015 ppm	0.0000 ppm	**19.7627 ppm**	0.0017 ppm	**10.0684 [SIC 10]**
Concentration per Run 1	-0.0048 ppm	0.0096 ppm	0.0008 ppm	0.0001 ppm	19.7974 ppm	0.0005 ppm	10.0380 ppm
Concentration per Run 2	-0.0012 ppm	0.0622 ppm	0.0024 ppm	0.0000 ppm	19.7447 ppm	0.0029 ppm	10.1087 ppm
Concentration per Run 3	-0.0033 ppm	0.0745 ppm	0.0013 ppm	0.0001 ppm	19.7461 ppm	0.0018 ppm	10.0586 ppm
Recovery Percentage 1	-31.093 %	9.756 %	2.989 %	0.473 %	197,627.443 %	8.723 %	100,684.302 %
Concentration RSD	58.5 %	70.7 %	55.8 %	177.6 %	**0.2 %**	66.8 %	**0.4 %**

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0007 ppm	102.6684 %	102.3670 %	105.7011 %	100.8420 %	100.0128 %	102.2320 %
Concentration per Run 1	-0.0012 ppm	102.6985 %	102.0513 %	106.2625 %	100.5839 %	99.9044 %	102.8827 %
Concentration per Run 2	-0.0003 ppm	102.9419 %	102.8421 %	105.4754 %	101.2800 %	100.4366 %	102.1310 %
Concentration per Run 3	-0.0005 ppm	102.3647 %	102.2077 %	105.3655 %	100.6619 %	99.6973 %	101.6823 %
Recovery Percentage 1	-13.368 %						
Concentration RSD	65.8 %	0.3 %	0.4 %	0.5 %	0.4 %	0.4 %	0.6 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: LDR Check
Analysis started at: 3/13/2025 8:55:23 AM
Rack 0
Vial 8
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0029 ppm	0.0143 ppm	20.4218 ppm	19.1087 ppm	19.4708 ppm	4.8318 ppm	0.0254 ppm
Concentration per Run 1	0.0027 ppm	0.0185 ppm	20.3356 ppm	19.1205 ppm	19.4581 ppm	4.8270 ppm	0.0291 ppm
Concentration per Run 2	0.0032 ppm	0.0092 ppm	20.4058 ppm	19.1334 ppm	19.5269 ppm	4.8465 ppm	0.0209 ppm
Concentration per Run 3	0.0028 ppm	0.0151 ppm	20.5239 ppm	19.0723 ppm	19.4273 ppm	4.8220 ppm	0.0263 ppm
Recovery Percentage 1			102.109 %	95.544 %	97.354 %		
Concentration RSD	8.7 %	33.0 %	0.5 %	0.2 %	0.3 %	0.3 %	16.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	4.6472 ppm	4.8417 ppm	0.0013 ppm	20.4023 [SIC 60]	0.0016 ppm	515.1333 ppm	19.0673 ppm
Concentration per Run 1	4.6660 ppm	4.8445 ppm	0.0019 ppm	20.3937 ppm	0.0029 ppm	511.5094 ppm	18.9451 ppm
Concentration per Run 2	4.6546 ppm	4.8353 ppm	0.0015 ppm	20.4080 ppm	0.0007 ppm	518.7672 ppm	19.0702 ppm
Concentration per Run 3	4.6209 ppm	4.8454 ppm	0.0004 ppm	20.4051 ppm	0.0011 ppm	515.1232 ppm	19.1867 ppm
Recovery Percentage 1	92.944 %	96.835 %		102.011 %		103.027 %	95.337 %
Concentration RSD	0.5 %	0.1 %	63.6 %	0.0 %	74.7 %	0.7 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0049 ppm	0.0004 ppm	5.0003 [SIC 20]	459.3187 ppm	9.4207 ppm	52.4709 ppm	4.9940 ppm
Concentration per Run 1	-0.0024 ppm	0.0004 ppm	4.9863 ppm	457.4592 ppm	9.4527 ppm	52.0610 ppm	4.9865 ppm
Concentration per Run 2	-0.0054 ppm	0.0003 ppm	5.0054 ppm	459.6915 ppm	9.4025 ppm	52.5340 ppm	4.9906 ppm
Concentration per Run 3	-0.0070 ppm	0.0005 ppm	5.0094 ppm	460.8053 ppm	9.4069 ppm	52.8176 ppm	5.0048 ppm
Recovery Percentage 1		0.000 %	100.007 %	91.864 %	94.207 %	104.942 %	99.879 %
Concentration RSD	47.8 %	32.5 %	0.2 %	0.4 %	0.3 %	0.7 %	0.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	4.8933 ppm	21.0545 [SIC 100]	9.7676 ppm	5.0620 ppm	0.0093 ppm	5.1149 ppm	0.0025 ppm
Concentration per Run 1	4.8758 ppm	21.0212 ppm	9.7586 ppm	5.0600 ppm	0.0107 ppm	5.0844 ppm	0.0024 ppm
Concentration per Run 2	4.9007 ppm	21.1795 ppm	9.7399 ppm	5.0757 ppm	0.0090 ppm	5.1097 ppm	0.0028 ppm
Concentration per Run 3	4.9034 ppm	20.9626 ppm	9.8043 ppm	5.0503 ppm	0.0083 ppm	5.1507 ppm	0.0022 ppm
Recovery Percentage 1	97.866 %	105.272 %	97.676 %	101.240 %	0.000 %	102.299 %	0.000 %
Concentration RSD	0.3 %	0.5 %	0.3 %	0.3 %	13.6 %	0.7 %	13.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	18.6063 ppm	103.6574 %	97.1892 %	100.7275 %	102.3412 %	95.4827 %	94.1765 %
Concentration per Run 1	18.6448 ppm	103.8440 %	97.6147 %	101.2240 %	102.5841 %	95.7444 %	94.4101 %
Concentration per Run 2	18.5292 ppm	103.9818 %	96.9968 %	100.5191 %	102.9540 %	95.3618 %	93.8190 %
Concentration per Run 3	18.6449 ppm	103.1463 %	96.9562 %	100.4393 %	101.4855 %	95.3420 %	94.3004 %
Recovery Percentage 1	93.031 %						
Concentration RSD	0.4 %	0.4 %	0.4 %	0.4 %	0.7 %	0.2 %	0.3 %

LabBook: WG2039956_03132025T9.imexp

Sample: LLOQ 0.005ppm As
Analysis started at: 3/13/2025 9:30:48 AM
Rack 1
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0049 ppm	0.0073 ppm	0.0042 ppm	0.0046 ppm	0.0052 ppm	0.0052 ppm	0.0116 ppm
Concentration per Run 1	0.0050 ppm	0.0056 ppm	0.0040 ppm	0.0043 ppm	0.0051 ppm	0.0052 ppm	0.0089 ppm
Concentration per Run 2	0.0050 ppm	0.0039 ppm	0.0052 ppm	0.0046 ppm	0.0052 ppm	0.0052 ppm	0.0132 ppm
Concentration per Run 3	0.0048 ppm	0.0124 ppm	0.0035 ppm	0.0048 ppm	0.0051 ppm	0.0051 ppm	0.0128 ppm
Recovery Percentage 1	98.606 %	0.000 %	84.435 %	0.000 %	0.000 %	103.137 %	0.000 %
Concentration RSD	2.8 %	61.7 %	20.0 %	6.1 %	1.2 %	1.5 %	20.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0051 ppm	0.0054 ppm	0.0051 ppm	0.0040 ppm	0.0061 ppm	0.0681 ppm	0.0053 ppm
Concentration per Run 1	0.0051 ppm	0.0053 ppm	0.0050 ppm	0.0038 ppm	0.0075 ppm	0.0630 ppm	0.0047 ppm
Concentration per Run 2	0.0050 ppm	0.0057 ppm	0.0052 ppm	0.0042 ppm	0.0055 ppm	0.0721 ppm	0.0055 ppm
Concentration per Run 3	0.0051 ppm	0.0053 ppm	0.0052 ppm	0.0040 ppm	0.0053 ppm	0.0691 ppm	0.0055 ppm
Recovery Percentage 1	101.275 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	1.4 %	4.2 %	2.1 %	5.3 %	20.5 %	6.8 %	9.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0074 ppm	0.0051 ppm	0.0049 ppm	0.0961 ppm	0.0060 ppm	0.0076 ppm	0.0051 ppm
Concentration per Run 1	0.0093 ppm	0.0051 ppm	0.0046 ppm	0.1005 ppm	0.0059 ppm	0.0088 ppm	0.0023 ppm
Concentration per Run 2	0.0070 ppm	0.0051 ppm	0.0052 ppm	0.0936 ppm	0.0059 ppm	0.0069 ppm	0.0051 ppm
Concentration per Run 3	0.0061 ppm	0.0050 ppm	0.0049 ppm	0.0942 ppm	0.0063 ppm	0.0072 ppm	0.0081 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	21.7 %	1.2 %	6.4 %	4.0 %	4.0 %	13.7 %	57.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0043 ppm	0.0419 ppm	0.0053 ppm	0.0053 ppm	0.0051 ppm	0.0061 ppm	0.0050 ppm
Concentration per Run 1	0.0039 ppm	0.0397 ppm	0.0063 ppm	0.0054 ppm	0.0052 ppm	0.0055 ppm	0.0051 ppm
Concentration per Run 2	0.0056 ppm	0.0429 ppm	0.0062 ppm	0.0053 ppm	0.0048 ppm	0.0064 ppm	0.0052 ppm
Concentration per Run 3	0.0035 ppm	0.0433 ppm	0.0033 ppm	0.0052 ppm	0.0052 ppm	0.0063 ppm	0.0047 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	25.3 %	4.7 %	32.2 %	1.7 %	4.9 %	7.8 %	5.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0057 ppm	102.7965 %	102.1148 %	107.3250 %	103.1738 %	102.0786 %	105.7339 %
Concentration per Run 1	0.0059 ppm	102.6909 %	100.4760 %	104.6392 %	103.6109 %	100.6988 %	103.1748 %
Concentration per Run 2	0.0057 ppm	103.1556 %	102.2331 %	114.5275 %	103.2702 %	102.0841 %	111.7209 %
Concentration per Run 3	0.0057 ppm	102.5431 %	103.6353 %	102.8083 %	102.6404 %	103.4531 %	102.3062 %
Recovery Percentage 1	114.683 %						
Concentration RSD	1.8 %	0.3 %	1.6 %	5.9 %	0.5 %	1.3 %	4.9 %

LabBook: WG2039956_03132025T9.imexp

Sample: zLLOQ 0.01ppm
Analysis started at: 3/13/2025 9:34:26 AM
Rack 1
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0093 ppm	0.0068 ppm	0.0101 ppm	0.0086 ppm	0.0100 ppm	0.0102 ppm	0.0139 ppm
Concentration per Run 1	0.0096 ppm	0.0063 ppm	0.0096 ppm	0.0093 ppm	0.0100 ppm	0.0102 ppm	0.0127 ppm
Concentration per Run 2	0.0091 ppm	0.0058 ppm	0.0115 ppm	0.0073 ppm	0.0099 ppm	0.0102 ppm	0.0163 ppm
Concentration per Run 3	0.0092 ppm	0.0081 ppm	0.0092 ppm	0.0093 ppm	0.0100 ppm	0.0102 ppm	0.0129 ppm
Recovery Percentage 1	0.000 %	0.000 %	101.129 %	86.342 %	99.530 %	0.000 %	0.000 %
Concentration RSD	3.1 %	18.0 %	12.3 %	12.9 %	0.2 %	0.3 %	14.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0103 ppm	0.0110 ppm	0.0103 ppm	0.0089 ppm	0.0112 ppm	0.1020 ppm	0.0101 ppm
Concentration per Run 1	0.0102 ppm	0.0111 ppm	0.0107 ppm	0.0086 ppm	0.0115 ppm	0.1052 ppm	0.0110 ppm
Concentration per Run 2	0.0102 ppm	0.0106 ppm	0.0102 ppm	0.0086 ppm	0.0101 ppm	0.0956 ppm	0.0103 ppm
Concentration per Run 3	0.0103 ppm	0.0114 ppm	0.0101 ppm	0.0094 ppm	0.0119 ppm	0.1052 ppm	0.0092 ppm
Recovery Percentage 1	0.000 %	110.356 %	103.142 %	88.740 %	0.000 %	0.000 %	101.482 %
Concentration RSD	0.7 %	3.9 %	3.1 %	5.3 %	8.1 %	5.4 %	8.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0120 ppm	0.0101 ppm	0.0092 ppm	0.1966 ppm	0.0108 ppm	0.0120 ppm	0.0096 ppm
Concentration per Run 1	0.0140 ppm	0.0099 ppm	0.0091 ppm	0.2015 ppm	0.0113 ppm	0.0126 ppm	0.0094 ppm
Concentration per Run 2	0.0103 ppm	0.0100 ppm	0.0089 ppm	0.1969 ppm	0.0111 ppm	0.0118 ppm	0.0124 ppm
Concentration per Run 3	0.0116 ppm	0.0102 ppm	0.0094 ppm	0.1913 ppm	0.0099 ppm	0.0116 ppm	0.0069 ppm
Recovery Percentage 1	0.000 %	100.675 %	91.581 %	0.000 %	107.725 %	119.971 %	0.000 %
Concentration RSD	15.9 %	1.5 %	2.9 %	2.6 %	7.0 %	4.4 %	28.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0099 ppm	0.0943 ppm	0.0091 ppm	0.0101 ppm	0.0101 ppm	0.0116 ppm	0.0098 ppm
Concentration per Run 1	0.0072 ppm	0.0955 ppm	0.0098 ppm	0.0100 ppm	0.0099 ppm	0.0120 ppm	0.0096 ppm
Concentration per Run 2	0.0092 ppm	0.0938 ppm	0.0082 ppm	0.0101 ppm	0.0103 ppm	0.0113 ppm	0.0100 ppm
Concentration per Run 3	0.0133 ppm	0.0938 ppm	0.0092 ppm	0.0102 ppm	0.0102 ppm	0.0114 ppm	0.0098 ppm
Recovery Percentage 1	98.995 %	0.000 %	90.593 %	101.136 %	101.223 %	115.741 %	98.070 %
Concentration RSD	31.6 %	1.1 %	9.0 %	1.5 %	2.2 %	3.2 %	2.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0107 ppm	103.2425 %	103.1008 %	104.7758 %	102.8268 %	102.7817 %	104.1421 %
Concentration per Run 1	0.0107 ppm	103.3547 %	102.7463 %	104.7411 %	103.5266 %	102.4300 %	104.2477 %
Concentration per Run 2	0.0109 ppm	103.7882 %	103.1485 %	104.7215 %	103.1359 %	102.7613 %	103.9158 %
Concentration per Run 3	0.0104 ppm	102.5844 %	103.4077 %	104.8646 %	101.8180 %	103.1538 %	104.2628 %
Recovery Percentage 1	106.799 %						
Concentration RSD	2.6 %	0.6 %	0.3 %	0.1 %	0.9 %	0.4 %	0.2 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: CCV
Analysis started at: 3/13/2025 9:49:03 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4686 ppm	0.4817 ppm	0.4874 ppm	0.4860 ppm	0.4853 ppm	0.5096 ppm	0.5056 ppm
Concentration per Run 1	0.4711 ppm	0.4292 ppm	0.4921 ppm	0.4896 ppm	0.4266 ppm	0.4492 ppm	0.4429 ppm
Concentration per Run 2	0.4671 ppm	0.5272 ppm	0.4864 ppm	0.4859 ppm	0.5296 ppm	0.5554 ppm	0.5496 ppm
Concentration per Run 3	0.4675 ppm	0.4887 ppm	0.4836 ppm	0.4823 ppm	0.4999 ppm	0.5242 ppm	0.5242 ppm
Recovery Percentage 1	93.714 %	96.346 %	97.481 %	97.195 %	97.069 %	101.924 %	101.111 %
Concentration RSD	0.5 %	10.3 %	0.9 %	0.8 %	10.9 %	10.7 %	11.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5013 ppm	0.5120 ppm	0.4983 ppm	0.4710 ppm	0.5172 ppm	5.1229 ppm	0.4964 ppm
Concentration per Run 1	0.5030 ppm	0.5109 ppm	0.5008 ppm	0.4710 ppm	0.4607 ppm	4.6018 ppm	0.4419 ppm
Concentration per Run 2	0.5006 ppm	0.5117 ppm	0.4946 ppm	0.4694 ppm	0.5635 ppm	5.5349 ppm	0.5389 ppm
Concentration per Run 3	0.5004 ppm	0.5136 ppm	0.4996 ppm	0.4726 ppm	0.5274 ppm	5.2321 ppm	0.5084 ppm
Recovery Percentage 1	100.265 %	102.406 %	99.666 %	94.203 %	103.439 %	102.458 %	99.275 %
Concentration RSD	0.3 %	0.3 %	0.7 %	0.3 %	10.1 %	9.3 %	10.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4945 ppm	0.4972 ppm	0.4959 ppm	9.9426 ppm	0.5099 ppm	0.5053 ppm	0.4952 ppm
Concentration per Run 1	0.4961 ppm	0.4386 ppm	0.4945 ppm	8.8080 ppm	0.5137 ppm	0.5083 ppm	0.4963 ppm
Concentration per Run 2	0.4935 ppm	0.5420 ppm	0.4949 ppm	10.8058 ppm	0.5087 ppm	0.5015 ppm	0.4979 ppm
Concentration per Run 3	0.4941 ppm	0.5111 ppm	0.4982 ppm	10.2140 ppm	0.5074 ppm	0.5063 ppm	0.4913 ppm
Recovery Percentage 1	98.910 %	99.443 %	99.173 %	99.426 %	101.984 %	101.068 %	99.036 %
Concentration RSD	0.3 %	10.7 %	0.4 %	10.3 %	0.6 %	0.7 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4915 ppm	5.4617 ppm	0.5147 ppm	0.5046 ppm	0.4982 ppm	0.4920 ppm	0.4934 ppm
Concentration per Run 1	0.4935 ppm	5.4847 ppm	0.5176 ppm	0.4451 ppm	0.4997 ppm	0.4924 ppm	0.4947 ppm
Concentration per Run 2	0.4935 ppm	5.4527 ppm	0.5138 ppm	0.5518 ppm	0.4969 ppm	0.4930 ppm	0.4926 ppm
Concentration per Run 3	0.4876 ppm	5.4478 ppm	0.5129 ppm	0.5168 ppm	0.4980 ppm	0.4908 ppm	0.4929 ppm
Recovery Percentage 1	98.308 %	104.033 %	102.948 %	100.910 %	99.639 %	98.407 %	98.681 %
Concentration RSD	0.7 %	0.4 %	0.5 %	10.8 %	0.3 %	0.2 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5077 ppm	103.3087 %	103.2091 %	104.2351 %	101.6425 %	101.5680 %	101.4155 %
Concentration per Run 1	0.5103 ppm	103.8352 %	114.5251 %	104.0199 %	101.8692 %	111.0148 %	101.5602 %
Concentration per Run 2	0.5062 ppm	103.4229 %	95.2282 %	104.5275 %	101.3806 %	94.2235 %	101.2629 %
Concentration per Run 3	0.5066 ppm	102.6680 %	99.8739 %	104.1578 %	101.6777 %	99.4656 %	101.4236 %
Recovery Percentage 1	101.541 %						
Concentration RSD	0.4 %	0.6 %	9.8 %	0.3 %	0.2 %	8.5 %	0.1 %

LabBook: WG2039956_03132025T9.imexp

Sample: CCB
Analysis started at: 3/13/2025 9:52:43 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	-0.0020 ppm	-0.0012 ppm	-0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0019 ppm
Concentration per Run 1	0.0005 ppm	0.0004 ppm	-0.0009 ppm	-0.0004 ppm	0.0001 ppm	0.0000 ppm	-0.0003 ppm
Concentration per Run 2	0.0001 ppm	-0.0031 ppm	-0.0003 ppm	-0.0010 ppm	-0.0002 ppm	0.0000 ppm	0.0055 ppm
Concentration per Run 3	0.0003 ppm	-0.0034 ppm	-0.0023 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0004 ppm
Recovery Percentage 1	3.993 %	-2.012 %	-23.419 %	-1.249 %	-0.118 %	-0.383 %	1.887 %
Concentration RSD	73.6 %	105.6 %	84.4 %	170.7 %	1,436.3 %	106.4 %	166.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0002 ppm	-0.0011 ppm	-0.0032 ppm	0.0005 ppm
Concentration per Run 1	0.0001 ppm	-0.0004 ppm	0.0003 ppm	-0.0002 ppm	-0.0013 ppm	-0.0319 ppm	0.0003 ppm
Concentration per Run 2	0.0001 ppm	0.0002 ppm	-0.0003 ppm	0.0005 ppm	0.0011 ppm	0.0022 ppm	0.0000 ppm
Concentration per Run 3	-0.0002 ppm	0.0002 ppm	-0.0004 ppm	0.0004 ppm	-0.0029 ppm	0.0199 ppm	0.0014 ppm
Recovery Percentage 1	-0.558 %	-0.004 %	-1.162 %	2.347 %	-2.145 %	-0.130 %	10.957 %
Concentration RSD	657.3 %	37,693.4 %	289.6 %	155.7 %	187.7 %	809.7 %	135.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0015 ppm	-0.0116 ppm	-0.0006 ppm	0.0016 ppm	0.0009 ppm
Concentration per Run 1	0.0002 ppm	0.0000 ppm	0.0018 ppm	-0.0127 ppm	-0.0006 ppm	0.0026 ppm	0.0025 ppm
Concentration per Run 2	-0.0001 ppm	-0.0003 ppm	0.0012 ppm	-0.0071 ppm	-0.0006 ppm	0.0000 ppm	-0.0016 ppm
Concentration per Run 3	-0.0001 ppm	-0.0002 ppm	0.0014 ppm	-0.0149 ppm	-0.0004 ppm	0.0022 ppm	0.0018 ppm
Recovery Percentage 1	-0.004 %	-1.406 %	2.971 %	-0.579 %	-2.235 %	15.820 %	1.770 %
Concentration RSD	5,960.1 %	83.1 %	22.0 %	34.6 %	19.0 %	88.5 %	250.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0007 ppm	-0.0079 ppm	0.0004 ppm	0.0000 ppm	-0.0003 ppm	0.0009 ppm	0.0001 ppm
Concentration per Run 1	0.0003 ppm	-0.0086 ppm	0.0012 ppm	0.0001 ppm	-0.0004 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 2	0.0010 ppm	-0.0072 ppm	-0.0015 ppm	0.0001 ppm	-0.0004 ppm	0.0025 ppm	0.0000 ppm
Concentration per Run 3	0.0008 ppm	-0.0079 ppm	0.0015 ppm	-0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0003 ppm
Recovery Percentage 1	7.085 %	-1.581 %	0.814 %	0.456 %	-2.873 %	4.709 %	1.416 %
Concentration RSD	50.7 %	8.9 %	406.2 %	314.0 %	79.0 %	143.5 %	109.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	100.0858 %	99.9881 %	101.0594 %	101.0586 %	100.3090 %	101.0447 %
Concentration per Run 1	0.0005 ppm	98.9758 %	99.8554 %	101.6154 %	100.4572 %	100.5469 %	101.3593 %
Concentration per Run 2	0.0001 ppm	100.9453 %	100.2585 %	101.4798 %	101.7575 %	100.5061 %	101.1320 %
Concentration per Run 3	-0.0004 ppm	100.3363 %	99.8503 %	100.0830 %	100.9612 %	99.8740 %	100.6429 %
Recovery Percentage 1	0.545 %						
Concentration RSD	1,648.1 %	1.0 %	0.2 %	0.8 %	0.6 %	0.4 %	0.4 %

LabBook: WG2039956_03132025T9.imexp

Sample: WG2039414-1 WG2039414
Analysis started at: 3/13/2025 10:12:16 AM
Rack 1
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0014 ppm	0.0001 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	0.0144 ppm
Concentration per Run 1	-0.0003 ppm	0.0052 ppm	0.0000 ppm	0.0014 ppm	-0.0001 ppm	0.0000 ppm	0.0110 ppm
Concentration per Run 2	-0.0005 ppm	0.0034 ppm	0.0001 ppm	0.0008 ppm	0.0001 ppm	0.0000 ppm	0.0167 ppm
Concentration per Run 3	-0.0001 ppm	-0.0042 ppm	0.0002 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0156 ppm
Recovery Percentage 1	-4.370 %	1.435 %	1.424 %	2.728 %	0.491 %	-0.192 %	14.411 %
Concentration RSD	67.0 %	347.9 %	147.8 %	65.7 %	244.8 %	255.8 %	21.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0001 ppm	-0.0002 ppm	-0.0001 ppm	-0.0007 ppm	-0.0294 ppm	-0.0001 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0002 ppm	-0.0008 ppm	-0.0316 ppm	-0.0003 ppm
Concentration per Run 2	-0.0001 ppm	0.0005 ppm	-0.0004 ppm	-0.0004 ppm	0.0002 ppm	-0.0316 ppm	0.0004 ppm
Concentration per Run 3	-0.0002 ppm	-0.0007 ppm	-0.0003 ppm	-0.0002 ppm	-0.0014 ppm	-0.0249 ppm	-0.0003 ppm
Recovery Percentage 1	-2.131 %	-0.487 %	-2.406 %	-1.326 %	-1.377 %	-1.174 %	-1.631 %
Concentration RSD	62.9 %	577.9 %	74.6 %	221.3 %	119.9 %	13.2 %	477.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0039 ppm	0.0004 ppm	0.0001 ppm	-0.0120 ppm	0.0001 ppm	0.0005 ppm	0.0010 ppm
Concentration per Run 1	0.0038 ppm	0.0006 ppm	0.0002 ppm	-0.0097 ppm	-0.0007 ppm	0.0023 ppm	0.0021 ppm
Concentration per Run 2	0.0054 ppm	0.0004 ppm	-0.0003 ppm	-0.0074 ppm	-0.0005 ppm	-0.0003 ppm	-0.0004 ppm
Concentration per Run 3	0.0024 ppm	0.0004 ppm	0.0003 ppm	-0.0189 ppm	0.0016 ppm	-0.0003 ppm	0.0012 ppm
Recovery Percentage 1	3.887 %	4.474 %	0.112 %	-0.600 %	0.550 %	5.420 %	1.929 %
Concentration RSD	38.8 %	26.4 %	541.4 %	51.0 %	915.1 %	279.1 %	129.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0014 ppm	-0.0081 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0009 ppm	-0.0001 ppm
Concentration per Run 1	-0.0029 ppm	-0.0060 ppm	0.0017 ppm	0.0001 ppm	0.0000 ppm	0.0031 ppm	-0.0001 ppm
Concentration per Run 2	-0.0024 ppm	-0.0049 ppm	-0.0008 ppm	0.0000 ppm	0.0003 ppm	0.0006 ppm	0.0000 ppm
Concentration per Run 3	0.0012 ppm	-0.0133 ppm	-0.0004 ppm	0.0001 ppm	-0.0002 ppm	-0.0011 ppm	-0.0002 ppm
Recovery Percentage 1	-13.786 %	-1.619 %	0.326 %	0.485 %	0.305 %	4.354 %	-1.069 %
Concentration RSD	161.7 %	56.2 %	825.3 %	56.7 %	956.2 %	240.9 %	105.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	98.0980 %	103.6355 %	103.1131 %	98.1162 %	103.3055 %	102.8817 %
Concentration per Run 1	0.0002 ppm	91.9763 %	104.2595 %	114.3931 %	89.8655 %	103.8152 %	110.6358 %
Concentration per Run 2	0.0009 ppm	99.8959 %	103.1608 %	91.8112 %	100.6748 %	103.2199 %	93.2347 %
Concentration per Run 3	0.0006 ppm	102.4217 %	103.4862 %	103.1351 %	103.8083 %	102.8813 %	104.7745 %
Recovery Percentage 1	11.416 %						
Concentration RSD	62.6 %	5.6 %	0.5 %	11.0 %	7.5 %	0.5 %	8.6 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: WG2039414-2 WG2039414
Analysis started at: 3/13/2025 10:15:48 AM
Rack 1
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0491 ppm	2.0185 ppm	0.1180 ppm	0.9849 ppm	1.9731 ppm	0.0513 ppm	10.4962 ppm
Concentration per Run 1	0.0496 ppm	2.0232 ppm	0.1160 ppm	0.9871 ppm	1.9687 ppm	0.0513 ppm	10.5136 ppm
Concentration per Run 2	0.0487 ppm	2.0210 ppm	0.1193 ppm	0.9884 ppm	1.9792 ppm	0.0513 ppm	10.4927 ppm
Concentration per Run 3	0.0489 ppm	2.0114 ppm	0.1187 ppm	0.9791 ppm	1.9715 ppm	0.0512 ppm	10.4824 ppm
Concentration RSD	0.9 %	0.3 %	1.5 %	0.5 %	0.3 %	0.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0527 ppm	0.4996 ppm	0.1959 ppm	0.2412 ppm	1.0464 ppm	10.6416 ppm	0.0003 ppm
Concentration per Run 1	0.0525 ppm	0.4988 ppm	0.1962 ppm	0.2400 ppm	1.0397 ppm	10.6428 ppm	0.0005 ppm
Concentration per Run 2	0.0529 ppm	0.5009 ppm	0.1962 ppm	0.2394 ppm	1.0495 ppm	10.6812 ppm	0.0002 ppm
Concentration per Run 3	0.0528 ppm	0.4992 ppm	0.1955 ppm	0.2441 ppm	1.0500 ppm	10.6008 ppm	0.0003 ppm
Concentration RSD	0.4 %	0.2 %	0.2 %	1.1 %	0.6 %	0.4 %	41.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.2563 ppm	0.5046 ppm	0.9995 ppm	10.6393 ppm	0.4966 ppm	0.5496 ppm	0.4108 ppm
Concentration per Run 1	10.2746 ppm	0.5050 ppm	0.9912 ppm	10.6438 ppm	0.4992 ppm	0.5507 ppm	0.4026 ppm
Concentration per Run 2	10.2312 ppm	0.5041 ppm	1.0043 ppm	10.6828 ppm	0.4970 ppm	0.5478 ppm	0.4148 ppm
Concentration per Run 3	10.2630 ppm	0.5046 ppm	1.0032 ppm	10.5913 ppm	0.4936 ppm	0.5503 ppm	0.4150 ppm
Concentration RSD	0.2 %	0.1 %	0.7 %	0.4 %	0.6 %	0.3 %	1.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1170 ppm	1.0982 ppm	0.9964 ppm	1.0317 ppm	1.0246 ppm	0.1150 ppm	0.5018 ppm
Concentration per Run 1	0.1163 ppm	1.0995 ppm	0.9899 ppm	1.0290 ppm	1.0296 ppm	0.1130 ppm	0.5019 ppm
Concentration per Run 2	0.1174 ppm	1.1007 ppm	1.0043 ppm	1.0347 ppm	1.0210 ppm	0.1162 ppm	0.5001 ppm
Concentration per Run 3	0.1174 ppm	1.0942 ppm	0.9948 ppm	1.0314 ppm	1.0232 ppm	0.1157 ppm	0.5032 ppm
Concentration RSD	0.6 %	0.3 %	0.7 %	0.3 %	0.4 %	1.5 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5046 ppm	103.9912 %	103.7573 %	103.9343 %	102.1923 %	101.7899 %	101.5707 %
Concentration per Run 1	0.5073 ppm	104.7619 %	103.6322 %	103.7403 %	102.8962 %	101.5580 %	101.6106 %
Concentration per Run 2	0.5079 ppm	103.4622 %	103.7571 %	103.8554 %	102.2443 %	101.7921 %	101.7687 %
Concentration per Run 3	0.4987 ppm	103.7495 %	103.8827 %	104.2072 %	101.4365 %	102.0197 %	101.3327 %
Concentration RSD	1.0 %	0.7 %	0.1 %	0.2 %	0.7 %	0.2 %	0.2 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: L2512967-01 WG2039414
Analysis started at: 3/13/2025 10:19:14 AM
Rack 1
Vial 30
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0433 ppm	0.0019 ppm	0.0682 ppm	0.1294 ppm	0.0000 ppm	44.1787 ppm
Concentration per Run 1	0.0000 ppm	0.0402 ppm	0.0021 ppm	0.0671 ppm	0.1287 ppm	0.0000 ppm	44.2607 ppm
Concentration per Run 2	-0.0005 ppm	0.0464 ppm	0.0038 ppm	0.0697 ppm	0.1293 ppm	0.0000 ppm	44.0623 ppm
Concentration per Run 3	-0.0002 ppm	0.0434 ppm	-0.0004 ppm	0.0679 ppm	0.1302 ppm	0.0000 ppm	44.2129 ppm
Concentration RSD	125.5 %	7.2 %	113.1 %	2.0 %	0.6 %	437.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0004 ppm	0.0125 ppm	0.0171 ppm	0.1406 ppm	1.9532 ppm	0.0046 ppm
Concentration per Run 1	-0.0001 ppm	0.0001 ppm	0.0126 ppm	0.0166 ppm	0.1411 ppm	1.9336 ppm	0.0044 ppm
Concentration per Run 2	-0.0001 ppm	0.0002 ppm	0.0123 ppm	0.0177 ppm	0.1428 ppm	1.9738 ppm	0.0055 ppm
Concentration per Run 3	-0.0001 ppm	0.0009 ppm	0.0125 ppm	0.0170 ppm	0.1379 ppm	1.9521 ppm	0.0040 ppm
Concentration RSD	27.7 %	123.8 %	1.2 %	3.4 %	1.8 %	1.0 %	17.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.7684 ppm	0.0034 ppm	0.0076 ppm	36.6819 ppm	0.0127 ppm	0.0026 ppm	0.0090 ppm
Concentration per Run 1	9.7528 ppm	0.0033 ppm	0.0076 ppm	36.3922 ppm	0.0118 ppm	0.0041 ppm	0.0083 ppm
Concentration per Run 2	9.7928 ppm	0.0033 ppm	0.0076 ppm	36.6485 ppm	0.0136 ppm	0.0018 ppm	0.0136 ppm
Concentration per Run 3	9.7596 ppm	0.0035 ppm	0.0076 ppm	37.0050 ppm	0.0126 ppm	0.0019 ppm	0.0052 ppm
Concentration RSD	0.2 %	2.3 %	0.2 %	0.8 %	6.9 %	49.2 %	46.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0030 ppm	7.8095 ppm	0.0051 ppm	0.2976 ppm	0.0048 ppm	-0.0003 ppm	0.0035 ppm
Concentration per Run 1	0.0040 ppm	7.7862 ppm	0.0057 ppm	0.2965 ppm	0.0046 ppm	-0.0001 ppm	0.0032 ppm
Concentration per Run 2	0.0031 ppm	7.8360 ppm	0.0039 ppm	0.2978 ppm	0.0050 ppm	-0.0007 ppm	0.0037 ppm
Concentration per Run 3	0.0017 ppm	7.8062 ppm	0.0056 ppm	0.2986 ppm	0.0047 ppm	-0.0001 ppm	0.0036 ppm
Concentration RSD	39.7 %	0.3 %	19.4 %	0.3 %	4.5 %	122.6 %	7.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0596 ppm	101.3213 %	100.2860 %	101.1780 %	99.4922 %	98.1694 %	98.6155 %
Concentration per Run 1	0.0596 ppm	101.3919 %	100.1522 %	101.4368 %	99.4274 %	98.0939 %	98.8866 %
Concentration per Run 2	0.0593 ppm	101.0393 %	100.5576 %	101.6281 %	99.1977 %	98.1233 %	98.9355 %
Concentration per Run 3	0.0598 ppm	101.5326 %	100.1483 %	100.4692 %	99.8514 %	98.2909 %	98.0243 %
Concentration RSD	0.5 %	0.3 %	0.2 %	0.6 %	0.3 %	0.1 %	0.5 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: L2513762-01 WG2039414
Analysis started at: 3/13/2025 10:22:40 AM
Rack 1
Vial 31
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0008 ppm	0.0173 ppm	-0.0002 ppm	0.2238 ppm	0.0205 ppm	0.0000 ppm	194.2322 ppm
Concentration per Run 1	-0.0004 ppm	0.0203 ppm	-0.0008 ppm	0.2237 ppm	0.0206 ppm	0.0000 ppm	193.6872 ppm
Concentration per Run 2	-0.0012 ppm	0.0135 ppm	-0.0002 ppm	0.2249 ppm	0.0206 ppm	0.0000 ppm	195.2605 ppm
Concentration per Run 3	-0.0009 ppm	0.0180 ppm	0.0005 ppm	0.2229 ppm	0.0202 ppm	0.0000 ppm	193.7488 ppm
Concentration RSD	44.1 %	20.0 %	337.0 %	0.4 %	1.1 %	142.2 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0016 ppm	0.0010 ppm	0.0001 ppm	0.0187 ppm	0.0568 ppm	5.7628 ppm	0.0317 ppm
Concentration per Run 1	0.0015 ppm	0.0005 ppm	-0.0004 ppm	0.0185 ppm	0.0587 ppm	5.7397 ppm	0.0329 ppm
Concentration per Run 2	0.0017 ppm	0.0006 ppm	0.0006 ppm	0.0193 ppm	0.0548 ppm	5.7841 ppm	0.0324 ppm
Concentration per Run 3	0.0015 ppm	0.0018 ppm	-0.0001 ppm	0.0182 ppm	0.0567 ppm	5.7646 ppm	0.0300 ppm
Concentration RSD	9.0 %	78.2 %	791.8 %	3.2 %	3.5 %	0.4 %	4.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	35.6288 ppm	0.4294 ppm	0.0061 ppm	41.5394 ppm	0.0028 ppm	0.0042 ppm	0.0150 ppm
Concentration per Run 1	35.5690 ppm	0.4298 ppm	0.0057 ppm	41.4579 ppm	0.0025 ppm	0.0035 ppm	0.0135 ppm
Concentration per Run 2	35.7853 ppm	0.4298 ppm	0.0068 ppm	41.6263 ppm	0.0026 ppm	0.0050 ppm	0.0186 ppm
Concentration per Run 3	35.5322 ppm	0.4287 ppm	0.0059 ppm	41.5339 ppm	0.0032 ppm	0.0042 ppm	0.0130 ppm
Concentration RSD	0.4 %	0.2 %	9.8 %	0.2 %	14.4 %	18.1 %	20.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0006 ppm	2.2498 ppm	0.0003 ppm	2.6976 ppm	0.0017 ppm	0.0014 ppm	-0.0001 ppm
Concentration per Run 1	-0.0028 ppm	2.2435 ppm	-0.0009 ppm	2.6876 ppm	0.0014 ppm	0.0021 ppm	0.0000 ppm
Concentration per Run 2	-0.0019 ppm	2.2664 ppm	-0.0005 ppm	2.7093 ppm	0.0022 ppm	0.0010 ppm	-0.0001 ppm
Concentration per Run 3	0.0028 ppm	2.2394 ppm	0.0023 ppm	2.6958 ppm	0.0016 ppm	0.0012 ppm	-0.0001 ppm
Concentration RSD	477.4 %	0.6 %	541.9 %	0.4 %	24.4 %	40.3 %	114.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	3.2429 ppm	103.6196 %	100.1693 %	102.6825 %	101.7653 %	98.4650 %	100.2441 %
Concentration per Run 1	3.2473 ppm	103.5152 %	100.3357 %	102.6115 %	102.0290 %	98.7815 %	100.4003 %
Concentration per Run 2	3.2572 ppm	103.0994 %	99.7526 %	102.6969 %	101.0996 %	97.9364 %	100.3792 %
Concentration per Run 3	3.2241 ppm	104.2440 %	100.4196 %	102.7390 %	102.1675 %	98.6770 %	99.9529 %
Concentration RSD	0.5 %	0.6 %	0.4 %	0.1 %	0.6 %	0.5 %	0.3 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: L2513762-02 WG2039414
Analysis started at: 3/13/2025 10:26:07 AM
Rack 1
Vial 32
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0248 ppm	0.0012 ppm	0.2740 ppm	0.0226 ppm	0.0000 ppm	248.5117 ppm
Concentration per Run 1	0.0000 ppm	0.0211 ppm	0.0003 ppm	0.2749 ppm	0.0227 ppm	0.0000 ppm	249.2611 ppm
Concentration per Run 2	-0.0007 ppm	0.0282 ppm	0.0035 ppm	0.2742 ppm	0.0228 ppm	0.0000 ppm	248.0092 ppm
Concentration per Run 3	0.0005 ppm	0.0250 ppm	-0.0001 ppm	0.2730 ppm	0.0224 ppm	0.0000 ppm	248.2649 ppm
Concentration RSD	860.7 %	14.2 %	161.9 %	0.4 %	0.8 %	5,494.5 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0008 ppm	0.0004 ppm	0.0005 ppm	0.0305 ppm	0.0711 ppm	10.3090 ppm	0.0560 ppm
Concentration per Run 1	-0.0008 ppm	0.0000 ppm	0.0005 ppm	0.0302 ppm	0.0722 ppm	10.3423 ppm	0.0550 ppm
Concentration per Run 2	-0.0008 ppm	0.0003 ppm	0.0010 ppm	0.0310 ppm	0.0715 ppm	10.2850 ppm	0.0574 ppm
Concentration per Run 3	-0.0009 ppm	0.0008 ppm	0.0000 ppm	0.0305 ppm	0.0694 ppm	10.2997 ppm	0.0557 ppm
Concentration RSD	7.0 %	108.4 %	106.4 %	1.3 %	2.0 %	0.3 %	2.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	36.8145 ppm	0.1784 ppm	0.0096 ppm	75.2973 ppm	0.0015 ppm	0.0021 ppm	0.0284 ppm
Concentration per Run 1	36.8230 ppm	0.1794 ppm	0.0101 ppm	74.9502 ppm	0.0021 ppm	0.0042 ppm	0.0269 ppm
Concentration per Run 2	36.8146 ppm	0.1785 ppm	0.0091 ppm	75.2071 ppm	0.0008 ppm	-0.0001 ppm	0.0278 ppm
Concentration per Run 3	36.8060 ppm	0.1771 ppm	0.0097 ppm	75.7346 ppm	0.0017 ppm	0.0022 ppm	0.0304 ppm
Concentration RSD	0.0 %	0.6 %	5.4 %	0.5 %	43.9 %	100.3 %	6.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0007 ppm	2.8311 ppm	0.0000 ppm	3.1667 ppm	0.0022 ppm	0.0027 ppm	0.0002 ppm
Concentration per Run 1	0.0025 ppm	2.8282 ppm	0.0002 ppm	3.1623 ppm	0.0017 ppm	0.0018 ppm	0.0006 ppm
Concentration per Run 2	-0.0008 ppm	2.8339 ppm	0.0001 ppm	3.1662 ppm	0.0024 ppm	0.0036 ppm	0.0001 ppm
Concentration per Run 3	0.0005 ppm	2.8312 ppm	-0.0003 ppm	3.1716 ppm	0.0024 ppm	0.0027 ppm	-0.0002 ppm
Concentration RSD	228.5 %	0.1 %	4,116.1 %	0.1 %	18.0 %	33.1 %	231.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3970 ppm	104.3877 %	99.2855 %	102.7352 %	102.4962 %	98.2403 %	99.9871 %
Concentration per Run 1	0.3971 ppm	104.3443 %	99.6178 %	101.7512 %	102.3393 %	98.8531 %	99.1988 %
Concentration per Run 2	0.3972 ppm	104.1782 %	98.6969 %	103.0105 %	102.2175 %	97.1784 %	100.1807 %
Concentration per Run 3	0.3965 ppm	104.6405 %	99.5417 %	103.4440 %	102.9318 %	98.6895 %	100.5819 %
Concentration RSD	0.1 %	0.2 %	0.5 %	0.9 %	0.4 %	0.9 %	0.7 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: L2512572-01 WG2039414
Analysis started at: 3/13/2025 10:29:35 AM
Rack 1
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.4295 ppm	0.0009 ppm	0.0499 ppm	0.0695 ppm	0.0000 ppm	96.7232 ppm
Concentration per Run 1	-0.0005 ppm	0.4311 ppm	-0.0002 ppm	0.0502 ppm	0.0698 ppm	0.0000 ppm	97.2169 ppm
Concentration per Run 2	-0.0002 ppm	0.4281 ppm	0.0013 ppm	0.0492 ppm	0.0692 ppm	0.0000 ppm	96.8732 ppm
Concentration per Run 3	0.0001 ppm	0.4291 ppm	0.0017 ppm	0.0503 ppm	0.0696 ppm	0.0001 ppm	96.0794 ppm
Concentration RSD	147.8 %	0.4 %	108.7 %	1.2 %	0.4 %	57.4 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0008 ppm	0.0055 ppm	0.0879 ppm	1.0580 ppm	23.3910 ppm	0.0059 ppm
Concentration per Run 1	-0.0003 ppm	0.0004 ppm	0.0056 ppm	0.0883 ppm	1.0611 ppm	23.4460 ppm	0.0065 ppm
Concentration per Run 2	-0.0001 ppm	0.0009 ppm	0.0062 ppm	0.0873 ppm	1.0588 ppm	23.3296 ppm	0.0053 ppm
Concentration per Run 3	-0.0004 ppm	0.0010 ppm	0.0049 ppm	0.0880 ppm	1.0542 ppm	23.3973 ppm	0.0060 ppm
Concentration RSD	57.7 %	47.4 %	12.0 %	0.6 %	0.3 %	0.2 %	10.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	16.6802 ppm	0.0742 ppm	0.0025 ppm	198.6784 ppm	0.0056 ppm	0.0055 ppm	-0.0010 ppm
Concentration per Run 1	16.7116 ppm	0.0748 ppm	0.0027 ppm	199.0501 ppm	0.0052 ppm	0.0074 ppm	0.0004 ppm
Concentration per Run 2	16.7536 ppm	0.0740 ppm	0.0021 ppm	198.5740 ppm	0.0051 ppm	0.0040 ppm	0.0009 ppm
Concentration per Run 3	16.5754 ppm	0.0740 ppm	0.0026 ppm	198.4111 ppm	0.0063 ppm	0.0051 ppm	-0.0044 ppm
Concentration RSD	0.6 %	0.6 %	14.2 %	0.2 %	12.1 %	31.3 %	282.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0010 ppm	3.2931 ppm	0.0004 ppm	0.3589 ppm	0.0115 ppm	0.0030 ppm	0.0009 ppm
Concentration per Run 1	0.0016 ppm	3.3209 ppm	0.0003 ppm	0.3610 ppm	0.0122 ppm	0.0059 ppm	0.0006 ppm
Concentration per Run 2	0.0003 ppm	3.2960 ppm	0.0009 ppm	0.3580 ppm	0.0117 ppm	0.0012 ppm	0.0011 ppm
Concentration per Run 3	0.0009 ppm	3.2624 ppm	0.0002 ppm	0.3576 ppm	0.0107 ppm	0.0020 ppm	0.0009 ppm
Concentration RSD	64.5 %	0.9 %	79.7 %	0.5 %	6.8 %	82.7 %	29.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1208 ppm	104.3684 %	101.2133 %	103.1426 %	104.4293 %	100.6628 %	101.1433 %
Concentration per Run 1	0.1209 ppm	104.0620 %	100.6271 %	102.3492 %	104.6588 %	100.1463 %	100.5611 %
Concentration per Run 2	0.1213 ppm	104.8380 %	101.0823 %	104.1148 %	104.6732 %	100.6477 %	101.7044 %
Concentration per Run 3	0.1201 ppm	104.2051 %	101.9305 %	102.9639 %	103.9559 %	101.1945 %	101.1645 %
Concentration RSD	0.5 %	0.4 %	0.7 %	0.9 %	0.4 %	0.5 %	0.6 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: WG2039414-3 WG2039414
Analysis started at: 3/13/2025 10:33:01 AM
Rack 1
Vial 6
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0508 ppm	2.4254 ppm	0.1202 ppm	1.0490 ppm	2.0636 ppm	0.0507 ppm	106.7200 ppm
Concentration per Run 1	0.0508 ppm	2.4373 ppm	0.1213 ppm	1.0419 ppm	2.0632 ppm	0.0507 ppm	106.5078 ppm
Concentration per Run 2	0.0510 ppm	2.4236 ppm	0.1199 ppm	1.0543 ppm	2.0624 ppm	0.0509 ppm	107.0811 ppm
Concentration per Run 3	0.0505 ppm	2.4152 ppm	0.1193 ppm	1.0507 ppm	2.0654 ppm	0.0505 ppm	106.5710 ppm
Concentration RSD	0.5 %	0.5 %	0.8 %	0.6 %	0.1 %	0.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0501 ppm	0.4924 ppm	0.1964 ppm	0.3497 ppm	1.9473 ppm	34.3017 ppm	0.0070 ppm
Concentration per Run 1	0.0495 ppm	0.4892 ppm	0.1969 ppm	0.3473 ppm	1.9381 ppm	34.3201 ppm	0.0081 ppm
Concentration per Run 2	0.0505 ppm	0.4942 ppm	0.1970 ppm	0.3525 ppm	1.9424 ppm	34.3282 ppm	0.0064 ppm
Concentration per Run 3	0.0503 ppm	0.4940 ppm	0.1954 ppm	0.3495 ppm	1.9614 ppm	34.2568 ppm	0.0064 ppm
Concentration RSD	1.1 %	0.6 %	0.5 %	0.7 %	0.6 %	0.1 %	13.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	26.7017 ppm	0.5762 ppm	0.9779 ppm	209.6176 ppm	0.4878 ppm	0.5520 ppm	0.4528 ppm
Concentration per Run 1	26.7159 ppm	0.5765 ppm	0.9702 ppm	209.8086 ppm	0.4868 ppm	0.5555 ppm	0.4473 ppm
Concentration per Run 2	26.7526 ppm	0.5777 ppm	0.9850 ppm	210.6673 ppm	0.4885 ppm	0.5504 ppm	0.4577 ppm
Concentration per Run 3	26.6365 ppm	0.5744 ppm	0.9784 ppm	208.3769 ppm	0.4883 ppm	0.5501 ppm	0.4535 ppm
Concentration RSD	0.2 %	0.3 %	0.8 %	0.6 %	0.2 %	0.5 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1232 ppm	4.4213 ppm	0.7352 ppm	1.3832 ppm	0.9668 ppm	0.1211 ppm	0.5054 ppm
Concentration per Run 1	0.1242 ppm	4.4020 ppm	0.7339 ppm	1.3847 ppm	0.9694 ppm	0.1220 ppm	0.5041 ppm
Concentration per Run 2	0.1216 ppm	4.4368 ppm	0.7356 ppm	1.3817 ppm	0.9671 ppm	0.1204 ppm	0.5076 ppm
Concentration per Run 3	0.1238 ppm	4.4252 ppm	0.7360 ppm	1.3831 ppm	0.9640 ppm	0.1209 ppm	0.5047 ppm
Concentration RSD	1.1 %	0.4 %	0.2 %	0.1 %	0.3 %	0.7 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6065 ppm	104.7183 %	101.4536 %	101.7856 %	103.4596 %	99.9921 %	99.3336 %
Concentration per Run 1	0.6053 ppm	105.1187 %	101.5299 %	100.9364 %	103.6361 %	100.0771 %	98.6883 %
Concentration per Run 2	0.6081 ppm	104.1541 %	101.0951 %	101.9274 %	102.9732 %	99.9508 %	99.3733 %
Concentration per Run 3	0.6062 ppm	104.8821 %	101.7357 %	102.4931 %	103.7694 %	99.9483 %	99.9393 %
Concentration RSD	0.2 %	0.5 %	0.3 %	0.8 %	0.4 %	0.1 %	0.6 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: WG2039414-4 WG2039414
Analysis started at: 3/13/2025 10:36:28 AM
Rack 1
Vial 7
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.4142 ppm	0.0005 ppm	0.0510 ppm	0.0707 ppm	0.0000 ppm	97.9664 ppm
Concentration per Run 1	0.0001 ppm	0.4090 ppm	-0.0003 ppm	0.0516 ppm	0.0709 ppm	0.0000 ppm	97.5675 ppm
Concentration per Run 2	0.0000 ppm	0.4223 ppm	0.0013 ppm	0.0495 ppm	0.0709 ppm	0.0000 ppm	98.0992 ppm
Concentration per Run 3	0.0000 ppm	0.4113 ppm	0.0004 ppm	0.0520 ppm	0.0703 ppm	0.0000 ppm	98.2326 ppm
Concentration RSD	187.7 %	1.7 %	162.3 %	2.6 %	0.4 %	37.3 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0002 ppm	0.0027 ppm	0.0851 ppm	1.0254 ppm	23.5543 ppm	0.0063 ppm
Concentration per Run 1	-0.0002 ppm	0.0005 ppm	0.0028 ppm	0.0846 ppm	1.0273 ppm	23.5973 ppm	0.0066 ppm
Concentration per Run 2	-0.0002 ppm	-0.0002 ppm	0.0027 ppm	0.0857 ppm	1.0220 ppm	23.7161 ppm	0.0058 ppm
Concentration per Run 3	-0.0004 ppm	0.0004 ppm	0.0028 ppm	0.0852 ppm	1.0270 ppm	23.3496 ppm	0.0063 ppm
Concentration RSD	51.5 %	160.7 %	2.7 %	0.6 %	0.3 %	0.8 %	6.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	16.9962 ppm	0.0747 ppm	0.0078 ppm	200.8986 ppm	0.0038 ppm	0.0045 ppm	0.0025 ppm
Concentration per Run 1	17.0332 ppm	0.0743 ppm	0.0079 ppm	201.7683 ppm	0.0027 ppm	0.0064 ppm	0.0000 ppm
Concentration per Run 2	17.0183 ppm	0.0751 ppm	0.0087 ppm	201.6237 ppm	0.0035 ppm	0.0036 ppm	0.0036 ppm
Concentration per Run 3	16.9370 ppm	0.0747 ppm	0.0069 ppm	199.3038 ppm	0.0053 ppm	0.0035 ppm	0.0039 ppm
Concentration RSD	0.3 %	0.5 %	11.8 %	0.7 %	35.2 %	36.9 %	86.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0030 ppm	3.3261 ppm	0.0022 ppm	0.3628 ppm	0.0118 ppm	0.0018 ppm	0.0009 ppm
Concentration per Run 1	0.0025 ppm	3.3317 ppm	0.0031 ppm	0.3623 ppm	0.0126 ppm	-0.0002 ppm	0.0008 ppm
Concentration per Run 2	0.0040 ppm	3.3280 ppm	0.0011 ppm	0.3655 ppm	0.0116 ppm	0.0038 ppm	0.0011 ppm
Concentration per Run 3	0.0024 ppm	3.3185 ppm	0.0022 ppm	0.3605 ppm	0.0111 ppm	0.0017 ppm	0.0009 ppm
Concentration RSD	31.0 %	0.2 %	47.8 %	0.7 %	6.3 %	115.0 %	17.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1227 ppm	104.5465 %	100.8752 %	103.2056 %	103.9394 %	100.1967 %	101.1795 %
Concentration per Run 1	0.1231 ppm	104.9338 %	100.8487 %	103.5536 %	104.1235 %	99.9974 %	101.5713 %
Concentration per Run 2	0.1222 ppm	104.5320 %	100.7905 %	103.0953 %	103.9129 %	100.1339 %	100.8739 %
Concentration per Run 3	0.1227 ppm	104.1737 %	100.9865 %	102.9678 %	103.7819 %	100.4588 %	101.0932 %
Concentration RSD	0.4 %	0.4 %	0.1 %	0.3 %	0.2 %	0.2 %	0.4 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: WG2039414-5 WG2039414
Analysis started at: 3/13/2025 10:39:55 AM
Rack 1
Vial 8
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0285 ppm	2.3876 ppm	0.1200 ppm	1.0084 ppm	2.0077 ppm	0.0498 ppm	103.0148 ppm
Concentration per Run 1	0.0295 ppm	2.4118 ppm	0.1192 ppm	1.0045 ppm	2.0041 ppm	0.0500 ppm	103.2514 ppm
Concentration per Run 2	0.0297 ppm	2.3788 ppm	0.1207 ppm	1.0085 ppm	2.0084 ppm	0.0497 ppm	103.0057 ppm
Concentration per Run 3	0.0262 ppm	2.3721 ppm	0.1201 ppm	1.0122 ppm	2.0107 ppm	0.0497 ppm	102.7874 ppm
Concentration RSD	6.9 %	0.9 %	0.6 %	0.4 %	0.2 %	0.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0493 ppm	0.4839 ppm	0.1964 ppm	0.3466 ppm	2.0436 ppm	33.0372 ppm	0.0057 ppm
Concentration per Run 1	0.0493 ppm	0.4835 ppm	0.1972 ppm	0.3477 ppm	2.0617 ppm	32.8833 ppm	0.0057 ppm
Concentration per Run 2	0.0492 ppm	0.4842 ppm	0.1970 ppm	0.3463 ppm	2.0313 ppm	33.1221 ppm	0.0062 ppm
Concentration per Run 3	0.0493 ppm	0.4842 ppm	0.1949 ppm	0.3457 ppm	2.0378 ppm	33.1061 ppm	0.0053 ppm
Concentration RSD	0.2 %	0.1 %	0.6 %	0.3 %	0.8 %	0.4 %	8.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	25.6787 ppm	0.5630 ppm	0.9548 ppm	200.8092 ppm	0.4796 ppm	0.5401 ppm	0.3597 ppm
Concentration per Run 1	25.7551 ppm	0.5630 ppm	0.9480 ppm	200.1651 ppm	0.4781 ppm	0.5369 ppm	0.3497 ppm
Concentration per Run 2	25.6167 ppm	0.5631 ppm	0.9558 ppm	200.3271 ppm	0.4817 ppm	0.5404 ppm	0.3619 ppm
Concentration per Run 3	25.6643 ppm	0.5631 ppm	0.9607 ppm	201.9354 ppm	0.4790 ppm	0.5428 ppm	0.3675 ppm
Concentration RSD	0.3 %	0.0 %	0.7 %	0.5 %	0.4 %	0.5 %	2.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1257 ppm	3.9494 ppm	0.9713 ppm	1.3354 ppm	0.9964 ppm	0.1246 ppm	0.4937 ppm
Concentration per Run 1	0.1250 ppm	3.9549 ppm	0.9629 ppm	1.3290 ppm	0.9965 ppm	0.1240 ppm	0.4948 ppm
Concentration per Run 2	0.1268 ppm	3.9418 ppm	0.9760 ppm	1.3363 ppm	0.9979 ppm	0.1235 ppm	0.4930 ppm
Concentration per Run 3	0.1254 ppm	3.9516 ppm	0.9751 ppm	1.3409 ppm	0.9949 ppm	0.1263 ppm	0.4934 ppm
Concentration RSD	0.7 %	0.2 %	0.7 %	0.4 %	0.1 %	1.2 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5932 ppm	104.5717 %	101.5345 %	102.7934 %	103.2034 %	100.0421 %	99.8050 %
Concentration per Run 1	0.5925 ppm	104.4997 %	101.0726 %	103.7679 %	103.2640 %	99.8357 %	100.2567 %
Concentration per Run 2	0.5924 ppm	104.7503 %	101.9591 %	102.3633 %	103.3163 %	100.5321 %	99.6977 %
Concentration per Run 3	0.5946 ppm	104.4652 %	101.5717 %	102.2489 %	103.0300 %	99.7587 %	99.4606 %
Concentration RSD	0.2 %	0.1 %	0.4 %	0.8 %	0.1 %	0.4 %	0.4 %

LabBook: WG2039956_03132025T9.imexp

Sample: WG2039414-6D5 WG2039414
Analysis started at: 3/13/2025 10:43:23 AM
Rack 1
Vial 9
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0799 ppm	0.0007 ppm	0.0104 ppm	0.0134 ppm	0.0000 ppm	19.1279 ppm
Concentration per Run 1	0.0001 ppm	0.0799 ppm	0.0021 ppm	0.0104 ppm	0.0136 ppm	0.0000 ppm	19.1023 ppm
Concentration per Run 2	-0.0002 ppm	0.0847 ppm	-0.0003 ppm	0.0099 ppm	0.0133 ppm	0.0000 ppm	19.1358 ppm
Concentration per Run 3	0.0001 ppm	0.0751 ppm	0.0002 ppm	0.0109 ppm	0.0134 ppm	0.0000 ppm	19.1456 ppm
Concentration RSD	3,776.7 %	6.0 %	186.7 %	4.8 %	1.1 %	30.2 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0001 ppm	0.0012 ppm	0.0159 ppm	0.2108 ppm	4.4262 ppm	0.0018 ppm
Concentration per Run 1	-0.0001 ppm	-0.0001 ppm	0.0017 ppm	0.0161 ppm	0.2077 ppm	4.4494 ppm	0.0028 ppm
Concentration per Run 2	-0.0002 ppm	0.0001 ppm	0.0011 ppm	0.0159 ppm	0.2127 ppm	4.4004 ppm	0.0011 ppm
Concentration per Run 3	0.0000 ppm	0.0004 ppm	0.0008 ppm	0.0157 ppm	0.2119 ppm	4.4288 ppm	0.0014 ppm
Concentration RSD	144.3 %	216.0 %	39.0 %	1.3 %	1.3 %	0.6 %	53.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.2902 ppm	0.0148 ppm	0.0059 ppm	39.0226 ppm	0.0011 ppm	0.0023 ppm	0.0166 ppm
Concentration per Run 1	3.3110 ppm	0.0149 ppm	0.0061 ppm	39.2075 ppm	0.0019 ppm	0.0029 ppm	0.0172 ppm
Concentration per Run 2	3.2897 ppm	0.0147 ppm	0.0055 ppm	38.7863 ppm	0.0014 ppm	0.0015 ppm	0.0163 ppm
Concentration per Run 3	3.2700 ppm	0.0146 ppm	0.0061 ppm	39.0739 ppm	0.0000 ppm	0.0023 ppm	0.0163 ppm
Concentration RSD	0.6 %	1.1 %	5.6 %	0.6 %	89.1 %	31.0 %	3.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0019 ppm	0.6157 ppm	0.0054 ppm	0.0688 ppm	0.0025 ppm	0.0021 ppm	0.0002 ppm
Concentration per Run 1	0.0023 ppm	0.6167 ppm	0.0048 ppm	0.0692 ppm	0.0025 ppm	0.0014 ppm	0.0003 ppm
Concentration per Run 2	0.0003 ppm	0.6154 ppm	0.0072 ppm	0.0686 ppm	0.0025 ppm	0.0028 ppm	0.0002 ppm
Concentration per Run 3	0.0031 ppm	0.6149 ppm	0.0041 ppm	0.0687 ppm	0.0023 ppm	0.0023 ppm	0.0001 ppm
Concentration RSD	75.3 %	0.2 %	30.9 %	0.4 %	4.2 %	32.8 %	52.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0247 ppm	106.2296 %	103.9970 %	107.0393 %	105.1706 %	103.4654 %	104.3756 %
Concentration per Run 1	0.0248 ppm	105.5743 %	104.0086 %	107.4125 %	104.7022 %	103.3052 %	104.6066 %
Concentration per Run 2	0.0246 ppm	106.7547 %	104.2528 %	107.5288 %	105.7974 %	103.6980 %	104.4701 %
Concentration per Run 3	0.0249 ppm	106.3598 %	103.7297 %	106.1764 %	105.0123 %	103.3931 %	104.0499 %
Concentration RSD	0.6 %	0.6 %	0.3 %	0.7 %	0.5 %	0.2 %	0.3 %

LabBook: WG2039956_03132025T9.imexp

Sample: CCV
Analysis started at: 3/13/2025 10:46:51 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4688 ppm	0.4764 ppm	0.4835 ppm	0.4763 ppm	0.4870 ppm	0.5014 ppm	0.5036 ppm
Concentration per Run 1	0.4695 ppm	0.4777 ppm	0.4809 ppm	0.4759 ppm	0.4886 ppm	0.5030 ppm	0.5060 ppm
Concentration per Run 2	0.4693 ppm	0.4761 ppm	0.4863 ppm	0.4739 ppm	0.4862 ppm	0.5014 ppm	0.5034 ppm
Concentration per Run 3	0.4676 ppm	0.4755 ppm	0.4832 ppm	0.4789 ppm	0.4863 ppm	0.4999 ppm	0.5014 ppm
Recovery Percentage 1	93.760 %	95.284 %	96.695 %	95.251 %	97.404 %	100.280 %	100.715 %
Concentration RSD	0.2 %	0.2 %	0.6 %	0.5 %	0.3 %	0.3 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4970 ppm	0.5087 ppm	0.4961 ppm	0.4706 ppm	0.5157 ppm	5.0603 ppm	0.4890 ppm
Concentration per Run 1	0.4964 ppm	0.5072 ppm	0.4977 ppm	0.4695 ppm	0.5207 ppm	5.0696 ppm	0.4918 ppm
Concentration per Run 2	0.4980 ppm	0.5107 ppm	0.4965 ppm	0.4729 ppm	0.5148 ppm	5.0614 ppm	0.4884 ppm
Concentration per Run 3	0.4965 ppm	0.5083 ppm	0.4942 ppm	0.4693 ppm	0.5115 ppm	5.0500 ppm	0.4868 ppm
Recovery Percentage 1	99.393 %	101.749 %	99.225 %	94.119 %	103.132 %	101.206 %	97.802 %
Concentration RSD	0.2 %	0.3 %	0.4 %	0.4 %	0.9 %	0.2 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4905 ppm	0.4971 ppm	0.4936 ppm	9.9173 ppm	0.5035 ppm	0.5027 ppm	0.4979 ppm
Concentration per Run 1	0.4930 ppm	0.4965 ppm	0.4932 ppm	9.9820 ppm	0.5062 ppm	0.4987 ppm	0.4994 ppm
Concentration per Run 2	0.4873 ppm	0.4983 ppm	0.4959 ppm	9.9340 ppm	0.5029 ppm	0.5044 ppm	0.4975 ppm
Concentration per Run 3	0.4911 ppm	0.4965 ppm	0.4918 ppm	9.8359 ppm	0.5013 ppm	0.5051 ppm	0.4967 ppm
Recovery Percentage 1	98.095 %	99.418 %	98.720 %	99.173 %	100.697 %	100.544 %	99.572 %
Concentration RSD	0.6 %	0.2 %	0.4 %	0.8 %	0.5 %	0.7 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4877 ppm	5.3497 ppm	0.5141 ppm	0.5033 ppm	0.4964 ppm	0.4913 ppm	0.4890 ppm
Concentration per Run 1	0.4827 ppm	5.3520 ppm	0.5190 ppm	0.5038 ppm	0.4961 ppm	0.4887 ppm	0.4883 ppm
Concentration per Run 2	0.4915 ppm	5.3445 ppm	0.5095 ppm	0.5024 ppm	0.4958 ppm	0.4940 ppm	0.4890 ppm
Concentration per Run 3	0.4890 ppm	5.3527 ppm	0.5138 ppm	0.5036 ppm	0.4972 ppm	0.4912 ppm	0.4897 ppm
Recovery Percentage 1	97.543 %	101.899 %	102.828 %	100.651 %	99.279 %	98.261 %	97.806 %
Concentration RSD	0.9 %	0.1 %	0.9 %	0.2 %	0.1 %	0.5 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5007 ppm	105.8075 %	104.9419 %	106.0099 %	103.9777 %	103.9032 %	103.9246 %
Concentration per Run 1	0.5052 ppm	105.4965 %	104.0933 %	106.2642 %	103.7738 %	103.4221 %	104.0327 %
Concentration per Run 2	0.4967 ppm	105.9616 %	104.9231 %	105.3320 %	104.3644 %	103.9193 %	103.7926 %
Concentration per Run 3	0.5002 ppm	105.9643 %	105.8093 %	106.4334 %	103.7949 %	104.3682 %	103.9484 %
Recovery Percentage 1	100.141 %						
Concentration RSD	0.9 %	0.3 %	0.8 %	0.6 %	0.3 %	0.5 %	0.1 %

LabBook: WG2039956_03132025T9.imexp

Sample: CCB
Analysis started at: 3/13/2025 10:50:18 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	-0.0058 ppm	-0.0001 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0010 ppm
Concentration per Run 1	0.0006 ppm	0.0022 ppm	0.0015 ppm	-0.0004 ppm	-0.0002 ppm	0.0000 ppm	0.0009 ppm
Concentration per Run 2	0.0005 ppm	-0.0083 ppm	-0.0010 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	-0.0011 ppm
Concentration per Run 3	-0.0001 ppm	-0.0114 ppm	-0.0008 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0031 ppm
Recovery Percentage 1	4.949 %	-5.849 %	-1.404 %	1.053 %	-0.461 %	0.260 %	0.961 %
Concentration RSD	117.4 %	121.4 %	1,996.1 %	217.8 %	241.4 %	214.3 %	221.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0164 ppm	0.0001 ppm
Concentration per Run 1	-0.0001 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0005 ppm	0.0154 ppm	-0.0006 ppm
Concentration per Run 2	0.0000 ppm	-0.0004 ppm	0.0000 ppm	-0.0002 ppm	0.0008 ppm	0.0264 ppm	0.0005 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0001 ppm	-0.0005 ppm	0.0002 ppm	0.0073 ppm	0.0003 ppm
Recovery Percentage 1	-0.177 %	-0.774 %	0.092 %	-2.023 %	0.319 %	0.655 %	1.520 %
Concentration RSD	610.3 %	194.7 %	728.6 %	132.1 %	389.7 %	58.5 %	761.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0003 ppm	0.0000 ppm	0.0021 ppm	-0.0017 ppm	-0.0004 ppm	0.0026 ppm	0.0026 ppm
Concentration per Run 1	0.0016 ppm	-0.0001 ppm	0.0024 ppm	-0.0028 ppm	0.0011 ppm	0.0028 ppm	0.0022 ppm
Concentration per Run 2	-0.0005 ppm	-0.0002 ppm	0.0019 ppm	-0.0047 ppm	-0.0002 ppm	0.0018 ppm	0.0056 ppm
Concentration per Run 3	-0.0020 ppm	0.0001 ppm	0.0020 ppm	0.0023 ppm	-0.0021 ppm	0.0032 ppm	0.0001 ppm
Recovery Percentage 1	-0.323 %	-0.364 %	4.176 %	-0.087 %	-1.552 %	25.663 %	5.261 %
Concentration RSD	566.3 %	455.7 %	12.5 %	208.9 %	403.8 %	28.4 %	106.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	-0.0081 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0014 ppm	-0.0002 ppm
Concentration per Run 1	0.0029 ppm	-0.0085 ppm	0.0034 ppm	0.0001 ppm	-0.0002 ppm	0.0008 ppm	-0.0003 ppm
Concentration per Run 2	-0.0007 ppm	-0.0088 ppm	-0.0009 ppm	-0.0001 ppm	-0.0003 ppm	-0.0005 ppm	-0.0002 ppm
Concentration per Run 3	-0.0016 ppm	-0.0070 ppm	0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0038 ppm	-0.0001 ppm
Recovery Percentage 1	1.914 %	-1.620 %	1.744 %	-0.326 %	-0.116 %	6.869 %	-1.898 %
Concentration RSD	1,229.7 %	11.8 %	260.4 %	431.4 %	3,403.4 %	160.3 %	61.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0001 ppm	103.5780 %	103.0573 %	104.1492 %	104.7287 %	103.9008 %	104.6458 %
Concentration per Run 1	0.0002 ppm	105.1235 %	103.3903 %	103.9848 %	106.4924 %	103.6571 %	104.4863 %
Concentration per Run 2	-0.0001 ppm	103.4273 %	103.1073 %	104.0620 %	104.4433 %	103.9920 %	105.1297 %
Concentration per Run 3	0.0003 ppm	102.1831 %	102.6743 %	104.4007 %	103.2503 %	104.0533 %	104.3213 %
Recovery Percentage 1	2.578 %						
Concentration RSD	144.3 %	1.4 %	0.3 %	0.2 %	1.6 %	0.2 %	0.4 %

LabBook: WG2039956_03132025T9.imexp

Sample: WG2039767-1 WG2039767
Analysis started at: 3/13/2025 11:19:02 AM
Rack 1
Vial 33
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0028 ppm	-0.0008 ppm	-0.0006 ppm	-0.0001 ppm	0.0000 ppm	0.0325 ppm
Concentration per Run 1	0.0004 ppm	0.0020 ppm	-0.0019 ppm	-0.0016 ppm	0.0000 ppm	0.0000 ppm	0.0332 ppm
Concentration per Run 2	0.0005 ppm	-0.0008 ppm	-0.0003 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0316 ppm
Concentration per Run 3	-0.0003 ppm	0.0071 ppm	-0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0329 ppm
Recovery Percentage 1	2.890 %	2.776 %	-15.738 %	-1.858 %	-0.681 %	-0.397 %	32.540 %
Concentration RSD	207.6 %	142.6 %	127.1 %	154.9 %	122.9 %	65.7 %	2.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0005 ppm	0.0001 ppm	-0.0003 ppm	0.0024 ppm	0.0041 ppm	-0.0002 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0008 ppm	0.0002 ppm	0.0012 ppm	0.0184 ppm	0.0003 ppm
Concentration per Run 2	0.0000 ppm	-0.0012 ppm	0.0003 ppm	-0.0006 ppm	0.0045 ppm	0.0034 ppm	-0.0012 ppm
Concentration per Run 3	-0.0001 ppm	-0.0002 ppm	0.0009 ppm	-0.0004 ppm	0.0014 ppm	-0.0096 ppm	0.0002 ppm
Recovery Percentage 1	-0.847 %	-2.620 %	1.188 %	-2.714 %	4.712 %	0.163 %	-4.791 %
Concentration RSD	156.6 %	111.2 %	744.0 %	150.9 %	77.9 %	344.5 %	342.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0044 ppm	0.0001 ppm	-0.0006 ppm	-0.0036 ppm	0.0016 ppm	0.0010 ppm	0.0014 ppm
Concentration per Run 1	0.0045 ppm	0.0001 ppm	-0.0005 ppm	-0.0017 ppm	0.0006 ppm	-0.0003 ppm	0.0012 ppm
Concentration per Run 2	0.0036 ppm	0.0002 ppm	-0.0003 ppm	-0.0046 ppm	0.0014 ppm	0.0023 ppm	0.0049 ppm
Concentration per Run 3	0.0051 ppm	0.0001 ppm	-0.0010 ppm	-0.0043 ppm	0.0029 ppm	0.0011 ppm	-0.0020 ppm
Recovery Percentage 1	4.374 %	1.388 %	-1.196 %	-0.178 %	6.532 %	10.112 %	2.764 %
Concentration RSD	17.2 %	65.3 %	56.2 %	44.5 %	70.0 %	127.8 %	248.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0020 ppm	-0.0091 ppm	-0.0005 ppm	0.0001 ppm	-0.0001 ppm	0.0011 ppm	-0.0001 ppm
Concentration per Run 1	-0.0047 ppm	-0.0087 ppm	-0.0008 ppm	0.0001 ppm	0.0000 ppm	0.0012 ppm	-0.0004 ppm
Concentration per Run 2	-0.0024 ppm	-0.0087 ppm	-0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0033 ppm	-0.0001 ppm
Concentration per Run 3	0.0012 ppm	-0.0100 ppm	0.0000 ppm	0.0000 ppm	-0.0004 ppm	-0.0013 ppm	0.0001 ppm
Recovery Percentage 1	-19.965 %	-1.827 %	-0.974 %	0.612 %	-1.418 %	5.507 %	-1.250 %
Concentration RSD	147.9 %	8.3 %	85.0 %	115.4 %	175.1 %	210.7 %	231.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0010 ppm	105.6533 %	105.9301 %	106.4687 %	106.6332 %	106.0555 %	106.0266 %
Concentration per Run 1	0.0010 ppm	105.4055 %	105.7782 %	106.5551 %	106.7309 %	106.0294 %	106.3744 %
Concentration per Run 2	0.0008 ppm	105.5779 %	105.6240 %	106.3786 %	106.1590 %	105.6681 %	105.7359 %
Concentration per Run 3	0.0011 ppm	105.9765 %	106.3881 %	106.4725 %	107.0097 %	106.4691 %	105.9696 %
Recovery Percentage 1	19.600 %						
Concentration RSD	15.1 %	0.3 %	0.4 %	0.1 %	0.4 %	0.4 %	0.3 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: WG2039729-1 WG2039729
Analysis started at: 3/13/2025 11:22:45 AM
Rack 1
Vial 38
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0052 ppm	0.0003 ppm	0.0038 ppm	0.0001 ppm	0.0000 ppm	0.0538 ppm
Concentration per Run 1	0.0006 ppm	-0.0009 ppm	-0.0022 ppm	0.0033 ppm	0.0002 ppm	0.0000 ppm	0.0520 ppm
Concentration per Run 2	0.0001 ppm	0.0134 ppm	0.0013 ppm	0.0051 ppm	0.0001 ppm	0.0000 ppm	0.0528 ppm
Concentration per Run 3	-0.0001 ppm	0.0030 ppm	0.0017 ppm	0.0031 ppm	0.0001 ppm	0.0000 ppm	0.0567 ppm
Recovery Percentage 1	3.223 %	5.157 %	5.341 %	12.718 %	1.465 %	0.228 %	53.829 %
Concentration RSD	159.3 %	143.6 %	794.5 %	29.4 %	57.3 %	276.2 %	4.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0002 ppm	-0.0001 ppm	0.0001 ppm	0.0022 ppm	0.0696 ppm	0.0004 ppm
Concentration per Run 1	-0.0001 ppm	-0.0003 ppm	0.0006 ppm	0.0002 ppm	0.0023 ppm	0.0696 ppm	0.0011 ppm
Concentration per Run 2	0.0000 ppm	-0.0006 ppm	-0.0001 ppm	0.0004 ppm	0.0015 ppm	0.0545 ppm	-0.0006 ppm
Concentration per Run 3	-0.0001 ppm	0.0003 ppm	-0.0008 ppm	-0.0003 ppm	0.0027 ppm	0.0848 ppm	0.0008 ppm
Recovery Percentage 1	-1.296 %	-0.996 %	-0.924 %	1.317 %	4.304 %	2.785 %	8.545 %
Concentration RSD	57.7 %	250.4 %	774.6 %	280.4 %	28.7 %	21.8 %	202.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0130 ppm	0.0002 ppm	-0.0003 ppm	136.6332 ppm	0.0004 ppm	0.0015 ppm	0.0021 ppm
Concentration per Run 1	0.0112 ppm	0.0000 ppm	-0.0003 ppm	136.6137 ppm	0.0002 ppm	0.0038 ppm	0.0029 ppm
Concentration per Run 2	0.0135 ppm	0.0003 ppm	-0.0003 ppm	136.6136 ppm	0.0013 ppm	-0.0002 ppm	0.0027 ppm
Concentration per Run 3	0.0143 ppm	0.0002 ppm	-0.0004 ppm	136.6723 ppm	-0.0004 ppm	0.0008 ppm	0.0008 ppm
Recovery Percentage 1	12.977 %	1.838 %	-0.698 %	6,831.660 %	1.532 %	14.822 %	4.278 %
Concentration RSD	12.5 %	72.8 %	12.5 %	0.0 %	224.7 %	141.7 %	52.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0009 ppm	0.0065 ppm	0.0002 ppm	0.0002 ppm	-0.0002 ppm	-0.0024 ppm	0.0002 ppm
Concentration per Run 1	0.0011 ppm	0.0064 ppm	0.0004 ppm	0.0002 ppm	-0.0006 ppm	-0.0016 ppm	0.0000 ppm
Concentration per Run 2	-0.0002 ppm	0.0063 ppm	0.0001 ppm	0.0002 ppm	0.0004 ppm	-0.0020 ppm	0.0003 ppm
Concentration per Run 3	0.0017 ppm	0.0068 ppm	0.0002 ppm	0.0003 ppm	-0.0003 ppm	-0.0035 ppm	0.0004 ppm
Recovery Percentage 1	8.613 %	1.301 %	0.444 %	2.230 %	-1.672 %	-11.822 %	2.306 %
Concentration RSD	112.2 %	3.9 %	68.6 %	22.3 %	311.3 %	43.6 %	80.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0024 ppm	105.1162 %	103.0453 %	104.8043 %	103.3404 %	101.5015 %	101.9120 %
Concentration per Run 1	0.0024 ppm	104.9307 %	102.6328 %	105.2640 %	102.8345 %	101.2703 %	102.2094 %
Concentration per Run 2	0.0024 ppm	105.2079 %	103.1161 %	104.5038 %	103.5018 %	101.3217 %	101.7866 %
Concentration per Run 3	0.0025 ppm	105.2101 %	103.3869 %	104.6452 %	103.6850 %	101.9125 %	101.7399 %
Recovery Percentage 1	48.734 %						
Concentration RSD	4.1 %	0.2 %	0.4 %	0.4 %	0.4 %	0.4 %	0.3 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: WG2039767-2 WG2039767
Analysis started at: 3/13/2025 11:26:11 AM
Rack 1
Vial 34
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0499 ppm	2.0132 ppm	0.1120 ppm	0.9639 ppm	1.9856 ppm	0.0509 ppm	10.3116 ppm
Concentration per Run 1	0.0494 ppm	2.0164 ppm	0.1135 ppm	0.9585 ppm	1.9779 ppm	0.0508 ppm	10.3096 ppm
Concentration per Run 2	0.0503 ppm	2.0143 ppm	0.1109 ppm	0.9681 ppm	1.9887 ppm	0.0509 ppm	10.3064 ppm
Concentration per Run 3	0.0501 ppm	2.0091 ppm	0.1115 ppm	0.9651 ppm	1.9901 ppm	0.0510 ppm	10.3189 ppm
Concentration RSD	0.9 %	0.2 %	1.2 %	0.5 %	0.3 %	0.2 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0533 ppm	0.5078 ppm	0.2007 ppm	0.2463 ppm	1.0484 ppm	10.3819 ppm	-0.0008 ppm
Concentration per Run 1	0.0531 ppm	0.5089 ppm	0.2001 ppm	0.2484 ppm	1.0442 ppm	10.3784 ppm	-0.0010 ppm
Concentration per Run 2	0.0536 ppm	0.5073 ppm	0.2016 ppm	0.2457 ppm	1.0492 ppm	10.3515 ppm	-0.0008 ppm
Concentration per Run 3	0.0530 ppm	0.5072 ppm	0.2005 ppm	0.2449 ppm	1.0518 ppm	10.4159 ppm	-0.0008 ppm
Concentration RSD	0.6 %	0.2 %	0.4 %	0.7 %	0.4 %	0.3 %	14.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.0204 ppm	0.5145 ppm	0.9838 ppm	10.2826 ppm	0.5080 ppm	0.5322 ppm	0.4408 ppm
Concentration per Run 1	9.9645 ppm	0.5161 ppm	0.9791 ppm	10.1794 ppm	0.5014 ppm	0.5356 ppm	0.4359 ppm
Concentration per Run 2	10.0782 ppm	0.5132 ppm	0.9864 ppm	10.3188 ppm	0.5117 ppm	0.5286 ppm	0.4416 ppm
Concentration per Run 3	10.0186 ppm	0.5143 ppm	0.9859 ppm	10.3496 ppm	0.5108 ppm	0.5325 ppm	0.4451 ppm
Concentration RSD	0.6 %	0.3 %	0.4 %	0.9 %	1.1 %	0.7 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1124 ppm	0.8363 ppm	0.9898 ppm	0.9953 ppm	1.0015 ppm	0.1124 ppm	0.5068 ppm
Concentration per Run 1	0.1107 ppm	0.8355 ppm	0.9840 ppm	0.9915 ppm	0.9992 ppm	0.1147 ppm	0.5064 ppm
Concentration per Run 2	0.1130 ppm	0.8413 ppm	0.9903 ppm	0.9962 ppm	1.0051 ppm	0.1132 ppm	0.5077 ppm
Concentration per Run 3	0.1134 ppm	0.8321 ppm	0.9952 ppm	0.9981 ppm	1.0003 ppm	0.1092 ppm	0.5064 ppm
Concentration RSD	1.3 %	0.6 %	0.6 %	0.3 %	0.3 %	2.5 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5134 ppm	106.3590 %	105.2167 %	105.7416 %	104.6954 %	104.0102 %	103.2317 %
Concentration per Run 1	0.5085 ppm	106.2722 %	105.5543 %	105.0330 %	104.5988 %	104.1701 %	102.9871 %
Concentration per Run 2	0.5151 ppm	106.1334 %	105.2911 %	106.0277 %	104.4817 %	104.1608 %	103.1512 %
Concentration per Run 3	0.5166 ppm	106.6714 %	104.8049 %	106.1641 %	105.0058 %	103.6997 %	103.5567 %
Concentration RSD	0.8 %	0.3 %	0.4 %	0.6 %	0.3 %	0.3 %	0.3 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: WG2039767-3 WG2039767
Analysis started at: 3/13/2025 11:29:39 AM
Rack 1
Vial 35
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0495 ppm	2.0161 ppm	0.1114 ppm	0.9639 ppm	1.9875 ppm	0.0511 ppm	10.1489 ppm
Concentration per Run 1	0.0497 ppm	2.0197 ppm	0.1098 ppm	0.9656 ppm	1.9903 ppm	0.0511 ppm	10.1622 ppm
Concentration per Run 2	0.0496 ppm	2.0161 ppm	0.1112 ppm	0.9642 ppm	1.9907 ppm	0.0512 ppm	10.1666 ppm
Concentration per Run 3	0.0492 ppm	2.0124 ppm	0.1132 ppm	0.9620 ppm	1.9814 ppm	0.0509 ppm	10.1179 ppm
Concentration RSD	0.5 %	0.2 %	1.5 %	0.2 %	0.3 %	0.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0538 ppm	0.5105 ppm	0.2021 ppm	0.2499 ppm	1.0468 ppm	10.2679 ppm	-0.0004 ppm
Concentration per Run 1	0.0538 ppm	0.5102 ppm	0.2038 ppm	0.2514 ppm	1.0482 ppm	10.2779 ppm	0.0003 ppm
Concentration per Run 2	0.0538 ppm	0.5113 ppm	0.2024 ppm	0.2487 ppm	1.0446 ppm	10.3277 ppm	0.0001 ppm
Concentration per Run 3	0.0538 ppm	0.5099 ppm	0.2001 ppm	0.2496 ppm	1.0475 ppm	10.1980 ppm	-0.0017 ppm
Concentration RSD	0.1 %	0.1 %	0.9 %	0.6 %	0.2 %	0.6 %	264.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.9573 ppm	0.5116 ppm	0.9886 ppm	10.2034 ppm	0.5142 ppm	0.5307 ppm	0.4549 ppm
Concentration per Run 1	9.9792 ppm	0.5119 ppm	0.9841 ppm	10.2031 ppm	0.5172 ppm	0.5306 ppm	0.4509 ppm
Concentration per Run 2	9.9833 ppm	0.5141 ppm	0.9881 ppm	10.2006 ppm	0.5144 ppm	0.5291 ppm	0.4596 ppm
Concentration per Run 3	9.9094 ppm	0.5089 ppm	0.9935 ppm	10.2064 ppm	0.5110 ppm	0.5324 ppm	0.4541 ppm
Concentration RSD	0.4 %	0.5 %	0.5 %	0.0 %	0.6 %	0.3 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1129 ppm	0.8339 ppm	0.9930 ppm	0.9893 ppm	0.9954 ppm	0.1114 ppm	0.5116 ppm
Concentration per Run 1	0.1134 ppm	0.8335 ppm	0.9883 ppm	0.9909 ppm	0.9981 ppm	0.1147 ppm	0.5126 ppm
Concentration per Run 2	0.1129 ppm	0.8341 ppm	0.9935 ppm	0.9899 ppm	0.9962 ppm	0.1086 ppm	0.5104 ppm
Concentration per Run 3	0.1125 ppm	0.8340 ppm	0.9972 ppm	0.9871 ppm	0.9918 ppm	0.1109 ppm	0.5119 ppm
Concentration RSD	0.4 %	0.0 %	0.5 %	0.2 %	0.3 %	2.8 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5191 ppm	105.2571 %	105.6372 %	105.8898 %	103.9870 %	104.4376 %	103.6013 %
Concentration per Run 1	0.5198 ppm	105.0147 %	105.0632 %	106.0995 %	104.0368 %	103.7322 %	103.7845 %
Concentration per Run 2	0.5195 ppm	105.8820 %	105.5589 %	105.7226 %	104.6306 %	104.4686 %	103.3794 %
Concentration per Run 3	0.5179 ppm	104.8746 %	106.2893 %	105.8473 %	103.2937 %	105.1119 %	103.6398 %
Concentration RSD	0.2 %	0.5 %	0.6 %	0.2 %	0.6 %	0.7 %	0.2 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: WG2039729-2 WG2039729
Analysis started at: 3/13/2025 11:33:07 AM
Rack 1
Vial 39
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0489 ppm	1.9850 ppm	0.1089 ppm	0.9108 ppm	1.9683 ppm	0.0509 ppm	10.0105 ppm
Concentration per Run 1	0.0494 ppm	1.9822 ppm	0.1030 ppm	0.9185 ppm	1.9686 ppm	0.0509 ppm	10.0120 ppm
Concentration per Run 2	0.0484 ppm	1.9876 ppm	0.1143 ppm	0.9033 ppm	1.9577 ppm	0.0509 ppm	10.0158 ppm
Concentration per Run 3	0.0490 ppm	1.9852 ppm	0.1094 ppm	0.9106 ppm	1.9786 ppm	0.0511 ppm	10.0037 ppm
Concentration RSD	1.0 %	0.1 %	5.2 %	0.8 %	0.5 %	0.3 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0510 ppm	0.4938 ppm	0.1953 ppm	0.2578 ppm	1.0522 ppm	10.1419 ppm	0.0005 ppm
Concentration per Run 1	0.0510 ppm	0.4941 ppm	0.1978 ppm	0.2582 ppm	1.0522 ppm	10.2034 ppm	0.0007 ppm
Concentration per Run 2	0.0508 ppm	0.4932 ppm	0.1934 ppm	0.2558 ppm	1.0481 ppm	10.0213 ppm	0.0011 ppm
Concentration per Run 3	0.0511 ppm	0.4942 ppm	0.1948 ppm	0.2595 ppm	1.0564 ppm	10.2010 ppm	-0.0003 ppm
Concentration RSD	0.3 %	0.1 %	1.2 %	0.7 %	0.4 %	1.0 %	143.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.4124 ppm	0.5075 ppm	0.9639 ppm	146.0796 ppm	0.4928 ppm	0.5206 ppm	0.5169 ppm
Concentration per Run 1	9.4091 ppm	0.5069 ppm	0.9616 ppm	146.9171 ppm	0.4963 ppm	0.4841 ppm	0.5185 ppm
Concentration per Run 2	9.4166 ppm	0.5070 ppm	0.9627 ppm	145.0911 ppm	0.4894 ppm	0.5501 ppm	0.5134 ppm
Concentration per Run 3	9.4116 ppm	0.5084 ppm	0.9673 ppm	146.2306 ppm	0.4927 ppm	0.5275 ppm	0.5189 ppm
Concentration RSD	0.0 %	0.2 %	0.3 %	0.6 %	0.7 %	6.4 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1107 ppm	1.1303 ppm	0.9672 ppm	0.9580 ppm	0.9627 ppm	0.1083 ppm	0.5007 ppm
Concentration per Run 1	0.1028 ppm	1.1315 ppm	0.9688 ppm	0.9570 ppm	0.9687 ppm	0.0988 ppm	0.5011 ppm
Concentration per Run 2	0.1192 ppm	1.1229 ppm	0.9640 ppm	0.9555 ppm	0.9565 ppm	0.1174 ppm	0.5003 ppm
Concentration per Run 3	0.1100 ppm	1.1367 ppm	0.9687 ppm	0.9614 ppm	0.9628 ppm	0.1088 ppm	0.5008 ppm
Concentration RSD	7.4 %	0.6 %	0.3 %	0.3 %	0.6 %	8.6 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4969 ppm	105.9231 %	102.3791 %	103.5690 %	103.4537 %	100.7649 %	100.1297 %
Concentration per Run 1	0.4975 ppm	105.3345 %	101.9174 %	109.9104 %	102.8145 %	100.3943 %	104.7680 %
Concentration per Run 2	0.4939 ppm	106.0668 %	102.6734 %	98.9254 %	103.3371 %	101.0596 %	96.4480 %
Concentration per Run 3	0.4992 ppm	106.3681 %	102.5464 %	101.8712 %	104.2094 %	100.8409 %	99.1730 %
Concentration RSD	0.5 %	0.5 %	0.4 %	5.5 %	0.7 %	0.3 %	4.2 %

LabBook: WG2039956_03132025T9.imexp

Sample: L2512663-01 WG2039767
Analysis started at: 3/13/2025 11:36:33 AM
Rack 1
Vial 36
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0016 ppm	3.0731 ppm	0.0011 ppm	0.1554 ppm	0.0807 ppm	0.0003 ppm	22.5409 ppm
Concentration per Run 1	0.0019 ppm	3.0745 ppm	0.0002 ppm	0.1547 ppm	0.0808 ppm	0.0003 ppm	22.5752 ppm
Concentration per Run 2	0.0015 ppm	3.0839 ppm	0.0013 ppm	0.1555 ppm	0.0809 ppm	0.0003 ppm	22.4749 ppm
Concentration per Run 3	0.0015 ppm	3.0610 ppm	0.0018 ppm	0.1561 ppm	0.0804 ppm	0.0003 ppm	22.5725 ppm
Concentration RSD	12.9 %	0.4 %	77.2 %	0.5 %	0.3 %	6.8 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0042 ppm	0.0072 ppm	0.0096 ppm	3.9203 ppm	2.9150 ppm	0.0023 ppm
Concentration per Run 1	0.0003 ppm	0.0039 ppm	0.0074 ppm	0.0098 ppm	3.9099 ppm	2.9044 ppm	0.0033 ppm
Concentration per Run 2	0.0002 ppm	0.0046 ppm	0.0071 ppm	0.0099 ppm	3.9228 ppm	2.9255 ppm	0.0012 ppm
Concentration per Run 3	0.0003 ppm	0.0042 ppm	0.0070 ppm	0.0090 ppm	3.9281 ppm	2.9150 ppm	0.0024 ppm
Concentration RSD	18.1 %	8.7 %	2.5 %	5.6 %	0.2 %	0.4 %	45.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.3977 ppm	0.1463 ppm	0.0072 ppm	85.8367 ppm	0.0066 ppm	0.0060 ppm	0.0027 ppm
Concentration per Run 1	4.4097 ppm	0.1469 ppm	0.0069 ppm	86.1397 ppm	0.0067 ppm	0.0065 ppm	0.0021 ppm
Concentration per Run 2	4.4165 ppm	0.1463 ppm	0.0070 ppm	86.1814 ppm	0.0071 ppm	0.0068 ppm	0.0014 ppm
Concentration per Run 3	4.3669 ppm	0.1455 ppm	0.0078 ppm	85.1890 ppm	0.0060 ppm	0.0047 ppm	0.0047 ppm
Concentration RSD	0.6 %	0.5 %	6.8 %	0.7 %	8.9 %	19.2 %	64.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0001 ppm	5.9876 ppm	0.0024 ppm	0.0981 ppm	0.1835 ppm	0.0013 ppm	0.0075 ppm
Concentration per Run 1	-0.0011 ppm	5.9998 ppm	0.0016 ppm	0.0983 ppm	0.1831 ppm	0.0020 ppm	0.0071 ppm
Concentration per Run 2	-0.0006 ppm	6.0034 ppm	0.0025 ppm	0.0985 ppm	0.1849 ppm	0.0001 ppm	0.0077 ppm
Concentration per Run 3	0.0019 ppm	5.9596 ppm	0.0032 ppm	0.0977 ppm	0.1826 ppm	0.0019 ppm	0.0077 ppm
Concentration RSD	1,523.1 %	0.4 %	32.6 %	0.5 %	0.7 %	82.5 %	4.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0161 ppm	107.5009 %	105.4105 %	108.1338 %	108.9271 %	107.2580 %	108.2432 %
Concentration per Run 1	0.0159 ppm	108.0537 %	105.3268 %	108.5572 %	109.2574 %	107.4611 %	108.5491 %
Concentration per Run 2	0.0157 ppm	107.4989 %	105.6732 %	107.7334 %	109.3555 %	107.7712 %	108.1467 %
Concentration per Run 3	0.0168 ppm	106.9500 %	105.2314 %	108.1107 %	108.1684 %	106.5417 %	108.0338 %
Concentration RSD	3.8 %	0.5 %	0.2 %	0.4 %	0.6 %	0.6 %	0.3 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: L2513444-01 WG2039729
Analysis started at: 3/13/2025 11:40:01 AM
Rack 1
Vial 40
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0020 ppm	-0.0003 ppm	0.0040 ppm	0.0367 ppm	0.0000 ppm	56.4503 ppm
Concentration per Run 1	0.0003 ppm	0.0015 ppm	0.0002 ppm	0.0048 ppm	0.0368 ppm	0.0000 ppm	56.4714 ppm
Concentration per Run 2	0.0003 ppm	-0.0008 ppm	-0.0008 ppm	0.0018 ppm	0.0365 ppm	0.0000 ppm	56.4698 ppm
Concentration per Run 3	-0.0002 ppm	0.0054 ppm	-0.0002 ppm	0.0052 ppm	0.0368 ppm	0.0000 ppm	56.4098 ppm
Concentration RSD	191.4 %	152.9 %	200.1 %	46.5 %	0.5 %	71.6 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0038 ppm	0.1186 ppm	0.0031 ppm
Concentration per Run 1	-0.0001 ppm	0.0003 ppm	-0.0001 ppm	0.0002 ppm	0.0044 ppm	0.0987 ppm	0.0030 ppm
Concentration per Run 2	-0.0001 ppm	0.0001 ppm	-0.0001 ppm	-0.0005 ppm	0.0038 ppm	0.1370 ppm	0.0030 ppm
Concentration per Run 3	-0.0002 ppm	-0.0008 ppm	0.0002 ppm	0.0000 ppm	0.0033 ppm	0.1203 ppm	0.0033 ppm
Concentration RSD	43.8 %	361.6 %	16,877.5 %	313.9 %	14.4 %	16.2 %	5.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.2654 ppm	0.1570 ppm	0.0011 ppm	132.5470 ppm	0.0008 ppm	0.0020 ppm	0.0054 ppm
Concentration per Run 1	6.2633 ppm	0.1568 ppm	0.0015 ppm	132.2898 ppm	0.0008 ppm	0.0040 ppm	0.0063 ppm
Concentration per Run 2	6.2578 ppm	0.1568 ppm	0.0013 ppm	132.9352 ppm	0.0009 ppm	0.0015 ppm	0.0028 ppm
Concentration per Run 3	6.2751 ppm	0.1576 ppm	0.0003 ppm	132.4159 ppm	0.0008 ppm	0.0005 ppm	0.0072 ppm
Concentration RSD	0.1 %	0.3 %	59.3 %	0.3 %	7.8 %	89.2 %	42.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0024 ppm	0.2854 ppm	0.0007 ppm	0.2218 ppm	0.0008 ppm	-0.0023 ppm	-0.0001 ppm
Concentration per Run 1	0.0031 ppm	0.2886 ppm	0.0014 ppm	0.2223 ppm	0.0010 ppm	-0.0009 ppm	0.0000 ppm
Concentration per Run 2	0.0001 ppm	0.2836 ppm	0.0000 ppm	0.2216 ppm	0.0010 ppm	-0.0026 ppm	0.0001 ppm
Concentration per Run 3	0.0041 ppm	0.2840 ppm	0.0007 ppm	0.2214 ppm	0.0005 ppm	-0.0034 ppm	-0.0002 ppm
Concentration RSD	84.0 %	1.0 %	93.8 %	0.2 %	30.4 %	55.5 %	294.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0008 ppm	105.5989 %	103.0175 %	104.4969 %	103.9115 %	102.1323 %	102.2337 %
Concentration per Run 1	0.0008 ppm	105.0416 %	103.0024 %	104.2938 %	103.6338 %	102.3209 %	102.7732 %
Concentration per Run 2	0.0010 ppm	105.9381 %	103.0447 %	104.8826 %	104.1474 %	102.1426 %	101.9888 %
Concentration per Run 3	0.0005 ppm	105.8170 %	103.0055 %	104.3144 %	103.9533 %	101.9333 %	101.9390 %
Concentration RSD	31.8 %	0.5 %	0.0 %	0.3 %	0.2 %	0.2 %	0.5 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: WG2039729-3 WG2039729
Analysis started at: 3/13/2025 11:43:28 AM
Rack 1
Vial 41
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0486 ppm	1.9948 ppm	0.1084 ppm	0.9110 ppm	1.9974 ppm	0.0508 ppm	65.8500 ppm
Concentration per Run 1	0.0492 ppm	1.9967 ppm	0.1083 ppm	0.9138 ppm	1.9911 ppm	0.0508 ppm	65.8932 ppm
Concentration per Run 2	0.0482 ppm	1.9897 ppm	0.1096 ppm	0.9076 ppm	2.0090 ppm	0.0509 ppm	65.7587 ppm
Concentration per Run 3	0.0483 ppm	1.9981 ppm	0.1074 ppm	0.9114 ppm	1.9921 ppm	0.0507 ppm	65.8982 ppm
Concentration RSD	1.1 %	0.2 %	1.0 %	0.3 %	0.5 %	0.2 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0504 ppm	0.4918 ppm	0.1942 ppm	0.2591 ppm	1.0359 ppm	10.2027 ppm	0.0027 ppm
Concentration per Run 1	0.0506 ppm	0.4950 ppm	0.1941 ppm	0.2621 ppm	1.0332 ppm	10.1989 ppm	0.0030 ppm
Concentration per Run 2	0.0499 ppm	0.4876 ppm	0.1929 ppm	0.2574 ppm	1.0360 ppm	10.2696 ppm	0.0029 ppm
Concentration per Run 3	0.0506 ppm	0.4929 ppm	0.1955 ppm	0.2579 ppm	1.0383 ppm	10.1394 ppm	0.0022 ppm
Concentration RSD	0.8 %	0.8 %	0.6 %	1.0 %	0.2 %	0.6 %	16.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	15.5035 ppm	0.6594 ppm	0.9554 ppm	141.2333 ppm	0.4857 ppm	0.5103 ppm	0.4917 ppm
Concentration per Run 1	15.5027 ppm	0.6592 ppm	0.9557 ppm	140.6877 ppm	0.4853 ppm	0.5132 ppm	0.4971 ppm
Concentration per Run 2	15.4517 ppm	0.6627 ppm	0.9521 ppm	143.1987 ppm	0.4852 ppm	0.5095 ppm	0.4910 ppm
Concentration per Run 3	15.5560 ppm	0.6563 ppm	0.9583 ppm	139.8134 ppm	0.4866 ppm	0.5081 ppm	0.4870 ppm
Concentration RSD	0.3 %	0.5 %	0.3 %	1.2 %	0.2 %	0.5 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1076 ppm	1.4238 ppm	0.9434 ppm	1.1742 ppm	0.9605 ppm	0.1079 ppm	0.5046 ppm
Concentration per Run 1	0.1081 ppm	1.4224 ppm	0.9459 ppm	1.1704 ppm	0.9611 ppm	0.1096 ppm	0.5059 ppm
Concentration per Run 2	0.1089 ppm	1.4223 ppm	0.9397 ppm	1.1803 ppm	0.9572 ppm	0.1066 ppm	0.5028 ppm
Concentration per Run 3	0.1058 ppm	1.4266 ppm	0.9447 ppm	1.1719 ppm	0.9633 ppm	0.1075 ppm	0.5051 ppm
Concentration RSD	1.5 %	0.2 %	0.3 %	0.5 %	0.3 %	1.4 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4856 ppm	105.6109 %	102.4656 %	103.9478 %	103.6064 %	100.8803 %	101.4339 %
Concentration per Run 1	0.4844 ppm	105.4158 %	102.4178 %	102.9855 %	103.6471 %	100.9340 %	100.8042 %
Concentration per Run 2	0.4847 ppm	106.0872 %	101.9650 %	104.2277 %	103.7297 %	100.7975 %	101.8853 %
Concentration per Run 3	0.4876 ppm	105.3296 %	103.0142 %	104.6303 %	103.4423 %	100.9095 %	101.6121 %
Concentration RSD	0.4 %	0.4 %	0.5 %	0.8 %	0.1 %	0.1 %	0.6 %

LabBook: WG2039956_03132025T9.imexp

Sample: WG2039729-4 WG2039729
Analysis started at: 3/13/2025 11:46:54 AM
Rack 1
Vial 42
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0003 ppm	0.0005 ppm	0.0044 ppm	0.0359 ppm	0.0000 ppm	55.5010 ppm
Concentration per Run 1	0.0001 ppm	0.0038 ppm	0.0009 ppm	0.0047 ppm	0.0354 ppm	0.0000 ppm	55.4223 ppm
Concentration per Run 2	0.0004 ppm	0.0021 ppm	0.0010 ppm	0.0039 ppm	0.0360 ppm	0.0000 ppm	55.7821 ppm
Concentration per Run 3	-0.0001 ppm	-0.0051 ppm	-0.0006 ppm	0.0045 ppm	0.0362 ppm	0.0000 ppm	55.2987 ppm
Concentration RSD	171.3 %	1,794.3 %	202.0 %	9.2 %	1.1 %	997.8 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0000 ppm	0.0003 ppm	0.0002 ppm	0.0046 ppm	0.0952 ppm	0.0032 ppm
Concentration per Run 1	-0.0001 ppm	0.0001 ppm	0.0007 ppm	0.0000 ppm	0.0044 ppm	0.0779 ppm	0.0026 ppm
Concentration per Run 2	-0.0002 ppm	-0.0001 ppm	-0.0001 ppm	0.0010 ppm	0.0052 ppm	0.0962 ppm	0.0033 ppm
Concentration per Run 3	-0.0002 ppm	0.0002 ppm	0.0004 ppm	-0.0005 ppm	0.0042 ppm	0.1116 ppm	0.0036 ppm
Concentration RSD	59.0 %	367.6 %	113.6 %	486.0 %	11.5 %	17.7 %	15.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.1511 ppm	0.1542 ppm	0.0028 ppm	129.8605 ppm	0.0011 ppm	0.0027 ppm	-0.0001 ppm
Concentration per Run 1	6.1395 ppm	0.1539 ppm	0.0032 ppm	129.6349 ppm	0.0006 ppm	0.0032 ppm	-0.0023 ppm
Concentration per Run 2	6.1716 ppm	0.1543 ppm	0.0021 ppm	129.6286 ppm	0.0014 ppm	0.0022 ppm	0.0028 ppm
Concentration per Run 3	6.1423 ppm	0.1544 ppm	0.0029 ppm	130.3181 ppm	0.0014 ppm	0.0025 ppm	-0.0008 ppm
Concentration RSD	0.3 %	0.2 %	20.3 %	0.3 %	41.9 %	19.0 %	2,353.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0025 ppm	0.2789 ppm	0.0010 ppm	0.2183 ppm	0.0007 ppm	-0.0029 ppm	0.0002 ppm
Concentration per Run 1	0.0015 ppm	0.2780 ppm	0.0001 ppm	0.2180 ppm	0.0005 ppm	-0.0026 ppm	0.0005 ppm
Concentration per Run 2	0.0044 ppm	0.2768 ppm	0.0006 ppm	0.2182 ppm	0.0008 ppm	-0.0031 ppm	-0.0002 ppm
Concentration per Run 3	0.0015 ppm	0.2820 ppm	0.0024 ppm	0.2188 ppm	0.0008 ppm	-0.0031 ppm	0.0002 ppm
Concentration RSD	68.8 %	1.0 %	120.3 %	0.2 %	26.9 %	8.8 %	204.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0008 ppm	105.8177 %	103.2420 %	105.0077 %	103.8330 %	101.7001 %	102.5165 %
Concentration per Run 1	0.0008 ppm	105.5309 %	104.0013 %	104.7712 %	103.6335 %	102.7340 %	102.7288 %
Concentration per Run 2	0.0008 ppm	105.6043 %	102.5328 %	105.6139 %	103.3055 %	100.9597 %	102.0921 %
Concentration per Run 3	0.0008 ppm	106.3180 %	103.1920 %	104.6381 %	104.5599 %	101.4066 %	102.7286 %
Concentration RSD	1.5 %	0.4 %	0.7 %	0.5 %	0.6 %	0.9 %	0.4 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: L2513238-01 WG2039729
Analysis started at: 3/13/2025 11:50:21 AM
Rack 1
Vial 43
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.0310 ppm	0.0001 ppm	0.0110 ppm	0.1789 ppm	0.0000 ppm	5.8927 ppm
Concentration per Run 1	0.0002 ppm	0.0384 ppm	-0.0008 ppm	0.0118 ppm	0.1783 ppm	0.0000 ppm	5.9178 ppm
Concentration per Run 2	0.0000 ppm	0.0262 ppm	0.0006 ppm	0.0109 ppm	0.1785 ppm	0.0000 ppm	5.9054 ppm
Concentration per Run 3	0.0006 ppm	0.0283 ppm	0.0005 ppm	0.0102 ppm	0.1799 ppm	0.0000 ppm	5.8550 ppm
Concentration RSD	125.6 %	20.9 %	859.4 %	7.3 %	0.5 %	56.5 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0013 ppm	0.0020 ppm	0.0005 ppm	0.1556 ppm	0.0398 ppm	0.3334 ppm	0.0020 ppm
Concentration per Run 1	0.0013 ppm	0.0015 ppm	0.0005 ppm	0.1540 ppm	0.0381 ppm	0.3357 ppm	0.0011 ppm
Concentration per Run 2	0.0013 ppm	0.0032 ppm	0.0002 ppm	0.1563 ppm	0.0403 ppm	0.3431 ppm	0.0028 ppm
Concentration per Run 3	0.0015 ppm	0.0014 ppm	0.0009 ppm	0.1564 ppm	0.0409 ppm	0.3214 ppm	0.0020 ppm
Concentration RSD	7.9 %	49.9 %	68.5 %	0.9 %	3.8 %	3.3 %	44.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.2319 ppm	0.1076 ppm	0.0007 ppm	135.2983 ppm	0.0045 ppm	0.3740 ppm	0.0111 ppm
Concentration per Run 1	0.2308 ppm	0.1073 ppm	0.0007 ppm	134.6941 ppm	0.0043 ppm	0.3720 ppm	0.0078 ppm
Concentration per Run 2	0.2332 ppm	0.1081 ppm	0.0006 ppm	135.1879 ppm	0.0052 ppm	0.3731 ppm	0.0123 ppm
Concentration per Run 3	0.2316 ppm	0.1075 ppm	0.0010 ppm	136.0129 ppm	0.0041 ppm	0.3770 ppm	0.0133 ppm
Concentration RSD	0.5 %	0.4 %	31.4 %	0.5 %	11.9 %	0.7 %	26.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0003 ppm	0.2033 ppm	-0.0008 ppm	0.0315 ppm	0.0002 ppm	-0.0016 ppm	0.0000 ppm
Concentration per Run 1	-0.0019 ppm	0.2023 ppm	-0.0023 ppm	0.0312 ppm	0.0006 ppm	-0.0007 ppm	0.0001 ppm
Concentration per Run 2	0.0001 ppm	0.2035 ppm	0.0009 ppm	0.0314 ppm	0.0002 ppm	-0.0037 ppm	0.0001 ppm
Concentration per Run 3	0.0028 ppm	0.2041 ppm	-0.0009 ppm	0.0318 ppm	-0.0002 ppm	-0.0004 ppm	-0.0002 ppm
Concentration RSD	739.1 %	0.5 %	206.6 %	0.9 %	196.3 %	112.8 %	3,544.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7803 ppm	106.2150 %	103.6506 %	106.1053 %	104.1572 %	101.6390 %	103.1406 %
Concentration per Run 1	0.7844 ppm	105.7643 %	103.5523 %	105.7684 %	103.6831 %	101.8601 %	102.6529 %
Concentration per Run 2	0.7796 ppm	106.4165 %	103.6818 %	106.4649 %	104.2695 %	101.5750 %	103.3745 %
Concentration per Run 3	0.7769 ppm	106.4643 %	103.7178 %	106.0825 %	104.5192 %	101.4819 %	103.3943 %
Concentration RSD	0.5 %	0.4 %	0.1 %	0.3 %	0.4 %	0.2 %	0.4 %

LabBook: WG2039956_03132025T9.imexp

Sample: CCV
Analysis started at: 3/13/2025 11:53:49 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4593 ppm	0.4732 ppm	0.4649 ppm	0.4659 ppm	0.4780 ppm	0.4964 ppm	0.4963 ppm
Concentration per Run 1	0.4611 ppm	0.4756 ppm	0.4408 ppm	0.4672 ppm	0.4772 ppm	0.4972 ppm	0.4962 ppm
Concentration per Run 2	0.4326 ppm	0.4750 ppm	0.4767 ppm	0.4376 ppm	0.4785 ppm	0.4959 ppm	0.5019 ppm
Concentration per Run 3	0.4842 ppm	0.4689 ppm	0.4772 ppm	0.4928 ppm	0.4783 ppm	0.4960 ppm	0.4909 ppm
Recovery Percentage 1	91.864 %	94.632 %	92.975 %	93.171 %	95.595 %	99.277 %	99.264 %
Concentration RSD	5.6 %	0.8 %	4.5 %	5.9 %	0.1 %	0.1 %	1.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4880 ppm	0.4984 ppm	0.4861 ppm	0.4612 ppm	0.5044 ppm	4.9704 ppm	0.4839 ppm
Concentration per Run 1	0.4880 ppm	0.4987 ppm	0.4879 ppm	0.4592 ppm	0.5018 ppm	5.0023 ppm	0.4846 ppm
Concentration per Run 2	0.4569 ppm	0.4644 ppm	0.4554 ppm	0.4319 ppm	0.5042 ppm	4.9843 ppm	0.4841 ppm
Concentration per Run 3	0.5191 ppm	0.5321 ppm	0.5152 ppm	0.4925 ppm	0.5072 ppm	4.9246 ppm	0.4830 ppm
Recovery Percentage 1	97.600 %	99.684 %	97.230 %	92.241 %	100.879 %	99.408 %	96.779 %
Concentration RSD	6.4 %	6.8 %	6.2 %	6.6 %	0.5 %	0.8 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4834 ppm	0.4879 ppm	0.4818 ppm	9.7053 ppm	0.4927 ppm	0.4900 ppm	0.4808 ppm
Concentration per Run 1	0.4856 ppm	0.4882 ppm	0.4808 ppm	9.6896 ppm	0.4970 ppm	0.4693 ppm	0.4755 ppm
Concentration per Run 2	0.4524 ppm	0.4880 ppm	0.4489 ppm	9.7007 ppm	0.4620 ppm	0.5027 ppm	0.4539 ppm
Concentration per Run 3	0.5122 ppm	0.4874 ppm	0.5158 ppm	9.7257 ppm	0.5190 ppm	0.4981 ppm	0.5131 ppm
Recovery Percentage 1	96.675 %	97.579 %	96.365 %	97.053 %	98.537 %	98.010 %	96.168 %
Concentration RSD	6.2 %	0.1 %	6.9 %	0.2 %	5.8 %	3.7 %	6.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4693 ppm	5.2674 ppm	0.4977 ppm	0.4958 ppm	0.4873 ppm	0.4747 ppm	0.4811 ppm
Concentration per Run 1	0.4505 ppm	5.2703 ppm	0.5004 ppm	0.4950 ppm	0.4886 ppm	0.4573 ppm	0.4818 ppm
Concentration per Run 2	0.4823 ppm	4.9536 ppm	0.4659 ppm	0.4961 ppm	0.4576 ppm	0.4909 ppm	0.4497 ppm
Concentration per Run 3	0.4752 ppm	5.5783 ppm	0.5268 ppm	0.4964 ppm	0.5156 ppm	0.4760 ppm	0.5118 ppm
Recovery Percentage 1	93.868 %	100.332 %	99.542 %	99.165 %	97.456 %	94.943 %	96.220 %
Concentration RSD	3.6 %	5.9 %	6.1 %	0.2 %	6.0 %	3.5 %	6.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4891 ppm	108.2986 %	106.2634 %	110.1221 %	105.7263 %	104.9714 %	107.9713 %
Concentration per Run 1	0.4917 ppm	107.2799 %	105.7949 %	115.3896 %	105.9514 %	104.7340 %	111.7118 %
Concentration per Run 2	0.4588 ppm	115.0593 %	106.0939 %	106.8520 %	109.8372 %	104.7642 %	105.8590 %
Concentration per Run 3	0.5166 ppm	102.5566 %	106.9016 %	108.1247 %	101.3903 %	105.4160 %	106.3431 %
Recovery Percentage 1	97.811 %						
Concentration RSD	5.9 %	5.8 %	0.5 %	4.2 %	4.0 %	0.4 %	3.0 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: CCB
Analysis started at: 3/13/2025 11:57:17 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0052 ppm	-0.0009 ppm	0.0004 ppm	0.0002 ppm	0.0000 ppm	0.0015 ppm
Concentration per Run 1	0.0002 ppm	-0.0073 ppm	0.0008 ppm	0.0009 ppm	0.0003 ppm	0.0000 ppm	0.0040 ppm
Concentration per Run 2	-0.0002 ppm	-0.0050 ppm	-0.0024 ppm	-0.0011 ppm	0.0001 ppm	0.0000 ppm	-0.0006 ppm
Concentration per Run 3	0.0000 ppm	-0.0033 ppm	-0.0012 ppm	0.0015 ppm	0.0001 ppm	0.0000 ppm	0.0012 ppm
Recovery Percentage 1	-0.105 %	-5.205 %	-18.404 %	1.349 %	1.739 %	0.156 %	1.539 %
Concentration RSD	2,336.0 %	38.3 %	178.8 %	334.8 %	65.9 %	584.5 %	152.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0004 ppm	-0.0002 ppm	-0.0006 ppm	-0.0011 ppm	-0.0130 ppm	0.0004 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0000 ppm	-0.0011 ppm	-0.0011 ppm	-0.0219 ppm	0.0006 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0002 ppm	-0.0002 ppm	-0.0009 ppm	-0.0084 ppm	0.0005 ppm
Concentration per Run 3	0.0001 ppm	0.0009 ppm	-0.0008 ppm	-0.0006 ppm	-0.0011 ppm	-0.0088 ppm	0.0002 ppm
Recovery Percentage 1	1.011 %	1.790 %	-2.251 %	-6.403 %	-2.118 %	-0.520 %	8.477 %
Concentration RSD	159.0 %	132.4 %	226.0 %	70.0 %	10.1 %	59.2 %	39.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0004 ppm	-0.0001 ppm	0.0015 ppm	-0.0044 ppm	0.0004 ppm	0.0028 ppm	0.0030 ppm
Concentration per Run 1	0.0010 ppm	-0.0003 ppm	0.0017 ppm	-0.0025 ppm	0.0006 ppm	0.0031 ppm	0.0006 ppm
Concentration per Run 2	0.0002 ppm	0.0001 ppm	0.0015 ppm	-0.0040 ppm	0.0003 ppm	0.0025 ppm	0.0047 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0014 ppm	-0.0068 ppm	0.0004 ppm	0.0026 ppm	0.0036 ppm
Recovery Percentage 1	0.397 %	-1.084 %	3.089 %	-0.221 %	1.687 %	27.563 %	5.923 %
Concentration RSD	127.2 %	152.6 %	9.3 %	49.5 %	29.1 %	11.3 %	72.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0004 ppm	-0.0087 ppm	0.0002 ppm	0.0000 ppm	0.0002 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 1	0.0006 ppm	-0.0131 ppm	0.0003 ppm	0.0000 ppm	0.0002 ppm	-0.0010 ppm	0.0001 ppm
Concentration per Run 2	-0.0012 ppm	-0.0062 ppm	0.0005 ppm	0.0000 ppm	0.0004 ppm	0.0014 ppm	-0.0001 ppm
Concentration per Run 3	0.0019 ppm	-0.0070 ppm	-0.0003 ppm	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0001 ppm
Recovery Percentage 1	4.440 %	-1.748 %	0.346 %	-0.015 %	2.133 %	1.380 %	0.338 %
Concentration RSD	350.2 %	43.3 %	245.2 %	1,028.5 %	92.4 %	430.1 %	305.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	105.8133 %	104.8842 %	105.3455 %	105.0450 %	105.5757 %	105.9044 %
Concentration per Run 1	-0.0001 ppm	105.2722 %	104.5646 %	104.3859 %	105.5973 %	105.2394 %	105.4404 %
Concentration per Run 2	0.0000 ppm	114.3573 %	105.2778 %	106.1444 %	112.4730 %	105.9511 %	105.9451 %
Concentration per Run 3	0.0001 ppm	97.8103 %	104.8101 %	105.5062 %	97.0646 %	105.5366 %	106.3277 %
Recovery Percentage 1	0.483 %						
Concentration RSD	437.6 %	7.8 %	0.3 %	0.8 %	7.3 %	0.3 %	0.4 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: L2512679-01 WG2039767
Analysis started at: 3/13/2025 12:04:05 PM
Rack 1
Vial 37
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0221 ppm	-0.0002 ppm	0.0099 ppm	0.0052 ppm	0.0000 ppm	5.3118 ppm
Concentration per Run 1	0.0005 ppm	0.0169 ppm	-0.0013 ppm	0.0102 ppm	0.0052 ppm	0.0000 ppm	5.3120 ppm
Concentration per Run 2	-0.0001 ppm	0.0255 ppm	0.0013 ppm	0.0116 ppm	0.0051 ppm	0.0000 ppm	5.3102 ppm
Concentration per Run 3	0.0002 ppm	0.0239 ppm	-0.0005 ppm	0.0080 ppm	0.0053 ppm	0.0000 ppm	5.3132 ppm
Concentration RSD	126.3 %	20.7 %	810.5 %	18.4 %	1.8 %	75.1 %	0.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0001 ppm	0.0206 ppm	1.3090 ppm	0.0007 ppm
Concentration per Run 1	0.0000 ppm	0.0004 ppm	0.0007 ppm	-0.0001 ppm	0.0219 ppm	1.3050 ppm	0.0010 ppm
Concentration per Run 2	0.0000 ppm	-0.0005 ppm	0.0001 ppm	0.0002 ppm	0.0192 ppm	1.3008 ppm	0.0000 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0002 ppm	0.0206 ppm	1.3213 ppm	0.0012 ppm
Concentration RSD	46.0 %	1,053.0 %	69.8 %	192.2 %	6.6 %	0.8 %	88.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.2226 ppm	0.0049 ppm	0.0007 ppm	22.0756 ppm	0.0014 ppm	0.0011 ppm	-0.0015 ppm
Concentration per Run 1	1.2628 ppm	0.0049 ppm	0.0012 ppm	22.0103 ppm	0.0012 ppm	0.0007 ppm	-0.0005 ppm
Concentration per Run 2	1.2655 ppm	0.0048 ppm	0.0003 ppm	22.2574 ppm	0.0013 ppm	0.0015 ppm	-0.0018 ppm
Concentration per Run 3	1.1396 ppm	0.0050 ppm	0.0005 ppm	21.9592 ppm	0.0017 ppm	0.0012 ppm	-0.0022 ppm
Concentration RSD	5.9 %	1.3 %	68.5 %	0.7 %	18.8 %	35.0 %	57.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0007 ppm	2.5330 ppm	-0.0014 ppm	0.0444 ppm	0.0006 ppm	0.0009 ppm	0.0002 ppm
Concentration per Run 1	-0.0014 ppm	2.6085 ppm	-0.0027 ppm	0.0444 ppm	0.0008 ppm	0.0023 ppm	0.0000 ppm
Concentration per Run 2	-0.0009 ppm	2.6054 ppm	-0.0001 ppm	0.0444 ppm	0.0000 ppm	-0.0007 ppm	0.0002 ppm
Concentration per Run 3	0.0001 ppm	2.3852 ppm	-0.0015 ppm	0.0444 ppm	0.0009 ppm	0.0011 ppm	0.0004 ppm
Concentration RSD	104.4 %	5.1 %	91.3 %	0.1 %	85.1 %	164.9 %	91.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	111.2023 %	105.9991 %	106.8289 %	106.7965 %	104.4235 %	105.2714 %
Concentration per Run 1	0.0001 ppm	107.9448 %	105.9556 %	105.1300 %	106.2463 %	104.3562 %	103.7112 %
Concentration per Run 2	0.0007 ppm	107.7258 %	105.6281 %	107.4702 %	106.7523 %	104.2527 %	105.9603 %
Concentration per Run 3	0.0005 ppm	117.9361 %	106.4136 %	107.8866 %	107.3910 %	104.6616 %	106.1427 %
Concentration RSD	66.8 %	5.2 %	0.4 %	1.4 %	0.5 %	0.2 %	1.3 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: L2512572-03 WG2039414
Analysis started at: 3/13/2025 12:07:45 PM
Rack 1
Vial 15
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.2999 ppm	0.0005 ppm	0.0473 ppm	0.0554 ppm	0.0000 ppm	88.3957 ppm
Concentration per Run 1	-0.0004 ppm	0.2925 ppm	0.0011 ppm	0.0492 ppm	0.0555 ppm	0.0000 ppm	88.4053 ppm
Concentration per Run 2	0.0001 ppm	0.3051 ppm	0.0004 ppm	0.0480 ppm	0.0557 ppm	0.0000 ppm	88.5471 ppm
Concentration per Run 3	0.0002 ppm	0.3021 ppm	0.0000 ppm	0.0447 ppm	0.0549 ppm	0.0000 ppm	88.2346 ppm
Concentration RSD	3,187.8 %	2.2 %	108.4 %	5.0 %	0.7 %	159.5 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0003 ppm	0.0018 ppm	0.0407 ppm	0.8359 ppm	19.2567 ppm	0.0057 ppm
Concentration per Run 1	-0.0003 ppm	0.0003 ppm	0.0015 ppm	0.0404 ppm	0.8319 ppm	19.2589 ppm	0.0053 ppm
Concentration per Run 2	-0.0003 ppm	0.0002 ppm	0.0020 ppm	0.0412 ppm	0.8414 ppm	19.3262 ppm	0.0058 ppm
Concentration per Run 3	-0.0004 ppm	0.0003 ppm	0.0020 ppm	0.0405 ppm	0.8344 ppm	19.1849 ppm	0.0059 ppm
Concentration RSD	6.3 %	31.8 %	15.7 %	1.0 %	0.6 %	0.4 %	5.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	15.3453 ppm	0.0615 ppm	0.0025 ppm	185.4783 ppm	0.0029 ppm	0.0035 ppm	-0.0001 ppm
Concentration per Run 1	15.3660 ppm	0.0616 ppm	0.0025 ppm	185.5026 ppm	0.0030 ppm	0.0043 ppm	-0.0029 ppm
Concentration per Run 2	15.3287 ppm	0.0617 ppm	0.0030 ppm	185.7418 ppm	0.0036 ppm	0.0020 ppm	0.0015 ppm
Concentration per Run 3	15.3412 ppm	0.0613 ppm	0.0020 ppm	185.1905 ppm	0.0022 ppm	0.0041 ppm	0.0012 ppm
Concentration RSD	0.1 %	0.3 %	20.4 %	0.1 %	23.7 %	35.9 %	2,403.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0001 ppm	3.1266 ppm	0.0005 ppm	0.3258 ppm	0.0102 ppm	0.0026 ppm	0.0005 ppm
Concentration per Run 1	-0.0013 ppm	3.1185 ppm	0.0018 ppm	0.3261 ppm	0.0109 ppm	0.0038 ppm	0.0007 ppm
Concentration per Run 2	0.0001 ppm	3.1204 ppm	-0.0001 ppm	0.3274 ppm	0.0099 ppm	0.0018 ppm	0.0006 ppm
Concentration per Run 3	0.0015 ppm	3.1410 ppm	-0.0003 ppm	0.3240 ppm	0.0100 ppm	0.0023 ppm	0.0003 ppm
Concentration RSD	1,317.1 %	0.4 %	249.0 %	0.5 %	5.3 %	39.5 %	34.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0790 ppm	106.0676 %	102.9734 %	105.1312 %	105.5425 %	101.8835 %	102.8981 %
Concentration per Run 1	0.0792 ppm	106.0974 %	103.2165 %	104.5689 %	105.1606 %	102.2291 %	102.6894 %
Concentration per Run 2	0.0786 ppm	106.3946 %	102.7367 %	105.4532 %	106.1387 %	101.6461 %	102.7071 %
Concentration per Run 3	0.0791 ppm	105.7107 %	102.9671 %	105.3714 %	105.3282 %	101.7751 %	103.2979 %
Concentration RSD	0.4 %	0.3 %	0.2 %	0.5 %	0.5 %	0.3 %	0.3 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: L2512572-04 WG2039414
Analysis started at: 3/13/2025 12:11:12 PM
Rack 1
Vial 16
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.2593 ppm	0.0001 ppm	0.0522 ppm	0.0662 ppm	0.0000 ppm	83.6847 ppm
Concentration per Run 1	-0.0001 ppm	0.2610 ppm	0.0017 ppm	0.0525 ppm	0.0665 ppm	0.0000 ppm	83.5218 ppm
Concentration per Run 2	0.0000 ppm	0.2594 ppm	0.0008 ppm	0.0529 ppm	0.0662 ppm	0.0000 ppm	83.7045 ppm
Concentration per Run 3	-0.0003 ppm	0.2576 ppm	-0.0021 ppm	0.0513 ppm	0.0660 ppm	0.0000 ppm	83.8278 ppm
Concentration RSD	74.6 %	0.7 %	1,309.2 %	1.6 %	0.3 %	942.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0008 ppm	0.0021 ppm	0.0214 ppm	0.5496 ppm	6.1363 ppm	0.0074 ppm
Concentration per Run 1	-0.0004 ppm	0.0010 ppm	0.0019 ppm	0.0216 ppm	0.5520 ppm	6.1732 ppm	0.0076 ppm
Concentration per Run 2	-0.0003 ppm	0.0005 ppm	0.0022 ppm	0.0216 ppm	0.5527 ppm	6.1214 ppm	0.0070 ppm
Concentration per Run 3	-0.0003 ppm	0.0007 ppm	0.0021 ppm	0.0210 ppm	0.5440 ppm	6.1144 ppm	0.0075 ppm
Concentration RSD	21.8 %	32.7 %	6.2 %	1.5 %	0.9 %	0.5 %	4.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	18.3235 ppm	0.0514 ppm	0.0021 ppm	268.2707 ppm	0.0022 ppm	0.0014 ppm	-0.0003 ppm
Concentration per Run 1	18.4325 ppm	0.0511 ppm	0.0026 ppm	270.0020 ppm	0.0030 ppm	0.0035 ppm	0.0028 ppm
Concentration per Run 2	18.4027 ppm	0.0515 ppm	0.0018 ppm	264.8359 ppm	0.0021 ppm	0.0008 ppm	-0.0016 ppm
Concentration per Run 3	18.1352 ppm	0.0517 ppm	0.0018 ppm	269.9741 ppm	0.0016 ppm	-0.0001 ppm	-0.0021 ppm
Concentration RSD	0.9 %	0.5 %	23.2 %	1.1 %	31.7 %	132.7 %	886.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0027 ppm	3.5069 ppm	-0.0003 ppm	0.5767 ppm	0.0168 ppm	0.0019 ppm	0.0009 ppm
Concentration per Run 1	0.0030 ppm	3.5239 ppm	-0.0007 ppm	0.5791 ppm	0.0163 ppm	0.0014 ppm	0.0010 ppm
Concentration per Run 2	0.0027 ppm	3.5240 ppm	-0.0008 ppm	0.5766 ppm	0.0177 ppm	0.0015 ppm	0.0008 ppm
Concentration per Run 3	0.0024 ppm	3.4730 ppm	0.0006 ppm	0.5744 ppm	0.0165 ppm	0.0028 ppm	0.0008 ppm
Concentration RSD	11.1 %	0.8 %	245.9 %	0.4 %	4.5 %	40.2 %	14.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0501 ppm	104.6436 %	102.4316 %	105.2851 %	104.5164 %	101.5890 %	103.1005 %
Concentration per Run 1	0.0502 ppm	104.2835 %	102.2489 %	105.7580 %	104.5840 %	101.5820 %	103.2789 %
Concentration per Run 2	0.0502 ppm	104.2731 %	102.5682 %	104.5912 %	103.9592 %	101.4453 %	102.7531 %
Concentration per Run 3	0.0499 ppm	105.3743 %	102.4777 %	105.5063 %	105.0061 %	101.7399 %	103.2695 %
Concentration RSD	0.4 %	0.6 %	0.2 %	0.6 %	0.5 %	0.1 %	0.3 %

ICP DataTrace 9

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LabBook: WG2039956_03132025T9.imexp

Sample: L2512572-05 WG2039414
Analysis started at: 3/13/2025 12:14:38 PM
Rack 1
Vial 17
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.3631 ppm	-0.0003 ppm	0.0292 ppm	0.0399 ppm	0.0000 ppm	73.0356 ppm
Concentration per Run 1	-0.0002 ppm	0.3701 ppm	-0.0003 ppm	0.0301 ppm	0.0399 ppm	0.0000 ppm	73.0999 ppm
Concentration per Run 2	0.0000 ppm	0.3576 ppm	0.0003 ppm	0.0291 ppm	0.0400 ppm	0.0000 ppm	72.8601 ppm
Concentration per Run 3	0.0000 ppm	0.3615 ppm	-0.0009 ppm	0.0283 ppm	0.0399 ppm	0.0000 ppm	73.1468 ppm
Concentration RSD	118.3 %	1.8 %	179.7 %	3.1 %	0.2 %	73.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0003 ppm	0.0017 ppm	0.0178 ppm	0.5964 ppm	13.2770 ppm	0.0035 ppm
Concentration per Run 1	-0.0003 ppm	0.0007 ppm	0.0016 ppm	0.0182 ppm	0.5959 ppm	13.2420 ppm	0.0041 ppm
Concentration per Run 2	-0.0002 ppm	0.0005 ppm	0.0020 ppm	0.0175 ppm	0.5986 ppm	13.3468 ppm	0.0038 ppm
Concentration per Run 3	-0.0004 ppm	-0.0003 ppm	0.0017 ppm	0.0177 ppm	0.5948 ppm	13.2422 ppm	0.0026 ppm
Concentration RSD	20.9 %	153.4 %	11.7 %	2.2 %	0.3 %	0.5 %	22.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	11.3343 ppm	0.0371 ppm	0.0026 ppm	167.4858 ppm	0.0030 ppm	0.0034 ppm	-0.0021 ppm
Concentration per Run 1	11.4161 ppm	0.0368 ppm	0.0025 ppm	166.5500 ppm	0.0036 ppm	0.0027 ppm	-0.0044 ppm
Concentration per Run 2	11.2756 ppm	0.0372 ppm	0.0025 ppm	168.4252 ppm	0.0029 ppm	0.0021 ppm	-0.0020 ppm
Concentration per Run 3	11.3112 ppm	0.0373 ppm	0.0027 ppm	167.4821 ppm	0.0025 ppm	0.0056 ppm	0.0001 ppm
Concentration RSD	0.6 %	0.7 %	5.2 %	0.6 %	18.5 %	55.4 %	107.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0001 ppm	3.0808 ppm	-0.0010 ppm	0.2440 ppm	0.0115 ppm	0.0015 ppm	0.0010 ppm
Concentration per Run 1	-0.0015 ppm	3.0845 ppm	-0.0010 ppm	0.2437 ppm	0.0109 ppm	0.0009 ppm	0.0013 ppm
Concentration per Run 2	0.0021 ppm	3.0894 ppm	-0.0004 ppm	0.2448 ppm	0.0098 ppm	0.0015 ppm	0.0010 ppm
Concentration per Run 3	-0.0002 ppm	3.0685 ppm	-0.0015 ppm	0.2433 ppm	0.0136 ppm	0.0019 ppm	0.0006 ppm
Concentration RSD	1,494.0 %	0.4 %	57.8 %	0.3 %	17.2 %	34.9 %	33.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0485 ppm	107.0247 %	104.3279 %	106.9190 %	106.0287 %	102.8275 %	103.6814 %
Concentration per Run 1	0.0485 ppm	107.0031 %	104.3977 %	106.2585 %	106.3331 %	103.1406 %	103.4854 %
Concentration per Run 2	0.0481 ppm	106.9485 %	104.5743 %	106.3776 %	105.8390 %	102.9705 %	103.4481 %
Concentration per Run 3	0.0488 ppm	107.1226 %	104.0116 %	108.1210 %	105.9140 %	102.3713 %	104.1108 %
Concentration RSD	0.7 %	0.1 %	0.3 %	1.0 %	0.3 %	0.4 %	0.4 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: L2512572-06 WG2039414
Analysis started at: 3/13/2025 12:18:05 PM
Rack 1
Vial 18
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.5379 ppm	0.0004 ppm	0.0322 ppm	0.0494 ppm	0.0000 ppm	67.8768 ppm
Concentration per Run 1	0.0004 ppm	0.5305 ppm	0.0012 ppm	0.0326 ppm	0.0496 ppm	0.0000 ppm	67.9351 ppm
Concentration per Run 2	0.0001 ppm	0.5407 ppm	0.0010 ppm	0.0325 ppm	0.0495 ppm	0.0000 ppm	67.8884 ppm
Concentration per Run 3	0.0000 ppm	0.5423 ppm	-0.0009 ppm	0.0314 ppm	0.0491 ppm	0.0000 ppm	67.8069 ppm
Concentration RSD	116.3 %	1.2 %	290.3 %	2.1 %	0.6 %	36.9 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0009 ppm	0.0027 ppm	0.0157 ppm	0.7565 ppm	3.7944 ppm	0.0059 ppm
Concentration per Run 1	-0.0001 ppm	0.0010 ppm	0.0025 ppm	0.0155 ppm	0.7532 ppm	3.8141 ppm	0.0057 ppm
Concentration per Run 2	-0.0004 ppm	0.0009 ppm	0.0027 ppm	0.0152 ppm	0.7563 ppm	3.7829 ppm	0.0062 ppm
Concentration per Run 3	-0.0003 ppm	0.0009 ppm	0.0028 ppm	0.0165 ppm	0.7600 ppm	3.7862 ppm	0.0059 ppm
Concentration RSD	40.4 %	3.3 %	4.7 %	4.2 %	0.4 %	0.5 %	3.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	12.6927 ppm	0.0361 ppm	0.0018 ppm	213.8470 ppm	0.0025 ppm	0.0051 ppm	0.0013 ppm
Concentration per Run 1	12.6411 ppm	0.0363 ppm	0.0021 ppm	214.7466 ppm	0.0032 ppm	0.0042 ppm	0.0017 ppm
Concentration per Run 2	12.6967 ppm	0.0362 ppm	0.0012 ppm	213.3037 ppm	0.0012 ppm	0.0059 ppm	0.0000 ppm
Concentration per Run 3	12.7404 ppm	0.0359 ppm	0.0021 ppm	213.4907 ppm	0.0032 ppm	0.0053 ppm	0.0022 ppm
Concentration RSD	0.4 %	0.6 %	29.2 %	0.4 %	44.5 %	16.7 %	87.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0009 ppm	3.4996 ppm	-0.0003 ppm	0.3851 ppm	0.0135 ppm	0.0007 ppm	0.0015 ppm
Concentration per Run 1	-0.0014 ppm	3.4868 ppm	0.0004 ppm	0.3874 ppm	0.0144 ppm	0.0007 ppm	0.0014 ppm
Concentration per Run 2	-0.0013 ppm	3.5226 ppm	0.0002 ppm	0.3844 ppm	0.0134 ppm	-0.0003 ppm	0.0015 ppm
Concentration per Run 3	0.0001 ppm	3.4892 ppm	-0.0014 ppm	0.3834 ppm	0.0127 ppm	0.0018 ppm	0.0017 ppm
Concentration RSD	93.8 %	0.6 %	363.4 %	0.5 %	6.6 %	150.9 %	8.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0474 ppm	106.9681 %	103.2412 %	106.4123 %	106.0008 %	102.0664 %	103.9516 %
Concentration per Run 1	0.0467 ppm	107.2925 %	103.0147 %	106.6675 %	106.3175 %	102.2301 %	104.4758 %
Concentration per Run 2	0.0480 ppm	106.4270 %	103.4577 %	106.2897 %	105.7498 %	101.9391 %	103.8534 %
Concentration per Run 3	0.0475 ppm	107.1849 %	103.2511 %	106.2796 %	105.9351 %	102.0300 %	103.5255 %
Concentration RSD	1.3 %	0.4 %	0.2 %	0.2 %	0.3 %	0.1 %	0.5 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: L2512572-02 WG2039414
Analysis started at: 3/13/2025 12:21:32 PM
Rack 1
Vial 10
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.1754 ppm	-0.0009 ppm	0.0684 ppm	0.0658 ppm	0.0000 ppm	86.1603 ppm
Concentration per Run 1	-0.0007 ppm	0.1740 ppm	-0.0013 ppm	0.0683 ppm	0.0661 ppm	0.0000 ppm	86.3487 ppm
Concentration per Run 2	0.0004 ppm	0.1799 ppm	-0.0011 ppm	0.0682 ppm	0.0654 ppm	0.0000 ppm	85.9410 ppm
Concentration per Run 3	0.0003 ppm	0.1724 ppm	-0.0002 ppm	0.0686 ppm	0.0659 ppm	0.0000 ppm	86.1913 ppm
Concentration RSD	13,898.9 %	2.3 %	66.2 %	0.3 %	0.5 %	517.9 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0004 ppm	0.0004 ppm	0.0014 ppm	0.0204 ppm	0.4405 ppm	6.6947 ppm	0.0085 ppm
Concentration per Run 1	-0.0004 ppm	0.0005 ppm	0.0017 ppm	0.0210 ppm	0.4358 ppm	6.6953 ppm	0.0081 ppm
Concentration per Run 2	-0.0003 ppm	0.0004 ppm	0.0017 ppm	0.0205 ppm	0.4368 ppm	6.6886 ppm	0.0085 ppm
Concentration per Run 3	-0.0004 ppm	0.0004 ppm	0.0008 ppm	0.0198 ppm	0.4489 ppm	6.7001 ppm	0.0089 ppm
Concentration RSD	24.0 %	12.8 %	36.5 %	2.9 %	1.7 %	0.1 %	4.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	18.7623 ppm	0.0540 ppm	0.0018 ppm	259.8759 ppm	0.0028 ppm	0.0024 ppm	-0.0003 ppm
Concentration per Run 1	18.6726 ppm	0.0542 ppm	0.0018 ppm	260.5509 ppm	0.0024 ppm	0.0041 ppm	0.0020 ppm
Concentration per Run 2	18.7927 ppm	0.0540 ppm	0.0022 ppm	258.9827 ppm	0.0020 ppm	0.0027 ppm	-0.0009 ppm
Concentration per Run 3	18.8214 ppm	0.0538 ppm	0.0014 ppm	260.0941 ppm	0.0040 ppm	0.0004 ppm	-0.0020 ppm
Concentration RSD	0.4 %	0.4 %	21.7 %	0.3 %	38.0 %	77.3 %	660.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0018 ppm	3.3246 ppm	-0.0001 ppm	0.5970 ppm	0.0154 ppm	0.0025 ppm	0.0005 ppm
Concentration per Run 1	0.0023 ppm	3.3270 ppm	0.0006 ppm	0.5974 ppm	0.0155 ppm	0.0026 ppm	0.0007 ppm
Concentration per Run 2	0.0017 ppm	3.3239 ppm	0.0004 ppm	0.5949 ppm	0.0164 ppm	0.0014 ppm	0.0005 ppm
Concentration per Run 3	0.0015 ppm	3.3230 ppm	-0.0014 ppm	0.5988 ppm	0.0143 ppm	0.0035 ppm	0.0003 ppm
Concentration RSD	24.2 %	0.1 %	788.5 %	0.3 %	6.7 %	43.2 %	39.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0494 ppm	106.4058 %	103.8165 %	105.9750 %	105.8914 %	102.9549 %	103.9207 %
Concentration per Run 1	0.0489 ppm	106.3195 %	103.5940 %	105.1186 %	106.0620 %	103.1252 %	103.7059 %
Concentration per Run 2	0.0497 ppm	106.3082 %	104.3928 %	106.7395 %	105.6802 %	103.3753 %	104.0737 %
Concentration per Run 3	0.0496 ppm	106.5897 %	103.4625 %	106.0670 %	105.9318 %	102.3643 %	103.9824 %
Concentration RSD	0.8 %	0.1 %	0.5 %	0.8 %	0.2 %	0.5 %	0.2 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: WG2039414-7 WG2039414
Analysis started at: 3/13/2025 12:25:00 PM
Rack 1
Vial 11
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0488 ppm	2.1240 ppm	0.1160 ppm	1.0152 ppm	1.9933 ppm	0.0494 ppm	95.3100 ppm
Concentration per Run 1	0.0488 ppm	2.1179 ppm	0.1158 ppm	1.0139 ppm	2.0001 ppm	0.0496 ppm	95.1550 ppm
Concentration per Run 2	0.0490 ppm	2.1268 ppm	0.1161 ppm	1.0138 ppm	1.9919 ppm	0.0493 ppm	95.2103 ppm
Concentration per Run 3	0.0487 ppm	2.1272 ppm	0.1160 ppm	1.0180 ppm	1.9880 ppm	0.0491 ppm	95.5647 ppm
Concentration RSD	0.3 %	0.2 %	0.1 %	0.2 %	0.3 %	0.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0480 ppm	0.4748 ppm	0.1897 ppm	0.2753 ppm	1.4055 ppm	17.4180 ppm	0.0078 ppm
Concentration per Run 1	0.0476 ppm	0.4733 ppm	0.1906 ppm	0.2764 ppm	1.4202 ppm	17.3957 ppm	0.0083 ppm
Concentration per Run 2	0.0481 ppm	0.4770 ppm	0.1890 ppm	0.2754 ppm	1.3990 ppm	17.4361 ppm	0.0072 ppm
Concentration per Run 3	0.0483 ppm	0.4741 ppm	0.1895 ppm	0.2740 ppm	1.3973 ppm	17.4221 ppm	0.0080 ppm
Concentration RSD	0.7 %	0.4 %	0.4 %	0.4 %	0.9 %	0.1 %	7.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	28.2524 ppm	0.5361 ppm	0.9500 ppm	268.4144 ppm	0.4717 ppm	0.5329 ppm	0.4425 ppm
Concentration per Run 1	28.2213 ppm	0.5387 ppm	0.9418 ppm	269.0581 ppm	0.4690 ppm	0.5317 ppm	0.4341 ppm
Concentration per Run 2	28.2718 ppm	0.5358 ppm	0.9504 ppm	268.3031 ppm	0.4726 ppm	0.5345 ppm	0.4439 ppm
Concentration per Run 3	28.2642 ppm	0.5339 ppm	0.9578 ppm	267.8820 ppm	0.4734 ppm	0.5325 ppm	0.4494 ppm
Concentration RSD	0.1 %	0.5 %	0.8 %	0.2 %	0.5 %	0.3 %	1.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1151 ppm	4.4617 ppm	0.8088 ppm	1.5898 ppm	0.9807 ppm	0.1172 ppm	0.4882 ppm
Concentration per Run 1	0.1147 ppm	4.4571 ppm	0.8122 ppm	1.5973 ppm	0.9795 ppm	0.1195 ppm	0.4884 ppm
Concentration per Run 2	0.1172 ppm	4.4528 ppm	0.8054 ppm	1.5864 ppm	0.9831 ppm	0.1179 ppm	0.4887 ppm
Concentration per Run 3	0.1134 ppm	4.4753 ppm	0.8087 ppm	1.5856 ppm	0.9796 ppm	0.1141 ppm	0.4874 ppm
Concentration RSD	1.7 %	0.3 %	0.4 %	0.4 %	0.2 %	2.3 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5159 ppm	107.7504 %	104.2383 %	105.8069 %	105.7608 %	102.2751 %	102.6909 %
Concentration per Run 1	0.5141 ppm	108.1439 %	104.1796 %	106.5719 %	106.1961 %	102.0091 %	102.8860 %
Concentration per Run 2	0.5158 ppm	107.4063 %	104.2270 %	105.2322 %	105.7988 %	102.0540 %	102.7621 %
Concentration per Run 3	0.5176 ppm	107.7009 %	104.3082 %	105.6167 %	105.2876 %	102.7623 %	102.4247 %
Concentration RSD	0.3 %	0.3 %	0.1 %	0.7 %	0.4 %	0.4 %	0.2 %

LabBook: WG2039956_03132025T9.imexp

Sample: WG2039414-8 WG2039414
Analysis started at: 3/13/2025 12:28:29 PM
Rack 1
Vial 12
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	0.1810 ppm	0.0006 ppm	0.0696 ppm	0.0668 ppm	0.0000 ppm	86.8335 ppm
Concentration per Run 1	-0.0005 ppm	0.1875 ppm	0.0004 ppm	0.0711 ppm	0.0668 ppm	0.0000 ppm	86.7460 ppm
Concentration per Run 2	0.0001 ppm	0.1803 ppm	0.0001 ppm	0.0688 ppm	0.0667 ppm	0.0000 ppm	87.0816 ppm
Concentration per Run 3	-0.0006 ppm	0.1753 ppm	0.0012 ppm	0.0690 ppm	0.0668 ppm	0.0000 ppm	86.6729 ppm
Concentration RSD	122.2 %	3.4 %	94.4 %	1.8 %	0.1 %	250.5 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0004 ppm	0.0000 ppm	0.0010 ppm	0.0211 ppm	0.4357 ppm	6.7706 ppm	0.0085 ppm
Concentration per Run 1	-0.0004 ppm	-0.0002 ppm	0.0011 ppm	0.0208 ppm	0.4380 ppm	6.7811 ppm	0.0088 ppm
Concentration per Run 2	-0.0004 ppm	0.0004 ppm	0.0007 ppm	0.0210 ppm	0.4349 ppm	6.7549 ppm	0.0078 ppm
Concentration per Run 3	-0.0004 ppm	0.0000 ppm	0.0011 ppm	0.0216 ppm	0.4341 ppm	6.7757 ppm	0.0091 ppm
Concentration RSD	7.0 %	886.9 %	20.5 %	2.0 %	0.5 %	0.2 %	7.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	18.9119 ppm	0.0541 ppm	0.0073 ppm	262.5453 ppm	0.0021 ppm	0.0033 ppm	0.0058 ppm
Concentration per Run 1	18.9525 ppm	0.0540 ppm	0.0081 ppm	261.8241 ppm	0.0024 ppm	0.0014 ppm	0.0053 ppm
Concentration per Run 2	18.8800 ppm	0.0539 ppm	0.0071 ppm	260.2089 ppm	0.0015 ppm	0.0030 ppm	0.0056 ppm
Concentration per Run 3	18.9031 ppm	0.0544 ppm	0.0067 ppm	265.6029 ppm	0.0025 ppm	0.0055 ppm	0.0065 ppm
Concentration RSD	0.2 %	0.5 %	10.0 %	1.1 %	27.7 %	63.1 %	11.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0009 ppm	3.3514 ppm	0.0037 ppm	0.6028 ppm	0.0148 ppm	0.0024 ppm	0.0008 ppm
Concentration per Run 1	0.0007 ppm	3.3457 ppm	0.0048 ppm	0.6028 ppm	0.0139 ppm	0.0014 ppm	0.0008 ppm
Concentration per Run 2	0.0021 ppm	3.3545 ppm	0.0030 ppm	0.6031 ppm	0.0164 ppm	0.0044 ppm	0.0010 ppm
Concentration per Run 3	-0.0001 ppm	3.3539 ppm	0.0031 ppm	0.6027 ppm	0.0141 ppm	0.0013 ppm	0.0007 ppm
Concentration RSD	126.9 %	0.1 %	27.7 %	0.0 %	9.4 %	72.3 %	22.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0493 ppm	106.7908 %	103.2193 %	106.0551 %	106.1695 %	102.3506 %	104.1431 %
Concentration per Run 1	0.0498 ppm	106.9831 %	103.5109 %	105.6428 %	106.5379 %	102.8642 %	103.9899 %
Concentration per Run 2	0.0490 ppm	106.9942 %	103.3278 %	106.3108 %	106.4107 %	101.8814 %	104.3516 %
Concentration per Run 3	0.0492 ppm	106.3951 %	102.8193 %	106.2118 %	105.5600 %	102.3063 %	104.0879 %
Concentration RSD	0.8 %	0.3 %	0.3 %	0.3 %	0.5 %	0.5 %	0.2 %

LabBook: WG2039956_03132025T9.imexp

Sample: WG2039414-9 WG2039414
Analysis started at: 3/13/2025 12:31:57 PM
Rack 1
Vial 13
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0321 ppm	2.1019 ppm	0.1197 ppm	0.9991 ppm	1.9680 ppm	0.0491 ppm	92.1603 ppm
Concentration per Run 1	0.0321 ppm	2.0999 ppm	0.1184 ppm	0.9981 ppm	1.9645 ppm	0.0492 ppm	91.9549 ppm
Concentration per Run 2	0.0324 ppm	2.1046 ppm	0.1207 ppm	0.9989 ppm	1.9628 ppm	0.0490 ppm	92.6551 ppm
Concentration per Run 3	0.0318 ppm	2.1013 ppm	0.1199 ppm	1.0003 ppm	1.9766 ppm	0.0491 ppm	91.8708 ppm
Concentration RSD	0.8 %	0.1 %	1.0 %	0.1 %	0.4 %	0.2 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0480 ppm	0.4707 ppm	0.1889 ppm	0.2724 ppm	1.4188 ppm	17.0183 ppm	0.0078 ppm
Concentration per Run 1	0.0483 ppm	0.4728 ppm	0.1888 ppm	0.2730 ppm	1.4142 ppm	17.0408 ppm	0.0080 ppm
Concentration per Run 2	0.0478 ppm	0.4701 ppm	0.1889 ppm	0.2722 ppm	1.4298 ppm	16.9903 ppm	0.0079 ppm
Concentration per Run 3	0.0480 ppm	0.4692 ppm	0.1890 ppm	0.2721 ppm	1.4124 ppm	17.0238 ppm	0.0076 ppm
Concentration RSD	0.6 %	0.4 %	0.0 %	0.2 %	0.7 %	0.2 %	2.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	27.3690 ppm	0.5337 ppm	0.9363 ppm	259.6835 ppm	0.4711 ppm	0.5299 ppm	0.3513 ppm
Concentration per Run 1	27.4769 ppm	0.5337 ppm	0.9328 ppm	259.6505 ppm	0.4716 ppm	0.5270 ppm	0.3420 ppm
Concentration per Run 2	27.2313 ppm	0.5357 ppm	0.9330 ppm	259.5523 ppm	0.4711 ppm	0.5340 ppm	0.3505 ppm
Concentration per Run 3	27.3989 ppm	0.5318 ppm	0.9432 ppm	259.8477 ppm	0.4705 ppm	0.5287 ppm	0.3614 ppm
Concentration RSD	0.5 %	0.4 %	0.6 %	0.1 %	0.1 %	0.7 %	2.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1221 ppm	4.0054 ppm	0.9311 ppm	1.5512 ppm	0.9867 ppm	0.1205 ppm	0.4857 ppm
Concentration per Run 1	0.1194 ppm	4.0203 ppm	0.9278 ppm	1.5479 ppm	0.9885 ppm	0.1213 ppm	0.4864 ppm
Concentration per Run 2	0.1232 ppm	3.9977 ppm	0.9332 ppm	1.5485 ppm	0.9853 ppm	0.1200 ppm	0.4852 ppm
Concentration per Run 3	0.1238 ppm	3.9984 ppm	0.9324 ppm	1.5573 ppm	0.9864 ppm	0.1204 ppm	0.4854 ppm
Concentration RSD	1.9 %	0.3 %	0.3 %	0.3 %	0.2 %	0.6 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5143 ppm	107.6984 %	103.8365 %	106.5633 %	105.5991 %	101.9762 %	103.2285 %
Concentration per Run 1	0.5154 ppm	107.6684 %	103.8095 %	106.4805 %	106.0576 %	102.1658 %	102.9481 %
Concentration per Run 2	0.5146 ppm	107.7585 %	102.9261 %	106.5352 %	105.3000 %	101.0897 %	103.7765 %
Concentration per Run 3	0.5128 ppm	107.6683 %	104.7740 %	106.6741 %	105.4397 %	102.6732 %	102.9610 %
Concentration RSD	0.3 %	0.0 %	0.9 %	0.1 %	0.4 %	0.8 %	0.5 %

LabBook: WG2039956_03132025T9.imexp

Sample: WG2039414-10D5 WG2039414
Analysis started at: 3/13/2025 12:35:23 PM
Rack 1
Vial 14
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0272 ppm	-0.0007 ppm	0.0130 ppm	0.0131 ppm	0.0000 ppm	17.2937 ppm
Concentration per Run 1	0.0005 ppm	0.0264 ppm	0.0003 ppm	0.0131 ppm	0.0131 ppm	0.0000 ppm	17.3531 ppm
Concentration per Run 2	0.0000 ppm	0.0265 ppm	-0.0011 ppm	0.0128 ppm	0.0130 ppm	0.0000 ppm	17.2175 ppm
Concentration per Run 3	0.0000 ppm	0.0286 ppm	-0.0013 ppm	0.0130 ppm	0.0132 ppm	0.0000 ppm	17.3105 ppm
Concentration RSD	190.6 %	4.6 %	119.0 %	1.0 %	0.6 %	2,611.3 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0010 ppm	0.5198 ppm	0.0038 ppm	3.8190 ppm	1.2894 ppm	0.0016 ppm
Concentration per Run 1	0.0000 ppm	0.0015 ppm	0.5264 ppm	0.0036 ppm	3.8810 ppm	1.3078 ppm	0.0024 ppm
Concentration per Run 2	-0.0002 ppm	0.0012 ppm	0.5175 ppm	0.0041 ppm	3.8378 ppm	1.2946 ppm	0.0006 ppm
Concentration per Run 3	0.0000 ppm	0.0004 ppm	0.5156 ppm	0.0038 ppm	3.7382 ppm	1.2660 ppm	0.0018 ppm
Concentration RSD	140.5 %	51.8 %	1.1 %	7.4 %	1.9 %	1.7 %	57.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.7267 ppm	0.0654 ppm	0.0079 ppm	52.5648 ppm	0.0098 ppm	0.0018 ppm	0.0160 ppm
Concentration per Run 1	3.7394 ppm	0.0668 ppm	0.0079 ppm	52.3941 ppm	0.0094 ppm	0.0023 ppm	0.0142 ppm
Concentration per Run 2	3.7226 ppm	0.0652 ppm	0.0077 ppm	52.8519 ppm	0.0096 ppm	0.0015 ppm	0.0162 ppm
Concentration per Run 3	3.7180 ppm	0.0642 ppm	0.0081 ppm	52.4484 ppm	0.0104 ppm	0.0015 ppm	0.0175 ppm
Concentration RSD	0.3 %	2.0 %	2.2 %	0.5 %	5.6 %	27.0 %	10.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0015 ppm	0.6828 ppm	0.0098 ppm	0.1185 ppm	0.0034 ppm	0.0020 ppm	0.0016 ppm
Concentration per Run 1	-0.0030 ppm	0.6804 ppm	0.0099 ppm	0.1182 ppm	0.0034 ppm	0.0043 ppm	0.0016 ppm
Concentration per Run 2	-0.0009 ppm	0.6868 ppm	0.0106 ppm	0.1191 ppm	0.0038 ppm	0.0003 ppm	0.0018 ppm
Concentration per Run 3	-0.0005 ppm	0.6811 ppm	0.0089 ppm	0.1183 ppm	0.0029 ppm	0.0013 ppm	0.0015 ppm
Concentration RSD	90.0 %	0.5 %	8.8 %	0.4 %	13.3 %	106.5 %	11.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0101 ppm	109.4032 %	107.0850 %	109.7331 %	107.7929 %	105.0226 %	106.3934 %
Concentration per Run 1	0.0101 ppm	108.5764 %	107.5030 %	109.3982 %	107.3861 %	105.0926 %	105.9114 %
Concentration per Run 2	0.0101 ppm	110.3489 %	107.0626 %	110.3531 %	108.9057 %	105.2345 %	106.8850 %
Concentration per Run 3	0.0102 ppm	109.2845 %	106.6893 %	109.4480 %	107.0869 %	104.7407 %	106.3839 %
Concentration RSD	0.7 %	0.8 %	0.4 %	0.5 %	0.9 %	0.2 %	0.5 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: CCV
Analysis started at: 3/13/2025 12:38:49 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4538 ppm	0.4594 ppm	0.4662 ppm	0.4591 ppm	0.4739 ppm	0.4910 ppm	0.4898 ppm
Concentration per Run 1	0.4543 ppm	0.4662 ppm	0.4650 ppm	0.4569 ppm	0.4742 ppm	0.4919 ppm	0.4879 ppm
Concentration per Run 2	0.4522 ppm	0.4627 ppm	0.4676 ppm	0.4599 ppm	0.4733 ppm	0.4909 ppm	0.4889 ppm
Concentration per Run 3	0.4549 ppm	0.4492 ppm	0.4661 ppm	0.4606 ppm	0.4742 ppm	0.4900 ppm	0.4927 ppm
Recovery Percentage 1	90.753 %	91.875 %	93.250 %	91.822 %	94.776 %	98.191 %	97.967 %
Concentration RSD	0.3 %	1.9 %	0.3 %	0.4 %	0.1 %	0.2 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4797 ppm	0.4908 ppm	0.4798 ppm	0.4561 ppm	0.4994 ppm	4.9183 ppm	0.4765 ppm
Concentration per Run 1	0.4807 ppm	0.4907 ppm	0.4791 ppm	0.4572 ppm	0.5016 ppm	4.8896 ppm	0.4773 ppm
Concentration per Run 2	0.4780 ppm	0.4892 ppm	0.4804 ppm	0.4522 ppm	0.4979 ppm	4.9370 ppm	0.4762 ppm
Concentration per Run 3	0.4802 ppm	0.4925 ppm	0.4798 ppm	0.4590 ppm	0.4986 ppm	4.9283 ppm	0.4761 ppm
Recovery Percentage 1	95.930 %	98.161 %	95.956 %	91.227 %	99.878 %	98.365 %	95.307 %
Concentration RSD	0.3 %	0.3 %	0.1 %	0.8 %	0.4 %	0.5 %	0.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4775 ppm	0.4798 ppm	0.4801 ppm	9.5899 ppm	0.4893 ppm	0.4911 ppm	0.4784 ppm
Concentration per Run 1	0.4784 ppm	0.4790 ppm	0.4790 ppm	9.6011 ppm	0.4871 ppm	0.4923 ppm	0.4751 ppm
Concentration per Run 2	0.4766 ppm	0.4810 ppm	0.4809 ppm	9.5978 ppm	0.4906 ppm	0.4920 ppm	0.4794 ppm
Concentration per Run 3	0.4775 ppm	0.4793 ppm	0.4805 ppm	9.5709 ppm	0.4902 ppm	0.4890 ppm	0.4808 ppm
Recovery Percentage 1	95.500 %	95.951 %	96.020 %	95.899 %	97.860 %	98.215 %	95.683 %
Concentration RSD	0.2 %	0.2 %	0.2 %	0.2 %	0.4 %	0.4 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4669 ppm	5.1668 ppm	0.4979 ppm	0.4905 ppm	0.4844 ppm	0.4782 ppm	0.4762 ppm
Concentration per Run 1	0.4685 ppm	5.1589 ppm	0.5011 ppm	0.4899 ppm	0.4839 ppm	0.4777 ppm	0.4750 ppm
Concentration per Run 2	0.4670 ppm	5.1668 ppm	0.4943 ppm	0.4902 ppm	0.4849 ppm	0.4802 ppm	0.4749 ppm
Concentration per Run 3	0.4650 ppm	5.1746 ppm	0.4983 ppm	0.4914 ppm	0.4844 ppm	0.4767 ppm	0.4788 ppm
Recovery Percentage 1	93.371 %	98.415 %	99.584 %	98.095 %	96.883 %	95.640 %	95.244 %
Concentration RSD	0.4 %	0.2 %	0.7 %	0.2 %	0.1 %	0.4 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4831 ppm	108.7460 %	106.9166 %	109.0520 %	106.9047 %	105.1420 %	106.8980 %
Concentration per Run 1	0.4845 ppm	108.3353 %	107.3335 %	108.5722 %	106.2784 %	105.6520 %	106.4945 %
Concentration per Run 2	0.4837 ppm	108.4519 %	106.9128 %	108.5160 %	106.8452 %	105.0669 %	106.9979 %
Concentration per Run 3	0.4812 ppm	109.4507 %	106.5036 %	110.0680 %	107.5904 %	104.7071 %	107.2016 %
Recovery Percentage 1	96.624 %						
Concentration RSD	0.4 %	0.6 %	0.4 %	0.8 %	0.6 %	0.5 %	0.3 %

LabBook: WG2039956_03132025T9.imexp

Sample: CCB
Analysis started at: 3/13/2025 12:42:17 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	-0.0030 ppm	0.0001 ppm	-0.0011 ppm	0.0000 ppm	0.0000 ppm	0.0014 ppm
Concentration per Run 1	-0.0003 ppm	-0.0001 ppm	0.0002 ppm	-0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0034 ppm
Concentration per Run 2	0.0000 ppm	-0.0058 ppm	0.0007 ppm	-0.0028 ppm	0.0000 ppm	0.0001 ppm	-0.0015 ppm
Concentration per Run 3	-0.0005 ppm	-0.0033 ppm	-0.0006 ppm	0.0004 ppm	-0.0001 ppm	0.0000 ppm	0.0023 ppm
Recovery Percentage 1	-3.872 %	-3.033 %	1.723 %	-3.587 %	-0.383 %	0.937 %	1.388 %
Concentration RSD	107.5 %	94.1 %	788.6 %	146.6 %	51.8 %	57.6 %	187.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0008 ppm	-0.0014 ppm	-0.0217 ppm	0.0002 ppm
Concentration per Run 1	-0.0001 ppm	-0.0001 ppm	-0.0003 ppm	-0.0009 ppm	-0.0022 ppm	-0.0314 ppm	-0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0011 ppm	-0.0005 ppm	-0.0001 ppm	-0.0171 ppm	-0.0003 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	-0.0006 ppm	-0.0010 ppm	-0.0019 ppm	-0.0166 ppm	0.0008 ppm
Recovery Percentage 1	0.340 %	-0.177 %	0.510 %	-7.925 %	-2.835 %	-0.867 %	3.414 %
Concentration RSD	404.5 %	533.1 %	1,759.0 %	33.1 %	80.7 %	38.8 %	347.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0003 ppm	-0.0001 ppm	0.0015 ppm	0.0143 ppm	0.0013 ppm	0.0014 ppm	0.0043 ppm
Concentration per Run 1	0.0021 ppm	0.0000 ppm	0.0019 ppm	0.0156 ppm	0.0021 ppm	0.0014 ppm	0.0009 ppm
Concentration per Run 2	0.0002 ppm	-0.0001 ppm	0.0008 ppm	0.0092 ppm	0.0007 ppm	0.0016 ppm	0.0071 ppm
Concentration per Run 3	-0.0012 ppm	-0.0001 ppm	0.0018 ppm	0.0181 ppm	0.0013 ppm	0.0012 ppm	0.0049 ppm
Recovery Percentage 1	0.347 %	-0.576 %	3.041 %	0.715 %	5.353 %	13.975 %	8.605 %
Concentration RSD	470.6 %	140.8 %	41.7 %	32.1 %	51.9 %	11.9 %	73.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0003 ppm	-0.0102 ppm	0.0008 ppm	0.0000 ppm	0.0006 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 1	-0.0012 ppm	-0.0098 ppm	0.0007 ppm	0.0000 ppm	0.0008 ppm	0.0024 ppm	0.0002 ppm
Concentration per Run 2	0.0017 ppm	-0.0110 ppm	0.0001 ppm	-0.0002 ppm	0.0004 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 3	-0.0015 ppm	-0.0097 ppm	0.0015 ppm	0.0001 ppm	0.0005 ppm	-0.0020 ppm	-0.0003 ppm
Recovery Percentage 1	-3.224 %	-2.033 %	1.509 %	-0.240 %	5.776 %	0.357 %	-0.744 %
Concentration RSD	538.2 %	7.3 %	92.8 %	568.7 %	35.4 %	3,075.3 %	287.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0001 ppm	106.1058 %	106.5213 %	106.9068 %	106.8192 %	106.5886 %	107.0729 %
Concentration per Run 1	0.0002 ppm	106.6336 %	106.1945 %	107.4089 %	107.6167 %	106.3000 %	107.5272 %
Concentration per Run 2	0.0000 ppm	106.2660 %	106.1781 %	106.4738 %	107.2715 %	106.4180 %	106.9599 %
Concentration per Run 3	0.0002 ppm	105.4179 %	107.1913 %	106.8378 %	105.5694 %	107.0480 %	106.7317 %
Recovery Percentage 1	2.869 %						
Concentration RSD	91.6 %	0.6 %	0.5 %	0.4 %	1.0 %	0.4 %	0.4 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: L2512522-11 WG2038451
Analysis started at: 3/13/2025 12:57:11 PM
Rack 1
Vial 46
Comment FB

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0006 ppm	-0.0019 ppm	-0.0008 ppm	-0.0003 ppm	0.0005 ppm	0.0000 ppm	0.1306 ppm
Concentration per Run 1	-0.0008 ppm	-0.0041 ppm	-0.0018 ppm	0.0011 ppm	0.0005 ppm	0.0000 ppm	0.1303 ppm
Concentration per Run 2	-0.0005 ppm	-0.0022 ppm	0.0001 ppm	-0.0018 ppm	0.0003 ppm	0.0000 ppm	0.1298 ppm
Concentration per Run 3	-0.0005 ppm	0.0007 ppm	-0.0007 ppm	-0.0002 ppm	0.0005 ppm	0.0000 ppm	0.1315 ppm
Concentration RSD	31.7 %	128.3 %	116.3 %	456.4 %	27.4 %	194.3 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	-0.0007 ppm	0.0012 ppm	-0.0212 ppm	0.0005 ppm
Concentration per Run 1	-0.0001 ppm	0.0001 ppm	-0.0003 ppm	-0.0006 ppm	0.0016 ppm	-0.0249 ppm	0.0000 ppm
Concentration per Run 2	0.0001 ppm	-0.0004 ppm	-0.0003 ppm	-0.0005 ppm	0.0003 ppm	-0.0178 ppm	0.0003 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0003 ppm	-0.0012 ppm	0.0018 ppm	-0.0210 ppm	0.0011 ppm
Concentration RSD	5,295.8 %	138.9 %	324.4 %	48.2 %	64.8 %	16.6 %	126.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0068 ppm	0.0000 ppm	0.0000 ppm	0.0307 ppm	0.0003 ppm	0.0019 ppm	-0.0027 ppm
Concentration per Run 1	0.0041 ppm	0.0000 ppm	0.0002 ppm	0.0348 ppm	0.0009 ppm	0.0012 ppm	-0.0025 ppm
Concentration per Run 2	0.0068 ppm	0.0000 ppm	-0.0001 ppm	0.0281 ppm	0.0006 ppm	0.0024 ppm	-0.0017 ppm
Concentration per Run 3	0.0095 ppm	0.0001 ppm	0.0000 ppm	0.0291 ppm	-0.0005 ppm	0.0022 ppm	-0.0038 ppm
Concentration RSD	40.1 %	179.3 %	423.9 %	11.8 %	217.6 %	32.1 %	40.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0014 ppm	-0.0112 ppm	-0.0009 ppm	0.0003 ppm	0.0002 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 1	-0.0037 ppm	-0.0137 ppm	-0.0004 ppm	0.0003 ppm	0.0002 ppm	-0.0003 ppm	-0.0001 ppm
Concentration per Run 2	-0.0005 ppm	-0.0089 ppm	-0.0007 ppm	0.0004 ppm	0.0002 ppm	0.0011 ppm	0.0001 ppm
Concentration per Run 3	0.0001 ppm	-0.0111 ppm	-0.0015 ppm	0.0003 ppm	0.0003 ppm	-0.0006 ppm	-0.0002 ppm
Concentration RSD	148.8 %	21.0 %	64.4 %	17.7 %	28.2 %	1,493.5 %	139.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0019 ppm	108.2318 %	107.5902 %	108.2244 %	107.7945 %	106.9554 %	108.0751 %
Concentration per Run 1	0.0018 ppm	108.3207 %	107.3213 %	109.2913 %	108.1441 %	106.9650 %	108.7609 %
Concentration per Run 2	0.0020 ppm	108.3554 %	107.8478 %	108.5999 %	107.8083 %	107.1336 %	108.4673 %
Concentration per Run 3	0.0018 ppm	108.0194 %	107.6016 %	106.7819 %	107.4311 %	106.7674 %	106.9971 %
Concentration RSD	6.7 %	0.2 %	0.2 %	1.2 %	0.3 %	0.2 %	0.9 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: L2512607-06 WG2039059
Analysis started at: 3/13/2025 1:00:53 PM
Rack 1
Vial 45
Comment EB

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.2170 ppm	-0.0004 ppm	0.0000 ppm	0.0024 ppm	0.0000 ppm	0.1154 ppm
Concentration per Run 1	0.0006 ppm	0.2198 ppm	0.0000 ppm	-0.0002 ppm	0.0024 ppm	0.0000 ppm	0.1177 ppm
Concentration per Run 2	-0.0004 ppm	0.2133 ppm	-0.0005 ppm	0.0011 ppm	0.0026 ppm	0.0001 ppm	0.1163 ppm
Concentration per Run 3	0.0000 ppm	0.2179 ppm	-0.0006 ppm	-0.0010 ppm	0.0023 ppm	0.0000 ppm	0.1120 ppm
Concentration RSD	711.5 %	1.5 %	85.1 %	44,603.1 %	5.4 %	228.6 %	2.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0003 ppm	0.0004 ppm	0.0002 ppm	0.2708 ppm	0.0213 ppm	0.0003 ppm
Concentration per Run 1	-0.0003 ppm	0.0010 ppm	0.0001 ppm	0.0004 ppm	0.2722 ppm	0.0147 ppm	0.0007 ppm
Concentration per Run 2	-0.0001 ppm	0.0002 ppm	0.0005 ppm	0.0002 ppm	0.2726 ppm	0.0134 ppm	0.0004 ppm
Concentration per Run 3	-0.0002 ppm	-0.0001 ppm	0.0005 ppm	-0.0001 ppm	0.2676 ppm	0.0358 ppm	0.0000 ppm
Concentration RSD	58.1 %	164.1 %	63.9 %	144.5 %	1.0 %	58.9 %	91.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0600 ppm	0.0136 ppm	-0.0004 ppm	0.0130 ppm	0.0008 ppm	0.0017 ppm	-0.0041 ppm
Concentration per Run 1	0.0598 ppm	0.0135 ppm	-0.0005 ppm	0.0098 ppm	0.0014 ppm	0.0005 ppm	-0.0018 ppm
Concentration per Run 2	0.0628 ppm	0.0136 ppm	-0.0006 ppm	0.0138 ppm	-0.0001 ppm	0.0024 ppm	-0.0072 ppm
Concentration per Run 3	0.0573 ppm	0.0136 ppm	0.0000 ppm	0.0153 ppm	0.0010 ppm	0.0022 ppm	-0.0034 ppm
Concentration RSD	4.5 %	0.7 %	95.1 %	22.0 %	97.2 %	59.3 %	66.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	0.1915 ppm	-0.0017 ppm	0.0009 ppm	0.0115 ppm	-0.0016 ppm	0.0006 ppm
Concentration per Run 1	0.0029 ppm	0.1927 ppm	-0.0014 ppm	0.0008 ppm	0.0116 ppm	-0.0027 ppm	0.0006 ppm
Concentration per Run 2	-0.0021 ppm	0.1940 ppm	-0.0020 ppm	0.0009 ppm	0.0113 ppm	-0.0001 ppm	0.0006 ppm
Concentration per Run 3	-0.0002 ppm	0.1879 ppm	-0.0018 ppm	0.0009 ppm	0.0116 ppm	-0.0020 ppm	0.0005 ppm
Concentration RSD	1,316.4 %	1.7 %	19.3 %	5.1 %	1.5 %	85.7 %	9.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0015 ppm	108.2024 %	107.7652 %	109.5064 %	107.9697 %	106.2726 %	108.5238 %
Concentration per Run 1	0.0013 ppm	108.5926 %	107.5177 %	109.4596 %	108.5058 %	106.4243 %	108.9159 %
Concentration per Run 2	0.0015 ppm	108.0101 %	107.8058 %	108.8553 %	108.0057 %	105.7486 %	107.9724 %
Concentration per Run 3	0.0016 ppm	108.0043 %	107.9722 %	110.2045 %	107.3977 %	106.6450 %	108.6833 %
Concentration RSD	11.5 %	0.3 %	0.2 %	0.6 %	0.5 %	0.4 %	0.5 %

ICP DataTrace 9

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LabBook: WG2039956_03132025T9.imexp

Sample: L2512368-02 WG2039059
Analysis started at: 3/13/2025 1:04:21 PM
Rack 1
Vial 44
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	0.0010 ppm	-0.0017 ppm	0.0118 ppm	0.0708 ppm	0.0000 ppm	17.0790 ppm
Concentration per Run 1	-0.0002 ppm	0.0011 ppm	-0.0018 ppm	0.0114 ppm	0.0706 ppm	0.0000 ppm	17.1028 ppm
Concentration per Run 2	-0.0010 ppm	0.0016 ppm	-0.0007 ppm	0.0125 ppm	0.0709 ppm	0.0000 ppm	17.0776 ppm
Concentration per Run 3	-0.0003 ppm	0.0002 ppm	-0.0025 ppm	0.0114 ppm	0.0709 ppm	0.0000 ppm	17.0567 ppm
Concentration RSD	84.7 %	73.2 %	55.6 %	5.2 %	0.3 %	95.4 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0001 ppm	0.0030 ppm	-0.0004 ppm	0.0109 ppm	1.0755 ppm	0.0011 ppm
Concentration per Run 1	-0.0001 ppm	0.0002 ppm	0.0035 ppm	-0.0004 ppm	0.0110 ppm	1.0742 ppm	0.0014 ppm
Concentration per Run 2	-0.0002 ppm	-0.0006 ppm	0.0026 ppm	-0.0001 ppm	0.0106 ppm	1.0677 ppm	0.0015 ppm
Concentration per Run 3	-0.0001 ppm	0.0002 ppm	0.0030 ppm	-0.0007 ppm	0.0110 ppm	1.0846 ppm	0.0004 ppm
Concentration RSD	36.0 %	585.0 %	16.3 %	79.6 %	2.1 %	0.8 %	52.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	7.2860 ppm	0.0006 ppm	-0.0005 ppm	12.4766 ppm	0.0018 ppm	0.0017 ppm	-0.0039 ppm
Concentration per Run 1	7.2699 ppm	0.0006 ppm	-0.0010 ppm	12.4160 ppm	0.0019 ppm	0.0027 ppm	-0.0033 ppm
Concentration per Run 2	7.3120 ppm	0.0006 ppm	-0.0004 ppm	12.5650 ppm	0.0020 ppm	0.0005 ppm	-0.0047 ppm
Concentration per Run 3	7.2759 ppm	0.0006 ppm	-0.0001 ppm	12.4487 ppm	0.0016 ppm	0.0019 ppm	-0.0037 ppm
Concentration RSD	0.3 %	7.9 %	91.2 %	0.6 %	11.4 %	63.3 %	19.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0009 ppm	5.3040 ppm	-0.0014 ppm	0.0839 ppm	0.0006 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 1	-0.0025 ppm	5.2957 ppm	-0.0003 ppm	0.0837 ppm	0.0008 ppm	0.0017 ppm	0.0000 ppm
Concentration per Run 2	-0.0009 ppm	5.3088 ppm	-0.0018 ppm	0.0840 ppm	0.0007 ppm	-0.0023 ppm	0.0002 ppm
Concentration per Run 3	0.0007 ppm	5.3077 ppm	-0.0020 ppm	0.0841 ppm	0.0005 ppm	-0.0011 ppm	-0.0004 ppm
Concentration RSD	173.8 %	0.1 %	69.4 %	0.3 %	26.2 %	368.6 %	594.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0128 ppm	108.4455 %	107.2064 %	108.3579 %	107.0541 %	105.3682 %	106.6150 %
Concentration per Run 1	0.0129 ppm	108.4433 %	107.0777 %	108.2715 %	107.2755 %	105.4865 %	106.3563 %
Concentration per Run 2	0.0126 ppm	108.1055 %	107.3497 %	107.8773 %	107.1691 %	105.5694 %	106.4953 %
Concentration per Run 3	0.0128 ppm	108.7876 %	107.1919 %	108.9249 %	106.7179 %	105.0488 %	106.9935 %
Concentration RSD	1.3 %	0.3 %	0.1 %	0.5 %	0.3 %	0.3 %	0.3 %

ICP DataTrace 9

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LabBook: WG2039956_03132025T9.imexp

Sample: L2512625-01 WG2039414
Analysis started at: 3/13/2025 1:07:50 PM
Rack 1
Vial 20
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	-0.0074 ppm	-0.0017 ppm	0.3701 ppm	0.4192 ppm	0.0000 ppm	116.8349 ppm
Concentration per Run 1	-0.0003 ppm	-0.0050 ppm	-0.0004 ppm	0.3711 ppm	0.4169 ppm	0.0000 ppm	117.3516 ppm
Concentration per Run 2	0.0000 ppm	-0.0058 ppm	-0.0016 ppm	0.3708 ppm	0.4199 ppm	0.0000 ppm	117.1787 ppm
Concentration per Run 3	-0.0005 ppm	-0.0114 ppm	-0.0031 ppm	0.3685 ppm	0.4209 ppm	-0.0001 ppm	115.9743 ppm
Concentration RSD	102.8 %	46.4 %	78.4 %	0.4 %	0.5 %	333.5 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0006 ppm	0.0023 ppm	0.0009 ppm	0.0102 ppm	0.0213 ppm	31.5631 ppm	0.0183 ppm
Concentration per Run 1	-0.0006 ppm	0.0023 ppm	0.0006 ppm	0.0100 ppm	0.0224 ppm	31.3976 ppm	0.0198 ppm
Concentration per Run 2	-0.0006 ppm	0.0024 ppm	0.0011 ppm	0.0102 ppm	0.0197 ppm	31.7380 ppm	0.0168 ppm
Concentration per Run 3	-0.0006 ppm	0.0021 ppm	0.0010 ppm	0.0105 ppm	0.0216 ppm	31.5537 ppm	0.0182 ppm
Concentration RSD	4.6 %	5.2 %	31.7 %	2.2 %	6.5 %	0.5 %	8.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	67.6855 ppm	0.0590 ppm	-0.0002 ppm	150.1866 ppm	0.0204 ppm	0.0017 ppm	-0.0001 ppm
Concentration per Run 1	67.7038 ppm	0.0589 ppm	-0.0003 ppm	149.8803 ppm	0.0202 ppm	0.0004 ppm	0.0015 ppm
Concentration per Run 2	67.7233 ppm	0.0592 ppm	-0.0002 ppm	150.8536 ppm	0.0203 ppm	0.0025 ppm	-0.0033 ppm
Concentration per Run 3	67.6293 ppm	0.0588 ppm	-0.0002 ppm	149.8258 ppm	0.0208 ppm	0.0020 ppm	0.0016 ppm
Concentration RSD	0.1 %	0.4 %	41.2 %	0.4 %	1.6 %	66.0 %	4,403.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0009 ppm	4.3880 ppm	-0.0007 ppm	1.2843 ppm	0.0008 ppm	0.0025 ppm	-0.0001 ppm
Concentration per Run 1	0.0002 ppm	4.3915 ppm	-0.0013 ppm	1.2783 ppm	0.0007 ppm	0.0036 ppm	-0.0001 ppm
Concentration per Run 2	-0.0015 ppm	4.3919 ppm	-0.0006 ppm	1.2857 ppm	0.0006 ppm	0.0024 ppm	0.0004 ppm
Concentration per Run 3	-0.0014 ppm	4.3805 ppm	0.0000 ppm	1.2888 ppm	0.0010 ppm	0.0014 ppm	-0.0004 ppm
Concentration RSD	106.7 %	0.1 %	99.9 %	0.4 %	24.9 %	45.6 %	578.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0037 ppm	107.4617 %	104.7760 %	106.1484 %	105.9794 %	102.7979 %	103.1953 %
Concentration per Run 1	0.0037 ppm	107.1043 %	104.3509 %	106.5385 %	105.8597 %	102.4231 %	103.4232 %
Concentration per Run 2	0.0036 ppm	107.3092 %	104.4024 %	105.6280 %	105.6614 %	102.7157 %	103.0054 %
Concentration per Run 3	0.0037 ppm	107.9717 %	105.5747 %	106.2786 %	106.4171 %	103.2550 %	103.1573 %
Concentration RSD	1.7 %	0.4 %	0.7 %	0.4 %	0.4 %	0.4 %	0.2 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: L2512634-01 WG2039414
Analysis started at: 3/13/2025 1:11:17 PM
Rack 1
Vial 21
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	-0.0069 ppm	-0.0016 ppm	0.0803 ppm	0.3810 ppm	0.0000 ppm	65.2616 ppm
Concentration per Run 1	-0.0006 ppm	-0.0015 ppm	-0.0013 ppm	0.0814 ppm	0.3812 ppm	-0.0001 ppm	65.3837 ppm
Concentration per Run 2	-0.0004 ppm	-0.0114 ppm	-0.0014 ppm	0.0809 ppm	0.3794 ppm	0.0000 ppm	65.0921 ppm
Concentration per Run 3	0.0001 ppm	-0.0077 ppm	-0.0021 ppm	0.0786 ppm	0.3826 ppm	0.0000 ppm	65.3089 ppm
Concentration RSD	126.3 %	72.9 %	28.7 %	1.9 %	0.4 %	185.0 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0004 ppm	0.0003 ppm	0.0084 ppm	0.0381 ppm	0.9354 ppm	1.1108 ppm	0.0036 ppm
Concentration per Run 1	-0.0005 ppm	-0.0001 ppm	0.0095 ppm	0.0382 ppm	0.9366 ppm	1.1311 ppm	0.0041 ppm
Concentration per Run 2	-0.0002 ppm	0.0004 ppm	0.0079 ppm	0.0383 ppm	0.9404 ppm	1.0992 ppm	0.0028 ppm
Concentration per Run 3	-0.0004 ppm	0.0004 ppm	0.0078 ppm	0.0379 ppm	0.9291 ppm	1.1020 ppm	0.0039 ppm
Concentration RSD	45.6 %	116.4 %	11.1 %	0.6 %	0.6 %	1.6 %	20.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.3494 ppm	0.0041 ppm	0.0005 ppm	58.9306 ppm	0.0093 ppm	0.0029 ppm	-0.0043 ppm
Concentration per Run 1	6.3812 ppm	0.0042 ppm	0.0000 ppm	58.9579 ppm	0.0094 ppm	0.0031 ppm	-0.0052 ppm
Concentration per Run 2	6.3227 ppm	0.0041 ppm	0.0004 ppm	58.6683 ppm	0.0090 ppm	0.0007 ppm	-0.0033 ppm
Concentration per Run 3	6.3444 ppm	0.0040 ppm	0.0010 ppm	59.1656 ppm	0.0096 ppm	0.0048 ppm	-0.0043 ppm
Concentration RSD	0.5 %	1.7 %	99.5 %	0.4 %	2.8 %	73.1 %	23.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	7.7488 ppm	0.0116 ppm	0.1313 ppm	0.0002 ppm	0.0014 ppm	0.0013 ppm
Concentration per Run 1	0.0019 ppm	7.7638 ppm	0.0107 ppm	0.1315 ppm	0.0003 ppm	0.0021 ppm	0.0021 ppm
Concentration per Run 2	-0.0023 ppm	7.7136 ppm	0.0119 ppm	0.1310 ppm	0.0003 ppm	0.0017 ppm	0.0012 ppm
Concentration per Run 3	0.0004 ppm	7.7690 ppm	0.0123 ppm	0.1315 ppm	0.0000 ppm	0.0005 ppm	0.0006 ppm
Concentration RSD	12,104.8 %	0.4 %	7.1 %	0.2 %	89.0 %	57.4 %	55.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0049 ppm	106.7051 %	105.0286 %	107.0548 %	105.0252 %	102.7047 %	104.4314 %
Concentration per Run 1	0.0050 ppm	107.0599 %	104.6722 %	107.1299 %	105.2856 %	102.6381 %	104.3097 %
Concentration per Run 2	0.0047 ppm	106.8046 %	105.1051 %	108.0487 %	105.3713 %	102.3185 %	105.3467 %
Concentration per Run 3	0.0050 ppm	106.2510 %	105.3085 %	105.9857 %	104.4187 %	103.1575 %	103.6377 %
Concentration RSD	3.7 %	0.4 %	0.3 %	1.0 %	0.5 %	0.4 %	0.8 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: L2512637-01 WG2039414
Analysis started at: 3/13/2025 1:14:46 PM
Rack 1
Vial 22
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0002 ppm	-0.0009 ppm	2.6502 ppm	0.0561 ppm	0.0000 ppm	6.7910 ppm
Concentration per Run 1	0.0000 ppm	-0.0004 ppm	-0.0024 ppm	2.6517 ppm	0.0560 ppm	0.0000 ppm	6.7830 ppm
Concentration per Run 2	0.0003 ppm	0.0021 ppm	-0.0008 ppm	2.6518 ppm	0.0564 ppm	0.0000 ppm	6.8073 ppm
Concentration per Run 3	0.0001 ppm	-0.0012 ppm	0.0005 ppm	2.6471 ppm	0.0560 ppm	0.0000 ppm	6.7826 ppm
Concentration RSD	84.7 %	834.3 %	165.3 %	0.1 %	0.4 %	204.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0002 ppm	0.0738 ppm	0.1378 ppm	0.0107 ppm	15.1445 ppm	0.0039 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0732 ppm	0.1387 ppm	0.0113 ppm	15.1657 ppm	0.0041 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0740 ppm	0.1379 ppm	0.0087 ppm	15.1833 ppm	0.0040 ppm
Concentration per Run 3	-0.0002 ppm	0.0006 ppm	0.0742 ppm	0.1369 ppm	0.0123 ppm	15.0845 ppm	0.0036 ppm
Concentration RSD	238.6 %	171.1 %	0.7 %	0.7 %	17.4 %	0.3 %	7.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.9679 ppm	0.0029 ppm	0.0003 ppm	365.8723 ppm	0.9616 ppm	0.0020 ppm	0.0313 ppm
Concentration per Run 1	0.9709 ppm	0.0030 ppm	-0.0003 ppm	366.6437 ppm	0.9601 ppm	0.0003 ppm	0.0317 ppm
Concentration per Run 2	0.9695 ppm	0.0029 ppm	0.0001 ppm	363.6181 ppm	0.9660 ppm	0.0030 ppm	0.0286 ppm
Concentration per Run 3	0.9632 ppm	0.0028 ppm	0.0009 ppm	367.3550 ppm	0.9587 ppm	0.0028 ppm	0.0337 ppm
Concentration RSD	0.4 %	4.7 %	248.0 %	0.5 %	0.4 %	72.8 %	8.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0001 ppm	2.6981 ppm	-0.0008 ppm	0.0846 ppm	0.0000 ppm	0.0041 ppm	0.0002 ppm
Concentration per Run 1	-0.0015 ppm	2.7070 ppm	-0.0004 ppm	0.0844 ppm	-0.0002 ppm	0.0039 ppm	0.0003 ppm
Concentration per Run 2	0.0000 ppm	2.7061 ppm	-0.0014 ppm	0.0849 ppm	-0.0001 ppm	0.0055 ppm	-0.0002 ppm
Concentration per Run 3	0.0012 ppm	2.6813 ppm	-0.0006 ppm	0.0844 ppm	0.0003 ppm	0.0029 ppm	0.0005 ppm
Concentration RSD	1,430.0 %	0.5 %	67.4 %	0.4 %	1,926.6 %	32.7 %	169.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0152 ppm	109.0404 %	105.4975 %	109.2798 %	107.3755 %	103.5359 %	105.6468 %
Concentration per Run 1	0.0154 ppm	109.3339 %	105.2980 %	109.3930 %	107.7981 %	102.9291 %	106.1276 %
Concentration per Run 2	0.0151 ppm	109.0984 %	105.8594 %	109.2474 %	107.1735 %	103.9362 %	105.5208 %
Concentration per Run 3	0.0153 ppm	108.6890 %	105.3351 %	109.1991 %	107.1550 %	103.7425 %	105.2921 %
Concentration RSD	0.8 %	0.3 %	0.3 %	0.1 %	0.3 %	0.5 %	0.4 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: xL2512598-01D2 WG2039414
Analysis started at: 3/13/2025 1:18:14 PM
Rack 1
Vial 19
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.0153 ppm	0.0002 ppm	0.0036 ppm	0.0002 ppm	0.0000 ppm	0.0980 ppm
Concentration per Run 1	-0.0001 ppm	0.0150 ppm	0.0009 ppm	0.0045 ppm	0.0003 ppm	0.0000 ppm	0.0974 ppm
Concentration per Run 2	0.0006 ppm	0.0127 ppm	-0.0008 ppm	0.0028 ppm	0.0001 ppm	0.0000 ppm	0.0952 ppm
Concentration per Run 3	0.0002 ppm	0.0182 ppm	0.0005 ppm	0.0034 ppm	0.0003 ppm	0.0000 ppm	0.1013 ppm
Concentration RSD	133.0 %	18.2 %	436.7 %	24.1 %	45.9 %	707.3 %	3.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0053 ppm	0.0003 ppm	0.0099 ppm	0.0142 ppm	0.6965 ppm	0.0000 ppm
Concentration per Run 1	-0.0002 ppm	0.0051 ppm	-0.0001 ppm	0.0100 ppm	0.0151 ppm	0.6971 ppm	0.0001 ppm
Concentration per Run 2	0.0001 ppm	0.0047 ppm	0.0006 ppm	0.0096 ppm	0.0148 ppm	0.6988 ppm	0.0003 ppm
Concentration per Run 3	-0.0001 ppm	0.0063 ppm	0.0004 ppm	0.0101 ppm	0.0128 ppm	0.6938 ppm	-0.0005 ppm
Concentration RSD	254.2 %	15.3 %	126.1 %	2.5 %	8.8 %	0.4 %	2,260.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0170 ppm	0.0003 ppm	0.0032 ppm	0.1000 ppm	0.0042 ppm	0.0016 ppm	0.0025 ppm
Concentration per Run 1	0.0153 ppm	0.0003 ppm	0.0034 ppm	0.1032 ppm	0.0047 ppm	0.0022 ppm	0.0025 ppm
Concentration per Run 2	0.0182 ppm	0.0005 ppm	0.0034 ppm	0.1011 ppm	0.0040 ppm	0.0022 ppm	0.0024 ppm
Concentration per Run 3	0.0175 ppm	0.0003 ppm	0.0028 ppm	0.0956 ppm	0.0039 ppm	0.0004 ppm	0.0027 ppm
Concentration RSD	8.9 %	38.7 %	10.2 %	3.9 %	10.3 %	66.5 %	6.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0012 ppm	1.5344 ppm	0.0018 ppm	0.0001 ppm	0.0174 ppm	0.0003 ppm	0.0003 ppm
Concentration per Run 1	0.0008 ppm	1.9211 ppm	0.0025 ppm	0.0001 ppm	0.0190 ppm	0.0015 ppm	-0.0001 ppm
Concentration per Run 2	0.0021 ppm	1.5710 ppm	0.0027 ppm	0.0001 ppm	0.0178 ppm	0.0001 ppm	0.0004 ppm
Concentration per Run 3	0.0006 ppm	1.1111 ppm	0.0003 ppm	0.0001 ppm	0.0154 ppm	-0.0006 ppm	0.0005 ppm
Concentration RSD	66.6 %	26.5 %	73.1 %	27.6 %	10.4 %	319.6 %	113.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0084 ppm	104.5651 %	104.1325 %	104.3532 %	103.2686 %	103.2127 %	103.1506 %
Concentration per Run 1	0.0083 ppm	104.8590 %	103.7925 %	102.5937 %	103.3612 %	102.8276 %	101.6615 %
Concentration per Run 2	0.0084 ppm	103.8821 %	104.3814 %	105.5317 %	101.9820 %	103.4606 %	103.9125 %
Concentration per Run 3	0.0084 ppm	104.9543 %	104.2236 %	104.9341 %	104.4627 %	103.3498 %	103.8776 %
Concentration RSD	1.1 %	0.6 %	0.3 %	1.5 %	1.2 %	0.3 %	1.3 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: L2512638-01 WG2039414
Analysis started at: 3/13/2025 1:21:41 PM
Rack 1
Vial 23
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.1497 ppm	-0.0002 ppm	0.1801 ppm	0.0227 ppm	0.0000 ppm	43.7428 ppm
Concentration per Run 1	-0.0004 ppm	0.1509 ppm	0.0009 ppm	0.1788 ppm	0.0228 ppm	0.0000 ppm	43.4352 ppm
Concentration per Run 2	0.0002 ppm	0.1494 ppm	-0.0016 ppm	0.1802 ppm	0.0228 ppm	0.0000 ppm	44.0136 ppm
Concentration per Run 3	0.0003 ppm	0.1489 ppm	0.0000 ppm	0.1813 ppm	0.0227 ppm	0.0000 ppm	43.7795 ppm
Concentration RSD	806.9 %	0.7 %	581.0 %	0.7 %	0.2 %	179.0 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0003 ppm	-0.0001 ppm	0.0003 ppm	0.0013 ppm	0.0118 ppm	33.3330 ppm	0.0006 ppm
Concentration per Run 1	-0.0002 ppm	0.0002 ppm	-0.0002 ppm	0.0016 ppm	0.0112 ppm	33.2374 ppm	0.0002 ppm
Concentration per Run 2	-0.0002 ppm	0.0000 ppm	0.0004 ppm	0.0007 ppm	0.0138 ppm	33.1946 ppm	0.0005 ppm
Concentration per Run 3	-0.0003 ppm	-0.0005 ppm	0.0007 ppm	0.0015 ppm	0.0105 ppm	33.5672 ppm	0.0012 ppm
Concentration RSD	11.0 %	358.0 %	134.1 %	37.3 %	14.9 %	0.6 %	86.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.2026 ppm	0.0299 ppm	0.0036 ppm	66.0803 ppm	0.0015 ppm	0.0016 ppm	-0.0009 ppm
Concentration per Run 1	3.2065 ppm	0.0300 ppm	0.0033 ppm	65.6905 ppm	0.0025 ppm	0.0030 ppm	-0.0017 ppm
Concentration per Run 2	3.2079 ppm	0.0300 ppm	0.0038 ppm	65.9177 ppm	0.0012 ppm	0.0002 ppm	-0.0020 ppm
Concentration per Run 3	3.1934 ppm	0.0299 ppm	0.0037 ppm	66.6328 ppm	0.0009 ppm	0.0017 ppm	0.0010 ppm
Concentration RSD	0.2 %	0.2 %	7.8 %	0.7 %	56.4 %	86.4 %	177.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0002 ppm	2.7404 ppm	0.0004 ppm	0.2329 ppm	0.0007 ppm	-0.0019 ppm	0.0009 ppm
Concentration per Run 1	-0.0017 ppm	2.7449 ppm	0.0000 ppm	0.2330 ppm	0.0009 ppm	0.0000 ppm	0.0009 ppm
Concentration per Run 2	0.0003 ppm	2.7441 ppm	0.0003 ppm	0.2326 ppm	0.0004 ppm	-0.0030 ppm	0.0007 ppm
Concentration per Run 3	0.0008 ppm	2.7323 ppm	0.0008 ppm	0.2332 ppm	0.0007 ppm	-0.0026 ppm	0.0011 ppm
Concentration RSD	642.7 %	0.3 %	110.8 %	0.1 %	38.7 %	86.1 %	17.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1042 ppm	107.2364 %	103.8028 %	107.0703 %	105.0751 %	101.7940 %	103.6477 %
Concentration per Run 1	0.1037 ppm	107.9180 %	104.2530 %	105.8850 %	105.4409 %	102.2824 %	103.2099 %
Concentration per Run 2	0.1049 ppm	106.7048 %	103.6730 %	108.3434 %	104.9421 %	101.6382 %	104.9187 %
Concentration per Run 3	0.1041 ppm	107.0865 %	103.4823 %	106.9824 %	104.8423 %	101.4613 %	102.8144 %
Concentration RSD	0.6 %	0.6 %	0.4 %	1.2 %	0.3 %	0.4 %	1.1 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: L2512647-01 WG2039414
Analysis started at: 3/13/2025 1:25:10 PM
Rack 1
Vial 25
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.4148 ppm	0.0044 ppm	0.0797 ppm	0.0090 ppm	0.0000 ppm	38.7951 ppm
Concentration per Run 1	0.0003 ppm	0.4185 ppm	0.0049 ppm	0.0808 ppm	0.0090 ppm	0.0001 ppm	38.9371 ppm
Concentration per Run 2	0.0000 ppm	0.4194 ppm	0.0041 ppm	0.0796 ppm	0.0090 ppm	0.0000 ppm	38.6607 ppm
Concentration per Run 3	0.0006 ppm	0.4066 ppm	0.0042 ppm	0.0787 ppm	0.0089 ppm	0.0000 ppm	38.7876 ppm
Concentration RSD	91.0 %	1.7 %	10.7 %	1.3 %	0.0 %	34.1 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0011 ppm	0.0052 ppm	0.0217 ppm	5.4936 ppm	84.7475 ppm	0.0042 ppm
Concentration per Run 1	-0.0002 ppm	0.0012 ppm	0.0053 ppm	0.0220 ppm	5.4766 ppm	84.4326 ppm	0.0042 ppm
Concentration per Run 2	-0.0001 ppm	0.0007 ppm	0.0051 ppm	0.0219 ppm	5.4753 ppm	85.2029 ppm	0.0040 ppm
Concentration per Run 3	-0.0002 ppm	0.0014 ppm	0.0053 ppm	0.0213 ppm	5.5289 ppm	84.6069 ppm	0.0045 ppm
Concentration RSD	21.9 %	32.7 %	2.1 %	1.7 %	0.6 %	0.5 %	5.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	14.1673 ppm	0.1063 ppm	0.0051 ppm	568.4906 [SIC 500]	0.0295 ppm	0.0171 ppm	0.0003 ppm
Concentration per Run 1	14.2224 ppm	0.1063 ppm	0.0050 ppm	568.2949 ppm	0.0287 ppm	0.0167 ppm	0.0022 ppm
Concentration per Run 2	14.1591 ppm	0.1062 ppm	0.0054 ppm	570.7890 ppm	0.0316 ppm	0.0174 ppm	-0.0039 ppm
Concentration per Run 3	14.1204 ppm	0.1062 ppm	0.0049 ppm	566.3880 ppm	0.0284 ppm	0.0173 ppm	0.0027 ppm
Concentration RSD	0.4 %	0.1 %	5.5 %	0.4 %	5.9 %	2.4 %	1,095.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0026 ppm	3.1664 ppm	0.0021 ppm	0.1526 ppm	0.0134 ppm	0.0009 ppm	0.0014 ppm
Concentration per Run 1	0.0014 ppm	3.1826 ppm	0.0015 ppm	0.1524 ppm	0.0142 ppm	0.0024 ppm	0.0015 ppm
Concentration per Run 2	0.0037 ppm	3.1697 ppm	0.0018 ppm	0.1530 ppm	0.0128 ppm	-0.0022 ppm	0.0017 ppm
Concentration per Run 3	0.0025 ppm	3.1467 ppm	0.0029 ppm	0.1525 ppm	0.0132 ppm	0.0026 ppm	0.0009 ppm
Concentration RSD	44.7 %	0.6 %	34.8 %	0.2 %	5.5 %	289.4 %	29.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1362 ppm	107.4091 %	103.8546 %	104.8023 %	106.2629 %	102.7252 %	102.9423 %
Concentration per Run 1	0.1365 ppm	107.5531 %	103.9160 %	104.4410 %	107.1443 %	103.1110 %	102.8873 %
Concentration per Run 2	0.1366 ppm	107.5517 %	104.0048 %	105.5008 %	106.1540 %	103.0566 %	103.3200 %
Concentration per Run 3	0.1356 ppm	107.1226 %	103.6430 %	104.4649 %	105.4904 %	102.0079 %	102.6196 %
Concentration RSD	0.4 %	0.2 %	0.2 %	0.6 %	0.8 %	0.6 %	0.3 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: L2512681-01 WG2039414
Analysis started at: 3/13/2025 1:28:36 PM
Rack 1
Vial 28
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0138 ppm	0.0082 ppm	0.3909 ppm	0.1002 ppm	0.0000 ppm	11.8984 ppm
Concentration per Run 1	-0.0003 ppm	0.0152 ppm	0.0073 ppm	0.3928 ppm	0.1005 ppm	0.0000 ppm	11.8650 ppm
Concentration per Run 2	-0.0002 ppm	0.0067 ppm	0.0082 ppm	0.3922 ppm	0.1000 ppm	0.0000 ppm	11.9346 ppm
Concentration per Run 3	-0.0001 ppm	0.0193 ppm	0.0092 ppm	0.3878 ppm	0.1002 ppm	0.0000 ppm	11.8958 ppm
Concentration RSD	43.9 %	46.7 %	11.5 %	0.7 %	0.3 %	229.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0018 ppm	0.0161 ppm	0.0813 ppm	14.5671 ppm	43.5430 ppm	0.0018 ppm
Concentration per Run 1	0.0001 ppm	0.0010 ppm	0.0160 ppm	0.0822 ppm	14.5753 ppm	43.5688 ppm	0.0007 ppm
Concentration per Run 2	0.0000 ppm	0.0022 ppm	0.0165 ppm	0.0807 ppm	14.5804 ppm	43.5433 ppm	0.0025 ppm
Concentration per Run 3	0.0000 ppm	0.0020 ppm	0.0159 ppm	0.0810 ppm	14.5455 ppm	43.5168 ppm	0.0021 ppm
Concentration RSD	46.9 %	36.3 %	2.1 %	1.0 %	0.1 %	0.1 %	52.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.8305 ppm	0.1670 ppm	0.0809 ppm	750.5786 [SIC 500]	0.0186 ppm	0.0016 ppm	0.0013 ppm
Concentration per Run 1	2.8360 ppm	0.1675 ppm	0.0820 ppm	753.5370 ppm	0.0188 ppm	0.0011 ppm	0.0008 ppm
Concentration per Run 2	2.8312 ppm	0.1665 ppm	0.0807 ppm	748.8342 ppm	0.0184 ppm	0.0019 ppm	0.0028 ppm
Concentration per Run 3	2.8244 ppm	0.1671 ppm	0.0800 ppm	749.3648 ppm	0.0186 ppm	0.0019 ppm	0.0004 ppm
Concentration RSD	0.2 %	0.3 %	1.2 %	0.3 %	1.0 %	29.8 %	96.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0012 ppm	7.6032 ppm	0.0006 ppm	0.0420 ppm	0.2115 ppm	0.0033 ppm	0.0000 ppm
Concentration per Run 1	0.0007 ppm	7.6233 ppm	-0.0001 ppm	0.0421 ppm	0.2115 ppm	0.0045 ppm	0.0000 ppm
Concentration per Run 2	0.0001 ppm	7.5943 ppm	0.0017 ppm	0.0420 ppm	0.2120 ppm	0.0026 ppm	0.0002 ppm
Concentration per Run 3	0.0028 ppm	7.5920 ppm	0.0002 ppm	0.0420 ppm	0.2111 ppm	0.0029 ppm	-0.0002 ppm
Concentration RSD	114.5 %	0.2 %	159.8 %	0.2 %	0.2 %	30.7 %	4,771.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5014 ppm	107.6226 %	102.7756 %	104.1717 %	106.5291 %	101.7846 %	103.0136 %
Concentration per Run 1	0.5038 ppm	106.6746 %	102.2959 %	104.1147 %	105.7443 %	101.4880 %	102.6687 %
Concentration per Run 2	0.5013 ppm	108.3288 %	103.0763 %	104.1591 %	107.5880 %	102.0722 %	103.2266 %
Concentration per Run 3	0.4991 ppm	107.8645 %	102.9546 %	104.2414 %	106.2550 %	101.7936 %	103.1456 %
Concentration RSD	0.5 %	0.8 %	0.4 %	0.1 %	0.9 %	0.3 %	0.3 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: CCV
Analysis started at: 3/13/2025 1:32:02 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4602 ppm	0.4617 ppm	0.4740 ppm	0.4667 ppm	0.4750 ppm	0.4926 ppm	0.4926 ppm
Concentration per Run 1	0.4585 ppm	0.4550 ppm	0.4784 ppm	0.4644 ppm	0.4744 ppm	0.4931 ppm	0.4908 ppm
Concentration per Run 2	0.4599 ppm	0.4585 ppm	0.4736 ppm	0.4662 ppm	0.4753 ppm	0.4915 ppm	0.4933 ppm
Concentration per Run 3	0.4621 ppm	0.4716 ppm	0.4701 ppm	0.4696 ppm	0.4754 ppm	0.4933 ppm	0.4938 ppm
Recovery Percentage 1	92.031 %	92.341 %	94.803 %	93.344 %	95.009 %	98.528 %	98.529 %
Concentration RSD	0.4 %	1.9 %	0.9 %	0.6 %	0.1 %	0.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4804 ppm	0.4938 ppm	0.4808 ppm	0.4666 ppm	0.5046 ppm	4.9649 ppm	0.4823 ppm
Concentration per Run 1	0.4778 ppm	0.4914 ppm	0.4789 ppm	0.4648 ppm	0.5031 ppm	4.9628 ppm	0.4834 ppm
Concentration per Run 2	0.4810 ppm	0.4929 ppm	0.4786 ppm	0.4671 ppm	0.5078 ppm	4.9522 ppm	0.4811 ppm
Concentration per Run 3	0.4825 ppm	0.4971 ppm	0.4849 ppm	0.4679 ppm	0.5030 ppm	4.9796 ppm	0.4824 ppm
Recovery Percentage 1	96.080 %	98.755 %	96.157 %	93.322 %	100.920 %	99.298 %	96.462 %
Concentration RSD	0.5 %	0.6 %	0.7 %	0.3 %	0.5 %	0.3 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4736 ppm	0.4847 ppm	0.4774 ppm	9.6625 ppm	0.4862 ppm	0.4940 ppm	0.4830 ppm
Concentration per Run 1	0.4727 ppm	0.4852 ppm	0.4740 ppm	9.6874 ppm	0.4851 ppm	0.4938 ppm	0.4816 ppm
Concentration per Run 2	0.4733 ppm	0.4833 ppm	0.4764 ppm	9.5743 ppm	0.4840 ppm	0.4948 ppm	0.4807 ppm
Concentration per Run 3	0.4748 ppm	0.4856 ppm	0.4820 ppm	9.7259 ppm	0.4894 ppm	0.4933 ppm	0.4868 ppm
Recovery Percentage 1	94.723 %	96.938 %	95.486 %	96.625 %	97.234 %	98.797 %	96.602 %
Concentration RSD	0.2 %	0.2 %	0.9 %	0.8 %	0.6 %	0.1 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4763 ppm	5.2053 ppm	0.4960 ppm	0.4922 ppm	0.4842 ppm	0.4797 ppm	0.4787 ppm
Concentration per Run 1	0.4786 ppm	5.1916 ppm	0.4934 ppm	0.4915 ppm	0.4830 ppm	0.4811 ppm	0.4784 ppm
Concentration per Run 2	0.4737 ppm	5.2041 ppm	0.4983 ppm	0.4924 ppm	0.4828 ppm	0.4799 ppm	0.4792 ppm
Concentration per Run 3	0.4766 ppm	5.2201 ppm	0.4964 ppm	0.4928 ppm	0.4867 ppm	0.4782 ppm	0.4785 ppm
Recovery Percentage 1	95.254 %	99.148 %	99.201 %	98.446 %	96.836 %	95.946 %	95.736 %
Concentration RSD	0.5 %	0.3 %	0.5 %	0.1 %	0.4 %	0.3 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4823 ppm	107.8436 %	106.3203 %	107.2992 %	105.9676 %	104.8017 %	105.0781 %
Concentration per Run 1	0.4792 ppm	108.4934 %	106.8079 %	106.3944 %	106.4071 %	105.3431 %	104.1178 %
Concentration per Run 2	0.4835 ppm	107.5499 %	106.2356 %	107.9092 %	105.6819 %	104.3979 %	106.1219 %
Concentration per Run 3	0.4842 ppm	107.4876 %	105.9174 %	107.5940 %	105.8137 %	104.6640 %	104.9947 %
Recovery Percentage 1	96.461 %						
Concentration RSD	0.6 %	0.5 %	0.4 %	0.7 %	0.4 %	0.5 %	1.0 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: CCB
Analysis started at: 3/13/2025 1:35:30 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	-0.0011 ppm	0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0036 ppm
Concentration per Run 1	0.0004 ppm	0.0014 ppm	-0.0004 ppm	0.0004 ppm	0.0002 ppm	0.0000 ppm	0.0051 ppm
Concentration per Run 2	0.0009 ppm	-0.0045 ppm	0.0008 ppm	-0.0005 ppm	0.0002 ppm	0.0000 ppm	0.0038 ppm
Concentration per Run 3	-0.0004 ppm	-0.0002 ppm	-0.0001 ppm	0.0011 ppm	0.0001 ppm	0.0000 ppm	0.0019 ppm
Recovery Percentage 1	3.938 %	-1.066 %	2.396 %	1.100 %	1.384 %	0.431 %	3.608 %
Concentration RSD	240.1 %	285.8 %	532.2 %	246.7 %	19.5 %	188.9 %	44.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0002 ppm	-0.0003 ppm	-0.0004 ppm	0.0001 ppm	0.0275 ppm	0.0009 ppm
Concentration per Run 1	0.0000 ppm	-0.0004 ppm	-0.0003 ppm	-0.0004 ppm	0.0004 ppm	0.0337 ppm	0.0009 ppm
Concentration per Run 2	0.0002 ppm	0.0008 ppm	0.0001 ppm	-0.0004 ppm	0.0003 ppm	0.0325 ppm	0.0008 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	-0.0007 ppm	-0.0004 ppm	-0.0005 ppm	0.0164 ppm	0.0010 ppm
Recovery Percentage 1	1.428 %	1.121 %	-3.190 %	-3.889 %	0.154 %	1.101 %	17.957 %
Concentration RSD	140.1 %	271.1 %	128.4 %	4.9 %	625.0 %	35.1 %	10.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0006 ppm	-0.0002 ppm	0.0018 ppm	0.0428 ppm	0.0011 ppm	0.0021 ppm	0.0027 ppm
Concentration per Run 1	-0.0033 ppm	-0.0002 ppm	0.0019 ppm	0.0450 ppm	0.0010 ppm	0.0027 ppm	0.0008 ppm
Concentration per Run 2	0.0005 ppm	-0.0001 ppm	0.0025 ppm	0.0422 ppm	0.0005 ppm	0.0021 ppm	0.0045 ppm
Concentration per Run 3	0.0009 ppm	-0.0002 ppm	0.0012 ppm	0.0412 ppm	0.0020 ppm	0.0015 ppm	0.0030 ppm
Recovery Percentage 1	-0.624 %	-1.695 %	3.653 %	2.140 %	4.561 %	21.228 %	5.494 %
Concentration RSD	372.3 %	24.7 %	35.5 %	4.5 %	65.8 %	28.6 %	66.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	-0.0121 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0001 ppm
Concentration per Run 1	-0.0003 ppm	-0.0121 ppm	-0.0002 ppm	0.0001 ppm	0.0002 ppm	0.0012 ppm	0.0001 ppm
Concentration per Run 2	-0.0008 ppm	-0.0111 ppm	0.0005 ppm	0.0001 ppm	-0.0003 ppm	0.0015 ppm	0.0002 ppm
Concentration per Run 3	0.0011 ppm	-0.0130 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0019 ppm	0.0000 ppm
Recovery Percentage 1	-0.034 %	-2.411 %	0.252 %	0.774 %	-0.386 %	1.244 %	1.434 %
Concentration RSD	29,581.5 %	7.8 %	287.7 %	17.1 %	713.4 %	752.4 %	68.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0001 ppm	106.0778 %	106.1919 %	105.7106 %	106.2870 %	106.6669 %	106.2582 %
Concentration per Run 1	-0.0001 ppm	106.4906 %	106.5303 %	106.3210 %	106.5592 %	106.8487 %	106.5665 %
Concentration per Run 2	0.0001 ppm	106.4537 %	105.5207 %	105.5953 %	106.3766 %	105.9733 %	106.3851 %
Concentration per Run 3	0.0003 ppm	105.2889 %	106.5246 %	105.2154 %	105.9251 %	107.1787 %	105.8228 %
Recovery Percentage 1	2.446 %						
Concentration RSD	146.9 %	0.6 %	0.5 %	0.5 %	0.3 %	0.6 %	0.4 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: WG2039613-1 WG2039613
Analysis started at: 3/13/2025 2:03:00 PM
Rack 1
Vial 48
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0003 ppm	-0.0004 ppm	-0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0118 ppm
Concentration per Run 1	0.0001 ppm	-0.0071 ppm	-0.0002 ppm	-0.0013 ppm	0.0000 ppm	0.0000 ppm	0.0127 ppm
Concentration per Run 2	0.0003 ppm	0.0016 ppm	-0.0008 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0105 ppm
Concentration per Run 3	0.0004 ppm	0.0046 ppm	-0.0001 ppm	-0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0122 ppm
Recovery Percentage 1	3.367 %	-0.270 %	-7.367 %	-1.973 %	0.307 %	-0.282 %	11.793 %
Concentration RSD	70.7 %	2,252.5 %	91.2 %	119.3 %	244.8 %	141.1 %	10.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0003 ppm	-0.0003 ppm	0.0002 ppm	0.0050 ppm	0.0086 ppm	-0.0007 ppm
Concentration per Run 1	-0.0001 ppm	0.0003 ppm	-0.0007 ppm	0.0001 ppm	0.0060 ppm	-0.0078 ppm	-0.0003 ppm
Concentration per Run 2	0.0001 ppm	-0.0011 ppm	0.0001 ppm	-0.0004 ppm	0.0054 ppm	0.0207 ppm	-0.0010 ppm
Concentration per Run 3	-0.0002 ppm	-0.0001 ppm	-0.0003 ppm	0.0010 ppm	0.0035 ppm	0.0131 ppm	-0.0007 ppm
Recovery Percentage 1	-1.643 %	-1.589 %	-2.954 %	2.494 %	9.904 %	0.346 %	-13.430 %
Concentration RSD	151.5 %	224.6 %	130.6 %	282.2 %	25.9 %	170.9 %	47.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0030 ppm	0.0000 ppm	0.0001 ppm	0.0158 ppm	0.0003 ppm	0.0026 ppm	0.0013 ppm
Concentration per Run 1	0.0018 ppm	-0.0001 ppm	0.0002 ppm	0.0140 ppm	-0.0002 ppm	0.0034 ppm	-0.0020 ppm
Concentration per Run 2	0.0020 ppm	0.0002 ppm	0.0001 ppm	0.0141 ppm	0.0006 ppm	0.0020 ppm	0.0039 ppm
Concentration per Run 3	0.0052 ppm	0.0000 ppm	-0.0001 ppm	0.0193 ppm	0.0006 ppm	0.0023 ppm	0.0021 ppm
Recovery Percentage 1	3.029 %	0.074 %	0.111 %	0.790 %	1.324 %	25.774 %	2.681 %
Concentration RSD	62.8 %	1,811.2 %	331.7 %	19.4 %	145.2 %	29.3 %	226.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0014 ppm	-0.0126 ppm	-0.0020 ppm	0.0001 ppm	0.0002 ppm	0.0008 ppm	-0.0002 ppm
Concentration per Run 1	0.0002 ppm	-0.0111 ppm	-0.0022 ppm	0.0000 ppm	0.0004 ppm	0.0013 ppm	-0.0001 ppm
Concentration per Run 2	-0.0048 ppm	-0.0116 ppm	-0.0024 ppm	0.0002 ppm	0.0005 ppm	0.0015 ppm	-0.0002 ppm
Concentration per Run 3	0.0003 ppm	-0.0151 ppm	-0.0016 ppm	0.0001 ppm	-0.0002 ppm	-0.0005 ppm	-0.0004 ppm
Recovery Percentage 1	-14.190 %	-2.523 %	-4.094 %	0.678 %	2.235 %	3.825 %	-2.350 %
Concentration RSD	208.8 %	17.4 %	19.6 %	155.1 %	148.8 %	138.7 %	60.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0003 ppm	106.5620 %	106.1751 %	106.9207 %	106.2506 %	105.8030 %	105.9427 %
Concentration per Run 1	0.0003 ppm	106.5846 %	106.0904 %	106.8162 %	106.6020 %	105.7713 %	105.7838 %
Concentration per Run 2	0.0002 ppm	107.0096 %	106.9160 %	107.0128 %	106.5803 %	106.4367 %	106.1469 %
Concentration per Run 3	0.0003 ppm	106.0918 %	105.5190 %	106.9330 %	105.5696 %	105.2011 %	105.8975 %
Recovery Percentage 1	5.893 %						
Concentration RSD	16.4 %	0.4 %	0.7 %	0.1 %	0.6 %	0.6 %	0.2 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: WG2039613-2 WG2039613
Analysis started at: 3/13/2025 2:06:45 PM
Rack 1
Vial 49
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0480 ppm	1.9070 ppm	0.1092 ppm	0.9310 ppm	1.9033 ppm	0.0487 ppm	9.9214 ppm
Concentration per Run 1	0.0481 ppm	1.8973 ppm	0.1086 ppm	0.9350 ppm	1.8982 ppm	0.0486 ppm	9.8948 ppm
Concentration per Run 2	0.0481 ppm	1.9116 ppm	0.1096 ppm	0.9237 ppm	1.9086 ppm	0.0488 ppm	9.9456 ppm
Concentration per Run 3	0.0480 ppm	1.9122 ppm	0.1096 ppm	0.9345 ppm	1.9032 ppm	0.0486 ppm	9.9239 ppm
Concentration RSD	0.1 %	0.4 %	0.5 %	0.7 %	0.3 %	0.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0505 ppm	0.4823 ppm	0.1916 ppm	0.2355 ppm	0.9956 ppm	10.0204 ppm	-0.0003 ppm
Concentration per Run 1	0.0506 ppm	0.4845 ppm	0.1923 ppm	0.2354 ppm	0.9959 ppm	10.0195 ppm	-0.0003 ppm
Concentration per Run 2	0.0500 ppm	0.4793 ppm	0.1917 ppm	0.2347 ppm	1.0000 ppm	10.0558 ppm	-0.0001 ppm
Concentration per Run 3	0.0509 ppm	0.4831 ppm	0.1907 ppm	0.2363 ppm	0.9909 ppm	9.9861 ppm	-0.0003 ppm
Concentration RSD	0.9 %	0.6 %	0.4 %	0.4 %	0.5 %	0.3 %	42.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.5687 ppm	0.4917 ppm	0.9443 ppm	9.9407 ppm	0.4846 ppm	0.5141 ppm	0.4301 ppm
Concentration per Run 1	9.5892 ppm	0.4917 ppm	0.9418 ppm	9.8775 ppm	0.4835 ppm	0.5155 ppm	0.4232 ppm
Concentration per Run 2	9.5659 ppm	0.4926 ppm	0.9386 ppm	10.0306 ppm	0.4837 ppm	0.5126 ppm	0.4320 ppm
Concentration per Run 3	9.5511 ppm	0.4910 ppm	0.9525 ppm	9.9140 ppm	0.4866 ppm	0.5142 ppm	0.4352 ppm
Concentration RSD	0.2 %	0.2 %	0.8 %	0.8 %	0.4 %	0.3 %	1.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1117 ppm	0.7808 ppm	0.9517 ppm	0.9639 ppm	0.9644 ppm	0.1086 ppm	0.4830 ppm
Concentration per Run 1	0.1110 ppm	0.7800 ppm	0.9483 ppm	0.9618 ppm	0.9653 ppm	0.1085 ppm	0.4838 ppm
Concentration per Run 2	0.1113 ppm	0.7801 ppm	0.9574 ppm	0.9668 ppm	0.9655 ppm	0.1075 ppm	0.4820 ppm
Concentration per Run 3	0.1129 ppm	0.7824 ppm	0.9494 ppm	0.9632 ppm	0.9625 ppm	0.1098 ppm	0.4832 ppm
Concentration RSD	0.9 %	0.2 %	0.5 %	0.3 %	0.2 %	1.1 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4864 ppm	106.2346 %	105.6919 %	105.5686 %	105.0636 %	104.4194 %	103.3750 %
Concentration per Run 1	0.4883 ppm	105.5115 %	105.8683 %	105.4617 %	104.3324 %	104.4924 %	103.8823 %
Concentration per Run 2	0.4853 ppm	106.3555 %	104.9902 %	105.9475 %	105.0079 %	104.1374 %	103.1190 %
Concentration per Run 3	0.4855 ppm	106.8369 %	106.2171 %	105.2966 %	105.8504 %	104.6284 %	103.1236 %
Concentration RSD	0.3 %	0.6 %	0.6 %	0.3 %	0.7 %	0.2 %	0.4 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: L2512644-01 WG2039414
Analysis started at: 3/13/2025 2:10:12 PM
Rack 1
Vial 24
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0108 ppm	-0.0001 ppm	0.0222 ppm	0.0040 ppm	0.0000 ppm	35.0591 ppm
Concentration per Run 1	-0.0002 ppm	0.0104 ppm	-0.0021 ppm	0.0218 ppm	0.0042 ppm	0.0000 ppm	35.1199 ppm
Concentration per Run 2	0.0001 ppm	0.0143 ppm	0.0020 ppm	0.0225 ppm	0.0039 ppm	0.0000 ppm	34.9281 ppm
Concentration per Run 3	-0.0006 ppm	0.0075 ppm	-0.0003 ppm	0.0222 ppm	0.0040 ppm	0.0000 ppm	35.1293 ppm
Concentration RSD	166.5 %	31.9 %	1,543.1 %	1.7 %	3.3 %	172.7 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0012 ppm	0.0010 ppm	0.0053 ppm	0.8034 ppm	64.5081 ppm	0.0016 ppm
Concentration per Run 1	-0.0001 ppm	0.0017 ppm	0.0010 ppm	0.0051 ppm	0.8049 ppm	64.4878 ppm	0.0022 ppm
Concentration per Run 2	-0.0001 ppm	0.0007 ppm	0.0008 ppm	0.0052 ppm	0.8001 ppm	64.5748 ppm	0.0010 ppm
Concentration per Run 3	-0.0002 ppm	0.0012 ppm	0.0010 ppm	0.0056 ppm	0.8052 ppm	64.4617 ppm	0.0017 ppm
Concentration RSD	16.8 %	39.3 %	13.7 %	5.1 %	0.4 %	0.1 %	37.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	7.1982 ppm	0.0987 ppm	0.0136 ppm	269.4746 ppm	0.0085 ppm	0.0011 ppm	0.0064 ppm
Concentration per Run 1	7.1978 ppm	0.0986 ppm	0.0137 ppm	268.2367 ppm	0.0087 ppm	0.0023 ppm	0.0075 ppm
Concentration per Run 2	7.2143 ppm	0.0986 ppm	0.0134 ppm	269.9074 ppm	0.0089 ppm	-0.0002 ppm	0.0042 ppm
Concentration per Run 3	7.1824 ppm	0.0988 ppm	0.0138 ppm	270.2797 ppm	0.0078 ppm	0.0012 ppm	0.0076 ppm
Concentration RSD	0.2 %	0.1 %	1.3 %	0.4 %	6.8 %	116.4 %	30.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	8.9710 ppm	0.0027 ppm	0.1817 ppm	0.0005 ppm	0.0007 ppm	0.0000 ppm
Concentration per Run 1	0.0002 ppm	8.9649 ppm	0.0035 ppm	0.1816 ppm	0.0003 ppm	-0.0007 ppm	-0.0001 ppm
Concentration per Run 2	-0.0001 ppm	8.9829 ppm	0.0028 ppm	0.1817 ppm	0.0006 ppm	-0.0007 ppm	0.0002 ppm
Concentration per Run 3	0.0000 ppm	8.9652 ppm	0.0017 ppm	0.1817 ppm	0.0007 ppm	0.0036 ppm	0.0000 ppm
Concentration RSD	384.3 %	0.1 %	34.4 %	0.0 %	44.7 %	326.6 %	378.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0026 ppm	107.3584 %	104.0542 %	106.9555 %	106.1819 %	102.7535 %	103.5180 %
Concentration per Run 1	0.0028 ppm	107.2636 %	104.3919 %	106.4225 %	106.2574 %	103.3972 %	103.5650 %
Concentration per Run 2	0.0022 ppm	107.1176 %	104.1716 %	107.0487 %	106.0186 %	102.7931 %	103.5065 %
Concentration per Run 3	0.0028 ppm	107.6939 %	103.5990 %	107.3953 %	106.2697 %	102.0701 %	103.4825 %
Concentration RSD	11.9 %	0.3 %	0.4 %	0.5 %	0.1 %	0.6 %	0.0 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: L2512657-01 WG2039414
Analysis started at: 3/13/2025 2:13:41 PM
Rack 1
Vial 26
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.2389 ppm	-0.0005 ppm	0.0616 ppm	0.0327 ppm	0.0000 ppm	25.2033 ppm
Concentration per Run 1	0.0005 ppm	0.2410 ppm	-0.0016 ppm	0.0617 ppm	0.0327 ppm	0.0000 ppm	25.2123 ppm
Concentration per Run 2	0.0003 ppm	0.2367 ppm	-0.0007 ppm	0.0624 ppm	0.0328 ppm	0.0000 ppm	25.2221 ppm
Concentration per Run 3	-0.0005 ppm	0.2389 ppm	0.0008 ppm	0.0608 ppm	0.0325 ppm	0.0000 ppm	25.1756 ppm
Concentration RSD	534.7 %	0.9 %	244.6 %	1.3 %	0.6 %	52,796.0 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0006 ppm	0.0003 ppm	0.0021 ppm	0.0418 ppm	10.5514 ppm	0.0020 ppm
Concentration per Run 1	0.0000 ppm	0.0012 ppm	0.0004 ppm	0.0025 ppm	0.0436 ppm	10.5479 ppm	0.0032 ppm
Concentration per Run 2	-0.0001 ppm	0.0002 ppm	0.0009 ppm	0.0018 ppm	0.0420 ppm	10.5557 ppm	0.0011 ppm
Concentration per Run 3	0.0001 ppm	0.0005 ppm	-0.0004 ppm	0.0021 ppm	0.0400 ppm	10.5506 ppm	0.0015 ppm
Concentration RSD	1,815.2 %	81.0 %	208.0 %	16.3 %	4.2 %	0.0 %	57.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.8705 ppm	0.0296 ppm	0.0011 ppm	88.7949 ppm	0.0024 ppm	0.0034 ppm	-0.0024 ppm
Concentration per Run 1	5.8668 ppm	0.0294 ppm	0.0011 ppm	89.0504 ppm	0.0023 ppm	0.0026 ppm	-0.0051 ppm
Concentration per Run 2	5.8676 ppm	0.0298 ppm	0.0008 ppm	88.7159 ppm	0.0039 ppm	0.0028 ppm	-0.0025 ppm
Concentration per Run 3	5.8771 ppm	0.0295 ppm	0.0014 ppm	88.6185 ppm	0.0010 ppm	0.0048 ppm	0.0003 ppm
Concentration RSD	0.1 %	0.7 %	28.6 %	0.3 %	59.6 %	35.4 %	110.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0001 ppm	5.4653 ppm	0.0008 ppm	0.1361 ppm	0.0003 ppm	0.0017 ppm	-0.0001 ppm
Concentration per Run 1	-0.0014 ppm	5.4772 ppm	0.0010 ppm	0.1361 ppm	0.0002 ppm	0.0024 ppm	0.0002 ppm
Concentration per Run 2	0.0028 ppm	5.4551 ppm	0.0009 ppm	0.1365 ppm	0.0006 ppm	0.0025 ppm	-0.0002 ppm
Concentration per Run 3	-0.0017 ppm	5.4636 ppm	0.0005 ppm	0.1357 ppm	0.0000 ppm	0.0001 ppm	-0.0002 ppm
Concentration RSD	2,459.8 %	0.2 %	38.7 %	0.3 %	134.5 %	81.4 %	297.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0299 ppm	107.7769 %	105.4081 %	106.8645 %	106.6292 %	104.1680 %	104.1917 %
Concentration per Run 1	0.0301 ppm	107.5674 %	105.1061 %	106.0087 %	106.6305 %	103.9071 %	103.7718 %
Concentration per Run 2	0.0297 ppm	108.1237 %	105.6572 %	107.5916 %	107.0743 %	104.7720 %	104.4900 %
Concentration per Run 3	0.0298 ppm	107.6395 %	105.4609 %	106.9932 %	106.1829 %	103.8248 %	104.3133 %
Concentration RSD	0.7 %	0.3 %	0.3 %	0.7 %	0.4 %	0.5 %	0.4 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: L2512678-01 WG2039414
Analysis started at: 3/13/2025 2:17:07 PM
Rack 1
Vial 27
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.0935 ppm	-0.0006 ppm	0.0372 ppm	0.0733 ppm	0.0000 ppm	39.6170 ppm
Concentration per Run 1	0.0006 ppm	0.0916 ppm	-0.0015 ppm	0.0374 ppm	0.0736 ppm	0.0000 ppm	39.7571 ppm
Concentration per Run 2	0.0001 ppm	0.0953 ppm	-0.0002 ppm	0.0363 ppm	0.0731 ppm	0.0000 ppm	39.5487 ppm
Concentration per Run 3	0.0001 ppm	0.0935 ppm	-0.0001 ppm	0.0379 ppm	0.0734 ppm	0.0000 ppm	39.5451 ppm
Concentration RSD	102.3 %	2.0 %	139.2 %	2.1 %	0.3 %	43.5 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0000 ppm	0.0006 ppm	0.0144 ppm	0.7403 ppm	6.3789 ppm	0.0024 ppm
Concentration per Run 1	-0.0002 ppm	-0.0006 ppm	0.0006 ppm	0.0143 ppm	0.7407 ppm	6.4064 ppm	0.0020 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0005 ppm	0.0147 ppm	0.7367 ppm	6.3902 ppm	0.0021 ppm
Concentration per Run 3	-0.0001 ppm	0.0005 ppm	0.0005 ppm	0.0142 ppm	0.7436 ppm	6.3400 ppm	0.0030 ppm
Concentration RSD	99.1 %	1,696.4 %	10.1 %	1.7 %	0.5 %	0.5 %	24.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	8.8566 ppm	0.0183 ppm	0.0010 ppm	44.5308 ppm	0.0026 ppm	0.0046 ppm	0.0009 ppm
Concentration per Run 1	8.8421 ppm	0.0184 ppm	0.0001 ppm	44.5577 ppm	0.0035 ppm	0.0038 ppm	0.0007 ppm
Concentration per Run 2	8.8519 ppm	0.0182 ppm	0.0013 ppm	44.3961 ppm	0.0031 ppm	0.0051 ppm	0.0024 ppm
Concentration per Run 3	8.8757 ppm	0.0182 ppm	0.0015 ppm	44.6386 ppm	0.0013 ppm	0.0049 ppm	-0.0003 ppm
Concentration RSD	0.2 %	0.8 %	82.2 %	0.3 %	45.8 %	14.7 %	143.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0006 ppm	0.8208 ppm	0.0002 ppm	0.1919 ppm	0.0021 ppm	-0.0012 ppm	0.0000 ppm
Concentration per Run 1	0.0016 ppm	0.8233 ppm	0.0014 ppm	0.1921 ppm	0.0021 ppm	-0.0004 ppm	0.0004 ppm
Concentration per Run 2	-0.0003 ppm	0.8204 ppm	0.0003 ppm	0.1913 ppm	0.0018 ppm	-0.0012 ppm	-0.0003 ppm
Concentration per Run 3	0.0004 ppm	0.8187 ppm	-0.0012 ppm	0.1922 ppm	0.0024 ppm	-0.0020 ppm	-0.0002 ppm
Concentration RSD	161.3 %	0.3 %	794.0 %	0.2 %	13.4 %	69.2 %	48,070.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0482 ppm	105.8486 %	104.7530 %	106.1305 %	105.6002 %	104.7176 %	104.5655 %
Concentration per Run 1	0.0480 ppm	106.2025 %	104.5338 %	104.9557 %	106.3083 %	104.4534 %	103.4862 %
Concentration per Run 2	0.0487 ppm	105.3585 %	104.6556 %	107.4385 %	104.8560 %	104.4686 %	105.8249 %
Concentration per Run 3	0.0480 ppm	105.9847 %	105.0695 %	105.9973 %	105.6362 %	105.2308 %	104.3855 %
Concentration RSD	0.8 %	0.4 %	0.3 %	1.2 %	0.7 %	0.4 %	1.1 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: L2512691-01 WG2039414
Analysis started at: 3/13/2025 2:20:33 PM
Rack 1
Vial 29
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	1.1759 ppm	0.0015 ppm	0.0043 ppm	0.0104 ppm	0.0000 ppm	6.9354 ppm
Concentration per Run 1	-0.0005 ppm	1.1822 ppm	0.0018 ppm	0.0038 ppm	0.0104 ppm	0.0000 ppm	6.9449 ppm
Concentration per Run 2	0.0000 ppm	1.1718 ppm	0.0004 ppm	0.0039 ppm	0.0104 ppm	0.0001 ppm	6.9107 ppm
Concentration per Run 3	0.0004 ppm	1.1736 ppm	0.0023 ppm	0.0052 ppm	0.0103 ppm	0.0000 ppm	6.9506 ppm
Concentration RSD	3,298.2 %	0.5 %	63.5 %	18.2 %	0.6 %	21.6 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0002 ppm	0.0023 ppm	0.0022 ppm	1.6201 ppm	2.0701 ppm	0.0017 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0026 ppm	0.0025 ppm	1.6228 ppm	2.0742 ppm	0.0018 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	0.0019 ppm	0.0020 ppm	1.6158 ppm	2.0755 ppm	0.0018 ppm
Concentration per Run 3	0.0000 ppm	0.0007 ppm	0.0023 ppm	0.0022 ppm	1.6218 ppm	2.0606 ppm	0.0014 ppm
Concentration RSD	6.9 %	312.1 %	15.4 %	9.5 %	0.2 %	0.4 %	12.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.1109 ppm	0.1392 ppm	0.0002 ppm	68.2424 ppm	0.0027 ppm	0.0043 ppm	0.0010 ppm
Concentration per Run 1	2.1101 ppm	0.1393 ppm	0.0005 ppm	68.4659 ppm	0.0015 ppm	0.0058 ppm	-0.0003 ppm
Concentration per Run 2	2.1021 ppm	0.1393 ppm	0.0007 ppm	68.3508 ppm	0.0022 ppm	0.0047 ppm	0.0044 ppm
Concentration per Run 3	2.1206 ppm	0.1389 ppm	-0.0005 ppm	67.9103 ppm	0.0044 ppm	0.0024 ppm	-0.0011 ppm
Concentration RSD	0.4 %	0.1 %	276.6 %	0.4 %	56.3 %	40.5 %	298.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0008 ppm	2.5782 ppm	-0.0016 ppm	0.0422 ppm	0.0347 ppm	0.0005 ppm	0.0020 ppm
Concentration per Run 1	-0.0025 ppm	2.5793 ppm	-0.0029 ppm	0.0424 ppm	0.0352 ppm	-0.0009 ppm	0.0025 ppm
Concentration per Run 2	0.0011 ppm	2.5813 ppm	-0.0011 ppm	0.0421 ppm	0.0344 ppm	0.0014 ppm	0.0020 ppm
Concentration per Run 3	-0.0012 ppm	2.5740 ppm	-0.0007 ppm	0.0421 ppm	0.0344 ppm	0.0008 ppm	0.0014 ppm
Concentration RSD	215.6 %	0.1 %	73.1 %	0.5 %	1.2 %	258.8 %	28.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0239 ppm	107.9485 %	106.2190 %	107.4889 %	107.0037 %	104.8512 %	104.3722 %
Concentration per Run 1	0.0237 ppm	107.5969 %	105.7658 %	106.5905 %	106.4233 %	104.5709 %	103.6400 %
Concentration per Run 2	0.0241 ppm	108.3189 %	106.3872 %	107.7651 %	107.8490 %	105.2413 %	104.6963 %
Concentration per Run 3	0.0238 ppm	107.9297 %	106.5040 %	108.1110 %	106.7388 %	104.7415 %	104.7804 %
Concentration RSD	0.9 %	0.3 %	0.4 %	0.7 %	0.7 %	0.3 %	0.6 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: L2512598-01 WG2039414
Analysis started at: 3/13/2025 2:24:01 PM
Rack 1
Vial 47
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0184 ppm	0.0017 ppm	0.0053 ppm	0.0006 ppm	0.0000 ppm	0.1800 ppm
Concentration per Run 1	0.0003 ppm	0.0207 ppm	0.0030 ppm	0.0039 ppm	0.0006 ppm	0.0000 ppm	0.1797 ppm
Concentration per Run 2	-0.0004 ppm	0.0199 ppm	0.0014 ppm	0.0056 ppm	0.0004 ppm	0.0000 ppm	0.1827 ppm
Concentration per Run 3	-0.0003 ppm	0.0147 ppm	0.0009 ppm	0.0063 ppm	0.0007 ppm	0.0000 ppm	0.1777 ppm
Concentration RSD	237.4 %	17.8 %	62.0 %	23.9 %	22.7 %	490.3 %	1.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0106 ppm	0.0011 ppm	0.0193 ppm	0.0213 ppm	1.3918 ppm	-0.0001 ppm
Concentration per Run 1	-0.0001 ppm	0.0093 ppm	0.0009 ppm	0.0196 ppm	0.0204 ppm	1.3799 ppm	0.0004 ppm
Concentration per Run 2	0.0000 ppm	0.0107 ppm	0.0016 ppm	0.0189 ppm	0.0227 ppm	1.4030 ppm	-0.0004 ppm
Concentration per Run 3	-0.0001 ppm	0.0117 ppm	0.0009 ppm	0.0193 ppm	0.0209 ppm	1.3927 ppm	-0.0001 ppm
Concentration RSD	135.4 %	11.6 %	34.1 %	1.7 %	5.6 %	0.8 %	781.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0189 ppm	0.0005 ppm	0.0016 ppm	0.1192 ppm	0.0068 ppm	0.0023 ppm	-0.0024 ppm
Concentration per Run 1	0.0176 ppm	0.0004 ppm	0.0012 ppm	0.1185 ppm	0.0057 ppm	0.0021 ppm	0.0003 ppm
Concentration per Run 2	0.0186 ppm	0.0007 ppm	0.0018 ppm	0.1224 ppm	0.0080 ppm	0.0023 ppm	-0.0033 ppm
Concentration per Run 3	0.0204 ppm	0.0004 ppm	0.0019 ppm	0.1168 ppm	0.0066 ppm	0.0025 ppm	-0.0042 ppm
Concentration RSD	7.3 %	39.7 %	21.1 %	2.4 %	16.7 %	8.5 %	99.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0044 ppm	0.0038 ppm	0.0022 ppm	0.0003 ppm	0.0015 ppm	-0.0007 ppm	-0.0003 ppm
Concentration per Run 1	0.0042 ppm	0.0050 ppm	0.0020 ppm	0.0004 ppm	0.0014 ppm	-0.0031 ppm	-0.0003 ppm
Concentration per Run 2	0.0028 ppm	0.0034 ppm	0.0022 ppm	0.0003 ppm	0.0016 ppm	0.0018 ppm	-0.0004 ppm
Concentration per Run 3	0.0062 ppm	0.0030 ppm	0.0024 ppm	0.0003 ppm	0.0015 ppm	-0.0008 ppm	-0.0002 ppm
Concentration RSD	38.3 %	27.3 %	9.1 %	9.2 %	5.9 %	339.5 %	36.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0169 ppm	103.2579 %	103.3752 %	103.7849 %	103.1074 %	102.6771 %	102.8820 %
Concentration per Run 1	0.0172 ppm	102.6702 %	103.8277 %	103.7273 %	102.4863 %	102.9043 %	102.9087 %
Concentration per Run 2	0.0169 ppm	103.8168 %	103.0365 %	104.2307 %	103.7479 %	102.7431 %	103.1347 %
Concentration per Run 3	0.0165 ppm	103.2866 %	103.2615 %	103.3967 %	103.0879 %	102.3839 %	102.6026 %
Concentration RSD	2.1 %	0.6 %	0.4 %	0.4 %	0.6 %	0.3 %	0.3 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: L2512805-02 WG2039613
Analysis started at: 3/13/2025 2:27:29 PM
Rack 1
Vial 55
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.0586 ppm	0.0005 ppm	0.0142 ppm	0.0080 ppm	0.0000 ppm	5.3325 ppm
Concentration per Run 1	0.0002 ppm	0.0539 ppm	0.0000 ppm	0.0129 ppm	0.0080 ppm	0.0000 ppm	5.3390 ppm
Concentration per Run 2	0.0004 ppm	0.0570 ppm	0.0001 ppm	0.0144 ppm	0.0080 ppm	0.0000 ppm	5.3445 ppm
Concentration per Run 3	0.0002 ppm	0.0648 ppm	0.0013 ppm	0.0153 ppm	0.0079 ppm	0.0000 ppm	5.3141 ppm
Concentration RSD	45.0 %	9.5 %	157.3 %	8.8 %	0.7 %	165.7 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0012 ppm	0.0791 ppm	4.0392 ppm	-0.0005 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0020 ppm	0.0795 ppm	4.0624 ppm	-0.0007 ppm
Concentration per Run 2	0.0000 ppm	0.0005 ppm	0.0004 ppm	0.0010 ppm	0.0767 ppm	4.0230 ppm	-0.0009 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0005 ppm	0.0008 ppm	0.0812 ppm	4.0323 ppm	0.0001 ppm
Concentration RSD	182.2 %	280.7 %	18.6 %	52.1 %	2.9 %	0.5 %	110.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.7468 ppm	0.2614 ppm	0.0005 ppm	5.7278 ppm	0.0010 ppm	0.0028 ppm	0.0003 ppm
Concentration per Run 1	1.7433 ppm	0.2618 ppm	-0.0004 ppm	5.7320 ppm	0.0011 ppm	0.0027 ppm	0.0009 ppm
Concentration per Run 2	1.7480 ppm	0.2623 ppm	0.0009 ppm	5.7201 ppm	0.0017 ppm	0.0024 ppm	-0.0006 ppm
Concentration per Run 3	1.7490 ppm	0.2602 ppm	0.0010 ppm	5.7313 ppm	0.0000 ppm	0.0033 ppm	0.0007 ppm
Concentration RSD	0.2 %	0.4 %	149.4 %	0.1 %	90.9 %	15.2 %	231.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0008 ppm	3.7852 ppm	-0.0002 ppm	0.0157 ppm	0.0023 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 1	0.0020 ppm	3.7696 ppm	-0.0009 ppm	0.0157 ppm	0.0021 ppm	-0.0002 ppm	0.0003 ppm
Concentration per Run 2	0.0017 ppm	3.7952 ppm	0.0000 ppm	0.0156 ppm	0.0025 ppm	0.0015 ppm	0.0002 ppm
Concentration per Run 3	-0.0012 ppm	3.7908 ppm	0.0002 ppm	0.0156 ppm	0.0025 ppm	-0.0011 ppm	0.0002 ppm
Concentration RSD	213.8 %	0.4 %	255.4 %	0.3 %	10.5 %	1,558.3 %	21.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0016 ppm	105.3948 %	105.9374 %	104.3913 %	106.0018 %	106.2871 %	104.3563 %
Concentration per Run 1	0.0017 ppm	106.3132 %	106.2844 %	103.5038 %	106.9633 %	106.6392 %	103.9425 %
Concentration per Run 2	0.0016 ppm	105.2195 %	105.6984 %	104.6552 %	106.0259 %	106.2355 %	104.5447 %
Concentration per Run 3	0.0014 ppm	104.6518 %	105.8295 %	105.0148 %	105.0164 %	105.9867 %	104.5815 %
Concentration RSD	8.9 %	0.8 %	0.3 %	0.8 %	0.9 %	0.3 %	0.3 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: L2512805-03 WG2039613
Analysis started at: 3/13/2025 2:30:57 PM
Rack 1
Vial 56
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.0716 ppm	-0.0003 ppm	0.0208 ppm	0.0318 ppm	0.0000 ppm	21.3630 ppm
Concentration per Run 1	0.0007 ppm	0.0763 ppm	-0.0006 ppm	0.0211 ppm	0.0319 ppm	0.0000 ppm	21.3890 ppm
Concentration per Run 2	0.0004 ppm	0.0721 ppm	0.0002 ppm	0.0202 ppm	0.0320 ppm	0.0000 ppm	21.4075 ppm
Concentration per Run 3	0.0000 ppm	0.0665 ppm	-0.0004 ppm	0.0209 ppm	0.0316 ppm	0.0000 ppm	21.2923 ppm
Concentration RSD	104.9 %	6.8 %	164.3 %	2.4 %	0.6 %	40.1 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0131 ppm	0.0000 ppm	0.0028 ppm	0.3607 ppm	10.1819 ppm	-0.0006 ppm
Concentration per Run 1	0.0001 ppm	0.0121 ppm	0.0002 ppm	0.0028 ppm	0.3630 ppm	10.2219 ppm	-0.0004 ppm
Concentration per Run 2	-0.0001 ppm	0.0142 ppm	0.0000 ppm	0.0028 ppm	0.3587 ppm	10.1738 ppm	-0.0006 ppm
Concentration per Run 3	0.0000 ppm	0.0129 ppm	-0.0002 ppm	0.0028 ppm	0.3603 ppm	10.1500 ppm	-0.0007 ppm
Concentration RSD	691.4 %	8.1 %	577.3 %	1.6 %	0.6 %	0.4 %	27.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.2604 ppm	3.7422 ppm	-0.0008 ppm	9.1794 ppm	0.0054 ppm	0.0021 ppm	-0.0003 ppm
Concentration per Run 1	9.2789 ppm	3.7576 ppm	-0.0008 ppm	9.2112 ppm	0.0058 ppm	0.0037 ppm	0.0021 ppm
Concentration per Run 2	9.2488 ppm	3.7407 ppm	-0.0004 ppm	9.2140 ppm	0.0044 ppm	0.0003 ppm	-0.0048 ppm
Concentration per Run 3	9.2534 ppm	3.7283 ppm	-0.0011 ppm	9.1130 ppm	0.0061 ppm	0.0022 ppm	0.0017 ppm
Concentration RSD	0.2 %	0.4 %	45.3 %	0.6 %	17.4 %	84.0 %	1,264.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0003 ppm	2.9401 ppm	-0.0003 ppm	0.0471 ppm	0.0020 ppm	0.0040 ppm	0.0000 ppm
Concentration per Run 1	-0.0009 ppm	2.9419 ppm	0.0001 ppm	0.0474 ppm	0.0021 ppm	0.0052 ppm	0.0006 ppm
Concentration per Run 2	0.0003 ppm	2.9228 ppm	-0.0012 ppm	0.0470 ppm	0.0023 ppm	0.0018 ppm	-0.0006 ppm
Concentration per Run 3	-0.0002 ppm	2.9557 ppm	0.0000 ppm	0.0470 ppm	0.0016 ppm	0.0051 ppm	-0.0001 ppm
Concentration RSD	217.2 %	0.6 %	223.4 %	0.5 %	17.5 %	48.3 %	2,460.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0011 ppm	106.9296 %	106.2144 %	105.5217 %	106.9328 %	105.8321 %	104.8874 %
Concentration per Run 1	0.0013 ppm	106.5462 %	105.7107 %	105.0847 %	106.7357 %	105.4224 %	104.6955 %
Concentration per Run 2	0.0011 ppm	107.1571 %	105.9562 %	105.4974 %	107.2132 %	105.7032 %	104.6993 %
Concentration per Run 3	0.0009 ppm	107.0856 %	106.9762 %	105.9831 %	106.8495 %	106.3706 %	105.2674 %
Concentration RSD	16.6 %	0.3 %	0.6 %	0.4 %	0.2 %	0.5 %	0.3 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: L2512805-04 WG2039613
Analysis started at: 3/13/2025 2:34:25 PM
Rack 1
Vial 57
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0661 ppm	-0.0002 ppm	0.0340 ppm	0.0135 ppm	0.0000 ppm	35.6901 ppm
Concentration per Run 1	0.0000 ppm	0.0556 ppm	-0.0013 ppm	0.0335 ppm	0.0135 ppm	0.0000 ppm	35.5597 ppm
Concentration per Run 2	0.0002 ppm	0.0743 ppm	0.0003 ppm	0.0332 ppm	0.0134 ppm	0.0000 ppm	35.6830 ppm
Concentration per Run 3	0.0003 ppm	0.0684 ppm	0.0004 ppm	0.0353 ppm	0.0137 ppm	0.0000 ppm	35.8275 ppm
Concentration RSD	95.3 %	14.5 %	502.5 %	3.4 %	1.1 %	218.9 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0002 ppm	0.0004 ppm	0.0128 ppm	0.0758 ppm	14.5979 ppm	-0.0005 ppm
Concentration per Run 1	-0.0002 ppm	0.0001 ppm	0.0005 ppm	0.0127 ppm	0.0763 ppm	14.5446 ppm	-0.0002 ppm
Concentration per Run 2	-0.0002 ppm	0.0003 ppm	0.0004 ppm	0.0127 ppm	0.0765 ppm	14.6252 ppm	-0.0005 ppm
Concentration per Run 3	-0.0001 ppm	0.0001 ppm	0.0004 ppm	0.0130 ppm	0.0746 ppm	14.6240 ppm	-0.0007 ppm
Concentration RSD	22.6 %	58.3 %	9.8 %	1.4 %	1.4 %	0.3 %	58.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.2228 ppm	0.0069 ppm	0.0008 ppm	16.8829 ppm	0.0007 ppm	0.0011 ppm	0.0004 ppm
Concentration per Run 1	3.2359 ppm	0.0068 ppm	0.0006 ppm	16.7779 ppm	0.0012 ppm	0.0017 ppm	0.0007 ppm
Concentration per Run 2	3.2135 ppm	0.0069 ppm	0.0010 ppm	16.9305 ppm	0.0004 ppm	0.0008 ppm	-0.0024 ppm
Concentration per Run 3	3.2192 ppm	0.0070 ppm	0.0010 ppm	16.9402 ppm	0.0005 ppm	0.0007 ppm	0.0027 ppm
Concentration RSD	0.4 %	0.9 %	29.0 %	0.5 %	62.9 %	55.3 %	720.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	4.0349 ppm	-0.0010 ppm	0.1233 ppm	0.0023 ppm	0.0020 ppm	0.0012 ppm
Concentration per Run 1	0.0005 ppm	4.0450 ppm	-0.0039 ppm	0.1231 ppm	0.0020 ppm	0.0027 ppm	0.0012 ppm
Concentration per Run 2	-0.0003 ppm	4.0308 ppm	-0.0010 ppm	0.1236 ppm	0.0027 ppm	0.0008 ppm	0.0013 ppm
Concentration per Run 3	0.0004 ppm	4.0290 ppm	0.0019 ppm	0.1232 ppm	0.0024 ppm	0.0025 ppm	0.0010 ppm
Concentration RSD	218.1 %	0.2 %	287.8 %	0.2 %	15.3 %	51.1 %	12.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0074 ppm	108.4099 %	106.4264 %	106.6643 %	107.1732 %	105.1037 %	104.2540 %
Concentration per Run 1	0.0077 ppm	108.1248 %	106.9744 %	105.7373 %	106.9481 %	105.2379 %	103.6391 %
Concentration per Run 2	0.0072 ppm	107.9527 %	106.0216 %	107.4250 %	106.5034 %	104.9012 %	104.5579 %
Concentration per Run 3	0.0073 ppm	109.1522 %	106.2831 %	106.8306 %	108.0681 %	105.1722 %	104.5651 %
Concentration RSD	3.2 %	0.6 %	0.5 %	0.8 %	0.8 %	0.2 %	0.5 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: CCV
Analysis started at: 3/13/2025 2:37:53 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4622 ppm	0.4720 ppm	0.4778 ppm	0.4674 ppm	0.4783 ppm	0.4953 ppm	0.4946 ppm
Concentration per Run 1	0.4611 ppm	0.4791 ppm	0.4768 ppm	0.4675 ppm	0.4767 ppm	0.4936 ppm	0.4942 ppm
Concentration per Run 2	0.4637 ppm	0.4667 ppm	0.4809 ppm	0.4696 ppm	0.4798 ppm	0.4978 ppm	0.4933 ppm
Concentration per Run 3	0.4618 ppm	0.4701 ppm	0.4756 ppm	0.4651 ppm	0.4783 ppm	0.4945 ppm	0.4964 ppm
Recovery Percentage 1	92.435 %	94.391 %	95.554 %	93.480 %	95.653 %	99.055 %	98.927 %
Concentration RSD	0.3 %	1.4 %	0.6 %	0.5 %	0.3 %	0.4 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4841 ppm	0.4969 ppm	0.4835 ppm	0.4658 ppm	0.5020 ppm	4.9681 ppm	0.4844 ppm
Concentration per Run 1	0.4836 ppm	0.4941 ppm	0.4834 ppm	0.4641 ppm	0.5023 ppm	4.9823 ppm	0.4849 ppm
Concentration per Run 2	0.4845 ppm	0.4976 ppm	0.4859 ppm	0.4670 ppm	0.5009 ppm	4.9600 ppm	0.4847 ppm
Concentration per Run 3	0.4842 ppm	0.4991 ppm	0.4811 ppm	0.4663 ppm	0.5027 ppm	4.9620 ppm	0.4837 ppm
Recovery Percentage 1	96.817 %	99.387 %	96.694 %	93.162 %	100.394 %	99.363 %	96.880 %
Concentration RSD	0.1 %	0.5 %	0.5 %	0.3 %	0.2 %	0.2 %	0.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4777 ppm	0.4880 ppm	0.4806 ppm	9.6723 ppm	0.4927 ppm	0.4959 ppm	0.4817 ppm
Concentration per Run 1	0.4790 ppm	0.4883 ppm	0.4806 ppm	9.6670 ppm	0.4929 ppm	0.4980 ppm	0.4821 ppm
Concentration per Run 2	0.4795 ppm	0.4877 ppm	0.4798 ppm	9.7113 ppm	0.4949 ppm	0.4936 ppm	0.4807 ppm
Concentration per Run 3	0.4745 ppm	0.4878 ppm	0.4813 ppm	9.6386 ppm	0.4904 ppm	0.4960 ppm	0.4823 ppm
Recovery Percentage 1	95.538 %	97.591 %	96.111 %	96.723 %	98.547 %	99.171 %	96.340 %
Concentration RSD	0.6 %	0.1 %	0.2 %	0.4 %	0.5 %	0.5 %	0.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4800 ppm	5.2076 ppm	0.4987 ppm	0.4949 ppm	0.4844 ppm	0.4789 ppm	0.4792 ppm
Concentration per Run 1	0.4800 ppm	5.1939 ppm	0.4994 ppm	0.4943 ppm	0.4834 ppm	0.4787 ppm	0.4783 ppm
Concentration per Run 2	0.4804 ppm	5.2136 ppm	0.5014 ppm	0.4955 ppm	0.4861 ppm	0.4798 ppm	0.4794 ppm
Concentration per Run 3	0.4794 ppm	5.2154 ppm	0.4953 ppm	0.4948 ppm	0.4838 ppm	0.4783 ppm	0.4798 ppm
Recovery Percentage 1	95.991 %	99.193 %	99.742 %	98.975 %	96.889 %	95.783 %	95.831 %
Concentration RSD	0.1 %	0.2 %	0.6 %	0.1 %	0.3 %	0.2 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4880 ppm	107.5170 %	106.5458 %	106.1004 %	105.4072 %	105.1373 %	104.1625 %
Concentration per Run 1	0.4899 ppm	107.1045 %	106.7024 %	105.8053 %	104.6436 %	105.2784 %	103.6111 %
Concentration per Run 2	0.4889 ppm	107.5668 %	105.9026 %	105.9625 %	105.6767 %	104.7268 %	104.0175 %
Concentration per Run 3	0.4852 ppm	107.8797 %	107.0324 %	106.5334 %	105.9013 %	105.4067 %	104.8590 %
Recovery Percentage 1	97.609 %						
Concentration RSD	0.5 %	0.4 %	0.5 %	0.4 %	0.6 %	0.3 %	0.6 %

ICP DataTrace 9

3/13/2025 2:58:52 PM

LabBook: WG2039956_03132025T9.imexp

Sample: CCB
Analysis started at: 3/13/2025 2:41:21 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0041 ppm	-0.0005 ppm	-0.0014 ppm	0.0000 ppm	0.0000 ppm	0.0032 ppm
Concentration per Run 1	0.0002 ppm	0.0064 ppm	-0.0008 ppm	-0.0007 ppm	-0.0002 ppm	0.0000 ppm	0.0030 ppm
Concentration per Run 2	-0.0004 ppm	0.0009 ppm	0.0002 ppm	-0.0008 ppm	0.0001 ppm	0.0000 ppm	0.0012 ppm
Concentration per Run 3	-0.0004 ppm	0.0050 ppm	-0.0008 ppm	-0.0027 ppm	0.0000 ppm	0.0000 ppm	0.0053 ppm
Recovery Percentage 1	-2.802 %	4.103 %	-9.149 %	-4.612 %	-0.390 %	0.218 %	3.188 %
Concentration RSD	167.3 %	70.2 %	133.8 %	79.9 %	346.9 %	185.9 %	64.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	-0.0011 ppm	-0.0123 ppm	0.0002 ppm
Concentration per Run 1	0.0002 ppm	0.0013 ppm	-0.0004 ppm	-0.0002 ppm	0.0000 ppm	-0.0123 ppm	0.0007 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	-0.0014 ppm	0.0018 ppm	-0.0001 ppm
Concentration per Run 3	0.0000 ppm	-0.0011 ppm	-0.0002 ppm	0.0000 ppm	-0.0018 ppm	-0.0265 ppm	0.0001 ppm
Recovery Percentage 1	0.716 %	0.197 %	-2.250 %	-2.330 %	-2.167 %	-0.493 %	4.468 %
Concentration RSD	282.1 %	3,080.1 %	60.3 %	91.9 %	88.7 %	114.6 %	200.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0005 ppm	-0.0001 ppm	0.0013 ppm	0.0024 ppm	0.0009 ppm	0.0028 ppm	0.0048 ppm
Concentration per Run 1	0.0029 ppm	-0.0002 ppm	0.0014 ppm	0.0010 ppm	0.0015 ppm	0.0029 ppm	0.0062 ppm
Concentration per Run 2	-0.0021 ppm	-0.0002 ppm	0.0014 ppm	0.0005 ppm	0.0008 ppm	0.0019 ppm	0.0057 ppm
Concentration per Run 3	0.0008 ppm	0.0001 ppm	0.0010 ppm	0.0058 ppm	0.0004 ppm	0.0035 ppm	0.0024 ppm
Recovery Percentage 1	0.544 %	-0.720 %	2.522 %	0.121 %	3.605 %	27.611 %	9.547 %
Concentration RSD	464.9 %	231.3 %	16.7 %	119.6 %	59.7 %	28.1 %	42.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0011 ppm	-0.0098 ppm	-0.0006 ppm	0.0001 ppm	0.0001 ppm	0.0014 ppm	0.0001 ppm
Concentration per Run 1	0.0031 ppm	-0.0121 ppm	-0.0006 ppm	0.0000 ppm	0.0004 ppm	-0.0011 ppm	-0.0003 ppm
Concentration per Run 2	-0.0004 ppm	-0.0071 ppm	-0.0009 ppm	0.0000 ppm	-0.0001 ppm	0.0035 ppm	0.0001 ppm
Concentration per Run 3	0.0006 ppm	-0.0103 ppm	-0.0003 ppm	0.0002 ppm	0.0001 ppm	0.0017 ppm	0.0004 ppm
Recovery Percentage 1	10.939 %	-1.967 %	-1.137 %	0.589 %	1.323 %	6.868 %	0.661 %
Concentration RSD	167.7 %	26.0 %	53.8 %	223.9 %	191.8 %	170.5 %	504.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0002 ppm	105.7793 %	105.4065 %	105.8162 %	106.4937 %	105.8187 %	106.2046 %
Concentration per Run 1	0.0004 ppm	105.4497 %	105.5244 %	106.3620 %	105.8179 %	106.2991 %	106.3210 %
Concentration per Run 2	0.0001 ppm	106.4227 %	105.3935 %	105.5848 %	107.6422 %	105.3740 %	105.9432 %
Concentration per Run 3	0.0002 ppm	105.4653 %	105.3017 %	105.5017 %	106.0211 %	105.7832 %	106.3495 %
Recovery Percentage 1	4.444 %						
Concentration RSD	71.1 %	0.5 %	0.1 %	0.4 %	0.9 %	0.4 %	0.2 %

QC True Values: Trace 4,5,6,7

	Element	True Value (mg/L)
ICV/CCV	All	0.50
	K	5.00
	Na	10.00
	Si	5.25
ICSA	Al	250
	Ca	250
	Fe	100
	Mg	250
ICSB	Al	9.00
	Sb	1.00
	As	1.00
	Ba	0.30
	Be	0.10
	Bi	1.00
	B	0.50
	Cd	0.30
	Ca	45.00
	Cr	0.30
	Co	0.30
	Cu	0.30
	Fe	37.50
	Pb	1.00
	Mg	22.50
	Mn	0.20
	Mo	0.30
	Ni	0.30
	K	20.00
	Se	0.50
	Si	1.23
	Ag	0.30
	Na	7.50
	Sr	1.00
	Tl	1.00
	Sn	1.00
	Ti	1.00
	V	0.30
	Zn	0.30

	Element	True Value (mg/L)
CRI	Al	0.40
	Sb	0.10
	As	0.02
	Ba	0.04
	Be	0.01
	Bi	0.02
	B	0.10
	Cd	0.01
	Ca	0.40
	Cr	0.02
	Co	0.10
	Cu	0.05
	Fe	0.20
	Pb	0.05
	Mg	0.40
	Mn	0.03
	Mo	0.10
	Ni	0.08
	K	5.00
	Se	0.02
	Si	1.00
	Ag	0.02
	Na	5.00
	Sr	0.02
	Tl	0.02
	Sn	0.02
	Ti	0.02
	V	0.10
	Zn	0.04

LCS & MS Spike Concentrations

Element	Liquid concentrations (mg/L)	Soil concentrations (mg/kg)
Al	2.00	100
Sb	0.50	25.0
As	0.12	6.0
Ba	2.00	100
Be	0.05	2.5
Bi	1.00	50.0
B	1.00	50.0
Cd	0.05	2.55
Ca	10.00	500
Cr	0.20	10.0
Co	0.50	25.0
Cu	0.25	12.5
Fe	1.00	50.0
Pb	0.51	25.5
Mg	10.00	500
Mn	0.50	25.0
Mo	1.00	50.0
Ni	0.50	25.0
K	10.00	500
Se	0.12	6.0
Si	1.00	50.0
Ag	0.05	2.5
Na	10.00	500
Sr	1.00	50.0
Tl	0.12	6.0
Sn	1.00	50.0
Ti	1.00	50.0
V	0.50	25.0
Zn	0.50	25.0

LCS and MS Spike Concentrations—As of 08/09/2011

Element	Liquid Concentration(mg/L)	Soil Concentration (mg/kg)
Al	2.00	160
Sb	0.50	40
As	0.12	9.6
Ba	2.00	160
Be	0.05	4.0
Bi	1.00	80
B	1.00	80
Cd	0.051	4.08
Ca	10.0	800
Cr	0.20	16
Co	0.50	40
Cu	0.25	20
Fe	1.00	80
Pb	0.51	40.8
Mg	10.0	800
Mn	0.50	40
Mo	1.00	80
Ni	0.50	40
K	10.0	800
Se	0.12	9.6
Si	1.00	80
Ag	0.05	24
Na	10.0	800
Sr	1.00	80
Tl	0.12	9.6
Sn	1.00	80
Ti	1.00	80
V	0.50	40
Zn	0.50	40

Revised 8/9/11 Soil spike is based on (2x water spike)x(50/1.25), where 50 is the final volume of soil digestate and 1.25 is the nominal digestion weight of 1.25g, except in the case of Ag, where additional Ag is added to the spike.

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D102-540
Certificate Issue Date: June 22, 2018
Expiration Date: January 31, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8160	6.36	3960 - 12400	4080 - 12200
Antimony	120	60.9	9.42	0.822 - 121	12.0 - 166
Arsenic	144	135	5.08	112 - 158	94.6 - 176
Barium	469	443	6.77	366 - 521	332 - 554
Beryllium	207	197	5.86	164 - 229	148 - 246
Boron	213	174	12.6	127 - 221	105 - 244
Cadmium	224	204	6.65	169 - 240	153 - 256
Calcium	5190	4830	9.12	3950 - 5700	3510 - 6150
Chromium	138	132	8.56	109 - 155	92.2 - 171
Cobalt	182	179	7.93	151 - 207	134 - 224
Copper	191	184	6.72	155 - 213	138 - 230
Iron	15000	14400	10.7	8770 - 20000	5120 - 23600
Lead	225	216	7.72	178 - 254	159 - 274
Magnesium	2570	2340	6.13	1780 - 2900	1460 - 3230
Manganese	331	323	6.71	266 - 380	242 - 404
Mercury	16.8	13.2	16.0	8.64 - 17.7	7.89 - 18.5
Molybdenum	193	175	2.39	141 - 209	125 - 226
Nickel	163	152	5.95	126 - 178	106 - 197
Potassium	2420	2050	6.31	1440 - 2660	1210 - 2890
Selenium	81.9	74.9	4.13	59.3 - 90.5	47.0 - 103
Silver	57.6	53.9	9.00	43.0 - 64.8	37.8 - 70.0
Sodium	161	149	12.1	111 - 188	57.7 - 241
Strontium	100	96.2	4.04	78.1 - 114	69.0 - 123
Thallium	253	232	3.54	188 - 276	168 - 296

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	146	134	10.8	106 - 163	79.5 - 189
Titanium	449	340	7.20	70.2 - 609	44.9 - 711
Uranium	114	113	7.10	85.5 - 140	71.9 - 153
Vanadium	180	172	8.85	137 - 207	126 - 218
Zinc	217	211	6.58	171 - 250	147 - 274

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8160	80.8	138	-	-
Antimony	120	60.9	50.8	135	-	-
Arsenic	144	135	93.8	184	-	-
Barium	469	443	94.5	158	-	-
Beryllium	207	197	95.0	148	-	-
Boron	213	174	81.8	107	-	-
Cadmium	224	204	91.3	199	-	-
Calcium	5190	4830	93.0	122	-	-
Chromium	138	132	95.5	172	-	-
Cobalt	182	179	98.4	140	-	-
Copper	191	184	96.3	183	-	-
Iron	15000	14400	95.6	133	-	-
Lead	225	216	96.2	204	-	-
Magnesium	2570	2340	91.2	122	-	-
Manganese	331	323	97.6	147	-	-
Mercury	16.8	13.2	78.3	128	-	-
Molybdenum	193	175	90.8	143	-	-
Nickel	163	152	93.1	185	-	-
Potassium	2420	2050	84.7	121	-	-
Selenium	81.9	74.9	91.5	163	-	-

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	57.6	53.9	93.6	150	-	-
Sodium	161	149	92.8	105	-	-
Strontium	100	96.2	96.2	90	-	-
Thallium	253	232	91.6	147	-	-
Tin	146	134	92.0	100	-	-
Titanium	449	340	75.6	93	-	-
Uranium	114	113	98.8	35	-	-
Vanadium	180	172	95.4	139	-	-
Zinc	217	211	97.0	180	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Quality Officer

Matthew Seebeck

ISO/IEC GUIDE 34:2009 ACCREDITED REFERENCE MATERIAL PRODUCER CERTIFICATE NO. 1539.03

ISO/IEC 17025:2005 ACCREDITED CHEMICAL TESTING LABORATORY CERTIFICATE NO. 1539.02

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Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D105-540
Certificate Issue Date: March 19, 2019
Expiration Date: October 12, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8800	8.32	4600 - 13000	4470 - 13100
Antimony	282	147	7.70	6.17 - 289	28.2 - 366
Arsenic	155	143	6.34	119 - 168	100 - 186
Barium	439	415	5.37	343 - 488	311 - 519
Beryllium	192	179	2.78	149 - 210	134 - 224
Boron	216	160	7.08	113 - 208	96.1 - 238
Cadmium	61.5	56.2	0.528	46.6 - 65.9	42.2 - 70.3
Calcium	5190	4960	6.64	4090 - 5840	3610 - 6310
Chromium	104	101	4.75	83.2 - 118	70.5 - 131
Cobalt	196	189	0.500	158 - 219	141 - 236
Copper	65.0	63.1	2.65	53.1 - 73.1	47.3 - 78.9
Iron	15000	15700	8.94	10100 - 21300	6000 - 25400
Lead	126	125	4.77	103 - 146	89.3 - 160
Magnesium	2570	2410	6.26	1860 - 2970	1520 - 3310
Manganese	387	382	5.37	315 - 449	290 - 474
Mercury	7.76	7.61	13.7	5.53 - 9.69	4.57 - 10.7
Molybdenum	120	107	0.500	86.0 - 128	75.5 - 139
Nickel	117	108	0.514	89.5 - 127	75.7 - 141
Potassium	2420	2110	5.62	1500 - 2720	1260 - 2960
Selenium	84.6	77.9	7.10	61.8 - 94.0	49.2 - 107
Silver	34.6	34.3	8.34	27.8 - 40.9	23.6 - 45.1
Sodium	161	145	6.72	106 - 183	54.3 - 235
Strontium	104	104	3.95	85.1 - 123	74.8 - 133
Thallium	123	113	0.500	91.3 - 134	77.1 - 149

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▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	118	107	0.500	83.5 - 130	61.2 - 152
Titanium	512	421	5.80	114 - 728	0.00 - 854
Uranium	103	104	6.18	79.1 - 128	71.9 - 135
Vanadium	87.3	83.7	8.55	66.8 - 101	54.2 - 113
Zinc	251	240	3.98	194 - 285	168 - 312

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8800	87.1	193	-	-
Antimony	282	147	52.3	216	-	-
Arsenic	155	143	92.5	240	-	-
Barium	439	415	94.6	222	-	-
Beryllium	192	179	93.4	220	-	-
Boron	216	160	74.2	152	-	-
Cadmium	61.5	56.2	91.5	239	-	-
Calcium	5190	4960	95.6	175	-	-
Chromium	104	101	96.8	237	-	-
Cobalt	196	189	96.2	215	-	-
Copper	65.0	63.1	97.1	237	-	-
Iron	15000	15700	105	195	-	-
Lead	126	125	99.0	243	-	-
Magnesium	2570	2410	93.9	177	-	-
Manganese	387	382	98.7	215	-	-
Mercury	7.76	7.61	98.0	157	-	-
Molybdenum	120	107	89.4	216	-	-
Nickel	117	108	92.5	235	-	-
Potassium	2420	2110	87.2	181	-	-
Selenium	84.6	77.9	92.1	231	-	-

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	34.6	34.3	99.3	216	-	-
Sodium	161	145	89.8	166	-	-
Strontium	104	104	99.9	148	-	-
Thallium	123	113	91.8	215	-	-
Tin	118	107	90.4	164	-	-
Titanium	512	421	82.2	157	-	-
Uranium	103	104	101	61	-	-
Vanadium	87.3	83.7	95.9	214	-	-
Zinc	251	240	95.5	234	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Brian Miller

Quality Officer

Matthew Seebeck

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Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D109-540
Certificate Issue Date: March 24, 2020
Expiration Date: October 03, 2023
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8130	2.54	3920 - 12300	4060 - 12200
Antimony	259	134	5.03	4.56 - 264	25.9 - 335
Arsenic	171	156	3.38	129 - 183	109 - 203
Barium	253	239	4.81	197 - 280	179 - 298
Beryllium	179	169	6.59	141 - 198	127 - 212
Boron	114	87.5	10.3	62.5 - 113	52.5 - 125
Cadmium	149	137	5.43	113 - 160	103 - 171
Calcium	5190	4760	3.48	3890 - 5640	3460 - 6070
Chromium	163	154	3.79	126 - 181	108 - 200
Cobalt	127	121	5.07	101 - 141	90.8 - 151
Copper	57.0	54.9	4.13	46.1 - 63.6	41.1 - 68.6
Iron	15000	14100	6.27	8470 - 19700	4920 - 23200
Lead	133	130	3.00	107 - 152	93.3 - 167
Magnesium	2570	2320	3.32	1760 - 2880	1440 - 3200
Manganese	277	269	2.67	221 - 317	199 - 340
Mercury	21.6	20.5	7.72	14.7 - 26.3	12.3 - 28.6
Molybdenum	108	95.4	2.61	76.4 - 114	66.9 - 124
Nickel	58.7	53.9	4.97	44.5 - 63.3	37.7 - 70.0
Potassium	2420	2020	3.06	1410 - 2630	1190 - 2850
Selenium	181	167	5.63	132 - 201	113 - 221
Silver	35.5	33.6	5.20	26.8 - 40.3	23.0 - 44.1
Sodium	161	133	2.76	95.1 - 171	46.5 - 220
Strontium	89.7	87.9	4.59	71.7 - 104	62.8 - 113
Thallium	121	112	5.19	90.3 - 133	76.1 - 147

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▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	83.5	74.0	5.42	57.6 - 90.4	39.7 - 108
Titanium	474	333	7.17	48.6 - 617	46.3 - 620
Uranium	51.9	51.9	3.36	39.6 - 64.3	35.9 - 68.0
Vanadium	68.1	62.6	6.00	49.4 - 75.8	37.0 - 88.3
Zinc	165	158	2.34	128 - 188	111 - 205

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ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number[6]	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8130	80.5	196	-	-
Antimony	259	134	51.8	217	-	-
Arsenic	171	156	91.3	243	-	-
Barium	253	239	94.3	230	-	-
Beryllium	179	169	94.6	223	-	-
Boron	114	87.5	76.7	150	-	-
Cadmium	149	137	91.8	249	-	-
Calcium	5190	4760	91.8	184	-	-
Chromium	163	154	94.4	245	-	-
Cobalt	127	121	95.3	221	-	-
Copper	57.0	54.9	96.2	243	-	-
Iron	15000	14100	93.9	199	-	-
Lead	133	130	97.7	251	-	-
Magnesium	2570	2320	90.1	182	-	-
Manganese	277	269	97.2	220	-	-
Mercury	21.6	20.5	94.7	172	-	-
Molybdenum	108	95.4	88.3	218	-	-
Nickel	58.7	53.9	91.8	242	-	-
Potassium	2420	2020	83.5	187	-	-
Selenium	181	167	92.2	235	-	-
Silver	35.5	33.6	94.5	222	-	-
Sodium	161	133	82.7	177	-	-
Strontium	89.7	87.9	98.0	151	-	-
Thallium	121	112	92.2	219	-	-
Tin	83.5	74.0	88.6	170	-	-
Titanium	474	333	70.3	157	-	-
Uranium	51.9	51.9	100	60	-	-
Vanadium	68.1	62.6	91.9	213	-	-
Zinc	165	158	95.8	238	-	-

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▪ Certificate of Analysis ▪

1. The **Certified Values** are the actual gravimetric/volumetric "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** represents an expanded uncertainty and approximates a 95% confidence interval. The uncertainty is based on the characterization, homogeneity and stability characteristics of the product, multiplied by a coverage factor (k=2). The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product. The formula used to calculate the expanded uncertainty is:
$U_{expanded} = k * SQRT((U_{char}^2) + (U_{homogen}^2) + (U_{LTS}^2) + (U_{STS}^2) + (U_{RSS}^2))$

Where:

$U_{expanded}$ = Expanded uncertainty.
k = Coverage factor.
U_{char} = Combined standard uncertainty of the manufacturing and/or analytical verification assessment.
$U_{homogen}$ = Standard uncertainty of the homogeneity assessment.
U_{LTS} = Standard uncertainty associated with long-term stability.
U_{STS} = Standard uncertainty associated with short-term (transport) stability.
U_{RSS} = Standard uncertainty associated with repeated sampling of the product (where permitted by product use instructions).

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this certified reference material alongside USEPA and NELAC compliant PT study materials. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and therefore, the acceptance limits of this certified reference material and any PT study material may differ relative to their difference in concentrations.

5. The **PT Performance Data** include the mean value, percent recovery and number of data points reported by laboratories in our Proficiency Testing study compared to the Certified Values. In the event this lot was not used in a proficiency testing scheme, the data displayed was generated internally by ERA.

6. Where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. **Analytical Traceability Recovery (%)** = [(% recovery ERA certified reference material)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing this ERA certified reference material and/or it's associated stock solution(s) against the applicable NIST SRMs.

7. The **Reference Values** are equal to the mean recoveries for the parameters as determined in an interlaboratory round robin study. The **Reference Values** represent the expected performance for the analytes in this standard. ERA recommends using the **Reference Values** when assessing or evaluating your results.

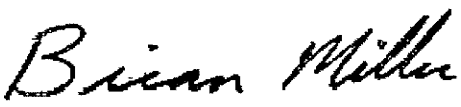
8. **Metrological Traceability**. This certified reference material is metrologically traceable to NIST mass reference materials through an unbroken chain of comparisons.

9. For additional information on this product such as intended use, storage information, instructions for use, minimum sample size, and safety information, please refer to the Product Use Instructions provided.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller



Quality Officer

Matthew Seebeck

ERA
A Waters Company

Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D113-540
Certificate Issue Date: March 23, 2021
Expiration Date: October 13, 2024
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8630	12.0	4420 - 12800	4370 - 12900
Antimony	256	129	16.8	0.742 - 257	25.6 - 323
Arsenic	91.6	84.5	15.1	70.0 - 99.0	59.2 - 110
Barium	259	249	9.94	206 - 292	187 - 311
Beryllium	175	163	3.89	135 - 191	122 - 204
Boron	95.7	76.7	12.8	55.7 - 97.7	48.0 - 107
Cadmium	107	99.0	11.5	82.2 - 116	74.2 - 124
Calcium	5190	4760	11.8	3890 - 5640	3460 - 6070
Chromium	129	122	14.6	101 - 144	85.7 - 159
Cobalt	63.6	61.7	11.5	51.9 - 71.6	46.3 - 77.2
Copper	62.3	61.5	12.3	51.9 - 71.0	46.1 - 76.8
Iron	15000	14500	15.7	8860 - 20100	5190 - 23800
Lead	122	123	13.9	103 - 144	88.3 - 158
Lithium	6.42	7.30	18.7	5.13 - 9.48	3.20 - 11.4
Magnesium	2570	2360	8.87	1810 - 2920	1480 - 3250
Manganese	470	456	13.4	375 - 538	350 - 563
Mercury	22.1	18.9	14.5	13.0 - 24.8	11.3 - 26.4
Molybdenum	80.1	72.8	11.0	58.7 - 87.0	50.5 - 95.2
Nickel	143	135	14.2	112 - 158	94.7 - 176
Potassium	2420	2090	8.21	1480 - 2700	1240 - 2940
Selenium	128	121	11.7	96.9 - 146	80.4 - 162
Silver	45.4	44.1	6.69	35.5 - 52.8	30.7 - 57.6
Sodium	161	136	9.34	97.4 - 174	48.1 - 223
Strontium	82.2	82.3	8.42	67.4 - 97.1	58.6 - 106

16341 Table Mountain Pkwy ▪ Golden, CO 80403 ▪ T: 800.372.0122 ▪ 303.431.8454 ▪ www.eraqc.com

▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Thallium	154	144	7.54	117 - 171	101 - 187
Tin	89.7	79.8	14.0	62.2 - 97.4	43.5 - 116
Titanium	705	546	10.3	123 - 969	118 - 974
Uranium	29.5	30.9	3.38	23.9 - 37.9	21.3 - 40.5
Vanadium	196	186	14.2	148 - 224	138 - 235
Zinc	307	295	10.4	240 - 351	207 - 384

16341 Table Mountain Pkwy ▪ Golden, CO 80403 ▪ T: 800.372.0122 ▪ 303.431.8454 ▪ www.eraqc.com

Calculation of 6010B Metals

Aqueous Samples

The instrument will calculate the concentration (µg/L). This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

$$\text{Result, mg/L} = C_s \times (1\text{mg}/1000\mu\text{g}) \times (DF)$$

Where:

C_s = Concentration of sample (µg/L)

DF = Dilution Factor

Soil or Solid Samples

Soil samples are calculated as follows:

$$\text{Result, mg/Kg} = \frac{C_s \times (1\text{mg}/1000\mu\text{g}) \times (DF)}{A}$$

Where:

C_s = Concentration of sample (µg/L)

DF = Dilution Factor

$$A = \frac{\text{Sample weight (grams)}}{\text{Final Volume (mL)}}$$

Dry weight correction

Dry weight correction is calculated as follows:

$$\text{Final concentration in mg/Kg, dry weight} = \frac{\text{Result, mg/Kg}}{\%_{solids}}$$

Where:

$\%_{solids}$ = Percent Solids, as a decimal value

Sequence Trace 6

3/13/2025 7:06:46 AM

LabBook: WG2039408_03122025T6.imexp

Index:	Label:	Rack	Vial	Start time:
1	xBlank DHL Trace6	0	1	3/12/2025 6:28:54 AM
2	xICAL	0	2	3/12/2025 6:36:30 AM
3	xICV	0	3	3/12/2025 6:43:50 AM
4	xICB	0	4	3/12/2025 6:50:09 AM
5	xICV	0	10	3/12/2025 6:56:49 AM
6	xICB	0	4	3/12/2025 7:03:12 AM
7	Blank DHL Trace6	0	1	3/12/2025 7:07:05 AM
8	ICAL	0	2	3/12/2025 7:13:41 AM
9	ICV	0	3	3/12/2025 7:19:54 AM
10	ICB	0	4	3/12/2025 7:26:14 AM
11	ICV	0	10	3/12/2025 7:32:54 AM
12	ICB	0	4	3/12/2025 7:39:16 AM
13	LLOQ RL Check	0	5	3/12/2025 7:45:56 AM
14	ICSA	0	6	3/12/2025 7:52:35 AM
15	SIC Cr Mn V Ti	0	7	3/12/2025 8:01:35 AM
16	LDR Check	0	8	3/12/2025 8:09:29 AM
17	LLOQ RL 0.005	1	1	3/12/2025 9:07:36 AM
18	ZLLOQ RL 0.01	1	2	3/12/2025 9:14:13 AM
19	CCV	0	3	3/12/2025 9:29:40 AM
20	CCB	0	4	3/12/2025 9:36:00 AM
21	CCV	0	3	3/12/2025 9:42:40 AM
22	CCB	0	4	3/12/2025 9:48:59 AM
23	L2511531-06 WG2038644	1	3	3/12/2025 10:09:07 AM
24	L2511768-01 WG2038644	1	4	3/12/2025 10:15:47 AM
25	L2511769-01 WG2038644	1	5	3/12/2025 10:22:30 AM
26	L2512062-01 WG2038644	1	6	3/12/2025 10:30:16 AM
27	L2512201-01 WG2038644	1	7	3/12/2025 10:37:04 AM
28	L2512259-02 WG2038644	1	8	3/12/2025 10:43:43 AM
29	L2512259-04 WG2038644	1	9	3/12/2025 10:50:28 AM
30	L2512485-01 WG2038644	1	10	3/12/2025 10:57:13 AM
31	L2512485-02 WG2038644	1	11	3/12/2025 11:03:55 AM
32	L2512485-03 WG2038644	1	12	3/12/2025 11:10:39 AM
33	CCV	0	3	3/12/2025 11:17:22 AM
34	CCB	0	4	3/12/2025 11:23:42 AM
35	L2512486-01 WG2038644	1	13	3/12/2025 11:31:10 AM
36	L2512752-02 WG2038644	1	14	3/12/2025 11:37:48 AM
37	CCV	0	3	3/12/2025 11:44:29 AM
38	CCB	0	4	3/12/2025 11:50:49 AM
39	WG2038726-1 WG2038726	1	15	3/12/2025 12:11:26 PM
40	WG2038726-2 WG2038726	1	16	3/12/2025 12:28:57 PM
41	WG2038726-2 WG2038726	1	17	3/12/2025 12:35:12 PM
42	WG2038726-2 WG2038726	1	18	3/12/2025 12:41:50 PM
43	L2500778-40 WG2038726	1	19	3/12/2025 12:48:26 PM
44	WG2038726-3 WG2038726	1	20	3/12/2025 12:55:00 PM
45	WG2038726-4 WG2038726	1	21	3/12/2025 1:01:16 PM
46	WG2038726-5 WG2038726	1	22	3/12/2025 1:07:50 PM
47	CCV	0	3	3/12/2025 1:14:07 PM
48	CCB	0	4	3/12/2025 1:20:26 PM
49	NO EXPOSURE	1	25	3/12/2025 1:40:13 PM
50	WG2039059-1 WG2039059	1	25	3/12/2025 1:42:13 PM
51	WG2039059-2 WG2039059	1	26	3/12/2025 1:48:46 PM
52	WG2038726-6D5 WG2038726	1	23	3/12/2025 1:55:02 PM
53	L2511871-01 WG2038726	1	24	3/12/2025 2:01:37 PM
54	L2512368-10 WG2039059	1	27	3/12/2025 2:08:12 PM
55	WG2039059-3 WG2039059	1	28	3/12/2025 2:14:45 PM
56	WG2039059-4 WG2039059	1	29	3/12/2025 2:20:59 PM
57	WG2039059-5 WG2039059	1	30	3/12/2025 2:27:14 PM
58	WG2039059-6D5 WG2039059	1	31	3/12/2025 2:33:30 PM
59	CCV	0	3	3/12/2025 2:40:06 PM
60	CCB	0	4	3/12/2025 2:46:25 PM
61	L2512368-04 WG2039059	1	37	3/12/2025 3:09:34 PM
62	L2512368-05 WG2039059	1	38	3/12/2025 3:16:07 PM
63	L2512368-07 WG2039059	1	39	3/12/2025 3:22:40 PM
64	L2512368-08 WG2039059	1	40	3/12/2025 3:29:13 PM
65	L2512368-11 WG2039059	1	41	3/12/2025 3:35:46 PM
66	L2512368-01 WG2039059	1	32	3/12/2025 3:42:20 PM
67	WG2039059-7 WG2039059	1	33	3/12/2025 3:48:53 PM
68	WG2039059-8 WG2039059	1	34	3/12/2025 3:55:10 PM
69	WG2039059-9 WG2039059	1	35	3/12/2025 4:01:45 PM
70	WG2039059-10d5 WG2039059	1	36	3/12/2025 4:08:02 PM
71	CCV	0	3	3/12/2025 4:14:37 PM
72	CCB	0	4	3/12/2025 4:20:56 PM

Sequence Trace 6

3/13/2025 7:06:46 AM

Index:	Label:	Rack	Vial	Start time:
73	WG2037871-1 WG2037871	1	53	3/12/2025 4:33:48 PM
74	WG2037871-2d2 WG2037871	1	54	3/12/2025 4:40:25 PM
75	L2512075-01d2 WG2037871	1	55	3/12/2025 4:49:52 PM
76	WG2037871-3d2 WG2037871	1	56	3/12/2025 4:56:22 PM
77	WG2037871-4d2 WG2037871	1	57	3/12/2025 5:02:47 PM
78	WG2037871-5d2 WG2037871	1	58	3/12/2025 5:09:19 PM
79	WG2037871-6d10 WG2037871	1	59	3/12/2025 5:15:44 PM
80	L2512009-01d2 WG2037871	1	60	3/12/2025 5:22:12 PM
81	xno exposure	2	1	3/12/2025 5:29:06 PM
82	CCV	0	3	3/12/2025 5:35:35 PM
83	CCB	0	4	3/12/2025 5:41:55 PM
84	L2512075-07d2 WG2037871	2	1	3/12/2025 5:48:35 PM
85	L2512075-11d2 WG2037871	2	2	3/12/2025 5:55:09 PM
86	eL2512075-12d2 WG2037871	2	3	3/12/2025 6:01:41 PM
87	LDR 500 Fe fails	2	4	3/12/2025 6:08:13 PM
88	LDR 400 Fe fails	2	5	3/12/2025 6:19:59 PM
89	CCV	0	3	3/12/2025 6:30:06 PM
90	CCB	0	4	3/12/2025 6:36:26 PM
91	L2512075-01d4 WG2037871	2	6	3/12/2025 6:54:20 PM
92	WG2037871-3d4 WG2037871	2	7	3/12/2025 7:00:46 PM
93	WG2037871-4d4 WG2037871	2	8	3/12/2025 7:07:04 PM
94	WG2037871-5d4 WG2037871	2	9	3/12/2025 7:13:30 PM
95	WG2037871-6d20 WG2037871	2	10	3/12/2025 7:19:52 PM
96	L2512075-07d4 WG2037871	2	11	3/12/2025 7:26:24 PM
97	L2512075-11d4 WG2037871	2	12	3/12/2025 7:32:56 PM
98	L2512075-12d10 WG2037871	2	13	3/12/2025 7:39:21 PM
99	CCV	0	3	3/12/2025 7:45:47 PM
100	CCB	0	4	3/12/2025 7:52:06 PM
101	L2512368-13 WG2039059	1	42	3/12/2025 8:35:53 PM
102	L2512368-14 WG2039059	1	43	3/12/2025 8:42:26 PM
103	L2512368-16 WG2039059	1	44	3/12/2025 8:49:01 PM
104	L2512368-17 WG2039059	1	45	3/12/2025 8:55:35 PM
105	L2512368-19 WG2039059	1	46	3/12/2025 9:02:10 PM
106	L2512607-01 WG2039059	1	47	3/12/2025 9:08:46 PM
107	L2512607-02 WG2039059	1	48	3/12/2025 9:15:21 PM
108	L2512607-03 WG2039059	1	49	3/12/2025 9:21:57 PM
109	L2512607-04 WG2039059	1	50	3/12/2025 9:28:33 PM
110	L2512607-05 WG2039059	1	51	3/12/2025 9:35:06 PM
111	CCV	0	3	3/12/2025 9:41:40 PM
112	CCB	0	4	3/12/2025 9:48:00 PM
113	XWRONG SPOT	1	14	3/12/2025 9:54:39 PM
114	XWRONG SPOT	1	15	3/12/2025 10:01:21 PM
115	WG2039569-1 WG2039569	2	14	3/12/2025 10:10:24 PM
116	WG2039569-2 WG2039569	2	15	3/12/2025 10:17:03 PM
117	WG2039569-2 WG2039569	2	16	3/12/2025 10:23:24 PM
118	L2512805-01 WG2039569	2	17	3/12/2025 10:30:01 PM
119	WG2039569-3 WG2039569	2	18	3/12/2025 10:36:36 PM
120	WG2039569-4 WG2039569	2	19	3/12/2025 10:42:52 PM
121	WG2039569-5 WG2039569	2	20	3/12/2025 10:49:26 PM
122	WG2039569-6d5 WG2039569	2	21	3/12/2025 10:55:43 PM
123	CCV	0	3	3/12/2025 11:02:21 PM
124	CCB	0	4	3/12/2025 11:08:40 PM
125	L2512207-01 WG2039569	2	22	3/12/2025 11:15:20 PM
126	L2512805-02 WG2039569	2	23	3/12/2025 11:21:54 PM
127	L2512805-03 WG2039569	2	24	3/12/2025 11:28:29 PM
128	L2512805-04 WG2039569	2	25	3/12/2025 11:35:04 PM
129	CCV	0	3	3/12/2025 11:41:39 PM
130	CCB	0	4	3/12/2025 11:47:59 PM
131	CCV	0	3	3/12/2025 11:54:38 PM
132	CCB	0	4	3/13/2025 12:01:01 AM
133	LLOQ RL check	0	5	3/13/2025 12:07:41 AM

Sequence Trace 5

3/13/2025 10:58:52 AM

LabBook: WG2039392_03122025T5.imexp

Index:	Label:	Rack	Vial	Start time:
1	Blank DMC Trace5	0	1	3/12/2025 5:40:15 AM
2	ICAL	0	2	3/12/2025 5:46:41 AM
3	ICV	0	3	3/12/2025 5:52:43 AM
4	ICB	0	4	3/12/2025 5:58:50 AM
5	ICV	0	10	3/12/2025 6:09:22 AM
6	ICB	0	4	3/12/2025 6:15:31 AM
7	LLOQ RL	0	5	3/12/2025 6:21:57 AM
8	ICSA	0	6	3/12/2025 6:28:19 AM
9	SIC Multi	0	7	3/12/2025 6:50:29 AM
10	LDR Check	0	8	3/12/2025 6:57:18 AM
11	LLOQ 0.005 AS PASS	1	1	3/12/2025 7:22:46 AM
12	LLOQ 0.01 SE PASS	1	2	3/12/2025 7:29:08 AM
13	IEC 20PPM SN SB+	1	3	3/12/2025 7:35:29 AM
14	LDR 200PPM FE PASS	1	5	3/12/2025 7:41:52 AM
15	LDR 250PPM NA PASS	1	4	3/12/2025 7:48:21 AM
16	IEC 20PPM CR SB+	1	6	3/12/2025 7:54:54 AM
17	CCV	0	3	3/12/2025 8:33:31 AM
18	CCB	0	4	3/12/2025 8:39:37 AM
19	L2513465-01 WG2039008	1	26	3/12/2025 8:56:42 AM
20	eL2512350-01 WG2039008	1	25	3/12/2025 9:03:06 AM
21	L2512121-01 WG2039008	1	12	3/12/2025 9:09:26 AM
22	L2512121-02 WG2039008	1	13	3/12/2025 9:15:48 AM
23	L2512121-03 WG2039008	1	14	3/12/2025 9:22:06 AM
24	L2512167-03 WG2039008	1	7	3/12/2025 9:28:23 AM
25	WG2039008-7 WG2039008	1	8	3/12/2025 9:34:42 AM
26	WG2039008-8 WG2039008	1	9	3/12/2025 9:40:48 AM
27	WG2039008-9 WG2039008	1	10	3/12/2025 9:46:54 AM
28	WG2039008-10D5 WG2039008	1	11	3/12/2025 9:53:00 AM
29	CCV	0	3	3/12/2025 9:59:22 AM
30	CCB	0	4	3/12/2025 10:05:28 AM
31	L2512167-02 WG2039008	1	15	3/12/2025 10:21:29 AM
32	L2512167-04 WG2039008	1	16	3/12/2025 10:27:44 AM
33	L2512167-05 WG2039008	1	17	3/12/2025 10:34:01 AM
34	L2512167-06 WG2039008	1	18	3/12/2025 10:40:18 AM
35	L2512176-01 WG2039008	1	19	3/12/2025 10:46:33 AM
36	L2512176-02 WG2039008	1	20	3/12/2025 10:53:00 AM
37	L2512176-03 WG2039008	1	21	3/12/2025 10:59:25 AM
38	L2512176-04 WG2039008	1	22	3/12/2025 11:05:54 AM
39	L2512176-05 WG2039008	1	23	3/12/2025 11:12:21 AM
40	L2512176-06 WG2039008	1	24	3/12/2025 11:18:50 AM
41	CCV	0	3	3/12/2025 11:25:16 AM
42	CCB	0	4	3/12/2025 11:31:22 AM
43	L2512350-01d2 WG2039008	1	27	3/12/2025 11:37:48 AM
44	CCV	0	3	3/12/2025 11:44:00 AM
45	CCB	0	4	3/12/2025 11:50:05 AM
46	WG2038617-1 WG2038617	1	28	3/12/2025 1:00:59 PM
47	WG2038617-2d2 WG2038617	1	29	3/12/2025 1:07:20 PM
48	WG2038617-3d2 WG2038617	1	30	3/12/2025 1:13:23 PM
49	eL2510636-02 WG2036123	1	31	3/12/2025 1:20:19 PM
50	eL2510636-03 WG2036123	1	32	3/12/2025 1:26:47 PM
51	L2512325-05 WG2039056	1	43	3/12/2025 1:33:14 PM
52	L2512325-06 WG2039056	1	44	3/12/2025 1:39:34 PM
53	L2512325-07 WG2039056	1	45	3/12/2025 1:45:54 PM
54	L2512325-08 WG2039056	1	46	3/12/2025 1:52:14 PM
55	L2512325-09 WG2039056	1	47	3/12/2025 1:58:35 PM
56	CCV	0	3	3/12/2025 2:10:42 PM
57	CCB	0	4	3/12/2025 2:16:47 PM
58	WG2039056-1 WG2039056	1	33	3/12/2025 2:23:14 PM
59	WG2039056-2 WG2039056	1	34	3/12/2025 2:29:38 PM
60	L2512325-01 WG2039056	1	40	3/12/2025 2:35:45 PM
61	L2512325-03 WG2039056	1	41	3/12/2025 2:42:04 PM
62	L2512325-04 WG2039056	1	42	3/12/2025 2:48:23 PM
63	L2512325-02 WG2039056	1	35	3/12/2025 2:54:42 PM
64	WG2039056-3 WG2039056	1	36	3/12/2025 3:01:02 PM
65	WG2039056-4 WG2039056	1	37	3/12/2025 3:07:08 PM
66	WG2039056-5 WG2039056	1	38	3/12/2025 3:13:12 PM
67	WG2039056-6D5 WG2039056	1	39	3/12/2025 3:19:15 PM
68	CCV	0	3	3/12/2025 3:25:35 PM
69	CCB	0	4	3/12/2025 3:31:42 PM
70	WG2039065-1 WG2039065	1	50	3/12/2025 3:42:13 PM
71	WG2039065-2 WG2039065	1	51	3/12/2025 3:48:37 PM
72	WG2039065-3 WG2039065	1	52	3/12/2025 3:54:49 PM

Sequence Trace 5

3/13/2025 10:58:52 AM

Index:	Label:	Rack	Vial	Start time:
73	L2512018-01 WG2039065	1	53	3/12/2025 4:00:54 PM
74	L2510636-02D5 WG2036123	1	48	3/12/2025 4:07:16 PM
75	L2510636-03D5 WG2036123	1	49	3/12/2025 4:13:46 PM
76	xL2512069-04d2 WG2037739	1	56	3/12/2025 4:23:17 PM
77	L2512069-04d2 WG2037739	1	57	3/12/2025 4:24:11 PM
78	L2512166-01d2 WG2037739	1	58	3/12/2025 4:30:28 PM
79	CCV	0	3	3/12/2025 4:36:41 PM
80	XINSTRUEMNT ISSUE	0	4	3/12/2025 4:42:48 PM
81	CCB	0	4	3/12/2025 4:53:42 PM
82	zWG2038617-1 WG2038617	1	54	3/12/2025 5:11:52 PM
83	OB SCAN 2325-06 DIS	1	56	3/12/2025 5:18:32 PM
84	xwrong spot	1	57	3/12/2025 5:24:53 PM
85	CCV	0	3	3/12/2025 5:31:26 PM
86	CCB	0	4	3/12/2025 5:37:34 PM
87	OB SCAN 2325-06 TOT	1	55	3/12/2025 5:43:59 PM
88	WG2039428-1 WG2039428	1	59	3/12/2025 6:21:23 PM
89	WG2039428-2 WG2039428	1	60	3/12/2025 6:27:49 PM
90	L2512189-01 WG2039428	2	1	3/12/2025 6:33:56 PM
91	WG2039428-3 WG2039428	2	2	3/12/2025 6:40:17 PM
92	WG2039428-4 WG2039428	2	3	3/12/2025 6:46:21 PM
93	WG2039428-5 WG2039428	2	4	3/12/2025 6:52:41 PM
94	WG2039428-6d5 WG2039428	2	5	3/12/2025 6:58:46 PM
95	L2512189-02 WG2039428	2	6	3/12/2025 7:05:06 PM
96	L2512189-03 WG2039428	2	7	3/12/2025 7:11:25 PM
97	CCV	0	3	3/12/2025 7:17:41 PM
98	CCB	0	4	3/12/2025 7:23:49 PM
99	WG2039054-1 WG2039054	2	8	3/12/2025 7:37:31 PM
100	WG2039054-2 WG2039054	2	9	3/12/2025 7:43:57 PM
101	L2512368-10 WG2039054	2	10	3/12/2025 7:50:04 PM
102	WG2039054-3 WG2039054	2	11	3/12/2025 7:56:25 PM
103	WG2039054-4 WG2039054	2	12	3/12/2025 8:02:31 PM
104	WG2039054-5 WG2039054	2	13	3/12/2025 8:08:37 PM
105	WG2039054-6d5 WG2039054	2	14	3/12/2025 8:14:42 PM
106	L2512368-01 WG2039054	2	15	3/12/2025 8:21:03 PM
107	WG2039054-7 WG2039054	2	16	3/12/2025 8:27:23 PM
108	WG2039054-8 WG2039054	2	17	3/12/2025 8:33:28 PM
109	CCV	0	3	3/12/2025 8:39:48 PM
110	CCB	0	4	3/12/2025 8:45:55 PM
111	WG2039054-9 WG2039054	2	18	3/12/2025 8:53:06 PM
112	WG2039054-10d5 WG2039054	2	19	3/12/2025 8:59:10 PM
113	L2512368-02 WG2039054	2	20	3/12/2025 9:05:31 PM
114	L2512368-04 WG2039054	2	21	3/12/2025 9:11:52 PM
115	L2512368-05 WG2039054	2	22	3/12/2025 9:18:10 PM
116	L2512368-07 WG2039054	2	23	3/12/2025 9:24:29 PM
117	L2512368-08 WG2039054	2	24	3/12/2025 9:30:50 PM
118	L2512368-11 WG2039054	2	25	3/12/2025 9:37:12 PM
119	L2512368-13 WG2039054	2	26	3/12/2025 9:43:30 PM
120	L2512368-14 WG2039054	2	27	3/12/2025 9:49:51 PM
121	CCV	0	3	3/12/2025 9:56:12 PM
122	CCB	0	4	3/12/2025 10:02:20 PM
123	L2512368-16 WG2039054	2	28	3/12/2025 10:08:46 PM
124	L2512368-17 WG2039054	2	29	3/12/2025 10:15:05 PM
125	L2512368-19 WG2039054	2	30	3/12/2025 10:21:25 PM
126	L2512607-01 WG2039054	2	31	3/12/2025 10:27:45 PM
127	L2512607-02 WG2039054	2	32	3/12/2025 10:34:06 PM
128	L2512607-03 WG2039054	2	33	3/12/2025 10:40:27 PM
129	L2512607-04 WG2039054	2	34	3/12/2025 10:46:48 PM
130	L2512607-05 WG2039054	2	35	3/12/2025 10:53:10 PM
131	L2512607-06 WG2039054	2	36	3/12/2025 10:59:31 PM
132	CCV	0	3	3/12/2025 11:05:56 PM
133	CCB	0	4	3/12/2025 11:12:03 PM
134	CCV	0	10	3/12/2025 11:18:29 PM
135	CCB	0	4	3/12/2025 11:25:11 PM
136	LLOQ RL	0	5	3/12/2025 11:31:36 PM

Sequence Trace 9

3/13/2025 2:59:05 PM

LabBook: WG2039956_03132025T9.imexp

Summary

Index	Label	Rack	Vial	Started at
1	Blank JMF Trace9	0	1	3/13/2025 8:15:45 AM
2	ICAL	0	2	3/13/2025 8:19:25 AM
3	ICV	0	3	3/13/2025 8:22:51 AM
4	ICB	0	4	3/13/2025 8:26:18 AM
5	ICV	0	10	3/13/2025 8:29:46 AM
6	ICB	0	4	3/13/2025 8:33:17 AM
7	LLOQ	0	5	3/13/2025 8:41:45 AM
8	ICSA	0	6	3/13/2025 8:45:20 AM
9	SIC Multi	0	7	3/13/2025 8:50:50 AM
10	LDR Check	0	8	3/13/2025 8:55:23 AM
11	LLOQ 0.005ppm As	1	1	3/13/2025 9:30:48 AM
12	zLLOQ 0.01ppm	1	2	3/13/2025 9:34:26 AM
13	CCV	0	3	3/13/2025 9:49:03 AM
14	CCB	0	4	3/13/2025 9:52:43 AM
15	WG2039414-1 WG2039414	1	3	3/13/2025 10:12:16 AM
16	WG2039414-2 WG2039414	1	4	3/13/2025 10:15:48 AM
17	L2512967-01 WG2039414	1	30	3/13/2025 10:19:14 AM
18	L2513762-01 WG2039414	1	31	3/13/2025 10:22:40 AM
19	L2513762-02 WG2039414	1	32	3/13/2025 10:26:07 AM
20	L2512572-01 WG2039414	1	5	3/13/2025 10:29:35 AM
21	WG2039414-3 WG2039414	1	6	3/13/2025 10:33:01 AM
22	WG2039414-4 WG2039414	1	7	3/13/2025 10:36:28 AM
23	WG2039414-5 WG2039414	1	8	3/13/2025 10:39:55 AM
24	WG2039414-6D5 WG2039414	1	9	3/13/2025 10:43:23 AM
25	CCV	0	3	3/13/2025 10:46:51 AM
26	CCB	0	4	3/13/2025 10:50:18 AM
27	WG2039767-1 WG2039767	1	33	3/13/2025 11:19:02 AM
28	WG2039729-1 WG2039729	1	38	3/13/2025 11:22:45 AM
29	WG2039767-2 WG2039767	1	34	3/13/2025 11:26:11 AM
30	WG2039767-3 WG2039767	1	35	3/13/2025 11:29:39 AM
31	WG2039729-2 WG2039729	1	39	3/13/2025 11:33:07 AM
32	L2512663-01 WG2039767	1	36	3/13/2025 11:36:33 AM
33	L2513444-01 WG2039729	1	40	3/13/2025 11:40:01 AM
34	WG2039729-3 WG2039729	1	41	3/13/2025 11:43:28 AM
35	WG2039729-4 WG2039729	1	42	3/13/2025 11:46:54 AM
36	L2513238-01 WG2039729	1	43	3/13/2025 11:50:21 AM
37	CCV	0	3	3/13/2025 11:53:49 AM
38	CCB	0	4	3/13/2025 11:57:17 AM
39	L2512679-01 WG2039767	1	37	3/13/2025 12:04:05 PM
40	L2512572-03 WG2039414	1	15	3/13/2025 12:07:45 PM
41	L2512572-04 WG2039414	1	16	3/13/2025 12:11:12 PM
42	L2512572-05 WG2039414	1	17	3/13/2025 12:14:38 PM
43	L2512572-06 WG2039414	1	18	3/13/2025 12:18:05 PM
44	L2512572-02 WG2039414	1	10	3/13/2025 12:21:32 PM
45	WG2039414-7 WG2039414	1	11	3/13/2025 12:25:00 PM
46	WG2039414-8 WG2039414	1	12	3/13/2025 12:28:29 PM
47	WG2039414-9 WG2039414	1	13	3/13/2025 12:31:57 PM
48	WG2039414-10D5 WG2039414	1	14	3/13/2025 12:35:23 PM
49	CCV	0	3	3/13/2025 12:38:49 PM
50	CCB	0	4	3/13/2025 12:42:17 PM
51	L2512522-11 WG2038451	1	46	3/13/2025 12:57:11 PM
52	L2512607-06 WG2039059	1	45	3/13/2025 1:00:53 PM
53	L2512368-02 WG2039059	1	44	3/13/2025 1:04:21 PM
54	L2512625-01 WG2039414	1	20	3/13/2025 1:07:50 PM
55	L2512634-01 WG2039414	1	21	3/13/2025 1:11:17 PM
56	L2512637-01 WG2039414	1	22	3/13/2025 1:14:46 PM
57	xL2512598-01D2 WG2039414	1	19	3/13/2025 1:18:14 PM
58	L2512638-01 WG2039414	1	23	3/13/2025 1:21:41 PM
59	L2512647-01 WG2039414	1	25	3/13/2025 1:25:10 PM
60	L2512681-01 WG2039414	1	28	3/13/2025 1:28:36 PM
61	CCV	0	3	3/13/2025 1:32:02 PM
62	CCB	0	4	3/13/2025 1:35:30 PM
63	WG2039613-1 WG2039613	1	48	3/13/2025 2:03:00 PM
64	WG2039613-2 WG2039613	1	49	3/13/2025 2:06:45 PM
65	L2512644-01 WG2039414	1	24	3/13/2025 2:10:12 PM
66	L2512657-01 WG2039414	1	26	3/13/2025 2:13:41 PM
67	L2512678-01 WG2039414	1	27	3/13/2025 2:17:07 PM
68	L2512691-01 WG2039414	1	29	3/13/2025 2:20:33 PM

Sequence Trace 9

3/13/2025 2:59:05 PM

Index	Label	Rack	Vial	Started at
69	L2512598-01 WG2039414	1	47	3/13/2025 2:24:01 PM
70	L2512805-02 WG2039613	1	55	3/13/2025 2:27:29 PM
71	L2512805-03 WG2039613	1	56	3/13/2025 2:30:57 PM
72	L2512805-04 WG2039613	1	57	3/13/2025 2:34:25 PM
73	CCV	0	3	3/13/2025 2:37:53 PM
74	CCB	0	4	3/13/2025 2:41:21 PM
75	L2512805-01 WG2039613	1	50	
76	WG2039613-3 WG2039613	1	51	
77	WG2039613-4 WG2039613	1	52	
78	WG2039613-5 WG2039613	1	53	
79	WG2039613-6D5 WG2039613	1	54	
80	CCV	0	3	
81	CCB	0	4	
82		1	58	
83		1	59	
84	CCV	0	3	
85	CCB	0	4	
86	CCV	0	3	
87	CCB	0	4	
88	LLOQ	0	5	

METALS ELN REPORT

Workgroup: WG2039054

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 3005A	1:1 HNO3	tHNO3250821 81324AJT	1:1 HCl	tHCL251010 0813ARM	METALS	METSPIKE2	IPS,FPS,MIX	METSPIKE2	IPS,FPS,MIX	140, 326

Additional Reagent/Std

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol ml	Comments
L2512368-01 SAMP	03/11/25 12:59	Aidan Martin	NA	50	<2		03/11/25 12:59	10	95	03/11/25 15:59	50	
L2512368-02 SAMP	03/11/25 12:59	Aidan Martin	NA	50	<2		03/11/25 12:59	10	95	03/11/25 15:59	50	
L2512368-04 SAMP	03/11/25 12:59	Aidan Martin	NA	50	<2		03/11/25 12:59	10	95	03/11/25 15:59	50	
L2512368-05 SAMP	03/11/25 12:59	Aidan Martin	NA	50	<2		03/11/25 12:59	10	95	03/11/25 15:59	50	
L2512368-07 SAMP	03/11/25 12:59	Aidan Martin	NA	50	<2		03/11/25 12:59	10	95	03/11/25 15:59	50	
L2512368-08 SAMP	03/11/25 12:59	Aidan Martin	NA	50	<2		03/11/25 12:59	10	95	03/11/25 15:59	50	
L2512368-10 SAMP	03/11/25 12:59	Aidan Martin	NA	50	<2		03/11/25 12:59	10	95	03/11/25 15:59	50	
L2512368-11 SAMP	03/11/25 12:59	Aidan Martin	NA	50	<2		03/11/25 12:59	10	95	03/11/25 15:59	50	
L2512368-13 SAMP	03/11/25 12:59	Aidan Martin	NA	50	<2		03/11/25 12:59	10	95	03/11/25 15:59	50	
L2512368-14 SAMP	03/11/25 12:59	Aidan Martin	NA	50	<2		03/11/25 12:59	10	95	03/11/25 15:59	50	

Reported: 13-MAR-25 03:24 PM

METALS ELN REPORT

Workgroup: WG2039054

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol ml	Comments
L2512368-16 SAMP	03/11/25 12:59	Aidan Martin	NA	50	<2		03/11/25 12:59	10	95	03/11/25 15:59	50	
L2512368-17 SAMP	03/11/25 12:59	Aidan Martin	NA	50	<2		03/11/25 12:59	10	95	03/11/25 15:59	50	
L2512368-19 SAMP	03/11/25 12:59	Aidan Martin	NA	50	<2		03/11/25 12:59	10	95	03/11/25 15:59	50	
L2512607-01 SAMP	03/11/25 17:26	Maisie Mcqueen	NA	50	<2		03/11/25 17:26	10	95	03/11/25 20:26	50	
L2512607-02 SAMP	03/11/25 17:26	Maisie Mcqueen	NA	50	<2		03/11/25 17:26	10	95	03/11/25 20:26	50	
L2512607-03 SAMP	03/11/25 17:26	Maisie Mcqueen	NA	50	<2		03/11/25 17:26	10	95	03/11/25 20:26	50	
L2512607-04 SAMP	03/11/25 17:26	Maisie Mcqueen	NA	50	<2		03/11/25 17:26	10	95	03/11/25 20:26	50	
L2512607-05 SAMP	03/11/25 17:26	Maisie Mcqueen	NA	50	<2		03/11/25 17:26	10	95	03/11/25 20:26	50	
L2512607-06 SAMP	03/11/25 17:26	Maisie Mcqueen	NA	50	<2		03/11/25 17:26	10	95	03/11/25 20:26	50	
WG2039054-1 BLANK	03/11/25 12:59	Aidan Martin	NA	50	<2		03/11/25 12:59	10	95	03/11/25 15:59	50	ELN: ADG
WG2039054-2 LCS	03/11/25 12:59	Aidan Martin	NA	50	<2	0.5	03/11/25 12:59	10	95	03/11/25 15:59	50	IPS2507180833AJT
WG2039054-3 MS	03/11/25 12:59	Aidan Martin	NA	50	<2	0.5	03/11/25 12:59	10	95	03/11/25 15:59	50	

METALS ELN REPORT

Workgroup: WG2039054

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol ml	Comments
WG2039054-4 MSD	03/11/25 12:59	Aidan Martin	NA	50	<2	0.5	03/11/25 12:59	10	95	03/11/25 15:59	50	
WG2039054-5 PS	03/11/25 12:59	Aidan Martin	NA	50	<2		03/11/25 12:59	10	95	03/11/25 15:59	50	
WG2039054-6 SERDIL	03/11/25 12:59	Aidan Martin	NA	50	<2		03/11/25 12:59	10	95	03/11/25 15:59	50	
WG2039054-7 MS	03/11/25 12:59	Aidan Martin	NA	50	<2	0.5	03/11/25 12:59	10	95	03/11/25 15:59	50	
WG2039054-8 DUP	03/11/25 12:59	Aidan Martin	NA	50	<2		03/11/25 12:59	10	95	03/11/25 15:59	50	
WG2039054-9 PS	03/11/25 12:59	Aidan Martin	NA	50	<2		03/11/25 12:59	10	95	03/11/25 15:59	50	
WG2039054-10 SERDIL	03/11/25 12:59	Aidan Martin	NA	50	<2		03/11/25 12:59	10	95	03/11/25 15:59	50	FM2509051006 AJT

Reagent	Actual Volume	Units
1:1 Hydrochloric Acid (H	.5	ml
1:1 Nitric Acid (HNO3)	1	ml

Reported: 13-MAR-25 03:24 PM

METALS ELN REPORT

Workgroup: WG2039059

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 3005A	1:1 HNO3	tHNO3250908 60808ADG	1:1 HCl	tHCL250828 0920JDH	METALS	METSPIKE2	IPS,FPS,MIX	METSPIKE2	IPS,FPS,MIX	140, 326

Additional Reagent/Std

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2512368-01 SAMP	03/11/25 17:26	Maisie Mcqueen	50	<2		03/11/25 17:26	10	95.0	03/11/25 20:26	50	
L2512368-02 SAMP	03/11/25 17:26	Maisie Mcqueen	50	<2		03/11/25 17:26	10	95.0	03/11/25 20:26	50	
L2512368-04 SAMP	03/11/25 17:26	Maisie Mcqueen	50	<2		03/11/25 17:26	10	95.0	03/11/25 20:26	50	
L2512368-05 SAMP	03/11/25 17:26	Maisie Mcqueen	50	<2		03/11/25 17:26	10	95.0	03/11/25 20:26	50	
L2512368-07 SAMP	03/11/25 17:26	Maisie Mcqueen	50	<2		03/11/25 17:26	10	95.0	03/11/25 20:26	50	
L2512368-08 SAMP	03/11/25 17:26	Maisie Mcqueen	50	<2		03/11/25 17:26	10	95.0	03/11/25 20:26	50	
L2512368-10 SAMP	03/11/25 17:26	Maisie Mcqueen	50	<2		03/11/25 17:26	10	95.0	03/11/25 20:26	50	
L2512368-11 SAMP	03/11/25 17:26	Maisie Mcqueen	50	<2		03/11/25 17:26	10	95.0	03/11/25 20:26	50	
L2512368-13 SAMP	03/11/25 17:26	Maisie Mcqueen	50	<2		03/11/25 17:26	10	95.0	03/11/25 20:26	50	
L2512368-14 SAMP	03/11/25 17:26	Maisie Mcqueen	50	<2		03/11/25 17:26	10	95.0	03/11/25 20:26	50	

Reported: 13-MAR-25 03:24 PM

METALS ELN REPORT

Workgroup: WG2039059

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2512368-16 SAMP	03/11/25 17:26	Maisie Mcqueen	50	<2		03/11/25 17:26	10	95.0	03/11/25 20:26	50	
L2512368-17 SAMP	03/11/25 17:26	Maisie Mcqueen	50	<2		03/11/25 17:26	10	95.0	03/11/25 20:26	50	
L2512368-19 SAMP	03/11/25 17:26	Maisie Mcqueen	50	<2		03/11/25 17:26	10	95.0	03/11/25 20:26	50	
L2512607-01 SAMP	03/11/25 12:59	Maisie Mcqueen	50	<2		03/11/25 12:59	10	95.0	03/11/25 15:59	50	
L2512607-02 SAMP	03/11/25 12:59	Maisie Mcqueen	50	<2		03/11/25 12:59	10	95.0	03/11/25 15:59	50	
L2512607-03 SAMP	03/11/25 12:59	Maisie Mcqueen	50	<2		03/11/25 12:59	10	95.0	03/11/25 15:59	50	
L2512607-04 SAMP	03/11/25 12:59	Maisie Mcqueen	50	<2		03/11/25 12:59	10	95.0	03/11/25 15:59	50	
L2512607-05 SAMP	03/11/25 12:59	Maisie Mcqueen	50	<2		03/11/25 12:59	10	95.0	03/11/25 15:59	50	
L2512607-06 SAMP	03/11/25 12:59	Maisie Mcqueen	50	<2		03/11/25 12:59	10	95.0	03/11/25 15:59	50	
WG2039059-1 BLANK	03/11/25 17:26	Maisie Mcqueen	50	<2		03/11/25 17:26	10	95.0	03/11/25 20:26	50	FM2509051006 AJT
WG2039059-2 LCS	03/11/25 17:26	Maisie Mcqueen	50	<2	0.5	03/11/25 17:26	10	95.0	03/11/25 20:26	50	ELN: ndd
WG2039059-3 MS	03/11/25 17:26	Maisie Mcqueen	50	<2	0.5	03/11/25 17:26	10	95.0	03/11/25 20:26	50	

METALS ELN REPORT

Workgroup: WG2039059

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
WG2039059-4 MSD	03/11/25 17:26	Maisie Mcqueen	50	<2	0.5	03/11/25 17:26	10	95.0	03/11/25 20:26	50	
WG2039059-5 PS	03/11/25 17:26	Maisie Mcqueen	50	<2		03/11/25 17:26	10	95.0	03/11/25 20:26	50	
WG2039059-6 SERDIL	03/11/25 17:26	Maisie Mcqueen	50	<2		03/11/25 17:26	10	95.0	03/11/25 20:26	50	
WG2039059-7 MS	03/11/25 17:26	Maisie Mcqueen	50	<2	0.5	03/11/25 17:26	10	95.0	03/11/25 20:26	50	
WG2039059-8 DUP	03/11/25 17:26	Maisie Mcqueen	50	<2		03/11/25 17:26	10	95.0	03/11/25 20:26	50	
WG2039059-9 PS	03/11/25 17:26	Maisie Mcqueen	50	<2		03/11/25 17:26	10	95.0	03/11/25 20:26	50	
WG2039059-10 SERDIL	03/11/25 17:26	Maisie Mcqueen	50	<2		03/11/25 17:26	10	95.0	03/11/25 20:26	50	IPS2507180833AJT

Reagent	Actual Volume	Units
1:1 Hydrochloric Acid (H	.5	ml
1:1 Nitric Acid (HNO3)	1	ml

Inorganic Data
(Mercury Analysis)

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-01	**Date Collected**	: 03/06/25 10:30
Client ID	: MW-4S	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/12/25 11:09
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: CME
Lab File ID	: WG2039402.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 03/11/25

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

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-02	**Date Collected**	: 03/06/25 10:24
Client ID	: MW-4D2	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/12/25 11:12
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: CME
Lab File ID	: WG2039402.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 03/11/25

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

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-03	**Date Collected**	: 03/06/25 09:13
Client ID	: MW-12S	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/12/25 11:22
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: CME
Lab File ID	: WG2039402.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 03/11/25

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

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-04	**Date Collected**	: 03/06/25 08:46
Client ID	: MW-12D	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/12/25 11:25
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: CME
Lab File ID	: WG2039402.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 03/11/25

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

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-05	**Date Collected**	: 03/06/25 11:51
Client ID	: SCDOH_DR	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/12/25 11:29
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: CME
Lab File ID	: WG2039402.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 03/11/25

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

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-06	**Date Collected**	: 03/06/25 12:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/12/25 11:32
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: CME
Lab File ID	: WG2039402.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 03/11/25

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

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2039060-1	**Date Collected**	: NA
Client ID	: WG2039060-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/12/25 09:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: CME
Lab File ID	: WG2039402.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 03/11/25

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

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2039060-6	**Date Collected**	: 03/05/25 11:25
Client ID	: WG2039060-6 DUP	**Date Received**	: 03/05/25
Sample Location	:	**Date Analyzed**	: 03/12/25 10:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: CME
Lab File ID	: WG2039402.pdf	**Instrument ID**	: NIC3
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 03/11/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.0001	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-01	**Date Collected**	: 03/06/25 10:30
Client ID	: MW-4S	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/12/25 12:45
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG2039404.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 03/11/25

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

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-02	**Date Collected**	: 03/06/25 10:24
Client ID	: MW-4D2	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/12/25 12:48
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG2039404.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 03/11/25

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

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-03	**Date Collected**	: 03/06/25 09:13
Client ID	: MW-12S	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/12/25 12:51
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG2039404.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 03/11/25

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

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-04	**Date Collected**	: 03/06/25 08:46
Client ID	: MW-12D	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/12/25 12:55
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG2039404.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 03/11/25

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

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-05	**Date Collected**	: 03/06/25 11:51
Client ID	: SCDOH_DR	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/12/25 12:58
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG2039404.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 03/11/25

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

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-06	**Date Collected**	: 03/06/25 12:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/12/25 13:01
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG2039404.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 03/11/25

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

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2039058-1	**Date Collected**	: NA
Client ID	: WG2039058-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/12/25 11:29
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG2039404.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 03/11/25

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

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2039058-6	**Date Collected**	: 03/05/25 11:25
Client ID	: WG2039058-6 DUP	**Date Received**	: 03/05/25
Sample Location	:	**Date Analyzed**	: 03/12/25 11:58
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG2039404.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 03/11/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.0001	U

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1939519-1			R1939519-3			R1939519-5		R1939519-7	
Date Analyzed :	03/12/25 06:38			03/12/25 07:29			03/12/25 08:08		03/12/25 08:48	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury	0.00300	0.0029	97	0.0050	0.00500	100	0.00500	100	0.00500	101

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1939519-9			R1939519-11		R1939519-13	
Date Analyzed :				03/12/25 09:56			03/12/25 10:36		03/12/25 11:15	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				0.0050	0.00490	98	0.00500	100	0.00500	101

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1939519-15						
Date Analyzed :				03/12/25 11:55						
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				0.0050	0.00510	102				

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC2	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1939524-1			R1939524-3			R1939524-5		R1939524-7	
Date Analyzed :	03/12/25 06:48			03/12/25 07:53			03/12/25 08:33		03/12/25 10:02	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury	0.00300	0.0029	95	0.0050	0.00510	101	0.00510	102	0.00510	101

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC2	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1939524-9			R1939524-11		R1939524-13	
Date Analyzed :				03/12/25 11:05			03/12/25 11:45		03/12/25 12:25	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				0.0050	0.00500	100	0.00510	101	0.00510	101

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC2	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1939524-15						
Date Analyzed :				03/12/25 13:05						
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				0.0050	0.00500	100				

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3		

		Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID	:	R1939519-2		R1939519-4		R1939519-6		R1939519-8		WG2039060-1	
Date Analyzed	:	03/12/25 06:41		03/12/25 07:32		03/12/25 08:12		03/12/25 08:52		03/12/25 09:53	
Parameter		mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Mercury		0.0000910	U	0.0000910	U	0.0000910	U	0.0000910	U	0.00009	U

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1939519-10		R1939519-12		R1939519-14			
Date Analyzed :			03/12/25 09:59		03/12/25 10:39		03/12/25 11:19			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Mercury			0.0000910	U	0.0000910	U	0.0000910	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1939519-16							
Date Analyzed :			03/12/25 11:59							
Parameter	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**		**Q**
Mercury			0.0000910	U						

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC2		

	Initial Calibration Blank	Continuing Calibration Blank(s)			Preparation Blank
Lab ID :	R1939524-2	R1939524-4	R1939524-6	R1939524-8	WG2039058-1
Date Analyzed :	03/12/25 06:51	03/12/25 07:57	03/12/25 08:36	03/12/25 10:05	03/12/25 11:29

Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Mercury	0.0000910	U	0.0000910	U	0.0000910	U	0.0000910	U	0.00009	U

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC2		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1939524-10		R1939524-12		R1939524-14			
Date Analyzed :			03/12/25 11:09		03/12/25 11:49		03/12/25 12:28			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Mercury			0.0000910	U	0.0000910	U	0.0000910	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC2		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID	:		R1939524-16							
Date Analyzed	:		03/12/25 13:08							
Parameter	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**		**Q**
Mercury			0.0000910	U						

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2512368-10		
Matrix Spike	: WG2039060-3	**MS Analysis Date**	: 03/12/25 10:09
Matrix Spike Dup	: WG2039060-4	**MSD Analysis Date**	: 03/12/25 10:13

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Mercury, Total	ND	0.005	0.00470	94	0.005	0.00458	92	3	70-130	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2512368-02		
Matrix Spike	: WG2039060-5	**MS Analysis Date**	: 03/12/25 10:19
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	**Sample Conc. (mg/l)**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Mercury, Total	**ND**	**0.005**	**0.00463**	**93**					**70-130**	**20**

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2512368-10		
Matrix Spike	: WG2039058-3	**MS Analysis Date**	: 03/12/25 11:39
Matrix Spike Dup	: WG2039058-4	**MSD Analysis Date**	: 03/12/25 11:42

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	**Sample Conc. (mg/l)**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Mercury, Dissolved	**ND**	**0.005**	**0.00492**	**98**	**0.005**	**0.00480**	**96**	**2**	**75-125**	**20**

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2512368-02		
Matrix Spike	: WG2039058-5	**MS Analysis Date**	: 03/12/25 11:55
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	**Sample Conc. (mg/l)**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Mercury, Dissolved	**ND**	**0.005**	**0.00406**	**81**					**75-125**	**20**

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 03/12/25 10:16
Dup Sample ID	: WG2039060-6	**DUP Analysis Date**	: 03/12/25 10:23

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Mercury, Total	ND	ND	NC	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 03/12/25 11:52
Dup Sample ID	: WG2039058-6	**DUP Analysis Date**	: 03/12/25 11:58

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Mercury, Dissolved	ND	ND	NC	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2039060-2	**LCS Analysis Date**	: 03/12/25 10:03
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Mercury, Total	**0.00100**	**0.000930**	**94.**					**85-115**	**20**

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2039058-2	**LCS Analysis Date**	: 03/12/25 11:32
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/l)	(mg/l)		(mg/l)	(mg/l)			Limits	Limit
Mercury, Dissolved	0.00100	0.000930	94.					85-115	20

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 245.1

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2512607-01	03/11/25 12:04	-	25
L2512607-02	03/11/25 12:04	-	25
L2512607-03	03/11/25 12:04	-	25
L2512607-04	03/11/25 12:04	-	25
L2512607-05	03/11/25 12:04	-	25
L2512607-06	03/11/25 12:04	-	25
WG2039060-1	03/11/25 20:37	-	25
WG2039060-2	03/11/25 20:37	-	25
WG2039060-3	03/11/25 20:37	-	25
WG2039060-4	03/11/25 20:37	-	25
WG2039060-5	03/11/25 20:37	-	25
WG2039060-6	03/11/25 20:37	-	25

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 245.1

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2512607-01	03/11/25 20:37	-	25
L2512607-02	03/11/25 20:37	-	25
L2512607-03	03/11/25 20:37	-	25
L2512607-04	03/11/25 20:37	-	25
L2512607-05	03/11/25 20:37	-	25
L2512607-06	03/11/25 20:37	-	25
WG2039058-1	03/11/25 12:04	-	25
WG2039058-2	03/11/25 12:04	-	25
WG2039058-3	03/11/25 12:04	-	25
WG2039058-4	03/11/25 12:04	-	25
WG2039058-5	03/11/25 12:04	-	25
WG2039058-6	03/11/25 12:04	-	25

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Analysis Method**	: 3,245.1
Start Date	: 03/12/25 06:38	**End Date**	: 03/12/25 11:59

Sample Number	Dilution Factor	Analysis Time	Mercury, Total
R1939519-1 ICV	1	06:38:12	X
R1939519-2 ICB	1	06:41:32	X
R1939519-3 CCV	1	07:29:15	X
R1939519-4 CCB	1	07:32:35	X
R1939519-5 CCV	1	08:08:55	X
R1939519-6 CCB	1	08:12:13	X
R1939519-7 CCV	1	08:48:48	X
R1939519-8 CCB	1	08:52:06	X
WG2039060-1 BLANK	1	09:53:18	X
R1939519-9 CCV	1	09:56:36	X
R1939519-10 CCB	1	09:59:53	X
WG2039060-2 LCS	1	10:03:11	X
WG2039060-3 MS	1	10:09:47	X
WG2039060-4 MSD	1	10:13:05	X
WG2039060-5 MS	1	10:19:44	X
WG2039060-6 DUP	1	10:23:02	X
R1939519-11 CCV	1	10:36:14	X
R1939519-12 CCB	1	10:39:32	X
L2512607-01	1	11:09:15	X
L2512607-02	1	11:12:33	X
R1939519-13 CCV	1	11:15:51	X
R1939519-14 CCB	1	11:19:09	X
L2512607-03	1	11:22:30	X
L2512607-04	1	11:25:49	X
L2512607-05	1	11:29:09	X
L2512607-06	1	11:32:28	X
R1939519-15 CCV	1	11:55:47	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC3	**Analysis Method**	: 3,245.1
Start Date	: 03/12/25 06:38	**End Date**	: 03/12/25 11:59

Sample Number	Dilution Factor	Analysis Time	Mercury, Total
R1939519-16 CCB	1	11:59:07	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC2	**Analysis Method**	: 3,245.1
Start Date	: 03/12/25 06:48	**End Date**	: 03/12/25 13:08

Sample Number	Dilution Factor	Analysis Time	Mercury, Dissolved
R1939524-1 ICV	1	06:48:13	X
R1939524-2 ICB	1	06:51:33	X
R1939524-3 CCV	1	07:53:51	X
R1939524-4 CCB	1	07:57:11	X
R1939524-5 CCV	1	08:33:32	X
R1939524-6 CCB	1	08:36:49	X
R1939524-7 CCV	1	10:02:11	X
R1939524-8 CCB	1	10:05:27	X
R1939524-9 CCV	1	11:05:54	X
R1939524-10 CCB	1	11:09:12	X
WG2039058-1 BLANK	1	11:29:14	X
WG2039058-2 LCS	1	11:32:32	X
WG2039058-3 MS	1	11:39:08	X
WG2039058-4 MSD	1	11:42:25	X
R1939524-11 CCV	1	11:45:44	X
R1939524-12 CCB	1	11:49:00	X
WG2039058-5 MS	1	11:55:36	X
WG2039058-6 DUP	1	11:58:54	X
R1939524-13 CCV	1	12:25:17	X
R1939524-14 CCB	1	12:28:34	X
L2512607-01	1	12:45:12	X
L2512607-02	1	12:48:32	X
L2512607-03	1	12:51:52	X
L2512607-04	1	12:55:11	X
L2512607-05	1	12:58:29	X
L2512607-06	1	13:01:51	X
R1939524-15 CCV	1	13:05:11	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC2	**Analysis Method**	: 3,245.1
Start Date	: 03/12/25 06:48	**End Date**	: 03/12/25 13:08

Sample Number	Dilution Factor	Analysis Time	Mercury, Dissolved
R1939524-16 CCB	1	13:08:30	X

Date Created: 03/19/18
Created By: Jason Hebert
File: PM4631-1
Page: 1

MERCURY by 7470A, 245.1 (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.0002	0.0000915	mg/l	80-120	20	75-125	20	20		28 days	1 - Plastic 500ml HNO3 preserved

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

Date Created: 01/22/21
Created By: Jason Hebert
File: PM9836-1
Page: 1

METALS by 7470A (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.0002	0.0000915	mg/l	80-120		75-125	20	20		28 days	1 - Plastic 500ml HNO3 preserved

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

Date Created: 01/22/21
Created By: Jason Hebert
File: PM9837-1
Page: 1

METALS by 7471B (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.08	0.05216	mg/kg	72-128		80-120	20	20		28 days	Metals Only-Glass 60mL/2oz unpreserv

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

Title :
Date : 3/12/2025
Name :

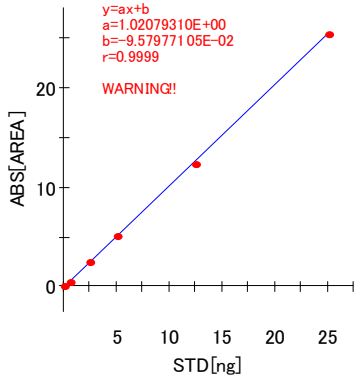
Method

STD
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

SMP
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

Measurement Time(sec) : 120sec

Calib



STD

No.	STD [ug/L]	SVOL [mL]	CVOL [mL]	DVOL [mL]	STD [ng]	AREA [ON]	MEAS [ng]	Dev [%]	M. TIME	Note
1	0.000	2.500	2.500	2.500	0.000	-0.0025	0.0910	-	03/12/2025 06:20	JWN,NIC2
2	0.200	2.500	2.500	2.500	0.500	0.5031	0.5867	17.3	03/12/2025 06:24	JWN,NIC2
3	1.000	2.500	2.500	2.500	2.500	2.4023	2.4472	2.1	03/12/2025 06:27	JWN,NIC2
4	2.000	2.500	2.500	2.500	5.000	5.0262	5.0177	0.4	03/12/2025 06:30	JWN,NIC2
5	5.000	2.500	2.500	2.500	12.500	12.3730	12.2148	2.3	03/12/2025 06:34	JWN,NIC2
6	10.000	2.500	2.500	2.500	25.000	25.5696	25.1426	0.6	03/12/2025 06:37	JWN,NIC2

SMP

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
1	ICV	2.500	2.500	2.500	7.2055	7.1526	2.861	-	03/12/2025 06:48	JWN,NIC2
2	ICB	2.500	2.500	2.500	0.0006	0.0944	0.038	-	03/12/2025 06:51	JWN,NIC2
3	WG2039137-1 WG2039137	2.500	2.500	2.500	-0.0066	0.0874	0.035	-	03/12/2025 07:20	JWN,NIC2
4	WG2039137-2 WG2039137	2.500	2.500	2.500	2.4079	2.4527	0.981	-	03/12/2025 07:23	JWN,NIC2
5	L2512193-03 WG2039137	2.500	2.500	2.500	-0.0004	0.0935	0.037	-	03/12/2025 07:27	JWN,NIC2
6	WG2039137-3 WG2039137	2.500	2.500	2.500	11.8416	11.6942	4.678	-	03/12/2025 07:30	JWN,NIC2

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
7	WG2039137-4 WG2039137	2.500	2.500	2.500	0.0039	0.0977	0.039	-	03/12/2025 07:33	JWN,NIC2
8	L2512193-04 WG2039137	2.500	2.500	2.500	0.0111	0.1047	0.042	-	03/12/2025 07:37	JWN,NIC2
9	WG2039137-5 WG2039137	2.500	2.500	2.500	12.9162	12.7469	5.099	-	03/12/2025 07:40	JWN,NIC2
10	WG2039137-6 WG2039137	2.500	2.500	2.500	0.0178	0.1113	0.045	-	03/12/2025 07:43	JWN,NIC2
11	L2512193-01 WG2039137	2.500	2.500	2.500	0.0203	0.1137	0.045	-	03/12/2025 07:47	JWN,NIC2
12	L2512193-02 WG2039137	2.500	2.500	2.500	0.0199	0.1133	0.045	-	03/12/2025 07:50	JWN,NIC2
13	Check STD(5ug/L)	2.500	2.500	2.500	12.8086	12.6415	5.057	101.1	03/12/2025 07:53	JWN,NIC2
14	Check Blank	2.500	2.500	2.500	-0.0004	0.0935	0.037	-	03/12/2025 07:57	JWN,NIC2
15	L2512193-05 WG2039137	2.500	2.500	2.500	0.0213	0.1147	0.046	-	03/12/2025 08:00	JWN,NIC2
16	L2512193-06 WG2039137	2.500	2.500	2.500	0.0114	0.1050	0.042	-	03/12/2025 08:03	JWN,NIC2
17	L2512193-07 WG2039137	2.500	2.500	2.500	0.0067	0.1004	0.040	-	03/12/2025 08:07	JWN,NIC2
18	L2512193-08 WG2039137	2.500	2.500	2.500	0.0041	0.0979	0.039	-	03/12/2025 08:10	JWN,NIC2
19	L2512193-09 WG2039137	2.500	2.500	2.500	0.0005	0.0943	0.038	-	03/12/2025 08:13	JWN,NIC2
20	L2512193-10 WG2039137	2.500	2.500	2.500	0.0002	0.0940	0.038	-	03/12/2025 08:17	JWN,NIC2
21	L2512193-11 WG2039137	2.500	2.500	2.500	0.0006	0.0944	0.038	-	03/12/2025 08:20	JWN,NIC2
22	L2512193-12 WG2039137	2.500	2.500	2.500	0.0025	0.0963	0.039	-	03/12/2025 08:23	JWN,NIC2
23	L2512193-13 WG2039137	2.500	2.500	2.500	-0.0011	0.0928	0.037	-	03/12/2025 08:26	JWN,NIC2
24	L2512193-14 WG2039137	2.500	2.500	2.500	0.0040	0.0978	0.039	-	03/12/2025 08:30	JWN,NIC2
25	Check STD(5ug/L)	2.500	2.500	2.500	12.9024	12.7334	5.093	101.9	03/12/2025 08:33	JWN,NIC2
26	Check Blank	2.500	2.500	2.500	-0.0021	0.0918	0.037	-	03/12/2025 08:36	JWN,NIC2
27	L2512193-15 WG2039137	2.500	2.500	2.500	0.0119	0.1055	0.042	-	03/12/2025 08:40	JWN,NIC2
28	L2512193-16 WG2039137	2.500	2.500	2.500	0.0032	0.0970	0.039	-	03/12/2025 08:43	JWN,NIC2
29	WG2039159-1 WG2039159	2.500	2.500	2.500	-0.0085	0.0855	0.034	-	03/12/2025 09:35	JWN,NIC2
30	WG2039159-2 WG2039159	2.500	2.500	2.500	2.2046	2.2535	0.901	-	03/12/2025 09:39	JWN,NIC2
31	L2512325-02 WG2039159	2.500	2.500	2.500	2.5655	2.6071	1.043	-	03/12/2025 09:42	JWN,NIC2
32	WG2039159-3 WG2039159	2.500	2.500	2.500	13.6233	13.4396	5.376	-	03/12/2025 09:45	JWN,NIC2
33	WG2039159-4 WG2039159	2.500	2.500	2.500	13.8504	13.6621	5.465	-	03/12/2025 09:48	JWN,NIC2
34	L2510781-02 WG2039159	2.500	2.500	2.500	-0.0037	0.0902	0.036	-	03/12/2025 09:52	JWN,NIC2
35	L2512325-01 WG2039159	2.500	2.500	2.500	-0.0056	0.0884	0.035	-	03/12/2025 09:55	JWN,NIC2
36	L2512325-03 WG2039159	2.500	2.500	2.500	-0.0036	0.0903	0.036	-	03/12/2025 09:58	JWN,NIC2
37	Check STD(5ug/L)	2.500	2.500	2.500	12.8236	12.6562	5.062	101.2	03/12/2025 10:02	JWN,NIC2
38	Check Blank	2.500	2.500	2.500	-0.0008	0.0931	0.037	-	03/12/2025 10:05	JWN,NIC2

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
39	L2512325-04 WG2039159	2.500	2.500	2.500	-0.0005	0.0934	0.037	-	03/12/2025 10:08	JWN,NIC2
40	L2512325-05 WG2039159	2.500	2.500	2.500	-0.0038	0.0901	0.036	-	03/12/2025 10:12	JWN,NIC2
41	L2512325-06 WG2039159	2.500	2.500	2.500	-0.0042	0.0897	0.036	-	03/12/2025 10:15	JWN,NIC2
42	L2512325-07 WG2039159	2.500	2.500	2.500	-0.0004	0.0935	0.037	-	03/12/2025 10:18	JWN,NIC2
43	L2512325-08 WG2039159	2.500	2.500	2.500	-0.0065	0.0875	0.035	-	03/12/2025 10:21	JWN,NIC2
44	L2512325-09 WG2039159	2.500	2.500	2.500	2.5576	2.5993	1.040	-	03/12/2025 10:25	JWN,NIC2
45	WG2039055-1 WG2039055	2.500	2.500	2.500	-0.0075	0.0865	0.035	-	03/12/2025 10:52	JWN,NIC2
46	WG2039055-2 WG2039055	2.500	2.500	2.500	2.3674	2.4130	0.965	-	03/12/2025 10:55	JWN,NIC2
47	L2512256-05 WG2039055	2.500	2.500	2.500	0.0021	0.0959	0.038	-	03/12/2025 10:59	JWN,NIC2
48	WG2039055-3 WG2039055	2.500	2.500	2.500	12.0023	11.8517	4.741	-	03/12/2025 11:02	JWN,NIC2
49	Check STD(5ug/L)	2.500	2.500	2.500	12.6989	12.5341	5.014	100.3	03/12/2025 11:05	JWN,NIC2
50	Check Blank	2.500	2.500	2.500	-0.0033	0.0906	0.036	-	03/12/2025 11:09	JWN,NIC2
51	WG2039055-4 WG2039055	2.500	2.500	2.500	-0.0040	0.0899	0.036	-	03/12/2025 11:12	JWN,NIC2
52	L2512256-01 WG2039055	2.500	2.500	2.500	-0.0040	0.0899	0.036	-	03/12/2025 11:15	JWN,NIC2
53	L2512256-02 WG2039055	2.500	2.500	2.500	0.0037	0.0975	0.039	-	03/12/2025 11:19	JWN,NIC2
54	L2512256-03 WG2039055	2.500	2.500	2.500	-0.0059	0.0881	0.035	-	03/12/2025 11:22	JWN,NIC2
55	L2512256-04 WG2039055	2.500	2.500	2.500	-0.0046	0.0893	0.036	-	03/12/2025 11:25	JWN,NIC2
56	WG2039058-1 WG2039058	2.500	2.500	2.500	-0.0120	0.0821	0.033	-	03/12/2025 11:29	JWN,NIC2
57	WG2039058-2 WG2039058	2.500	2.500	2.500	2.2948	2.3419	0.937	-	03/12/2025 11:32	JWN,NIC2
58	L2512368-10 WG2039058	2.500	2.500	2.500	0.0018	0.0956	0.038	-	03/12/2025 11:35	JWN,NIC2
59	WG2039058-3 WG2039058	2.500	2.500	2.500	12.4656	12.3055	4.922	-	03/12/2025 11:39	JWN,NIC2
60	WG2039058-4 WG2039058	2.500	2.500	2.500	12.1592	12.0054	4.802	-	03/12/2025 11:42	JWN,NIC2
61	Check STD(5ug/L)	2.500	2.500	2.500	12.8240	12.6566	5.063	101.3	03/12/2025 11:45	JWN,NIC2
62	Check Blank	2.500	2.500	2.500	-0.0044	0.0895	0.036	-	03/12/2025 11:49	JWN,NIC2
63	L2512368-02 WG2039058	2.500	2.500	2.500	0.0061	0.0998	0.040	-	03/12/2025 11:52	JWN,NIC2
64	WG2039058-5 WG2039058	2.500	2.500	2.500	10.2678	10.1525	4.061	-	03/12/2025 11:55	JWN,NIC2
65	WG2039058-6 WG2039058	2.500	2.500	2.500	-0.0011	0.0928	0.037	-	03/12/2025 11:58	JWN,NIC2
66	L2512368-01 WG2039058	2.500	2.500	2.500	-0.0077	0.0863	0.035	-	03/12/2025 12:02	JWN,NIC2
67	L2512368-04 WG2039058	2.500	2.500	2.500	-0.0074	0.0866	0.035	-	03/12/2025 12:05	JWN,NIC2
68	L2512368-05 WG2039058	2.500	2.500	2.500	-0.0007	0.0932	0.037	-	03/12/2025 12:08	JWN,NIC2
69	L2512368-07 WG2039058	2.500	2.500	2.500	-0.0033	0.0906	0.036	-	03/12/2025 12:12	JWN,NIC2
70	L2512368-08 WG2039058	2.500	2.500	2.500	-0.0079	0.0861	0.034	-	03/12/2025 12:15	JWN,NIC2

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
71	L2512368-11 WG2039058	2.500	2.500	2.500	-0.0102	0.0839	0.034	-	03/12/2025 12:18	JWN,NIC2
72	L2512368-13 WG2039058	2.500	2.500	2.500	-0.0057	0.0883	0.035	-	03/12/2025 12:21	JWN,NIC2
73	Check STD(5ug/L)	2.500	2.500	2.500	12.8209	12.6536	5.061	101.2	03/12/2025 12:25	JWN,NIC2
74	Check Blank	2.500	2.500	2.500	-0.0123	0.0818	0.033	-	03/12/2025 12:28	JWN,NIC2
75	L2512368-14 WG2039058	2.500	2.500	2.500	-0.0119	0.0822	0.033	-	03/12/2025 12:31	JWN,NIC2
76	L2512368-16 WG2039058	2.500	2.500	2.500	-0.0124	0.0817	0.033	-	03/12/2025 12:35	JWN,NIC2
77	L2512368-17 WG2039058	2.500	2.500	2.500	-0.0139	0.0802	0.032	-	03/12/2025 12:38	JWN,NIC2
78	L2512368-19 WG2039058	2.500	2.500	2.500	-0.0130	0.0811	0.032	-	03/12/2025 12:41	JWN,NIC2
79	L2512607-01 WG2039058	2.500	2.500	2.500	-0.0170	0.0772	0.031	-	03/12/2025 12:45	JWN,NIC2
80	L2512607-02 WG2039058	2.500	2.500	2.500	-0.0145	0.0796	0.032	-	03/12/2025 12:48	JWN,NIC2
81	L2512607-03 WG2039058	2.500	2.500	2.500	-0.0140	0.0801	0.032	-	03/12/2025 12:51	JWN,NIC2
82	L2512607-04 WG2039058	2.500	2.500	2.500	-0.0189	0.0753	0.030	-	03/12/2025 12:55	JWN,NIC2
83	L2512607-05 WG2039058	2.500	2.500	2.500	-0.0171	0.0771	0.031	-	03/12/2025 12:58	JWN,NIC2
84	L2512607-06 WG2039058	2.500	2.500	2.500	-0.0152	0.0790	0.032	-	03/12/2025 13:01	JWN,NIC2
85	Check STD(5ug/L)	2.500	2.500	2.500	12.7124	12.5473	5.019	100.4	03/12/2025 13:05	JWN,NIC2
86	Check Blank	2.500	2.500	2.500	-0.0141	0.0800	0.032	-	03/12/2025 13:08	JWN,NIC2
87	WG2039480-1 WG2039480	2.500	2.500	2.500	-0.0223	0.0720	0.029	-	03/12/2025 13:14	JWN,NIC2
88	WG2039480-2 WG2039480	2.500	2.500	2.500	2.4539	2.4978	0.999	-	03/12/2025 13:17	JWN,NIC2
89	L2512180-01 WG2039480	2.500	2.500	2.500	-0.0167	0.0775	0.031	-	03/12/2025 13:20	JWN,NIC2
90	WG2039480-3 WG2039480	2.500	2.500	2.500	12.1836	12.0293	4.812	-	03/12/2025 13:23	JWN,NIC2
91	WG2039480-4 WG2039480	2.500	2.500	2.500	-0.0185	0.0757	0.030	-	03/12/2025 13:27	JWN,NIC2
92	WG2039339-1 WG2039339	2.500	2.500	2.500	-0.0200	0.0743	0.030	-	03/12/2025 13:30	JWN,NIC2
93	WG2039339-2 WG2039339	2.500	2.500	2.500	2.4217	2.4662	0.986	-	03/12/2025 13:33	JWN,NIC2
94	I2512267-01 WG2039339	2.500	2.500	2.500	0.7021	0.7816	0.313	-	03/12/2025 13:37	JWN,NIC2
95	WG2039339-3 WG2039339	2.500	2.500	2.500	12.7385	12.5729	5.029	-	03/12/2025 13:40	JWN,NIC2
96	WG2039339-4 WG2039339	2.500	2.500	2.500	0.6030	0.6846	0.274	-	03/12/2025 13:43	JWN,NIC2
97	Check STD(5ug/L)	2.500	2.500	2.500	12.7177	12.5525	5.021	100.4	03/12/2025 13:47	JWN,NIC2
98	Check Blank	2.500	2.500	2.500	-0.0136	0.0805	0.032	-	03/12/2025 13:50	JWN,NIC2
99	I2512182-01 WG2039339	2.500	2.500	2.500	0.0205	0.1139	0.046	-	03/12/2025 13:53	JWN,NIC2
100	I2512248-01 WG2039339	2.500	2.500	2.500	0.0046	0.0984	0.039	-	03/12/2025 13:57	JWN,NIC2
101	I2512261-01 WG2039339	2.500	2.500	2.500	0.2570	0.3456	0.138	-	03/12/2025 14:00	JWN,NIC2
102	I2512265-01 WG2039339	2.500	2.500	2.500	0.0060	0.0997	0.040	-	03/12/2025 14:03	JWN,NIC2

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
103	I2512272-01 WG2039339	2.500	2.500	2.500	-0.0145	0.0796	0.032	-	03/12/2025 14:07	JWN,NIC2
104	I2512288-02 WG2039339	2.500	2.500	2.500	-0.0107	0.0834	0.033	-	03/12/2025 14:10	JWN,NIC2
105	I2512439-01 WG2039339	2.500	2.500	2.500	-0.0092	0.0848	0.034	-	03/12/2025 14:13	JWN,NIC2
106	I2512628-01 WG2039339	2.500	2.500	2.500	-0.0179	0.0763	0.031	-	03/12/2025 14:16	JWN,NIC2
107	Check STD(5ug/L)	2.500	2.500	2.500	12.7869	12.6203	5.048	101.0	03/12/2025 14:20	JWN,NIC2
108	Check Blank	2.500	2.500	2.500	-0.0137	0.0804	0.032	-	03/12/2025 14:23	JWN,NIC2
109	WG2039424-1 WG2039424	2.500	2.500	2.500	-0.0113	0.0828	0.033	-	03/12/2025 15:01	JWN,NIC2
110	WG2039424-2 WG2039424	2.500	2.500	2.500	2.4306	2.4749	0.990	-	03/12/2025 15:04	JWN,NIC2
111	L2512572-01 WG2039424	2.500	2.500	2.500	0.4620	0.5464	0.219	-	03/12/2025 15:09	JWN,NIC2
112	WG2039424-3 WG2039424	2.500	2.500	2.500	11.5454	11.4041	4.562	-	03/12/2025 15:12	JWN,NIC2
113	WG2039424-4 WG2039424	2.500	2.500	2.500	0.1153	0.2068	0.083	-	03/12/2025 15:16	JWN,NIC2
114	L2512572-02 WG2039424	2.500	2.500	2.500	0.0712	0.1636	0.065	-	03/12/2025 15:19	JWN,NIC2
115	L2512572-03 WG2039424	2.500	2.500	2.500	0.0687	0.1611	0.064	-	03/12/2025 15:22	JWN,NIC2
116	L2512572-04 WG2039424	2.500	2.500	2.500	0.0425	0.1355	0.054	-	03/12/2025 15:25	JWN,NIC2
117	L2512572-05 WG2039424	2.500	2.500	2.500	0.0388	0.1319	0.053	-	03/12/2025 15:29	JWN,NIC2
118	L2512572-06 WG2039424	2.500	2.500	2.500	0.0593	0.1519	0.061	-	03/12/2025 15:32	JWN,NIC2
119	Check STD(5ug/L)	2.500	2.500	2.500	12.4427	12.2831	4.913	98.3	03/12/2025 15:35	JWN,NIC2
120	Check Blank	2.500	2.500	2.500	-0.0117	0.0824	0.033	-	03/12/2025 15:39	JWN,NIC2
121	L2512647-01 WG2039424	2.500	2.500	2.500	0.0961	0.1880	0.075	-	03/12/2025 15:42	JWN,NIC2
122	WG2038616-1 WG2038616	2.500	2.500	2.500	0.0698	0.1622	0.065	-	03/12/2025 16:09	JWN,NIC2
123	WG2038616-2 WG2038616	2.500	2.500	2.500	2.6073	2.6480	1.059	-	03/12/2025 16:12	JWN,NIC2
124	L2512992-01 WG2038616	2.500	2.500	2.500	15.5968	15.3729	6.149	-	03/12/2025 16:15	JWN,NIC2
125	xWG2038616-3 WG2038616	2.500	2.500	2.500	28.4955	28.0089	11.204	-	03/12/2025 16:19	JWN,NIC2
126	WG2038616-4 WG2038616	2.500	2.500	2.500	15.9067	15.6765	6.271	-	03/12/2025 16:22	JWN,NIC2
127	WG2039541-1 WG2039541	2.500	2.500	2.500	-0.0155	0.0787	0.031	-	03/12/2025 16:25	JWN,NIC2
128	WG2039541-2 WG2039541	2.500	2.500	2.500	2.5010	2.5439	1.018	-	03/12/2025 16:28	JWN,NIC2
129	L2513065-04 WG2039541	2.500	2.500	2.500	0.0338	0.1270	0.051	-	03/12/2025 16:32	JWN,NIC2
130	WG2039541-3 WG2039541	2.500	2.500	2.500	12.1599	12.0061	4.802	-	03/12/2025 16:35	JWN,NIC2
131	Check STD(5ug/L)	2.500	2.500	2.500	12.3677	12.2096	4.884	97.7	03/12/2025 16:38	JWN,NIC2
132	Check Blank	2.500	2.500	2.500	-0.0111	0.0830	0.033	-	03/12/2025 16:42	JWN,NIC2
133	WG2039541-4 WG2039541	2.500	2.500	2.500	0.0198	0.1132	0.045	-	03/12/2025 16:45	JWN,NIC2
134	L2513065-03 WG2039541	2.500	2.500	2.500	0.0019	0.0957	0.038	-	03/12/2025 16:48	JWN,NIC2

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
135	WG2038616-3D2 WG2038616	2.500	2.500	2.500	14.2628	14.0661	5.626	-	03/12/2025 16:52	JWN,NIC2
136	PS 992-01	2.500	2.500	2.500	20.5853	20.2598	8.104	-	03/12/2025 16:55	JWN,NIC2
137	Check STD(5ug/L)	2.500	2.500	2.500	12.3131	12.1561	4.862	97.2	03/12/2025 16:58	JWN,NIC2
138	Check Blank	2.500	2.500	2.500	-0.0085	0.0855	0.034	-	03/12/2025 17:01	JWN,NIC2

Title :
Date : 03/12/2025
Name :

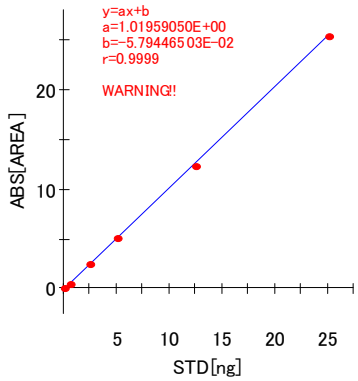
Method

STD
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

SMP
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

Measurement Time(sec) : 120sec

Calib



STD

No.	STD [ug/L]	SVOL [mL]	CVOL [mL]	DVOL [mL]	STD [ng]	AREA [ON]	MEAS [ng]	Dev [%]	M. TIME	Note
1	0.000	2.500	2.500	2.500	0.000	0.0134	0.0700	-	03/12/2025 06:17	CME,NIC3
2	0.200	2.500	2.500	2.500	0.500	0.5249	0.5716	14.3	03/12/2025 06:21	CME,NIC3
3	1.000	2.500	2.500	2.500	2.500	2.4195	2.4298	2.8	03/12/2025 06:24	CME,NIC3
4	2.000	2.500	2.500	2.500	5.000	5.0889	5.0480	1.0	03/12/2025 06:27	CME,NIC3
5	5.000	2.500	2.500	2.500	12.500	12.4516	12.2692	1.8	03/12/2025 06:31	CME,NIC3
6	10.000	2.500	2.500	2.500	25.000	25.5454	25.1114	0.4	03/12/2025 06:34	CME,NIC3

SMP

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
1	ICV	2.500	2.500	2.500	7.3836	7.2986	2.919	-	03/12/2025 06:38	CME,NIC3
2	ICB	2.500	2.500	2.500	0.0235	0.0799	0.032	-	03/12/2025 06:41	CME,NIC3
3	wg2038635-1 wg2038635	2.500	2.500	2.500	0.0318	0.0880	0.035	-	03/12/2025 06:55	CME,NIC3
4	wg2038635-2 wg2038635	2.500	2.500	2.500	2.4433	2.4532	0.981	-	03/12/2025 06:59	CME,NIC3
5	I2512195-07 wg2038635	2.500	2.500	2.500	0.0395	0.0956	0.038	-	03/12/2025 07:02	CME,NIC3
6	wg2038635-3 wg2038635	2.500	2.500	2.500	11.7960	11.6262	4.650	-	03/12/2025 07:05	CME,NIC3

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
7	wg2038635-4 wg2038635	2.500	2.500	2.500	0.0345	0.0907	0.036	-	03/12/2025 07:09	CME,NIC3
8	I2512195-08 wg2038635	2.500	2.500	2.500	0.0367	0.0928	0.037	-	03/12/2025 07:12	CME,NIC3
9	I2512925-09 wg2038635	2.500	2.500	2.500	0.0386	0.0947	0.038	-	03/12/2025 07:15	CME,NIC3
10	wg2039057-1 wg2039057	2.500	2.500	2.500	0.0160	0.0725	0.029	-	03/12/2025 07:22	CME,NIC3
11	wg2039057-2 wg2039057	2.500	2.500	2.500	2.3883	2.3992	0.960	-	03/12/2025 07:25	CME,NIC3
12	Check STD(5ug/L)	2.500	2.500	2.500	12.6690	12.4824	4.993	99.9	03/12/2025 07:29	CME,NIC3
13	Check Blank	2.500	2.500	2.500	0.0202	0.0766	0.031	-	03/12/2025 07:32	CME,NIC3
14	I2512325-02 wg2039057	2.500	2.500	2.500	1.1518	1.1865	0.475	-	03/12/2025 07:35	CME,NIC3
15	wg2039057-3 wg2039057	2.500	2.500	2.500	13.2107	13.0137	5.205	-	03/12/2025 07:39	CME,NIC3
16	wg2039057-4 wg2039057	2.500	2.500	2.500	13.1091	12.9141	5.166	-	03/12/2025 07:42	CME,NIC3
17	I2512325-01 wg2039057	2.500	2.500	2.500	0.0220	0.0784	0.031	-	03/12/2025 07:45	CME,NIC3
18	I2512325-03 wg2039057	2.500	2.500	2.500	0.0265	0.0828	0.033	-	03/12/2025 07:49	CME,NIC3
19	I2512325-04 wg2039057	2.500	2.500	2.500	0.0284	0.0847	0.034	-	03/12/2025 07:52	CME,NIC3
20	I2512325-05 wg2039057	2.500	2.500	2.500	0.0228	0.0792	0.032	-	03/12/2025 07:55	CME,NIC3
21	I2512325-06 wg2039057	2.500	2.500	2.500	0.0252	0.0815	0.033	-	03/12/2025 07:59	CME,NIC3
22	I2512325-07 wg2039057	2.500	2.500	2.500	0.0342	0.0904	0.036	-	03/12/2025 08:02	CME,NIC3
23	I2512325-08 wg2039057	2.500	2.500	2.500	0.0188	0.0753	0.030	-	03/12/2025 08:05	CME,NIC3
24	Check STD(5ug/L)	2.500	2.500	2.500	12.6314	12.4455	4.978	99.6	03/12/2025 08:08	CME,NIC3
25	Check Blank	2.500	2.500	2.500	0.0228	0.0792	0.032	-	03/12/2025 08:12	CME,NIC3
26	I2512325-09 wg2039057	2.500	2.500	2.500	1.8379	1.8594	0.744	-	03/12/2025 08:15	CME,NIC3
27	WG2039179-1 WG2039179	2.500	2.500	2.500	0.0221	0.0785	0.031	-	03/12/2025 08:19	CME,NIC3
28	WG2039179-2 WG2039179	2.500	2.500	2.500	2.3248	2.3370	0.935	-	03/12/2025 08:22	CME,NIC3
29	L2512316-01 WG2039179	2.500	2.500	2.500	0.0419	0.0979	0.039	-	03/12/2025 08:25	CME,NIC3
30	WG2039179-3 WG2039179	2.500	2.500	2.500	12.0463	11.8717	4.749	-	03/12/2025 08:28	CME,NIC3
31	WG2039179-4 WG2039179	2.500	2.500	2.500	0.0363	0.0924	0.037	-	03/12/2025 08:32	CME,NIC3
32	L2512316-02 WG2039179	2.500	2.500	2.500	0.0245	0.0809	0.032	-	03/12/2025 08:35	CME,NIC3
33	L2512316-03 WG2039179	2.500	2.500	2.500	0.0183	0.0748	0.030	-	03/12/2025 08:38	CME,NIC3
34	L2512316-04 WG2039179	2.500	2.500	2.500	0.0163	0.0728	0.029	-	03/12/2025 08:42	CME,NIC3
35	L2512316-05 WG2039179	2.500	2.500	2.500	0.0170	0.0735	0.029	-	03/12/2025 08:45	CME,NIC3
36	Check STD(5ug/L)	2.500	2.500	2.500	12.7985	12.6094	5.044	100.9	03/12/2025 08:48	CME,NIC3
37	Check Blank	2.500	2.500	2.500	0.0178	0.0743	0.030	-	03/12/2025 08:52	CME,NIC3
38	L2512316-06 WG2039179	2.500	2.500	2.500	0.0176	0.0741	0.030	-	03/12/2025 08:55	CME,NIC3

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
39	wg2039031-1 wg2039031	2.500	2.500	2.500	0.0161	0.0726	0.029	-	03/12/2025 08:58	CME,NIC3
40	wg2039031-2 wg2039031	2.500	2.500	2.500	2.4109	2.4214	0.969	-	03/12/2025 09:02	CME,NIC3
41	I2512218-03 wg2039031	2.500	2.500	2.500	0.0241	0.0805	0.032	-	03/12/2025 09:05	CME,NIC3
42	wg2039031-3 wg2039031	2.500	2.500	2.500	11.9968	11.8231	4.729	-	03/12/2025 09:08	CME,NIC3
43	wg2039031-4 wg2039031	2.500	2.500	2.500	0.0298	0.0861	0.034	-	03/12/2025 09:11	CME,NIC3
44	I2512117-01 wg2039031	2.500	2.500	2.500	0.0853	0.1405	0.056	-	03/12/2025 09:15	CME,NIC3
45	I2512218-02 wg2039031	2.500	2.500	2.500	0.0147	0.0712	0.028	-	03/12/2025 09:18	CME,NIC3
46	I2512218-04 wg2039031	2.500	2.500	2.500	0.0166	0.0731	0.029	-	03/12/2025 09:21	CME,NIC3
47	wg2039060-1 wg2039060	2.500	2.500	2.500	0.0088	0.0655	0.026	-	03/12/2025 09:53	CME,NIC3
48	Check STD(5ug/L)	2.500	2.500	2.500	12.4296	12.2476	4.899	98.0	03/12/2025 09:56	CME,NIC3
49	Check Blank	2.500	2.500	2.500	0.0195	0.0760	0.030	-	03/12/2025 09:59	CME,NIC3
50	wg2039060-2 wg2039060	2.500	2.500	2.500	2.3248	2.3370	0.935	-	03/12/2025 10:03	CME,NIC3
51	I2512368-10 wg2039060	2.500	2.500	2.500	0.0159	0.0724	0.029	-	03/12/2025 10:06	CME,NIC3
52	wg2039060-3 wg2039060	2.500	2.500	2.500	11.9364	11.7639	4.706	-	03/12/2025 10:09	CME,NIC3
53	wg2039060-4 wg2039060	2.500	2.500	2.500	11.6151	11.4488	4.580	-	03/12/2025 10:13	CME,NIC3
54	I2512368-02 wg2039060	2.500	2.500	2.500	0.0293	0.0856	0.034	-	03/12/2025 10:16	CME,NIC3
55	wg2039060-5 wg2039060	2.500	2.500	2.500	11.7592	11.5901	4.636	-	03/12/2025 10:19	CME,NIC3
56	wg2039060-6 wg2039060	2.500	2.500	2.500	0.0313	0.0875	0.035	-	03/12/2025 10:23	CME,NIC3
57	I2512368-01 wg2039060	2.500	2.500	2.500	0.0151	0.0716	0.029	-	03/12/2025 10:26	CME,NIC3
58	I2512368-04 wg2039060	2.500	2.500	2.500	0.0150	0.0715	0.029	-	03/12/2025 10:29	CME,NIC3
59	I2512368-05 wg2039060	2.500	2.500	2.500	0.0281	0.0844	0.034	-	03/12/2025 10:32	CME,NIC3
60	Check STD(5ug/L)	2.500	2.500	2.500	12.6768	12.4901	4.996	99.9	03/12/2025 10:36	CME,NIC3
61	Check Blank	2.500	2.500	2.500	0.0223	0.0787	0.031	-	03/12/2025 10:39	CME,NIC3
62	I2512368-07 wg2039060	2.500	2.500	2.500	0.0210	0.0774	0.031	-	03/12/2025 10:42	CME,NIC3
63	I2512368-08 wg2039060	2.500	2.500	2.500	0.0147	0.0712	0.028	-	03/12/2025 10:46	CME,NIC3
64	I2512368-11 wg2039060	2.500	2.500	2.500	0.0110	0.0676	0.027	-	03/12/2025 10:49	CME,NIC3
65	I2512368-13 wg2039060	2.500	2.500	2.500	0.0189	0.0754	0.030	-	03/12/2025 10:52	CME,NIC3
66	I2512368-14 wg2039060	2.500	2.500	2.500	0.0133	0.0699	0.028	-	03/12/2025 10:56	CME,NIC3
67	I2512368-16 wg2039060	2.500	2.500	2.500	0.0167	0.0732	0.029	-	03/12/2025 10:59	CME,NIC3
68	I2512368-17 wg2039060	2.500	2.500	2.500	0.0160	0.0725	0.029	-	03/12/2025 11:02	CME,NIC3
69	I2512368-19 wg2039060	2.500	2.500	2.500	0.0168	0.0733	0.029	-	03/12/2025 11:05	CME,NIC3
70	I2512607-01 wg2039060	2.500	2.500	2.500	0.0137	0.0703	0.028	-	03/12/2025 11:09	CME,NIC3

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
71	I2512607-02 wg2039060	2.500	2.500	2.500	0.0165	0.0730	0.029	-	03/12/2025 11:12	CME,NIC3
72	Check STD(5ug/L)	2.500	2.500	2.500	12.7993	12.6102	5.044	100.9	03/12/2025 11:15	CME,NIC3
73	Check Blank	2.500	2.500	2.500	0.0165	0.0730	0.029	-	03/12/2025 11:19	CME,NIC3
74	I2512607-03 wg2039060	2.500	2.500	2.500	0.0200	0.0764	0.031	-	03/12/2025 11:22	CME,NIC3
75	I2512607-04 wg2039060	2.500	2.500	2.500	0.0162	0.0727	0.029	-	03/12/2025 11:25	CME,NIC3
76	I2512607-05 wg2039060	2.500	2.500	2.500	0.0161	0.0726	0.029	-	03/12/2025 11:29	CME,NIC3
77	I2512607-06 wg2039060	2.500	2.500	2.500	0.0213	0.0777	0.031	-	03/12/2025 11:32	CME,NIC3
78	wg2039087-1 wg2039087	2.500	2.500	2.500	0.0153	0.0718	0.029	-	03/12/2025 11:35	CME,NIC3
79	wg2039087-2 wg2039087	2.500	2.500	2.500	2.2237	2.2378	0.895	-	03/12/2025 11:39	CME,NIC3
80	L2510194-04 wg2039087	2.500	2.500	2.500	3.2217	3.2166	1.287	-	03/12/2025 11:42	CME,NIC3
81	wg2039087-3 wg2039087	2.500	2.500	2.500	15.5305	15.2889	6.116	-	03/12/2025 11:45	CME,NIC3
82	wg2039087-4 wg2039087	2.500	2.500	2.500	3.2441	3.2386	1.295	-	03/12/2025 11:49	CME,NIC3
83	L2510194-01 wg2039087	2.500	2.500	2.500	1.2935	1.3255	0.530	-	03/12/2025 11:52	CME,NIC3
84	Check STD(5ug/L)	2.500	2.500	2.500	12.8895	12.6987	5.079	101.6	03/12/2025 11:55	CME,NIC3
85	Check Blank	2.500	2.500	2.500	0.0186	0.0751	0.030	-	03/12/2025 11:59	CME,NIC3
86	L2510194-05 wg2039087	2.500	2.500	2.500	2.2950	2.3077	0.923	-	03/12/2025 12:02	CME,NIC3
87	L2510194-08 wg2039087	2.500	2.500	2.500	0.4649	0.5128	0.205	-	03/12/2025 12:05	CME,NIC3
88	WG2039473-1 WG2039473	2.500	2.500	2.500	0.0074	0.0641	0.026	-	03/12/2025 12:40	CME,NIC3
89	WG2039473-2 WG2039473	2.500	2.500	2.500	2.2842	2.2971	0.919	-	03/12/2025 12:43	CME,NIC3
90	L2511511-03 WG2039473	2.500	2.500	2.500	0.0132	0.0698	0.028	-	03/12/2025 12:46	CME,NIC3
91	WG2039473-3 WG2039473	2.500	2.500	2.500	11.5747	11.4091	4.564	-	03/12/2025 12:50	CME,NIC3
92	WG2039473-4 WG2039473	2.500	2.500	2.500	0.0134	0.0700	0.028	-	03/12/2025 12:53	CME,NIC3
93	WG2039477-1 WG2039477	2.500	2.500	2.500	0.0129	0.0695	0.028	-	03/12/2025 12:56	CME,NIC3
94	WG2039477-2 WG2039477	2.500	2.500	2.500	2.3824	2.3935	0.957	-	03/12/2025 12:59	CME,NIC3
95	I2513345-01 WG2039477	2.500	2.500	2.500	0.0141	0.0707	0.028	-	03/12/2025 13:03	CME,NIC3
96	Check STD(5ug/L)	2.500	2.500	2.500	12.4066	12.2250	4.890	97.8	03/12/2025 13:06	CME,NIC3
97	Check Blank	2.500	2.500	2.500	0.0179	0.0744	0.030	-	03/12/2025 13:09	CME,NIC3
98	WG2039477-3 WG2039477	2.500	2.500	2.500	11.3128	11.1523	4.461	-	03/12/2025 13:13	CME,NIC3
99	WG2039477-4 WG2039477	2.500	2.500	2.500	0.0164	0.0729	0.029	-	03/12/2025 13:16	CME,NIC3
100	Check STD(5ug/L)	2.500	2.500	2.500	12.2899	12.1106	4.844	96.9	03/12/2025 13:26	CME,NIC3
101	Check Blank	2.500	2.500	2.500	0.0182	0.0747	0.030	-	03/12/2025 13:29	CME,NIC3
102	wg2039529-1 wg2039529	2.500	2.500	2.500	0.0488	0.1047	0.042	-	03/12/2025 13:34	CME,NIC3

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
103	wg2039529-2 wg2039529	2.500	2.500	2.500	2.3958	2.4066	0.963	-	03/12/2025 13:38	CME,NIC3
104	I2512738-01 wg2039529	2.500	2.500	2.500	0.0981	0.1530	0.061	-	03/12/2025 13:41	CME,NIC3
105	wg2039529-3 wg2039529	2.500	2.500	2.500	11.9425	11.7699	4.708	-	03/12/2025 13:44	CME,NIC3
106	wg2039529-4 wg2039529	2.500	2.500	2.500	0.2008	0.2538	0.102	-	03/12/2025 13:48	CME,NIC3
107	I2513827-01 wg2039529	2.500	2.500	2.500	0.0429	0.0989	0.040	-	03/12/2025 13:51	CME,NIC3
108	Check STD(5ug/L)	2.500	2.500	2.500	12.8282	12.6385	5.055	101.1	03/12/2025 13:54	CME,NIC3
109	Check Blank	2.500	2.500	2.500	0.0184	0.0749	0.030	-	03/12/2025 13:57	CME,NIC3
110	I2512738-02 wg2039529	2.500	2.500	2.500	0.1326	0.1869	0.075	-	03/12/2025 14:01	CME,NIC3
111	I2512738-03 wg2039529	2.500	2.500	2.500	0.3420	0.3923	0.157	-	03/12/2025 14:04	CME,NIC3
112	I2513174-10 wg2039529	2.500	2.500	2.500	0.0634	0.1190	0.048	-	03/12/2025 14:07	CME,NIC3
113	I2513372-01 wg2039529	2.500	2.500	2.500	0.6314	0.6761	0.270	-	03/12/2025 14:11	CME,NIC3
114	Check STD(5ug/L)	2.500	2.500	2.500	12.2405	12.0621	4.825	96.5	03/12/2025 14:52	CME,NIC3
115	Check Blank	2.500	2.500	2.500	0.0176	0.0741	0.030	-	03/12/2025 14:55	CME,NIC3

MERCURY TRUE VALUE CRITERIA

ICV	3 ug/l
LCSW	1 ug/l
MS	1 ug/l
CCV	5 ug/l

As of 6/1/13, Mercury True Value criteria is as follows:

ICV	3 ug/l
LCSW	1 ug/l
MS(aq)	5 ug/l
MS(soil)	1 ug/l
CCV	10 ug/l

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D102-540
Certificate Issue Date: June 22, 2018
Expiration Date: January 31, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8160	6.36	3960 - 12400	4080 - 12200
Antimony	120	60.9	9.42	0.822 - 121	12.0 - 166
Arsenic	144	135	5.08	112 - 158	94.6 - 176
Barium	469	443	6.77	366 - 521	332 - 554
Beryllium	207	197	5.86	164 - 229	148 - 246
Boron	213	174	12.6	127 - 221	105 - 244
Cadmium	224	204	6.65	169 - 240	153 - 256
Calcium	5190	4830	9.12	3950 - 5700	3510 - 6150
Chromium	138	132	8.56	109 - 155	92.2 - 171
Cobalt	182	179	7.93	151 - 207	134 - 224
Copper	191	184	6.72	155 - 213	138 - 230
Iron	15000	14400	10.7	8770 - 20000	5120 - 23600
Lead	225	216	7.72	178 - 254	159 - 274
Magnesium	2570	2340	6.13	1780 - 2900	1460 - 3230
Manganese	331	323	6.71	266 - 380	242 - 404
Mercury	16.8	13.2	16.0	8.64 - 17.7	7.89 - 18.5
Molybdenum	193	175	2.39	141 - 209	125 - 226
Nickel	163	152	5.95	126 - 178	106 - 197
Potassium	2420	2050	6.31	1440 - 2660	1210 - 2890
Selenium	81.9	74.9	4.13	59.3 - 90.5	47.0 - 103
Silver	57.6	53.9	9.00	43.0 - 64.8	37.8 - 70.0
Sodium	161	149	12.1	111 - 188	57.7 - 241
Strontium	100	96.2	4.04	78.1 - 114	69.0 - 123
Thallium	253	232	3.54	188 - 276	168 - 296

16341 Table Mountain Pkwy ▪ Golden, CO 80403 ▪ T: 800.372.0122 ▪ 303.431.8454 ▪ www.eraqc.com

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	146	134	10.8	106 - 163	79.5 - 189
Titanium	449	340	7.20	70.2 - 609	44.9 - 711
Uranium	114	113	7.10	85.5 - 140	71.9 - 153
Vanadium	180	172	8.85	137 - 207	126 - 218
Zinc	217	211	6.58	171 - 250	147 - 274

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8160	80.8	138	-	-
Antimony	120	60.9	50.8	135	-	-
Arsenic	144	135	93.8	184	-	-
Barium	469	443	94.5	158	-	-
Beryllium	207	197	95.0	148	-	-
Boron	213	174	81.8	107	-	-
Cadmium	224	204	91.3	199	-	-
Calcium	5190	4830	93.0	122	-	-
Chromium	138	132	95.5	172	-	-
Cobalt	182	179	98.4	140	-	-
Copper	191	184	96.3	183	-	-
Iron	15000	14400	95.6	133	-	-
Lead	225	216	96.2	204	-	-
Magnesium	2570	2340	91.2	122	-	-
Manganese	331	323	97.6	147	-	-
Mercury	16.8	13.2	78.3	128	-	-
Molybdenum	193	175	90.8	143	-	-
Nickel	163	152	93.1	185	-	-
Potassium	2420	2050	84.7	121	-	-
Selenium	81.9	74.9	91.5	163	-	-

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▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	57.6	53.9	93.6	150	-	-
Sodium	161	149	92.8	105	-	-
Strontium	100	96.2	96.2	90	-	-
Thallium	253	232	91.6	147	-	-
Tin	146	134	92.0	100	-	-
Titanium	449	340	75.6	93	-	-
Uranium	114	113	98.8	35	-	-
Vanadium	180	172	95.4	139	-	-
Zinc	217	211	97.0	180	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Quality Officer

Matthew Seebeck

ISO/IEC GUIDE 34:2009 ACCREDITED REFERENCE MATERIAL PRODUCER CERTIFICATE NO. 1539.03

ISO/IEC 17025:2005 ACCREDITED CHEMICAL TESTING LABORATORY CERTIFICATE NO. 1539.02

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Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D105-540
Certificate Issue Date: March 19, 2019
Expiration Date: October 12, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8800	8.32	4600 - 13000	4470 - 13100
Antimony	282	147	7.70	6.17 - 289	28.2 - 366
Arsenic	155	143	6.34	119 - 168	100 - 186
Barium	439	415	5.37	343 - 488	311 - 519
Beryllium	192	179	2.78	149 - 210	134 - 224
Boron	216	160	7.08	113 - 208	96.1 - 238
Cadmium	61.5	56.2	0.528	46.6 - 65.9	42.2 - 70.3
Calcium	5190	4960	6.64	4090 - 5840	3610 - 6310
Chromium	104	101	4.75	83.2 - 118	70.5 - 131
Cobalt	196	189	0.500	158 - 219	141 - 236
Copper	65.0	63.1	2.65	53.1 - 73.1	47.3 - 78.9
Iron	15000	15700	8.94	10100 - 21300	6000 - 25400
Lead	126	125	4.77	103 - 146	89.3 - 160
Magnesium	2570	2410	6.26	1860 - 2970	1520 - 3310
Manganese	387	382	5.37	315 - 449	290 - 474
Mercury	7.76	7.61	13.7	5.53 - 9.69	4.57 - 10.7
Molybdenum	120	107	0.500	86.0 - 128	75.5 - 139
Nickel	117	108	0.514	89.5 - 127	75.7 - 141
Potassium	2420	2110	5.62	1500 - 2720	1260 - 2960
Selenium	84.6	77.9	7.10	61.8 - 94.0	49.2 - 107
Silver	34.6	34.3	8.34	27.8 - 40.9	23.6 - 45.1
Sodium	161	145	6.72	106 - 183	54.3 - 235
Strontium	104	104	3.95	85.1 - 123	74.8 - 133
Thallium	123	113	0.500	91.3 - 134	77.1 - 149

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▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	118	107	0.500	83.5 - 130	61.2 - 152
Titanium	512	421	5.80	114 - 728	0.00 - 854
Uranium	103	104	6.18	79.1 - 128	71.9 - 135
Vanadium	87.3	83.7	8.55	66.8 - 101	54.2 - 113
Zinc	251	240	3.98	194 - 285	168 - 312

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8800	87.1	193	-	-
Antimony	282	147	52.3	216	-	-
Arsenic	155	143	92.5	240	-	-
Barium	439	415	94.6	222	-	-
Beryllium	192	179	93.4	220	-	-
Boron	216	160	74.2	152	-	-
Cadmium	61.5	56.2	91.5	239	-	-
Calcium	5190	4960	95.6	175	-	-
Chromium	104	101	96.8	237	-	-
Cobalt	196	189	96.2	215	-	-
Copper	65.0	63.1	97.1	237	-	-
Iron	15000	15700	105	195	-	-
Lead	126	125	99.0	243	-	-
Magnesium	2570	2410	93.9	177	-	-
Manganese	387	382	98.7	215	-	-
Mercury	7.76	7.61	98.0	157	-	-
Molybdenum	120	107	89.4	216	-	-
Nickel	117	108	92.5	235	-	-
Potassium	2420	2110	87.2	181	-	-
Selenium	84.6	77.9	92.1	231	-	-

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Reference Material

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	34.6	34.3	99.3	216	-	-
Sodium	161	145	89.8	166	-	-
Strontium	104	104	99.9	148	-	-
Thallium	123	113	91.8	215	-	-
Tin	118	107	90.4	164	-	-
Titanium	512	421	82.2	157	-	-
Uranium	103	104	101	61	-	-
Vanadium	87.3	83.7	95.9	214	-	-
Zinc	251	240	95.5	234	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Brian Miller

Quality Officer

Matthew Seebeck

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ERA
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Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D109-540
Certificate Issue Date: March 24, 2020
Expiration Date: October 03, 2023
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8130	2.54	3920 - 12300	4060 - 12200
Antimony	259	134	5.03	4.56 - 264	25.9 - 335
Arsenic	171	156	3.38	129 - 183	109 - 203
Barium	253	239	4.81	197 - 280	179 - 298
Beryllium	179	169	6.59	141 - 198	127 - 212
Boron	114	87.5	10.3	62.5 - 113	52.5 - 125
Cadmium	149	137	5.43	113 - 160	103 - 171
Calcium	5190	4760	3.48	3890 - 5640	3460 - 6070
Chromium	163	154	3.79	126 - 181	108 - 200
Cobalt	127	121	5.07	101 - 141	90.8 - 151
Copper	57.0	54.9	4.13	46.1 - 63.6	41.1 - 68.6
Iron	15000	14100	6.27	8470 - 19700	4920 - 23200
Lead	133	130	3.00	107 - 152	93.3 - 167
Magnesium	2570	2320	3.32	1760 - 2880	1440 - 3200
Manganese	277	269	2.67	221 - 317	199 - 340
Mercury	21.6	20.5	7.72	14.7 - 26.3	12.3 - 28.6
Molybdenum	108	95.4	2.61	76.4 - 114	66.9 - 124
Nickel	58.7	53.9	4.97	44.5 - 63.3	37.7 - 70.0
Potassium	2420	2020	3.06	1410 - 2630	1190 - 2850
Selenium	181	167	5.63	132 - 201	113 - 221
Silver	35.5	33.6	5.20	26.8 - 40.3	23.0 - 44.1
Sodium	161	133	2.76	95.1 - 171	46.5 - 220
Strontium	89.7	87.9	4.59	71.7 - 104	62.8 - 113
Thallium	121	112	5.19	90.3 - 133	76.1 - 147

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▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	83.5	74.0	5.42	57.6 - 90.4	39.7 - 108
Titanium	474	333	7.17	48.6 - 617	46.3 - 620
Uranium	51.9	51.9	3.36	39.6 - 64.3	35.9 - 68.0
Vanadium	68.1	62.6	6.00	49.4 - 75.8	37.0 - 88.3
Zinc	165	158	2.34	128 - 188	111 - 205

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ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number[6]	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8130	80.5	196	-	-
Antimony	259	134	51.8	217	-	-
Arsenic	171	156	91.3	243	-	-
Barium	253	239	94.3	230	-	-
Beryllium	179	169	94.6	223	-	-
Boron	114	87.5	76.7	150	-	-
Cadmium	149	137	91.8	249	-	-
Calcium	5190	4760	91.8	184	-	-
Chromium	163	154	94.4	245	-	-
Cobalt	127	121	95.3	221	-	-
Copper	57.0	54.9	96.2	243	-	-
Iron	15000	14100	93.9	199	-	-
Lead	133	130	97.7	251	-	-
Magnesium	2570	2320	90.1	182	-	-
Manganese	277	269	97.2	220	-	-
Mercury	21.6	20.5	94.7	172	-	-
Molybdenum	108	95.4	88.3	218	-	-
Nickel	58.7	53.9	91.8	242	-	-
Potassium	2420	2020	83.5	187	-	-
Selenium	181	167	92.2	235	-	-
Silver	35.5	33.6	94.5	222	-	-
Sodium	161	133	82.7	177	-	-
Strontium	89.7	87.9	98.0	151	-	-
Thallium	121	112	92.2	219	-	-
Tin	83.5	74.0	88.6	170	-	-
Titanium	474	333	70.3	157	-	-
Uranium	51.9	51.9	100	60	-	-
Vanadium	68.1	62.6	91.9	213	-	-
Zinc	165	158	95.8	238	-	-

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▪ Certificate of Analysis ▪

1. The **Certified Values** are the actual gravimetric/volumetric "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** represents an expanded uncertainty and approximates a 95% confidence interval. The uncertainty is based on the characterization, homogeneity and stability characteristics of the product, multiplied by a coverage factor (k=2). The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product. The formula used to calculate the expanded uncertainty is:
$U_{expanded} = k * SQRT((U_{char}^2) + (U_{homogen}^2) + (U_{LTS}^2) + (U_{STS}^2) + (U_{RSS}^2))$

Where:

$U_{expanded}$ = Expanded uncertainty.
k = Coverage factor.
U_{char} = Combined standard uncertainty of the manufacturing and/or analytical verification assessment.
$U_{homogen}$ = Standard uncertainty of the homogeneity assessment.
U_{LTS} = Standard uncertainty associated with long-term stability.
U_{STS} = Standard uncertainty associated with short-term (transport) stability.
U_{RSS} = Standard uncertainty associated with repeated sampling of the product (where permitted by product use instructions).

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this certified reference material alongside USEPA and NELAC compliant PT study materials. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and therefore, the acceptance limits of this certified reference material and any PT study material may differ relative to their difference in concentrations.

5. The **PT Performance Data** include the mean value, percent recovery and number of data points reported by laboratories in our Proficiency Testing study compared to the Certified Values. In the event this lot was not used in a proficiency testing scheme, the data displayed was generated internally by ERA.

6. Where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. **Analytical Traceability Recovery (%)** = [(% recovery ERA certified reference material)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing this ERA certified reference material and/or it's associated stock solution(s) against the applicable NIST SRMs.

7. The **Reference Values** are equal to the mean recoveries for the parameters as determined in an interlaboratory round robin study. The **Reference Values** represent the expected performance for the analytes in this standard. ERA recommends using the **Reference Values** when assessing or evaluating your results.

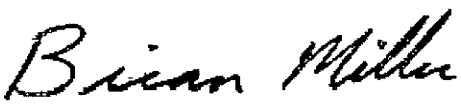
8. **Metrological Traceability**. This certified reference material is metrologically traceable to NIST mass reference materials through an unbroken chain of comparisons.

9. For additional information on this product such as intended use, storage information, instructions for use, minimum sample size, and safety information, please refer to the Product Use Instructions provided.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller



Quality Officer

Matthew Seebeck

ERA
A Waters Company

Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D113-540
Certificate Issue Date: March 23, 2021
Expiration Date: October 13, 2024
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8630	12.0	4420 - 12800	4370 - 12900
Antimony	256	129	16.8	0.742 - 257	25.6 - 323
Arsenic	91.6	84.5	15.1	70.0 - 99.0	59.2 - 110
Barium	259	249	9.94	206 - 292	187 - 311
Beryllium	175	163	3.89	135 - 191	122 - 204
Boron	95.7	76.7	12.8	55.7 - 97.7	48.0 - 107
Cadmium	107	99.0	11.5	82.2 - 116	74.2 - 124
Calcium	5190	4760	11.8	3890 - 5640	3460 - 6070
Chromium	129	122	14.6	101 - 144	85.7 - 159
Cobalt	63.6	61.7	11.5	51.9 - 71.6	46.3 - 77.2
Copper	62.3	61.5	12.3	51.9 - 71.0	46.1 - 76.8
Iron	15000	14500	15.7	8860 - 20100	5190 - 23800
Lead	122	123	13.9	103 - 144	88.3 - 158
Lithium	6.42	7.30	18.7	5.13 - 9.48	3.20 - 11.4
Magnesium	2570	2360	8.87	1810 - 2920	1480 - 3250
Manganese	470	456	13.4	375 - 538	350 - 563
Mercury	22.1	18.9	14.5	13.0 - 24.8	11.3 - 26.4
Molybdenum	80.1	72.8	11.0	58.7 - 87.0	50.5 - 95.2
Nickel	143	135	14.2	112 - 158	94.7 - 176
Potassium	2420	2090	8.21	1480 - 2700	1240 - 2940
Selenium	128	121	11.7	96.9 - 146	80.4 - 162
Silver	45.4	44.1	6.69	35.5 - 52.8	30.7 - 57.6
Sodium	161	136	9.34	97.4 - 174	48.1 - 223
Strontium	82.2	82.3	8.42	67.4 - 97.1	58.6 - 106

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▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Thallium	154	144	7.54	117 - 171	101 - 187
Tin	89.7	79.8	14.0	62.2 - 97.4	43.5 - 116
Titanium	705	546	10.3	123 - 969	118 - 974
Uranium	29.5	30.9	3.38	23.9 - 37.9	21.3 - 40.5
Vanadium	196	186	14.2	148 - 224	138 - 235
Zinc	307	295	10.4	240 - 351	207 - 384

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Calculation of 7470A Mercury

Calculate Mercury concentration from the daily calibration curve. The curve is generated utilizing a straight-line equation defined as:

$$A = k1 + k2C$$

Where:

A = Average peak height of the sample/standard integrations
C = Sample/Standard Concentration, µg/L
k1 = y-intercept
k2 = slope

The instrument will plot peak height against concentration (µg/L). The result is generated in µg/L . This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

Result, mg/L = (concentration, µg/L) x (1mg/1000µg) x (DF)

Calculation of 7471B Mercury

Calculate Mercury concentration from the daily calibration curve. The curve is generated utilizing a straight-line equation defined as:

$$A = k1 + k2C$$

Where:

A = Average peak height of the sample/standard integrations
C = Sample/Standard Concentration, µg/L
k1 = y-intercept
k2 = slope

The instrument will plot peak height against concentration (µg/L). The result is generated in µg/L . This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

Result, mg/L = (concentration, µg/L) x (1mg/1000µg) x (DF)

The result in mg/kg is calculated on a dry weight basis using the sample weight digested(Wt), the final volume of the digestate(FV), and the percent total solids(%TS).

Result, mg/kg, wet = ((result, mg/L) x (FV)) /Wt

Result, mg/kg, dry wt = (Result, mg/kg wet)/(%TS)

No.	Sample No.	NAME	curve: WG2038787
1	1	STD	
2	2	STD	
3	3	STD	
4	4	STD	
5	5	STD	
6	6	STD	
1	7	ICV	
2	8	ICB	
3	9	WG2039137-1	WG2039137
4	10	WG2039137-2	WG2039137
5	11	L2512193-03	WG2039137
6	12	WG2039137-3	WG2039137
7	13	WG2039137-4	WG2039137
8	14	L2512193-04	WG2039137
9	15	WG2039137-5	WG2039137
10	16	WG2039137-6	WG2039137
11	17	L2512193-01	WG2039137
12	18	L2512193-02	WG2039137
13	19	Check STD(5ug/L)	
14	20	Check Blank	
15	21	L2512193-05	WG2039137
16	22	L2512193-06	WG2039137
17	23	L2512193-07	WG2039137
18	24	L2512193-08	WG2039137
19	25	L2512193-09	WG2039137
20	26	L2512193-10	WG2039137
21	27	L2512193-11	WG2039137
22	28	L2512193-12	WG2039137
23	29	L2512193-13	WG2039137
24	30	L2512193-14	WG2039137
25	31	Check STD(5ug/L)	
26	32	Check Blank	
27	33	L2512193-15	WG2039137
28	34	L2512193-16	WG2039137
29	35	WG2039159-1	WG2039159
30	36	WG2039159-2	WG2039159
31	37	L2512325-02	WG2039159
32	38	WG2039159-3	WG2039159
33	39	WG2039159-4	WG2039159
34	40	L2510781-02	WG2039159
35	41	L2512325-01	WG2039159
36	42	L2512325-03	WG2039159
37	43	Check STD(5ug/L)	

38	44	Check Blank
39	45	L2512325-04 WG2039159
40	46	L2512325-05 WG2039159
41	47	L2512325-06 WG2039159
42	48	L2512325-07 WG2039159
43	49	L2512325-08 WG2039159
44	50	L2512325-09 WG2039159
45	51	WG2039055-1 WG2039055
46	52	WG2039055-2 WG2039055
47	53	L2512256-05 WG2039055
48	54	WG2039055-3 WG2039055
49	55	Check STD(5ug/L)
50	56	Check Blank
51	57	WG2039055-4 WG2039055
52	58	L2512256-01 WG2039055
53	59	L2512256-02 WG2039055
54	60	L2512256-03 WG2039055
55	61	L2512256-04 WG2039055
56	62	WG2039058-1 WG2039058
57	63	WG2039058-2 WG2039058
58	64	L2512368-10 WG2039058
59	65	WG2039058-3 WG2039058
60	66	WG2039058-4 WG2039058
61	67	Check STD(5ug/L)
62	68	Check Blank
63	69	L2512368-02 WG2039058
64	70	WG2039058-5 WG2039058
65	71	WG2039058-6 WG2039058
66	72	L2512368-01 WG2039058
67	73	L2512368-04 WG2039058
68	74	L2512368-05 WG2039058
69	75	L2512368-07 WG2039058
70	76	L2512368-08 WG2039058
71	77	L2512368-11 WG2039058
72	78	L2512368-13 WG2039058
73	79	Check STD(5ug/L)
74	80	Check Blank
75	1	L2512368-14 WG2039058
76	2	L2512368-16 WG2039058
77	3	L2512368-17 WG2039058
78	4	L2512368-19 WG2039058
79	5	L2512607-01 WG2039058
80	6	L2512607-02 WG2039058
81	7	L2512607-03 WG2039058

82	8	L2512607-04 WG2039058
83	9	L2512607-05 WG2039058
84	10	L2512607-06 WG2039058
85	11	Check STD(5ug/L)
86	12	Check Blank
87	13	WG2039480-1 WG2039480
88	14	WG2039480-2 WG2039480
89	15	L2512180-01 WG2039480
90	16	WG2039480-3 WG2039480
91	17	WG2039480-4 WG2039480
92	18	WG2039339-1 WG2039339
93	19	WG2039339-2 WG2039339
94	20	l2512267-01 WG2039339
95	21	WG2039339-3 WG2039339
96	22	WG2039339-4 WG2039339
97	23	Check STD(5ug/L)
98	24	Check Blank
99	25	l2512182-01 WG2039339
100	26	l2512248-01 WG2039339
101	27	l2512261-01 WG2039339
102	28	l2512265-01 WG2039339
103	29	l2512272-01 WG2039339
104	30	l2512288-02 WG2039339
105	31	l2512439-01 WG2039339
106	32	l2512628-01 WG2039339
107	35	Check STD(5ug/L)
108	36	Check Blank
109	37	WG2039424-1 WG2039424
110	38	WG2039424-2 WG2039424
111	39	L2512572-01 WG2039424
112	40	WG2039424-3 WG2039424
113	41	WG2039424-4 WG2039424
114	42	L2512572-02 WG2039424
115	43	L2512572-03 WG2039424
116	44	L2512572-04 WG2039424
117	45	L2512572-05 WG2039424
118	46	L2512572-06 WG2039424
119	47	Check STD(5ug/L)
120	48	Check Blank
121	49	L2512647-01 WG2039424
122	50	WG2038616-1 WG2038616
123	51	WG2038616-2 WG2038616
124	52	L2512992-01 WG2038616
125	53	xWG2038616-3 WG2038616

126	54	WG2038616-4 WG2038616
127	55	WG2039541-1 WG2039541
128	56	WG2039541-2 WG2039541
129	57	L2513065-04 WG2039541
130	58	WG2039541-3 WG2039541
131	59	Check STD(5ug/L)
132	60	Check Blank
133	61	WG2039541-4 WG2039541
134	62	L2513065-03 WG2039541
135	63	WG2038616-3D2 WG2038616
136	64	PS 992-01
137	71	Check STD(5ug/L)
138	72	Check Blank

No.	Sample No.	NAME CURVE:WG2038787
1	1	STD
2	2	STD
3	3	STD
4	4	STD
5	5	STD
6	6	STD
1	7	ICV
2	8	ICB
3	9	wg2038635-1 wg2038635
4	10	wg2038635-2 wg2038635
5	11	l2512195-07 wg2038635
6	12	wg2038635-3 wg2038635
7	13	wg2038635-4 wg2038635
8	14	l2512195-08 wg2038635
9	15	l2512925-09 wg2038635
10	17	wg2039057-1 wg2039057
11	18	wg2039057-2 wg2039057
12	19	Check STD(5ug/L)
13	20	Check Blank
14	21	l2512325-02 wg2039057
15	22	wg2039057-3 wg2039057
16	23	wg2039057-4 wg2039057
17	24	l2512325-01 wg2039057
18	25	l2512325-03 wg2039057
19	26	l2512325-04 wg2039057
20	27	l2512325-05 wg2039057
21	28	l2512325-06 wg2039057
22	29	l2512325-07 wg2039057
23	30	l2512325-08 wg2039057
24	31	Check STD(5ug/L)
25	32	Check Blank
26	33	l2512325-09 wg2039057
27	34	WG2039179-1 WG2039179
28	35	WG2039179-2 WG2039179
29	36	L2512316-01 WG2039179
30	37	WG2039179-3 WG2039179
31	38	WG2039179-4 WG2039179
32	39	L2512316-02 WG2039179
33	40	L2512316-03 WG2039179
34	41	L2512316-04 WG2039179
35	42	L2512316-05 WG2039179
36	43	Check STD(5ug/L)
37	44	Check Blank

38	45	L2512316-06 WG2039179
39	46	wg2039031-1 wg2039031
40	47	wg2039031-2 wg2039031
41	48	l2512218-03 wg2039031
42	49	wg2039031-3 wg2039031
43	50	wg2039031-4 wg2039031
44	51	l2512117-01 wg2039031
45	52	l2512218-02 wg2039031
46	53	l2512218-04 wg2039031
47	54	wg2039060-1 wg2039060
48	55	Check STD(5ug/L)
49	56	Check Blank
50	57	wg2039060-2 wg2039060
51	58	l2512368-10 wg2039060
52	59	wg2039060-3 wg2039060
53	60	wg2039060-4 wg2039060
54	61	l2512368-02 wg2039060
55	62	wg2039060-5 wg2039060
56	63	wg2039060-6 wg2039060
57	64	l2512368-01 wg2039060
58	65	l2512368-04 wg2039060
59	66	l2512368-05 wg2039060
60	67	Check STD(5ug/L)
61	68	Check Blank
62	69	l2512368-07 wg2039060
63	70	l2512368-08 wg2039060
64	71	l2512368-11 wg2039060
65	72	l2512368-13 wg2039060
66	73	l2512368-14 wg2039060
67	74	l2512368-16 wg2039060
68	75	l2512368-17 wg2039060
69	76	l2512368-19 wg2039060
70	77	l2512607-01 wg2039060
71	78	l2512607-02 wg2039060
72	79	Check STD(5ug/L)
73	80	Check Blank
74	1	l2512607-03 wg2039060
75	2	l2512607-04 wg2039060
76	3	l2512607-05 wg2039060
77	4	l2512607-06 wg2039060
78	5	wg2039087-1 wg2039087
79	6	wg2039087-2 wg2039087
80	7	L2510194-04 wg2039087
81	8	wg2039087-3 wg2039087

82	9	wg2039087-4 wg2039087
83	10	L2510194-01 wg2039087
84	11	Check STD(5ug/L)
85	12	Check Blank
86	13	L2510194-05 wg2039087
87	14	L2510194-08 wg2039087
88	15	WG2039473-1 WG2039473
89	16	WG2039473-2 WG2039473
90	17	L2511511-03 WG2039473
91	18	WG2039473-3 WG2039473
92	19	WG2039473-4 WG2039473
93	20	WG2039477-1 WG2039477
94	21	WG2039477-2 WG2039477
95	22	l2513345-01 WG2039477
96	23	Check STD(5ug/L)
97	24	Check Blank
98	25	WG2039477-3 WG2039477
99	26	WG2039477-4 WG2039477
100	27	Check STD(5ug/L)
101	28	Check Blank
102	29	wg2039529-1 wg2039529
103	30	wg2039529-2 wg2039529
104	31	l2512738-01 wg2039529
105	32	wg2039529-3 wg2039529
106	33	wg2039529-4 wg2039529
107	34	l2513827-01 wg2039529
108	35	Check STD(5ug/L)
109	36	Check Blank
110	37	l2512738-02 wg2039529
111	38	l2512738-03 wg2039529
112	39	l2513174-10 wg2039529
113	40	l2513372-01 wg2039529
114	47	Check STD(5ug/L)
115	48	Check Blank

METALS ELN REPORT

Workgroup: WG2039058

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 245.1	HNO3	24015917	H2SO4	24016430	METALS	METSPIKE	HG25080616 10NRS	METSPIKE	HG25080616 10NRS	320, 344

Additional Reagent/Std	K2O8S2	PS2509061645NRS
	KMnO4	PP25010101205NRS
	NaCl-NH2OH.HCl	HH2509071510MJR
		ICV2508241205CME

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol ml	Spike Amt	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2512368-01 SAMP	03/11/25 12:04	Aidan Martin	NA	25		03/11/25 12:04	5	94.1	03/11/25 14:05	25	
L2512368-02 SAMP	03/11/25 12:04	Aidan Martin	NA	25		03/11/25 12:04	5	94.1	03/11/25 14:05	25	
L2512368-04 SAMP	03/11/25 12:04	Aidan Martin	NA	25		03/11/25 12:04	5	94.1	03/11/25 14:05	25	
L2512368-05 SAMP	03/11/25 12:04	Aidan Martin	NA	25		03/11/25 12:04	5	94.1	03/11/25 14:05	25	
L2512368-07 SAMP	03/11/25 12:04	Aidan Martin	NA	25		03/11/25 12:04	5	94.1	03/11/25 14:05	25	
L2512368-08 SAMP	03/11/25 12:04	Aidan Martin	NA	25		03/11/25 12:04	5	94.1	03/11/25 14:05	25	
L2512368-10 SAMP	03/11/25 12:04	Aidan Martin	NA	25		03/11/25 12:04	5	94.1	03/11/25 14:05	25	
L2512368-11 SAMP	03/11/25 12:04	Aidan Martin	NA	25		03/11/25 12:04	5	94.1	03/11/25 14:05	25	

METALS ELN REPORT

Workgroup: WG2039058

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2512368-13 SAMP	03/11/25 12:04	Aidan Martin	NA	25	03/11/25 12:04	5	94.1	03/11/25 14:05	25	
L2512368-14 SAMP	03/11/25 12:04	Aidan Martin	NA	25	03/11/25 12:04	5	94.1	03/11/25 14:05	25	
L2512368-16 SAMP	03/11/25 12:04	Aidan Martin	NA	25	03/11/25 12:04	5	94.1	03/11/25 14:05	25	
L2512368-17 SAMP	03/11/25 12:04	Aidan Martin	NA	25	03/11/25 12:04	5	94.1	03/11/25 14:05	25	
L2512368-19 SAMP	03/11/25 12:04	Aidan Martin	NA	25	03/11/25 12:04	5	94.1	03/11/25 14:05	25	
L2512607-01 SAMP	03/11/25 20:37	Maisie Mcqueen	NA	25	03/11/25 20:37	5	94.0	03/11/25 22:37	25	
L2512607-02 SAMP	03/11/25 20:37	Maisie Mcqueen	NA	25	03/11/25 20:37	5	94.0	03/11/25 22:37	25	
L2512607-03 SAMP	03/11/25 20:37	Maisie Mcqueen	NA	25	03/11/25 20:37	5	94.0	03/11/25 22:37	25	
L2512607-04 SAMP	03/11/25 20:37	Maisie Mcqueen	NA	25	03/11/25 20:37	5	94.0	03/11/25 22:37	25	
L2512607-05 SAMP	03/11/25 20:37	Maisie Mcqueen	NA	25	03/11/25 20:37	5	94.0	03/11/25 22:37	25	
L2512607-06 SAMP	03/11/25 20:37	Maisie Mcqueen	NA	25	03/11/25 20:37	5	94.0	03/11/25 22:37	25	
WG2039058-1 BLANK	03/11/25 12:04	Aidan Martin	NA	25	03/11/25 12:04	5	94.1	03/11/25 14:05	25	ELN: ADG

Reported: 13-MAR-25 12:36 PM

METALS ELN REPORT

Workgroup: WG2039058

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
WG2039058-2 LCS	03/11/25 12:04	Aidan Martin	NA	25	0.25	03/11/25 12:04	5	94.1	03/11/25 14:05	25	
WG2039058-3 MS	03/11/25 12:04	Aidan Martin	NA	25	1.25	03/11/25 12:04	5	94.1	03/11/25 14:05	25	
WG2039058-4 MSD	03/11/25 12:04	Aidan Martin	NA	25	1.25	03/11/25 12:04	5	94.1	03/11/25 14:05	25	
WG2039058-5 MS	03/11/25 12:04	Aidan Martin	NA	25	1.25	03/11/25 12:04	5	94.1	03/11/25 14:05	25	
WG2039058-6 DUP	03/11/25 12:04	Aidan Martin	NA	25		03/11/25 12:04	5	94.1	03/11/25 14:05	25	

Reagent	Actual Volume	Units
Sulfuric Acid (H2SO4)	1.25	ml
Nitric Acid (HNO3)	.625	ml
Potassium Permanganat	3.75	ml
Potassium Persulfate (K	2	ml
NaCl-Hydroxylamine Hy	1.5	ml

METALS ELN REPORT

Workgroup: WG2039060

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 245.1	HNO3	24015917	H2SO4	24016430	METALS	METSPIKE	HG25080616 10NRS	METSPIKE	HG25080616 10NRS	320, 344

Additional Reagent/Std	K2O8S2	PS2509061645NRS
	KMnO4	PP25010101205NRS
	NaCl-NH2OH.HCl	HH2509071510MJR
		ICV2508241205CME

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2512368-01 SAMP	03/11/25 20:37	Maisie Mcqueen	25		03/11/25 20:37	5	94.0	03/11/25 22:37	25	
L2512368-02 SAMP	03/11/25 20:37	Maisie Mcqueen	25		03/11/25 20:37	5	94.0	03/11/25 22:37	25	
L2512368-04 SAMP	03/11/25 20:37	Maisie Mcqueen	25		03/11/25 20:37	5	94.0	03/11/25 22:37	25	
L2512368-05 SAMP	03/11/25 20:37	Maisie Mcqueen	25		03/11/25 20:37	5	94.0	03/11/25 22:37	25	
L2512368-07 SAMP	03/11/25 20:37	Maisie Mcqueen	25		03/11/25 20:37	5	94.0	03/11/25 22:37	25	
L2512368-08 SAMP	03/11/25 20:37	Maisie Mcqueen	25		03/11/25 20:37	5	94.0	03/11/25 22:37	25	
L2512368-10 SAMP	03/11/25 20:37	Maisie Mcqueen	25		03/11/25 20:37	5	94.0	03/11/25 22:37	25	
L2512368-11 SAMP	03/11/25 20:37	Maisie Mcqueen	25		03/11/25 20:37	5	94.0	03/11/25 22:37	25	

METALS ELN REPORT

Workgroup: WG2039060

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2512368-13 SAMP	03/11/25 20:37	Maisie Mcqueen	25		03/11/25 20:37	5	94.0	03/11/25 22:37	25	
L2512368-14 SAMP	03/11/25 20:37	Maisie Mcqueen	25		03/11/25 20:37	5	94.0	03/11/25 22:37	25	
L2512368-16 SAMP	03/11/25 20:37	Maisie Mcqueen	25		03/11/25 20:37	5	94.0	03/11/25 22:37	25	
L2512368-17 SAMP	03/11/25 20:37	Maisie Mcqueen	25		03/11/25 20:37	5	94.0	03/11/25 22:37	25	
L2512368-19 SAMP	03/11/25 20:37	Maisie Mcqueen	25		03/11/25 20:37	5	94.0	03/11/25 22:37	25	
L2512607-01 SAMP	03/11/25 12:04	Maisie Mcqueen	25		03/11/25 12:04	5	94.1	03/11/25 14:05	25	
L2512607-02 SAMP	03/11/25 12:04	Maisie Mcqueen	25		03/11/25 12:04	5	94.1	03/11/25 14:05	25	
L2512607-03 SAMP	03/11/25 12:04	Maisie Mcqueen	25		03/11/25 12:04	5	94.1	03/11/25 14:05	25	
L2512607-04 SAMP	03/11/25 12:04	Maisie Mcqueen	25		03/11/25 12:04	5	94.1	03/11/25 14:05	25	
L2512607-05 SAMP	03/11/25 12:04	Maisie Mcqueen	25		03/11/25 12:04	5	94.1	03/11/25 14:05	25	
L2512607-06 SAMP	03/11/25 12:04	Maisie Mcqueen	25		03/11/25 12:04	5	94.1	03/11/25 14:05	25	
WG2039060-1 BLANK	03/11/25 20:37	Maisie Mcqueen	25		03/11/25 20:37	5	94.0	03/11/25 22:37	25	ELN: ndd

Reported: 13-MAR-25 12:36 PM

METALS ELN REPORT

Workgroup: WG2039060

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
WG2039060-2 LCS	03/11/25 20:37	Maisie Mcqueen	25	0.25	03/11/25 20:37	5	94.0	03/11/25 22:37	25	
WG2039060-3 MS	03/11/25 20:37	Maisie Mcqueen	25	1.25	03/11/25 20:37	5	94.0	03/11/25 22:37	25	
WG2039060-4 MSD	03/11/25 20:37	Maisie Mcqueen	25	1.25	03/11/25 20:37	5	94.0	03/11/25 22:37	25	
WG2039060-5 MS	03/11/25 20:37	Maisie Mcqueen	25	1.25	03/11/25 20:37	5	94.0	03/11/25 22:37	25	
WG2039060-6 DUP	03/11/25 20:37	Maisie Mcqueen	25		03/11/25 20:37	5	94.0	03/11/25 22:37	25	

Reagent	Actual Volume	Units
Sulfuric Acid (H2SO4)	1.25	ml
Nitric Acid (HNO3)	.625	ml
Potassium Permanganat	3.75	ml
Potassium Persulfate (K	2	ml
NaCl-Hydroxylamine Hy	1.5	ml

Reported: 13-MAR-25 12:36 PM

Wet Chemistry

Total Nitrogen Analysis

Results

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-01	**Date Collected**	:	03/06/25 10:30
Client ID	:	MW-4S	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/13/25 14:40
Sample Matrix	:	WATER	**Dilution Factor**	:	1.6
Analytical Method	:	107,-	**Analyst**	:	JRO
Lab File ID	:	WG2040210.csv	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	9.4	0.50	0.48	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-02	**Date Collected**	:	03/06/25 10:24
Client ID	:	MW-4D2	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/13/25 14:40
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	107,-	**Analyst**	:	JRO
Lab File ID	:	WG2040210.csv	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	1.4	0.30	0.30	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-03	**Date Collected**	:	03/06/25 09:13
Client ID	:	MW-12S	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/13/25 14:40
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	107,-	**Analyst**	:	JRO
Lab File ID	:	WG2040210.csv	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	3.7	0.30	0.30	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-04	**Date Collected**	:	03/06/25 08:46
Client ID	:	MW-12D	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/13/25 14:40
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	107,-	**Analyst**	:	JRO
Lab File ID	:	WG2040210.csv	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	4.6	0.30	0.30	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-05	**Date Collected**	:	03/06/25 11:51
Client ID	:	SCDOH_DR	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/13/25 14:40
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	107,-	**Analyst**	:	JRO
Lab File ID	:	WG2040210.csv	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	3.8	0.30	0.30	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-06	**Date Collected**	:	03/06/25 12:00
Client ID	:	EQUIPMENT BLANK	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/13/25 14:40
Sample Matrix	:	Equipment Blank	**Dilution Factor**	:	1
Analytical Method	:	107,-	**Analyst**	:	JRO
Lab File ID	:	WG2040210.csv	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

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

Sample Raw Data

PACE ANALYTICAL LABS

WET CHEMISTRY DEPARTMENT

TOTAL NITROGEN

Last Change 3/5/13 GFF
File tnitrogen.xlt

Sample #: _____

Client: _____

Analysis: **Total Nitrogen**

Method: ***Calculation from TKN & NO3/NO2***

Product: **TNITROGEN**
Analyte: **Total Nitrogen,**
Analysis Date: 3/13/2025 14:40
Technician: JRO
Work group: WG2040210
RL: **0.3 mg/L**

	Sample Number	TKN (mg/L)	NO3/NO2 (mg/L)	RL Multiplier	Result (mg/L)
SAMP	L2512368-01	1.11	0.13	5.0	0.13
SAMP	L2512368-02	0	2.2	1.0	2.2
SAMP	L2512368-04	0.176	0.22	1.0	0.22
SAMP	L2512368-05	0	1.8	1.0	1.8
SAMP	L2512368-07	0.314	0.35	1.0	0.664
SAMP	L2512368-08	0.0752	0.31	1.0	0.31
SAMP	L2512368-10	0.068	1.3	1.0	1.3
SAMP	L2512368-11	0.39	0.52	1.0	0.91
SAMP	L2512368-13	0	5.3	1.0	5.3
SAMP	L2512368-14	0.215	0	1.0	0.215
SAMP	L2512368-16	0	3.9	1.0	3.9
SAMP	L2512368-17	0	2.4	1.0	2.4
SAMP	L2512368-19	0	4	1.0	4
SAMP	L2512532-01	0.717	0	1.0	0.717
SAMP	L2512532-02	0.412	0	1.0	0.412
SAMP	L2512532-03	0.573	0	1.0	0.573
SAMP	L2512534-01	0.76	0.16	1.0	0.92
SAMP	L2512607-01	0	9.4	1.6	9.4
SAMP	L2512607-02	0	1.4	1.0	1.4
SAMP	L2512607-03	0.0908	3.7	1.0	3.7
SAMP	L2512607-04	0	4.6	1.0	4.6
SAMP	L2512607-05	0	3.8	1.0	3.8
SAMP	L2512607-06	0	0	1.0	0
SAMP	L2512628-01	0	20	1.6	20
SAMP	L2512663-01	0.344	0.62	1.0	0.964
SAMP	L2512679-01	0.081	0.072	1.0	0.153

Calculations of Total Nitrogen

Calculate the concentration value based on results for TKN-N and N03/NO2-N.

Aqueous samples:

mgTN-N/L = TKN-N(mg/l) + NO3/NO2-N (mg/l)

Soil samples:

mgTN-N/Kg = TKN-N(mg/Kg) + NO3/NO2-N(mg/Kg)

Total Kjeldahl Nitrogen Analysis

Results

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-01	**Date Collected**	:	03/06/25 10:30
Client ID	:	MW-4S	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/12/25 09:46
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	4,351.1	**Analyst**	:	KEM
Lab File ID	:	NH320250312-A	**Instrument ID**	:	LACHAT
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	03/11/25

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

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-02	**Date Collected**	:	03/06/25 10:24
Client ID	:	MW-4D2	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/12/25 09:47
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	4,351.1	**Analyst**	:	KEM
Lab File ID	:	NH320250312-A	**Instrument ID**	:	LACHAT
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	03/11/25

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

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-03	**Date Collected**	:	03/06/25 09:13
Client ID	:	MW-12S	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/12/25 09:48
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	4,351.1	**Analyst**	:	KEM
Lab File ID	:	NH320250312-A	**Instrument ID**	:	LACHAT
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	03/11/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.090	0.300	0.066	J

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-04	**Date Collected**	:	03/06/25 08:46
Client ID	:	MW-12D	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/12/25 09:49
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	4,351.1	**Analyst**	:	KEM
Lab File ID	:	NH320250312-A	**Instrument ID**	:	LACHAT
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	03/11/25

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

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-05	**Date Collected**	:	03/06/25 11:51
Client ID	:	SCDOH_DR	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/12/25 09:55
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	4,351.1	**Analyst**	:	KEM
Lab File ID	:	NH320250312-A	**Instrument ID**	:	LACHAT
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	03/11/25

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

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-06	**Date Collected**	:	03/06/25 12:00
Client ID	:	EQUIPMENT BLANK	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/12/25 09:56
Sample Matrix	:	Equipment Blank	**Dilution Factor**	:	1
Analytical Method	:	4,351.1	**Analyst**	:	KEM
Lab File ID	:	NH320250312-A	**Instrument ID**	:	LACHAT
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	03/11/25

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

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2039229-1	**Date Collected**	: NA
Client ID	: WG2039229-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/12/25 09:33
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: KEM
Lab File ID	: NH320250312-A	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 03/11/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.109	0.300	0.022	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2039229-3	**Date Collected**	: 03/06/25 11:51
Client ID	: SCDOH_DRDUP	**Date Received**	: 03/06/25
Sample Location	:	**Date Analyzed**	: 03/12/25 09:55
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: KEM
Lab File ID	: NH320250312-A	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 03/11/25

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

Sample Raw Data

Original Run Filename: OM_3-12-2025_09-11-33AM.OMN Created: 3/12/2025 9:11:33 AM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_3-12-2025_09-11-33AM.OMN Last Modified: 3/12/2025 10:03:34 AM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

	Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	
	STD 1	1	S1	10.00000				TRAY A
	STD 2	1	S2	8.00000				
	STD 3	1	S3	4.00000				
	STD 4	1	S4	2.00000				
	STD 5	1	S5	1.00000				
	STD 6	1	S6	0.40000				
	STD 7	1	S7	0.20000				
	STD 8	1	S8	0.10000				
	STD 9	1	S9	0.05000				
	STD 10	1	S10	0.00000				
	CCV 0.4000	1	S6	0.38789				97%
		Known Conc:		100.00000				
		Calibration:		Table/Fig. : 1				
	CCV 4.0000	1	S3	3.97144				99%
		Known Conc:		100.00000				
	CCB	1	S10	0.02164				
		Known Conc:		100.00000				
	HI ICV 8.0	1	1	7.98387				100%
	LO ICV 1.0	1	2	0.99055				99%
	ICB	1	3	0.01123				
	WG2039229-1 T	1	4	0.03635				
	WG2039229-2 T	1	5	37.97136		15.00		95%
	LCS LO T	1	6	3.84650		3.00		96%
	L2512264-05 T	1	7	0.23875		3.00		
	L2512264-06 T	1	8	0.24491		3.00		
	L2512325-04 T	1	9	0.44915		3.00		
	L2512325-05 T	1	10	0.06418		3.00		
	CCV 0.4000	1	S6	0.38463				96%
		Known Conc:		100.00000				
	CCV 4.0000	1	S3	3.97418				99%
		Known Conc:		100.00000				
	CCB	1	S10	0.01835				
		Known Conc:		100.00000				
	L2512325-06 T	1	11	0.04992		3.00		
	L2512325-07 T	1	12	0.06553		3.00		
	L2512325-08 T	1	13	0.10417		3.00		
	L2512325-09 T	1	14	0.05818		3.00		
	L2512607-01 T	1	15	0.03741		3.00		
	L2512607-02 T	1	16	0.02943		3.00		
	L2512607-03 T	1	17	0.09075		3.00		
	L2512607-04 T	1	18	0.02021		3.00		
	WG2039229-4 T	1	19	7.84435		3.00		98%
X	WG2039229-3 T	1	20	0.24846		3.00		RERUN
	CCV 0.4000	1	S6	0.39364				98%
		Known Conc:		100.00000				
	CCV 4.0000	1	S3	4.01293				100%
		Known Conc:		100.00000				
	CCB	1	S10	0.02132				
		Known Conc:		100.00000				
	WG2039229-3 T	1	20	0.04910		3.00		RPD=NC
	L2512607-05 T	1	21	0.06258		3.00		
	L2512607-06 T	1	22	0.05983		3.00		
	CCV 0.4000	1	S6	0.38657				97%
		Known Conc:		100.00000				
	CCV 4.0000	1	S3	3.98718				100%
		Known Conc:		100.00000				
	CCB	1	S10	0.02015				
		Known Conc:		100.00000				

Channel 2 (Ammonia High) - Current View

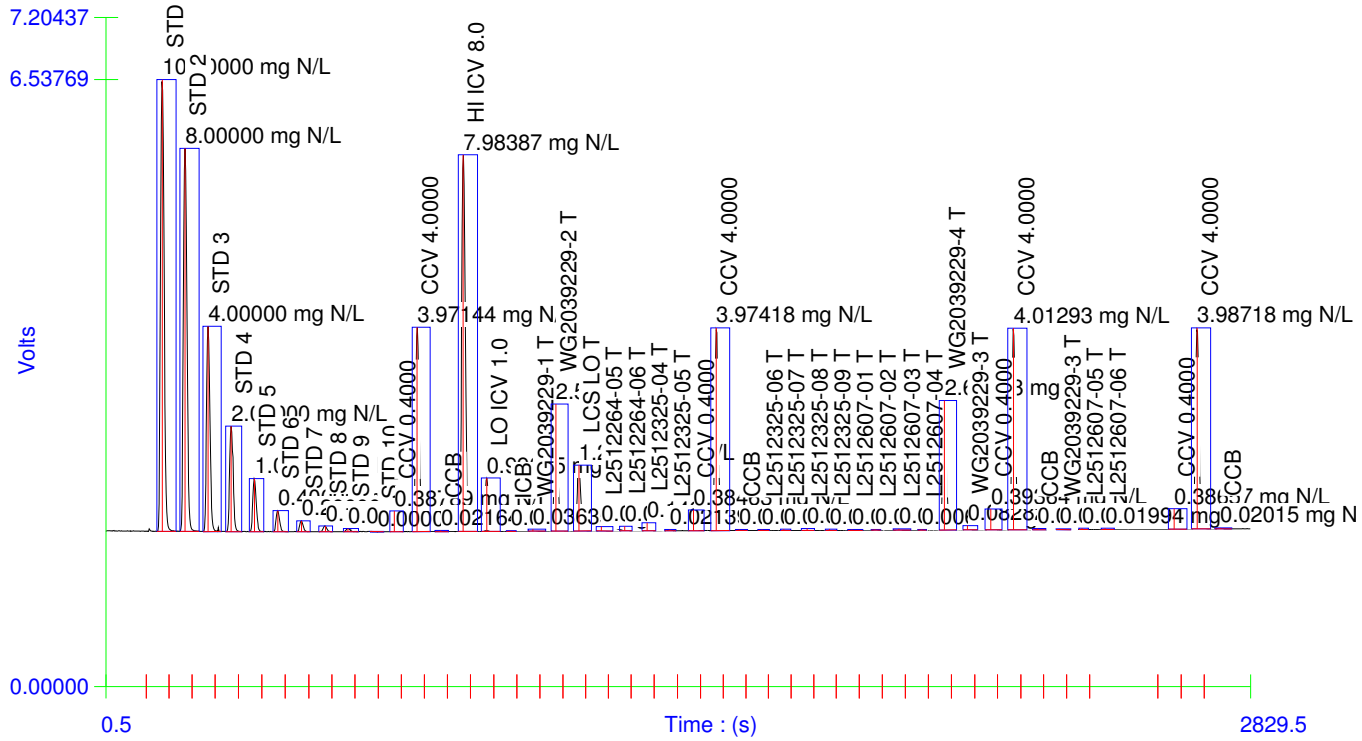
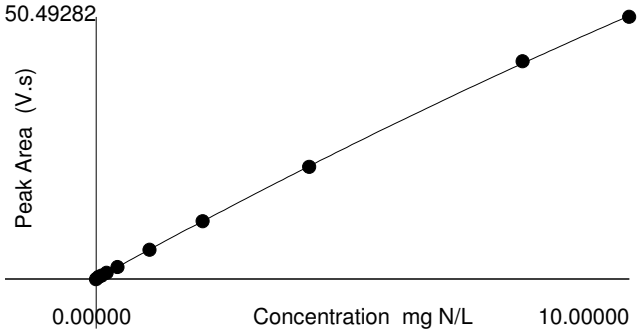


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	50.49282	4.86670	0.0	0.4	9.94222	3/12/2025	9:17:59 AM
2	8.00000	1	41.90501	4.12624	0.0	-0.8	8.08679	3/12/2025	9:18:56 AM
3	4.00000	1	21.62955	2.21178	0.0	0.7	3.97243	3/12/2025	9:19:53 AM
4	2.00000	1	11.13103	1.13489	0.0	0.2	1.98899	3/12/2025	9:20:50 AM
5	1.00000	1	5.62668	0.57165	0.0	0.5	0.98915	3/12/2025	9:21:47 AM
6	0.40000	1	2.25117	0.22563	0.0	1.9	0.38964	3/12/2025	9:22:45 AM
7	0.20000	1	1.16573	0.11601	0.0	-0.1	0.19906	3/12/2025	9:23:43 AM
8	0.10000	1	0.63303	0.06261	0.0	-5.8	0.10592	3/12/2025	9:24:42 AM
9	0.05000	1	0.39652	0.03574	0.0	-26.2	0.06465	3/12/2025	9:25:39 AM
10	0.00000	1	-0.06175	-0.00398			-0.01517	3/12/2025	9:26:36 AM

Author: A1WETCHEMINSTRUMENT Date : 3/12/2025

Figure : 1 (Ammonia)



Area = - 0.06219 * Conc^2 + 5.68863 * Conc + 0.02981
Conc = 0.00045 * Area^2 + 0.17402 * Area - 0.00443
Correlation Coefficient (r) = 0.99998

Weighting : 1/x

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: SCDOH_DR	**Matrix**	: WATER
Lab Sample ID	: L2512607-05		
Matrix Spike	: WG2039229-4	**MS Analysis Date**	: 03/12/25 09:50
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Nitrogen, Total Kjeldahl	ND	8	7.84	98					77-111	24

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: SCDOH_DR	**Matrix**	: WATER
Lab Sample ID	: L2512607-05	**Analysis Date**	: 03/12/25 09:55
Dup Sample ID	: WG2039229-3	**DUP Analysis Date**	: 03/12/25 09:55

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Total Kjeldahl	ND	ND	NC	24

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2039229-2	**LCS Analysis Date**	: 03/12/25 09:34
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/l)	(mg/l)		(mg/l)	(mg/l)			Limits	Limit
Nitrogen, Total Kjeldahl	40.0	38.0	95.					78-122	24

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Total Kjeldahl	NONE	0.3	0.066	mg/l	78-122		77-111	24	24	4500NH3-H	28 days	1 - Plastic 500ml H2SO4 preserved
Nitrogen, Total Kjeldahl	NONE	0.3	0.066	mg/l	78-122		77-111	24	24	351.1	28 days	1 - Plastic 500ml H2SO4 preserved

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

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Total Kjeldahl	NONE	150	31.5	mg/kg	81-115	26	43-160	26	26	4500NH3-H	28 days	1 - Glass 250ml/8oz unpreserved

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

Calculations of Nitrogen in TKN

Aqueous samples:

Compute sample TKN –N concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

If the sample has a concentration of less than 2ppm, calculate results by using the low curve generated on Channel 1.

If the sample concentration is greater than 2ppm, calculate the results by using the high curve generated on Channel 2.

To Compute the final results for aqueous samples, multiply the direct reading by the dilution factor based on the initial preparation volume. (also done using software)

TKN-N mg/L = mg/L direct reading x dilution factor

Sequence Logs

From Page No. ____

Tray A(09-11-33AM)
prep 3/11/25 @ 19:05

1	Hi ICV 8.0		
2	Lo ICV 1.0		
3	ICB		
4	WG2039229-1T Blk		
5		-2T LCS Hi, 5X	
6	LCS Lo T		
7	12264	D5T	
8		D6T	
9	12325	D4T	
10		D5T	
11		D6T	
12		D7T	
13		D8T	
14		D9T	
15	12607	D1T	
16		D2T	
17		D3T	
18		D4T	
19		D5T	MS
⊗ 20		D5T	Dup, rerun
21		D5T	
22		D6T	

Date: 3/12/25
Sodium Phenolate: 3/4/25 R-4161
Sodium Hypochlorate: 3/4/25 stop+shop
Sodium Nitropruisside: 3/4/25 R-3969
Borric Acid Soln.: 3/4/25 R-4019
ICV 1.0: 3/4/25 wc-3495
ICV 8.0: 3/6/25 wc-3561
Cal. Std:
See Front Page for Instructions:

KFM

To Page No

Witnessed & Understood by me, Date | Invented by: Date
Recorded by:

Sample Preparation

Project No. _____
Book No. _____
WG2039229
From Page No. ____

Sample	Dilution	Volume	Final Vol.
Blank	1X	50mL	150mL
Low			
High			
L2512264-05			
-06			
12325-04			
-05			
-06			
-07			
-08			
-09			
12607-01			
-02			
-03			
-04			
-05 PT			
-05 Dup			
-05 MS			
-06			

Same Standards & Reagents as previous pg #55

03 11 25 @ 19:05 SAD

To Page No

Witnessed & Understood by me, Date

Invented by: Date

Recorded by:

Nitrate and Nitrite Analysis

Results

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-01	**Date Collected**	:	03/06/25 10:30
Client ID	:	MW-4S	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/08/25 02:43
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3250308-A1	**Instrument ID**	:	FIA1
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrite	ND	0.050	0.013	U

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-02	**Date Collected**	:	03/06/25 10:24
Client ID	:	MW-4D2	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/08/25 02:49
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3250308-A1	**Instrument ID**	:	FIA1
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrite	ND	0.050	0.013	U

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-03	**Date Collected**	:	03/06/25 09:13
Client ID	:	MW-12S	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/08/25 02:53
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3250308-A1	**Instrument ID**	:	FIA1
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrite	ND	0.050	0.013	U

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-04	**Date Collected**	:	03/06/25 08:46
Client ID	:	MW-12D	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/08/25 02:54
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3250308-A1	**Instrument ID**	:	FIA1
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrite	ND	0.050	0.013	U

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-05	**Date Collected**	:	03/06/25 11:51
Client ID	:	SCDOH_DR	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/08/25 02:56
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3250308-A1	**Instrument ID**	:	FIA1
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrite	ND	0.050	0.013	U

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2512607
Project Name	:	CORAM MATERIALS	Project Number	:	2232.0006Y005
Lab ID	:	L2512607-06	Date Collected	:	03/06/25 12:00
Client ID	:	EQUIPMENT BLANK	Date Received	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	:	03/08/25 02:57
Sample Matrix	:	Equipment Blank	Dilution Factor	:	1
Analytical Method	:	121,4500NO3-F	Analyst	:	KAF
Lab File ID	:	NO3250308-A1	Instrument ID	:	FIA1
Sample Amount	:		%Solids	:	N/A
Digestion Method	:		Date Digested	:	

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
NONE	Nitrogen, Nitrite	ND	0.050	0.013	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2037984-1	**Date Collected**	: NA
Client ID	: WG2037984-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/08/25 02:27
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3250308-A1	**Instrument ID**	: FIA1
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrite	0.019	0.050	0.013	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2037984-3	**Date Collected**	: 03/06/25 10:30
Client ID	: MW-4SDUP	**Date Received**	: 03/06/25
Sample Location	:	**Date Analyzed**	: 03/08/25 02:47
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3250308-A1	**Instrument ID**	: FIA1
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrite	ND	0.050	0.013	U

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-01	**Date Collected**	:	03/06/25 10:30
Client ID	:	MW-4S	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/08/25 05:25
Sample Matrix	:	WATER	**Dilution Factor**	:	5
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3250308-A1	**Instrument ID**	:	FIA1
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14797-55-8	Nitrogen, Nitrate	9.41	0.500	0.114	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-02	**Date Collected**	:	03/06/25 10:24
Client ID	:	MW-4D2	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/08/25 04:19
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3250308-A1	**Instrument ID**	:	FIA1
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14797-55-8	Nitrogen, Nitrate	1.42	0.100	0.022	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-03	**Date Collected**	:	03/06/25 09:13
Client ID	:	MW-12S	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/08/25 02:53
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3250308-A1	**Instrument ID**	:	FIA1
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14797-55-8	Nitrogen, Nitrate	3.66	0.100	0.022	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-04	**Date Collected**	:	03/06/25 08:46
Client ID	:	MW-12D	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/08/25 02:54
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3250308-A1	**Instrument ID**	:	FIA1
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14797-55-8	Nitrogen, Nitrate	4.62	0.100	0.022	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-05	**Date Collected**	:	03/06/25 11:51
Client ID	:	SCDOH_DR	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/08/25 02:56
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3250308-A1	**Instrument ID**	:	FIA1
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14797-55-8	Nitrogen, Nitrate	3.79	0.100	0.022	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-06	**Date Collected**	:	03/06/25 12:00
Client ID	:	EQUIPMENT BLANK	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/08/25 02:57
Sample Matrix	:	Equipment Blank	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3250308-A1	**Instrument ID**	:	FIA1
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14797-55-8	Nitrogen, Nitrate	ND	0.100	0.022	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2037986-1	**Date Collected**	: NA
Client ID	: WG2037986-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/08/25 02:31
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3250308-A1	**Instrument ID**	: FIA1
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14797-55-8	Nitrogen, Nitrate	ND	0.100	0.022	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2037986-3	**Date Collected**	: 03/06/25 10:30
Client ID	: MW-4SDUP	**Date Received**	: 03/06/25
Sample Location	:	**Date Analyzed**	: 03/08/25 05:26
Sample Matrix	: WATER	**Dilution Factor**	: 5
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3250308-A1	**Instrument ID**	: FIA1
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14797-55-8	Nitrogen, Nitrate	9.27	0.500	0.114	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-01	**Date Collected**	:	03/06/25 10:30
Client ID	:	MW-4S	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/08/25 05:25
Sample Matrix	:	WATER	**Dilution Factor**	:	5
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3250308-A1	**Instrument ID**	:	FIA1
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	9.4	0.50	0.23	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-02	**Date Collected**	:	03/06/25 10:24
Client ID	:	MW-4D2	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/08/25 04:19
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3250308-A1	**Instrument ID**	:	FIA1
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	1.4	0.10	0.046	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-03	**Date Collected**	:	03/06/25 09:13
Client ID	:	MW-12S	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/08/25 02:53
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3250308-A1	**Instrument ID**	:	FIA1
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	3.7	0.10	0.046	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-04	**Date Collected**	:	03/06/25 08:46
Client ID	:	MW-12D	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/08/25 02:54
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3250308-A1	**Instrument ID**	:	FIA1
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	4.6	0.10	0.046	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-05	**Date Collected**	:	03/06/25 11:51
Client ID	:	SCDOH_DR	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/08/25 02:56
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3250308-A1	**Instrument ID**	:	FIA1
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	3.8	0.10	0.046	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-06	**Date Collected**	:	03/06/25 12:00
Client ID	:	EQUIPMENT BLANK	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/08/25 02:57
Sample Matrix	:	Equipment Blank	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3250308-A1	**Instrument ID**	:	FIA1
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

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

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2037987-1	**Date Collected**	: NA
Client ID	: WG2037987-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/08/25 02:31
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3250308-A1	**Instrument ID**	: FIA1
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

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

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2037987-3	**Date Collected**	: 03/06/25 10:30
Client ID	: MW-4SDUP	**Date Received**	: 03/06/25
Sample Location	:	**Date Analyzed**	: 03/08/25 05:26
Sample Matrix	: WATER	**Dilution Factor**	: 5
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3250308-A1	**Instrument ID**	: FIA1
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	9.3	0.50	0.23	

Sample Raw Data

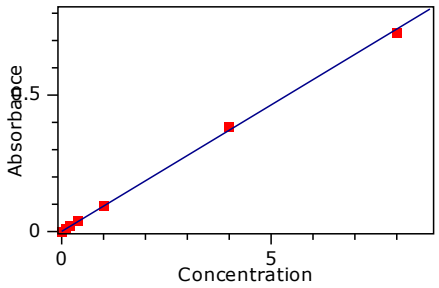
Graphical report generated by FIAsoft v3.1.10
Report generated on 2025-03-08 06:27:21
Data file (.dat): C:\FIAlab\Autosave Data\2025-03-08-062656.dat

Dataset Notes:

Analyst	

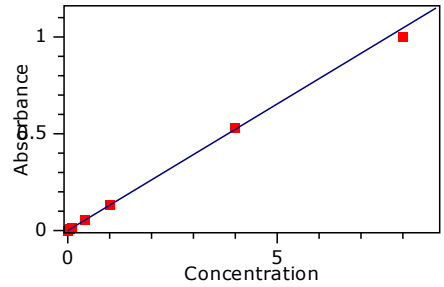
Dataset Notes Table Location: C:\FIAlab\FIAlab User Files\Tables\Dataset Notes\Analyst.csv

Calibrations:



Channel: 1-NOx
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: 0.00055
B: 0.09267
R^2: 0.99937
RSE(%): 2.26557
% Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
2	NOx 8.0ppm	0.72700	8.00000	7.83910	2.01	2025-03-08T01:51:12
3	NOx 4.0ppm	0.38320	4.00000	4.12940	3.23	2025-03-08T01:52:21
4	NOx 1.0ppm	0.09330	1.00000	1.00030	0.03	2025-03-08T01:53:28
5	NOx 0.4ppm	0.03770	0.40000	0.40090	0.22	2025-03-08T01:54:36
6	NOx 0.2ppm	0.01870	0.20000	0.19560	2.18	2025-03-08T01:55:45
7	NOx 0.1ppm	0.00990	0.10000	0.10110	1.11	2025-03-08T01:56:55
8	NOx 0.0ppm	0.00000	0.00000	-0.00560	NA	2025-03-08T01:58:04



Channel: 2-NO2
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: 0.00027
B: 0.13074
R^2: 0.99930
RSE(%): 2.87097
% Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
9	Nitrite 8.0ppm	1.00120	8.00000	7.65580	4.30	2025-03-08T01:59:03
10	Nitrite 4.0ppm	0.52920	4.00000	4.04600	1.15	2025-03-08T02:00:12
11	Nitrite 1.0ppm	0.13250	1.00000	1.01140	1.14	2025-03-08T02:01:19
12	Nitrite 0.4ppm	0.05430	0.40000	0.41360	3.40	2025-03-08T02:02:28
13	Nitrite 0.1ppm	0.01330	0.10000	0.09950	0.51	2025-03-08T02:03:38
14	Nitrite 0.05ppm	0.00680	0.05000	0.04990	0.20	2025-03-08T02:04:47
15	Nitrite 0.0ppm	0.00020	0.00000	-0.00030	NA	2025-03-08T02:06:00

Results:

Channel: 1-NOx

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
Stabil	1	Unknown	?	0.0001	1	1	1	-0.0044		2025-03-08T01:49:56
NOx 8.0ppm	2	Standard	8	0.7270	1	1	1	7.8391		2025-03-08T01:51:12
NOx 4.0ppm	3	Standard	4	0.3832	1	1	1	4.1294		2025-03-08T01:52:21
NOx 1.0ppm	4	Standard	1	0.0933	1	1	1	1.0003		2025-03-08T01:53:28
NOx 0.4ppm	5	Standard	0.4	0.0377	1	1	1	0.4009		2025-03-08T01:54:36
NOx 0.2ppm	6	Standard	0.2	0.0187	1	1	1	0.1956		2025-03-08T01:55:45
NOx 0.1ppm	7	Standard	0.1	0.0099	1	1	1	0.1011		2025-03-08T01:56:55
NOx 0.0ppm	8	Standard	0	0.0000	1	1	1	-0.0056		2025-03-08T01:58:04
Nitrite 8.0ppm	9	Standard	?	0.7734	1	1	1	8.3392	OVR	2025-03-08T01:59:15
Nitrite 4.0ppm	10	Standard	?	0.3924	1	1	1	4.2283		2025-03-08T02:00:25
Nitrite 1.0ppm	11	Standard	?	0.0950	1	1	1	1.0193		2025-03-08T02:01:32
Nitrite 0.4ppm	12	Standard	?	0.0393	1	1	1	0.4180		2025-03-08T02:02:40
Nitrite 0.1ppm	13	Standard	?	0.0097	1	1	1	0.0984		2025-03-08T02:03:50
Nitrite 0.05ppm	14	Standard	?	0.0053	1	1	1	0.0514		2025-03-08T02:05:00
Nitrite 0.0ppm	15	Standard	?	0.0001	1	1	1	-0.0047		2025-03-08T02:06:15
CCV NO3	16	QC	1	0.0957	1	1	1	1.0270		2025-03-08T02:07:17
CCV NO2	17	QC	?	0.0978	1	1	1	1.0492		2025-03-08T02:08:22
CCB	18	QC	0	0.0005	1	1	1	-0.0008		2025-03-08T02:09:37
ICV NO3 5.0	19	QC	5	0.4720	1	1	1	5.0871		2025-03-08T02:10:39
ICV NO2 5.0	20	QC	?	0.4886	1	1	1	5.2662		2025-03-08T02:11:48
ICV NO3 0.5	21	QC	0.5	0.0467	1	1	1	0.4975		2025-03-08T02:12:57
ICV NO2 0.5	22	QC	?	0.0501	1	1	1	0.5350		2025-03-08T02:14:05
ICB	23	QC	0	0.0002	1	1	1	-0.0038		2025-03-08T02:15:19
Diluter CHK 8PPM	24	Unknown	?	0.1535	1	5	1	8.2539		2025-03-08T02:16:23
BLANK NO3	25	Unknown	?	0.0000	1	1	1	-0.0064		2025-03-08T02:17:04
LCS NO3	26	Unknown	?	0.4797	1	1	1	5.1704		2025-03-08T02:18:37
BLANK NO2	27	Unknown	?	-0.0001	1	1	1	-0.0074		2025-03-08T02:19:16
LCS NO2	28	Unknown	?	0.5006	1	1	1	5.3957		2025-03-08T02:20:49
CCV NO3	29	QC	1	0.0947	1	1	1	1.0162		2025-03-08T02:21:56
CCV NO2	30	QC	?	0.0963	1	1	1	1.0331		2025-03-08T02:23:01
CCB	31	QC	0	0.0008	1	1	1	0.0025		2025-03-08T02:24:16
WG2037983-1	32	Unknown	?	0.0000	1	1	1	-0.0056		2025-03-08T02:25:29

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
WG2037983-2	33	Unknown	?	0.4997	1	1	1	5.3866		2025-03-08T02:26:27
WG2037984-1	34	Unknown	?	-0.0004	1	1	1	-0.0102		2025-03-08T02:27:03
WG2037984-2	35	Unknown	?	0.4924	1	1	1	5.3069		2025-03-08T02:28:37
WG2037985/991-1	36	Unknown	?	0.0000	1	1	1	-0.0059		2025-03-08T02:29:47
WG2037985/991-2	37	Unknown	?	0.4771	1	1	1	5.1425		2025-03-08T02:30:48
WG2037986/987-1	38	Unknown	?	-0.0001	1	1	1	-0.0067		2025-03-08T02:31:28
WG2037986/987-2	39	Unknown	?	0.4758	1	1	1	5.1286		2025-03-08T02:33:02
WG2037988-1	40	Unknown	?	-0.0001	1	1	1	-0.0073		2025-03-08T02:33:41
WG2037988-2	41	Unknown	?	0.4771	1	1	1	5.1420		2025-03-08T02:35:14
CCV NO3	42	QC	1	0.0939	1	1	1	1.0077		2025-03-08T02:36:20
CCV NO2	43	QC	?	0.0971	1	1	1	1.0422		2025-03-08T02:37:25
CCB	44	QC	0	0.0008	1	1	1	0.0029		2025-03-08T02:38:40
WG2037989-1	45	Unknown	?	0.0000	1	1	1	-0.0061		2025-03-08T02:39:19
WG2037989-2	46	Unknown	?	0.4792	1	1	1	5.1645		2025-03-08T02:40:52
WG2037992-1	47	Unknown	?	-0.0001	1	1	1	-0.0072		2025-03-08T02:41:30
WG2037992-2	48	Unknown	?	0.4850	1	1	1	5.2272		2025-03-08T02:43:03
L2512607-01K	49	Unknown	?	0.8092	1	1	1	8.7257	OVR	2025-03-08T02:44:09
WG2037986/987-3	50	Unknown	?	0.8080	1	1	1	8.7131	OVR	2025-03-08T02:45:13
WG2037986/987-4	51	Unknown	?	1.0502	1	1	1	11.3269	OVR	2025-03-08T02:46:18
WG2037984-3	52	Unknown	?	0.8010	1	1	1	8.6369	OVR	2025-03-08T02:47:23
WG2037984-4	53	Unknown	?	1.0556	1	1	1	11.3844	OVR	2025-03-08T02:48:27
L2512607-02K	54	Unknown	?	0.1207	1	1	1	1.2966		2025-03-08T02:49:30
CCV NO3	55	QC	1	0.0954	1	1	1	1.0234		2025-03-08T02:50:35
CCV NO2	56	QC	?	0.0980	1	1	1	1.0518		2025-03-08T02:51:40
CCB	57	QC	0	0.0008	1	1	1	0.0022		2025-03-08T02:52:55
L2512607-03K	58	Unknown	?	0.3403	1	1	1	3.6658		2025-03-08T02:53:59
L2512607-04K	59	Unknown	?	0.4285	1	1	1	4.6175		2025-03-08T02:55:06
L2512607-05K	60	Unknown	?	0.3522	1	1	1	3.7940		2025-03-08T02:56:13
L2512607-06K	61	Unknown	?	-0.0001	1	1	1	-0.0067		2025-03-08T02:56:52
L2512648-01C	62	Unknown	?	0.0027	1	1	1	0.0236		2025-03-08T02:58:25
L2512648-02C	63	Unknown	?	0.9044	1	1	1	9.7536	OVR	2025-03-08T02:59:31
L2512648-03C	64	Unknown	?	-0.0003	1	1	1	-0.0094		2025-03-08T03:00:09
L2512648-04C	65	Unknown	?	0.0442	1	1	1	0.4711		2025-03-08T03:01:42

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2512648-05C	66	Unknown	?	0.0216	1	1	1	0.2267		2025-03-08T03:02:47
L2512648-06C	67	Unknown	?	0.0030	1	1	1	0.0259		2025-03-08T03:03:53
CCV NO3	68	QC	1	0.0960	1	1	1	1.0295		2025-03-08T03:04:58
CCV NO2	69	QC	?	0.0976	1	1	1	1.0472		2025-03-08T03:06:03
CCB	70	QC	0	0.0007	1	1	1	0.0011		2025-03-08T03:07:17
L2512648-07C	71	Unknown	?	0.0007	1	1	1	0.0016		2025-03-08T03:08:22
L2512648-08C	72	Unknown	?	0.0455	1	1	1	0.4846		2025-03-08T03:09:29
L2512537-10J	73	Unknown	?	0.0014	1	1	1	0.0096		2025-03-08T03:10:32
WG2037988-3	74	Unknown	?	0.0009	1	1	1	0.0035		2025-03-08T03:11:38
WG2037988-4	75	Unknown	?	0.3750	1	1	1	4.0404		2025-03-08T03:12:41
L2512537-11J	76	Unknown	?	0.7642	1	1	1	8.2400	OVR	2025-03-08T03:13:47
L2512537-12J	77	Unknown	?	0.0013	1	1	1	0.0086		2025-03-08T03:14:53
L2512537-13K	78	Unknown	?	0.0661	1	1	1	0.7076		2025-03-08T03:16:00
L2512537-14J	79	Unknown	?	0.0009	1	1	1	0.0034		2025-03-08T03:17:07
L2512537-15K	80	Unknown	?	0.0400	1	1	1	0.4254		2025-03-08T03:18:13
CCV NO3	81	QC	1	0.0976	1	1	1	1.0467		2025-03-08T03:19:18
CCV NO2	82	QC	?	0.0965	1	1	1	1.0356		2025-03-08T03:20:24
CCB	83	QC	0	0.0006	1	1	1	0.0007		2025-03-08T03:21:38
L2512537-16K	84	Unknown	?	0.0382	1	1	1	0.4059		2025-03-08T03:22:43
L2512903-01G	85	Unknown	?	0.0032	1	1	1	0.0282		2025-03-08T03:23:51
L2512903-02D	86	Unknown	?	0.2083	1	1	1	2.2413		2025-03-08T03:24:56
L2512903-03D	87	Unknown	?	0.1370	1	1	1	1.4729		2025-03-08T03:26:02
L2512903-05G	88	Unknown	?	0.0009	1	1	1	0.0038		2025-03-08T03:27:07
L2512903-07D	89	Unknown	?	0.2717	1	1	1	2.9262		2025-03-08T03:28:12
L2512903-08G	90	Unknown	?	0.0182	1	1	1	0.1901		2025-03-08T03:29:16
L2512903-09D	91	Unknown	?	0.1211	1	1	1	1.3004		2025-03-08T03:30:21
L2513007-02B	92	Unknown	?	0.0277	1	1	1	0.2934		2025-03-08T03:31:25
L2513065-01H	93	Unknown	?	1.1967	1	1	1	12.9075	OVR	2025-03-08T03:32:29
CCV NO3	94	QC	1	0.0911	1	1	1	0.9775		2025-03-08T03:33:33
CCV NO2	95	QC	?	0.0981	1	1	1	1.0527		2025-03-08T03:34:39
CCB	96	QC	0	0.0009	1	1	1	0.0036		2025-03-08T03:35:54
L2513065-02H	97	Unknown	?	0.2299	1	1	1	2.4743		2025-03-08T03:36:58
L2513065-03H	98	Unknown	?	0.1728	1	1	1	1.8584		2025-03-08T03:38:07

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2513065-04H	99	Unknown	?	0.1525	1	1	1	1.6394		2025-03-08T03:39:14
L2512837-01D	100	Unknown	?	0.1064	1	1	1	1.1422		2025-03-08T03:40:20
WG2037985-3	101	Unknown	?	0.1076	1	1	1	1.1554		2025-03-08T03:41:26
WG2037985-4	102	Unknown	?	0.4672	1	1	1	5.0352		2025-03-08T03:42:32
WG2037983-3	103	Unknown	?	0.1062	1	1	1	1.1395		2025-03-08T03:43:37
WG2037983-4	104	Unknown	?	0.4545	1	1	1	4.8986		2025-03-08T03:44:43
L2512943-01E	105	Unknown	?	0.0023	1	1	1	0.0186		2025-03-08T03:45:48
L2513060-01J	106	Unknown	?	0.0044	1	1	1	0.0411		2025-03-08T03:46:52
CCV NO3	107	QC	1	0.0982	1	1	1	1.0533		2025-03-08T03:47:57
CCV NO2	108	QC	?	0.0984	1	1	1	1.0556		2025-03-08T03:49:03
CCB	109	QC	0	0.0007	1	1	1	0.0016		2025-03-08T03:50:16
L2512799-03M	110	Unknown	?	0.0009	1	1	1	0.0040		2025-03-08T03:51:18
L2512799-04L	111	Unknown	?	1.3085	1	1	1	14.1134	OVR	2025-03-08T03:52:32
L2512799-05M	112	Unknown	?	-0.0017	1	1	1	-0.0241		2025-03-08T03:52:59
L2512799-06M	113	Unknown	?	0.0008	1	1	1	0.0028		2025-03-08T03:54:32
L2512799-07M	114	Unknown	?	0.0022	1	1	1	0.0180		2025-03-08T03:55:37
WG2037989-3	115	Unknown	?	0.0014	1	1	1	0.0088		2025-03-08T03:56:42
WG2037989-4	116	Unknown	?	0.3818	1	1	1	4.1135		2025-03-08T03:57:49
L2512799-08L	117	Unknown	?	0.9602	1	1	1	10.3553	OVR	2025-03-08T03:58:56
L2512799-09L	118	Unknown	?	0.4470	1	1	1	4.8174		2025-03-08T04:00:02
L2512799-10M	119	Unknown	?	1.2778	1	1	1	13.7828	OVR	2025-03-08T04:01:08
CCV NO3	120	QC	1	0.0911	1	1	1	0.9768		2025-03-08T04:02:14
CCV NO2	121	QC	?	0.1000	1	1	1	1.0732		2025-03-08T04:03:19
CCB	122	QC	0	0.0005	1	1	1	-0.0007		2025-03-08T04:04:31
L2512799-11M	123	Unknown	?	0.3615	1	1	1	3.8952		2025-03-08T04:05:36
L2511995-02A	124	Unknown	?	0.3265	1	1	1	3.5173		2025-03-08T04:06:42
L2511995-04A	125	Unknown	?	0.2266	1	1	1	2.4395		2025-03-08T04:07:47
L2511995-07A	126	Unknown	?	0.2630	1	1	1	2.8317		2025-03-08T04:08:52
L2512124-01E	127	Unknown	?	0.3831	1	1	1	4.1279		2025-03-08T04:09:57
L2512198-01A	128	Unknown	?	0.2453	1	1	1	2.6405		2025-03-08T04:11:02
L2512686-02B	129	Unknown	?	1.1551	1	1	1	12.4583	OVR	2025-03-08T04:12:07
WG2037991-3	130	Unknown	?	1.1404	1	1	1	12.2998	OVR	2025-03-08T04:13:12
WG2037991-4	131	Unknown	?	1.2403	1	1	1	13.3781	OVR	2025-03-08T04:14:17

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2512607-02K	132	Unknown	?	0.1222	1	1	1	1.3127		2025-03-08T04:15:21
CCV NO3	133	QC	1	0.0949	1	1	1	1.0176		2025-03-08T04:16:25
CCV NO2	134	QC	?	0.0981	1	1	1	1.0530		2025-03-08T04:17:31
CCB	135	QC	0	0.0011	1	1	1	0.0063		2025-03-08T04:18:45
L2512607-02K	136	Unknown	?	0.1319	1	1	1	1.4168		2025-03-08T04:19:47
L2512648-03C	137	Unknown	?	0.0016	1	1	1	0.0112		2025-03-08T04:20:54
L2512537-12J	138	Unknown	?	0.0040	1	1	1	0.0372		2025-03-08T04:22:01
L2512799-05M	139	Unknown	?	0.0054	1	1	1	0.0519		2025-03-08T04:23:07
L2512799-09L	140	Unknown	?	0.4476	1	1	1	4.8243		2025-03-08T04:24:12
L2513012-01A	141	Unknown	?	0.0718	1	1	1	0.7685		2025-03-08T04:25:18
WG2037992-3	142	Unknown	?	0.0734	1	1	1	0.7856		2025-03-08T04:26:23
WG2037992-4	143	Unknown	?	0.4619	1	1	1	4.9782		2025-03-08T04:27:30
L2513012-02A	144	Unknown	?	0.0024	1	1	1	0.0195		2025-03-08T04:28:36
L2513012-03A	145	Unknown	?	0.9907	1	1	1	10.6838	OVR	2025-03-08T04:29:43
CCV NO3	146	QC	1	0.0930	1	1	1	0.9978		2025-03-08T04:30:48
CCV NO2	147	QC	?	0.0986	1	1	1	1.0578		2025-03-08T04:31:54
CCB	148	QC	0	0.0015	1	1	1	0.0107		2025-03-08T04:33:08
L2513012-04A	149	Unknown	?	0.1460	1	1	1	1.5696		2025-03-08T04:34:12
L2513012-05A	150	Unknown	?	0.1871	1	1	1	2.0125		2025-03-08T04:35:18
L2513016-01A	151	Unknown	?	0.0030	1	1	1	0.0262		2025-03-08T04:36:24
L2513016-02A;R3B	152	Unknown	?	0.0032	1	1	1	0.0281		2025-03-08T04:37:30
L2513016-03A	153	Unknown	?	0.0022	1	1	1	0.0175		2025-03-08T04:38:35
L2513024-01A	154	Unknown	?	0.0027	1	1	1	0.0237		2025-03-08T04:39:41
CCV NO3	155	QC	1	0.0976	1	1	1	1.0469		2025-03-08T04:40:45
CCV NO2	156	QC	?	0.0987	1	1	1	1.0591		2025-03-08T04:41:51
CCB	157	QC	0	0.0009	1	1	1	0.0043		2025-03-08T04:43:06
spacer	158	Unknown	?	0.0001	1	1	1	-0.0053		2025-03-08T05:23:58
spacer	159	Unknown	?	0.0006	1	1	1	0.0007		2025-03-08T05:24:45
L2512607-01K	160	Unknown	?	0.1749	1	5	1	9.4074		2025-03-08T05:25:47
WG2037986/987-3	161	Unknown	?	0.1723	1	5	1	9.2667		2025-03-08T05:26:56
WG2037986/987-4	162	Unknown	?	0.2455	1	5	1	13.2138		2025-03-08T05:28:04
L2512648-02C	163	Unknown	?	0.1950	1	5	1	10.4888		2025-03-08T05:29:13
L2512537-11J	164	Unknown	?	0.1602	1	5	1	8.6159		2025-03-08T05:30:21

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2513065-01H	165	Unknown	?	0.3019	1	5	1	16.2597		2025-03-08T05:31:29
L2512799-04L	166	Unknown	?	0.3980	1	10	1	42.8912		2025-03-08T05:32:37
L2512799-08L	167	Unknown	?	0.2069	1	5	1	11.1343		2025-03-08T05:33:46
CCV NO3	168	QC	1	0.0966	1	1	1	1.0363		2025-03-08T05:34:52
CCV NO2	169	QC	?	0.0979	1	1	1	1.0504		2025-03-08T05:35:58
CCB	170	QC	0	0.0012	1	1	1	0.0069		2025-03-08T05:37:14
L2512799-10M	171	Unknown	?	0.3599	1	5	1	19.3877		2025-03-08T05:38:19
L2512686-02B	172	Unknown	?	0.2756	1	5	1	14.8419		2025-03-08T05:39:30
WG2037991-3	173	Unknown	?	0.2757	1	5	1	14.8464		2025-03-08T05:40:38
WG2037991-4	174	Unknown	?	0.3398	1	5	1	18.3041		2025-03-08T05:41:46
L2513012-03A	175	Unknown	?	0.2160	1	5	1	11.6256		2025-03-08T05:42:55
CCV NO3	176	QC	1	0.0967	1	1	1	1.0374		2025-03-08T05:44:01
CCV NO2	177	QC	?	0.0982	1	1	1	1.0541		2025-03-08T05:45:07
CCB	178	QC	0	0.0006	1	1	1	0.0010		2025-03-08T05:46:22

Channel: 2-NO2

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
Stabil	1	Unknown	?	0.0001	1	1	1	-0.0011		2025-03-08T01:50:26
NOx 8.0ppm	2	Standard	?	0.0001	1	1	1	-0.0015		2025-03-08T01:51:08
NOx 4.0ppm	3	Standard	?	0.0001	1	1	1	-0.0014		2025-03-08T01:52:18
NOx 1.0ppm	4	Standard	?	0.0002	1	1	1	-0.0007		2025-03-08T01:53:07
NOx 0.4ppm	5	Standard	?	0.0001	1	1	1	-0.0010		2025-03-08T01:55:13
NOx 0.2ppm	6	Standard	?	0.0001	1	1	1	-0.0016		2025-03-08T01:55:32
NOx 0.1ppm	7	Standard	?	0.0002	1	1	1	-0.0004		2025-03-08T01:57:07
NOx 0.0ppm	8	Standard	?	0.0001	1	1	1	-0.0013		2025-03-08T01:57:59
Nitrite 8.0ppm	9	Standard	8	1.0012	1	1	1	7.6558		2025-03-08T01:59:03
Nitrite 4.0ppm	10	Standard	4	0.5292	1	1	1	4.0460		2025-03-08T02:00:12
Nitrite 1.0ppm	11	Standard	1	0.1325	1	1	1	1.0114		2025-03-08T02:01:19
Nitrite 0.4ppm	12	Standard	0.4	0.0543	1	1	1	0.4136		2025-03-08T02:02:28
Nitrite 0.1ppm	13	Standard	0.1	0.0133	1	1	1	0.0995		2025-03-08T02:03:38
Nitrite 0.05ppm	14	Standard	0.05	0.0068	1	1	1	0.0499		2025-03-08T02:04:47
Nitrite 0.0ppm	15	Standard	0	0.0002	1	1	1	-0.0003		2025-03-08T02:06:00
CCV NO3	16	QC	?	0.0001	1	1	1	-0.0012		2025-03-08T02:07:11
CCV NO2	17	QC	1	0.1309	1	1	1	0.9988		2025-03-

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
										08T02:08:09
CCB	18	QC	0	0.0008	1	1	1	0.0037		2025-03-08T02:09:24
ICV NO3 5.0	19	QC	?	0.0002	1	1	1	-0.0003		2025-03-08T02:10:46
ICV NO2 5.0	20	QC	5	0.6577	1	1	1	5.0288		2025-03-08T02:11:36
ICV NO3 0.5	21	QC	?	0.0027	1	1	1	0.0187		2025-03-08T02:12:49
ICV NO2 0.5	22	QC	0.5	0.0684	1	1	1	0.5213		2025-03-08T02:13:53
ICB	23	QC	0	0.0003	1	1	1	0.0003		2025-03-08T02:15:05
Diluter CHK 8PPM	24	Unknown	?	0.0001	1	5	1	-0.0073		2025-03-08T02:16:13
BLANK NO3	25	Unknown	?	0.0001	1	1	1	-0.0016		2025-03-08T02:17:36
LCS NO3	26	Unknown	?	0.0002	1	1	1	-0.0008		2025-03-08T02:18:22
BLANK NO2	27	Unknown	?	0.0001	1	1	1	-0.0016		2025-03-08T02:19:38
LCS NO2	28	Unknown	?	0.6616	1	1	1	5.0583		2025-03-08T02:20:37
CCV NO3	29	QC	?	0.0041	1	1	1	0.0295		2025-03-08T02:21:46
CCV NO2	30	QC	1	0.1313	1	1	1	1.0024		2025-03-08T02:22:47
CCB	31	QC	0	0.0010	1	1	1	0.0053		2025-03-08T02:24:04
WG2037983-1	32	Unknown	?	0.0001	1	1	1	-0.0010		2025-03-08T02:25:14
WG2037983-2	33	Unknown	?	0.6587	1	1	1	5.0365		2025-03-08T02:26:13
WG2037984-1	34	Unknown	?	0.0028	1	1	1	0.0196		2025-03-08T02:27:22
WG2037984-2	35	Unknown	?	0.6616	1	1	1	5.0587		2025-03-08T02:28:23
WG2037985/991-1	36	Unknown	?	0.0034	1	1	1	0.0236		2025-03-08T02:29:32
WG2037985/991-2	37	Unknown	?	0.0003	1	1	1	0.0002		2025-03-08T02:30:41
WG2037986/987-1	38	Unknown	?	0.0001	1	1	1	-0.0010		2025-03-08T02:31:53
WG2037986/987-2	39	Unknown	?	0.0001	1	1	1	-0.0011		2025-03-08T02:32:55
WG2037988-1	40	Unknown	?	0.0001	1	1	1	-0.0016		2025-03-08T02:34:03
WG2037988-2	41	Unknown	?	0.0001	1	1	1	-0.0012		2025-03-08T02:35:08
CCV NO3	42	QC	?	0.0001	1	1	1	-0.0011		2025-03-08T02:36:07
CCV NO2	43	QC	1	0.1318	1	1	1	1.0062		2025-03-08T02:37:12
CCB	44	QC	0	0.0009	1	1	1	0.0051		2025-03-08T02:38:26
WG2037989-1	45	Unknown	?	0.0001	1	1	1	-0.0013		2025-03-08T02:39:40
WG2037989-2	46	Unknown	?	0.0001	1	1	1	-0.0014		2025-03-08T02:40:42
WG2037992-1	47	Unknown	?	0.0001	1	1	1	-0.0015		2025-03-08T02:41:55
WG2037992-2	48	Unknown	?	0.0001	1	1	1	-0.0012		2025-03-08T02:42:55
L2512607-01K	49	Unknown	?	0.0011	1	1	1	0.0060		2025-03-08T02:43:54

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
WG2037986/987-3	50	Unknown	?	0.0002	1	1	1	-0.0005		2025-03-08T02:45:03
WG2037986/987-4	51	Unknown	?	0.0002	1	1	1	-0.0006		2025-03-08T02:46:05
WG2037984-3	52	Unknown	?	0.0002	1	1	1	-0.0008		2025-03-08T02:47:13
WG2037984-4	53	Unknown	?	0.4966	1	1	1	3.7966		2025-03-08T02:48:12
L2512607-02K	54	Unknown	?	0.0009	1	1	1	0.0050		2025-03-08T02:49:15
CCV NO3	55	QC	?	0.0001	1	1	1	-0.0012		2025-03-08T02:50:23
CCV NO2	56	QC	1	0.1311	1	1	1	1.0011		2025-03-08T02:51:27
CCB	57	QC	0	0.0010	1	1	1	0.0056		2025-03-08T02:52:42
L2512607-03K	58	Unknown	?	0.0008	1	1	1	0.0043		2025-03-08T02:53:46
L2512607-04K	59	Unknown	?	0.0008	1	1	1	0.0042		2025-03-08T02:54:54
L2512607-05K	60	Unknown	?	0.0009	1	1	1	0.0047		2025-03-08T02:56:00
L2512607-06K	61	Unknown	?	0.0007	1	1	1	0.0036		2025-03-08T02:57:05
L2512648-01C	62	Unknown	?	0.0008	1	1	1	0.0041		2025-03-08T02:58:12
L2512648-02C	63	Unknown	?	0.0009	1	1	1	0.0045		2025-03-08T02:59:18
L2512648-03C	64	Unknown	?	0.0008	1	1	1	0.0038		2025-03-08T03:00:24
L2512648-04C	65	Unknown	?	0.0008	1	1	1	0.0040		2025-03-08T03:01:29
L2512648-05C	66	Unknown	?	0.0009	1	1	1	0.0048		2025-03-08T03:02:33
L2512648-06C	67	Unknown	?	0.0009	1	1	1	0.0045		2025-03-08T03:03:38
CCV NO3	68	QC	?	0.0001	1	1	1	-0.0009		2025-03-08T03:04:40
CCV NO2	69	QC	1	0.1308	1	1	1	0.9983		2025-03-08T03:05:49
CCB	70	QC	0	0.0010	1	1	1	0.0053		2025-03-08T03:07:05
L2512648-07C	71	Unknown	?	0.0008	1	1	1	0.0042		2025-03-08T03:08:07
L2512648-08C	72	Unknown	?	0.0009	1	1	1	0.0050		2025-03-08T03:09:15
L2512537-10J	73	Unknown	?	0.0010	1	1	1	0.0052		2025-03-08T03:10:18
WG2037988-3	74	Unknown	?	0.0001	1	1	1	-0.0014		2025-03-08T03:11:20
WG2037988-4	75	Unknown	?	0.0020	1	1	1	0.0129		2025-03-08T03:12:26
L2512537-11J	76	Unknown	?	0.0009	1	1	1	0.0051		2025-03-08T03:13:33
L2512537-12J	77	Unknown	?	0.0008	1	1	1	0.0043		2025-03-08T03:14:40
L2512537-13K	78	Unknown	?	0.0022	1	1	1	0.0145		2025-03-08T03:15:46
L2512537-14J	79	Unknown	?	0.0008	1	1	1	0.0042		2025-03-08T03:16:54
L2512537-15K	80	Unknown	?	0.0024	1	1	1	0.0166		2025-03-08T03:17:59
CCV NO3	81	QC	?	0.0002	1	1	1	-0.0006		2025-03-08T03:19:15
CCV NO2	82	QC	1	0.1322	1	1	1	1.0092		2025-03-08T03:20:10

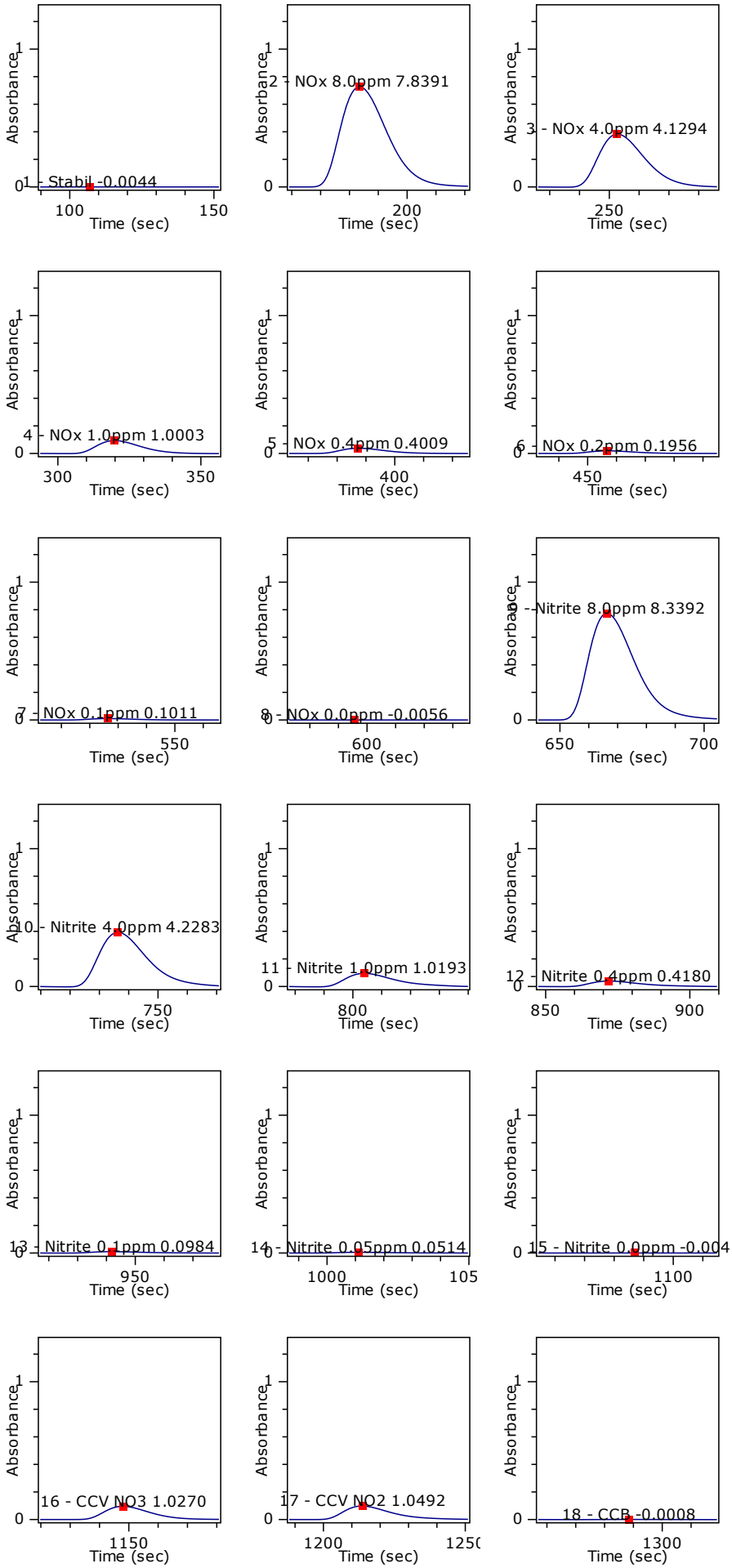
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
CCB	83	QC	0	0.0005	1	1	1	0.0018		2025-03-08T03:21:21
L2512537-16K	84	Unknown	?	0.0023	1	1	1	0.0158		2025-03-08T03:22:29
L2512903-01G	85	Unknown	?	0.0026	1	1	1	0.0179		2025-03-08T03:23:37
L2512903-02D	86	Unknown	?	0.0041	1	1	1	0.0294		2025-03-08T03:24:42
L2512903-03D	87	Unknown	?	0.0021	1	1	1	0.0137		2025-03-08T03:25:49
L2512903-05G	88	Unknown	?	0.0014	1	1	1	0.0088		2025-03-08T03:26:53
L2512903-07D	89	Unknown	?	0.0024	1	1	1	0.0166		2025-03-08T03:27:57
L2512903-08G	90	Unknown	?	0.0048	1	1	1	0.0348		2025-03-08T03:29:01
L2512903-09D	91	Unknown	?	0.0017	1	1	1	0.0109		2025-03-08T03:30:06
L2513007-02B	92	Unknown	?	0.0098	1	1	1	0.0731		2025-03-08T03:31:10
L2513065-01H	93	Unknown	?	0.0010	1	1	1	0.0058		2025-03-08T03:32:14
CCV NO3	94	QC	?	0.0001	1	1	1	-0.0010		2025-03-08T03:33:18
CCV NO2	95	QC	1	0.1312	1	1	1	1.0012		2025-03-08T03:34:25
CCB	96	QC	0	0.0009	1	1	1	0.0047		2025-03-08T03:35:40
L2513065-02H	97	Unknown	?	0.0009	1	1	1	0.0046		2025-03-08T03:36:46
L2513065-03H	98	Unknown	?	0.0021	1	1	1	0.0141		2025-03-08T03:37:54
L2513065-04H	99	Unknown	?	0.0050	1	1	1	0.0358		2025-03-08T03:39:00
L2512837-01D	100	Unknown	?	0.0458	1	1	1	0.3480		2025-03-08T03:40:06
WG2037985-3	101	Unknown	?	0.0460	1	1	1	0.3499		2025-03-08T03:41:12
WG2037985-4	102	Unknown	?	0.0444	1	1	1	0.3378		2025-03-08T03:42:17
WG2037983-3	103	Unknown	?	0.0457	1	1	1	0.3478		2025-03-08T03:43:23
WG2037983-4	104	Unknown	?	0.5070	1	1	1	3.8757		2025-03-08T03:44:28
L2512943-01E	105	Unknown	?	0.0035	1	1	1	0.0248		2025-03-08T03:45:33
L2513060-01J	106	Unknown	?	0.0019	1	1	1	0.0122		2025-03-08T03:46:39
CCV NO3	107	QC	?	0.0001	1	1	1	-0.0011		2025-03-08T03:47:48
CCV NO2	108	QC	1	0.1307	1	1	1	0.9975		2025-03-08T03:48:49
CCB	109	QC	0	0.0009	1	1	1	0.0046		2025-03-08T03:50:03
L2512799-03M	110	Unknown	?	0.0011	1	1	1	0.0065		2025-03-08T03:51:05
L2512799-04L	111	Unknown	?	0.0075	1	1	1	0.0549		2025-03-08T03:52:09
L2512799-05M	112	Unknown	?	0.0019	1	1	1	0.0127		2025-03-08T03:53:13
L2512799-06M	113	Unknown	?	0.0013	1	1	1	0.0081		2025-03-08T03:54:18
L2512799-07M	114	Unknown	?	0.0021	1	1	1	0.0138		2025-03-08T03:55:22
WG2037989-3	115	Unknown	?	0.0011	1	1	1	0.0064		2025-03-08T03:56:30

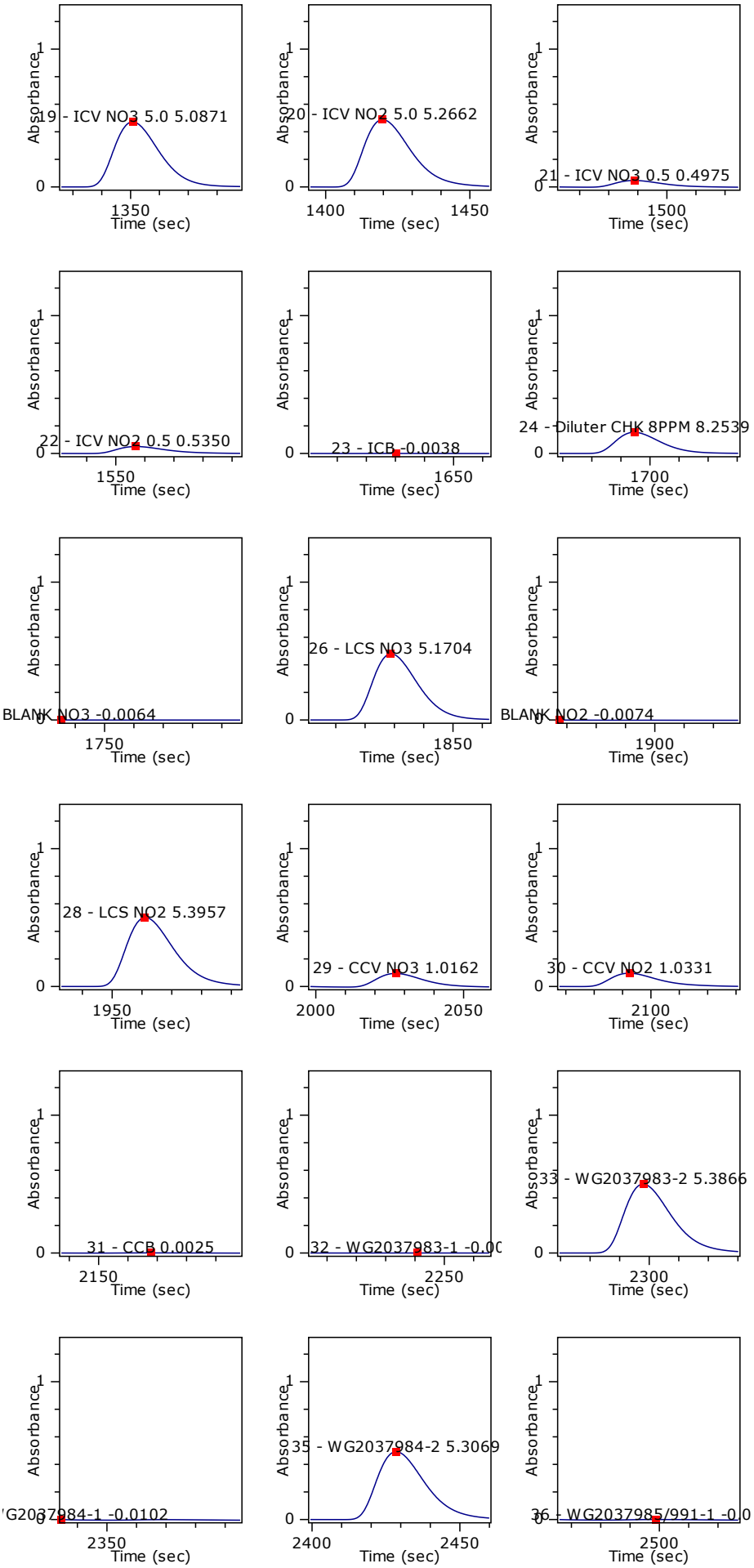
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
WG2037989-4	116	Unknown	?	0.0036	1	1	1	0.0258		2025-03-08T03:57:36
L2512799-08L	117	Unknown	?	0.0013	1	1	1	0.0076		2025-03-08T03:58:42
L2512799-09L	118	Unknown	?	0.0090	1	1	1	0.0665		2025-03-08T03:59:49
L2512799-10M	119	Unknown	?	0.0029	1	1	1	0.0199		2025-03-08T04:00:54
CCV NO3	120	QC	?	0.0001	1	1	1	-0.0011		2025-03-08T04:01:57
CCV NO2	121	QC	1	0.1313	1	1	1	1.0025		2025-03-08T04:03:05
CCB	122	QC	0	0.0002	1	1	1	-0.0008		2025-03-08T04:04:17
L2512799-11M	123	Unknown	?	0.0149	1	1	1	0.1121		2025-03-08T04:05:21
L2511995-02A	124	Unknown	?	0.0046	1	1	1	0.0328		2025-03-08T04:06:27
L2511995-04A	125	Unknown	?	0.0028	1	1	1	0.0192		2025-03-08T04:07:32
L2511995-07A	126	Unknown	?	0.0027	1	1	1	0.0189		2025-03-08T04:08:37
L2512124-01E	127	Unknown	?	0.0034	1	1	1	0.0240		2025-03-08T04:09:42
L2512198-01A	128	Unknown	?	0.0006	1	1	1	0.0025		2025-03-08T04:10:47
L2512686-02B	129	Unknown	?	0.0195	1	1	1	0.1468		2025-03-08T04:11:52
WG2037991-3	130	Unknown	?	0.0185	1	1	1	0.1393		2025-03-08T04:12:57
WG2037991-4	131	Unknown	?	0.0181	1	1	1	0.1362		2025-03-08T04:14:02
L2512607-02K	132	Unknown	?	0.0009	1	1	1	0.0049		2025-03-08T04:15:07
CCV NO3	133	QC	?	0.0001	1	1	1	-0.0012		2025-03-08T04:16:19
CCV NO2	134	QC	1	0.1315	1	1	1	1.0035		2025-03-08T04:17:17
CCB	135	QC	0	0.0007	1	1	1	0.0030		2025-03-08T04:18:28
L2512607-02K	136	Unknown	?	0.0009	1	1	1	0.0047		2025-03-08T04:19:34
L2512648-03C	137	Unknown	?	0.0008	1	1	1	0.0038		2025-03-08T04:20:39
L2512537-12J	138	Unknown	?	0.0008	1	1	1	0.0042		2025-03-08T04:21:46
L2512799-05M	139	Unknown	?	0.0019	1	1	1	0.0125		2025-03-08T04:22:51
L2512799-09L	140	Unknown	?	0.0090	1	1	1	0.0668		2025-03-08T04:23:57
L2513012-01A	141	Unknown	?	0.0014	1	1	1	0.0083		2025-03-08T04:25:03
WG2037992-3	142	Unknown	?	0.0014	1	1	1	0.0088		2025-03-08T04:26:09
WG2037992-4	143	Unknown	?	0.0016	1	1	1	0.0105		2025-03-08T04:27:16
L2513012-02A	144	Unknown	?	0.0021	1	1	1	0.0144		2025-03-08T04:28:23
L2513012-03A	145	Unknown	?	0.0304	1	1	1	0.2301		2025-03-08T04:29:29
CCV NO3	146	QC	?	0.0015	1	1	1	0.0097		2025-03-08T04:30:38
CCV NO2	147	QC	1	0.1316	1	1	1	1.0044		2025-03-08T04:31:40
CCB	148	QC	0	0.0012	1	1	1	0.0070		2025-03-08T04:32:54

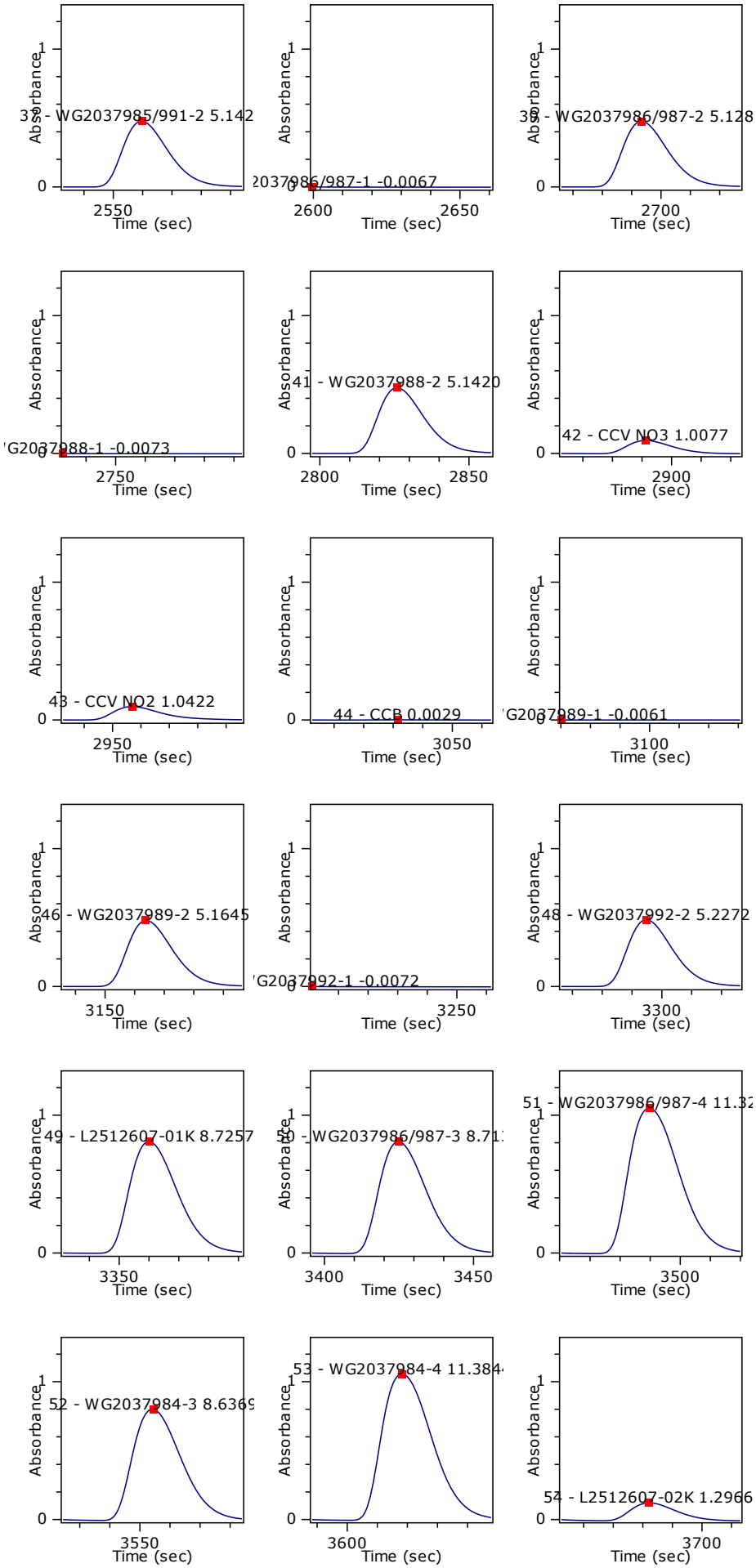
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2513012-04A	149	Unknown	?	0.0015	1	1	1	0.0092		2025-03-08T04:33:58
L2513012-05A	150	Unknown	?	0.0035	1	1	1	0.0250		2025-03-08T04:35:04
L2513016-01A	151	Unknown	?	0.0029	1	1	1	0.0202		2025-03-08T04:36:10
L2513016-02A;R3B	152	Unknown	?	0.0018	1	1	1	0.0119		2025-03-08T04:37:15
L2513016-03A	153	Unknown	?	0.0010	1	1	1	0.0055		2025-03-08T04:38:21
L2513024-01A	154	Unknown	?	0.0007	1	1	1	0.0032		2025-03-08T04:39:27
CCV NO3	155	QC	?	0.0002	1	1	1	-0.0009		2025-03-08T04:40:35
CCV NO2	156	QC	1	0.1308	1	1	1	0.9985		2025-03-08T04:41:36
CCB	157	QC	0	0.0014	1	1	1	0.0089		2025-03-08T04:42:54
spacer	158	Unknown	?	0.0000	1	1	1	-0.0019		2025-03-08T05:23:47
spacer	159	Unknown	?	0.0005	1	1	1	0.0014		2025-03-08T05:24:25
L2512607-01K	160	Unknown	?	0.0002	1	5	1	-0.0020		2025-03-08T05:25:34
WG2037986/987-3	161	Unknown	?	0.0002	1	5	1	-0.0042		2025-03-08T05:26:44
WG2037986/987-4	162	Unknown	?	0.0001	1	5	1	-0.0060		2025-03-08T05:27:56
L2512648-02C	163	Unknown	?	0.0002	1	5	1	-0.0021		2025-03-08T05:28:59
L2512537-11J	164	Unknown	?	0.0003	1	5	1	-0.0001		2025-03-08T05:30:09
L2513065-01H	165	Unknown	?	0.0003	1	5	1	0.0014		2025-03-08T05:31:16
L2512799-04L	166	Unknown	?	0.0008	1	10	1	0.0404		2025-03-08T05:32:24
L2512799-08L	167	Unknown	?	0.0003	1	5	1	0.0016		2025-03-08T05:33:36
CCV NO3	168	QC	?	0.0001	1	1	1	-0.0013		2025-03-08T05:34:41
CCV NO2	169	QC	1	0.1304	1	1	1	0.9957		2025-03-08T05:35:43
CCB	170	QC	0	0.0007	1	1	1	0.0036		2025-03-08T05:36:58
L2512799-10M	171	Unknown	?	0.0006	1	5	1	0.0141		2025-03-08T05:38:05
L2512686-02B	172	Unknown	?	0.0039	1	5	1	0.1393		2025-03-08T05:39:16
WG2037991-3	173	Unknown	?	0.0038	1	5	1	0.1343		2025-03-08T05:40:25
WG2037991-4	174	Unknown	?	0.0037	1	5	1	0.1324		2025-03-08T05:41:33
L2513012-03A	175	Unknown	?	0.0057	1	5	1	0.2079		2025-03-08T05:42:43
CCV NO3	176	QC	?	0.0005	1	1	1	0.0015		2025-03-08T05:43:50
CCV NO2	177	QC	1	0.1322	1	1	1	1.0094		2025-03-08T05:44:52
CCB	178	QC	0	0.0010	1	1	1	0.0058		2025-03-08T05:46:08

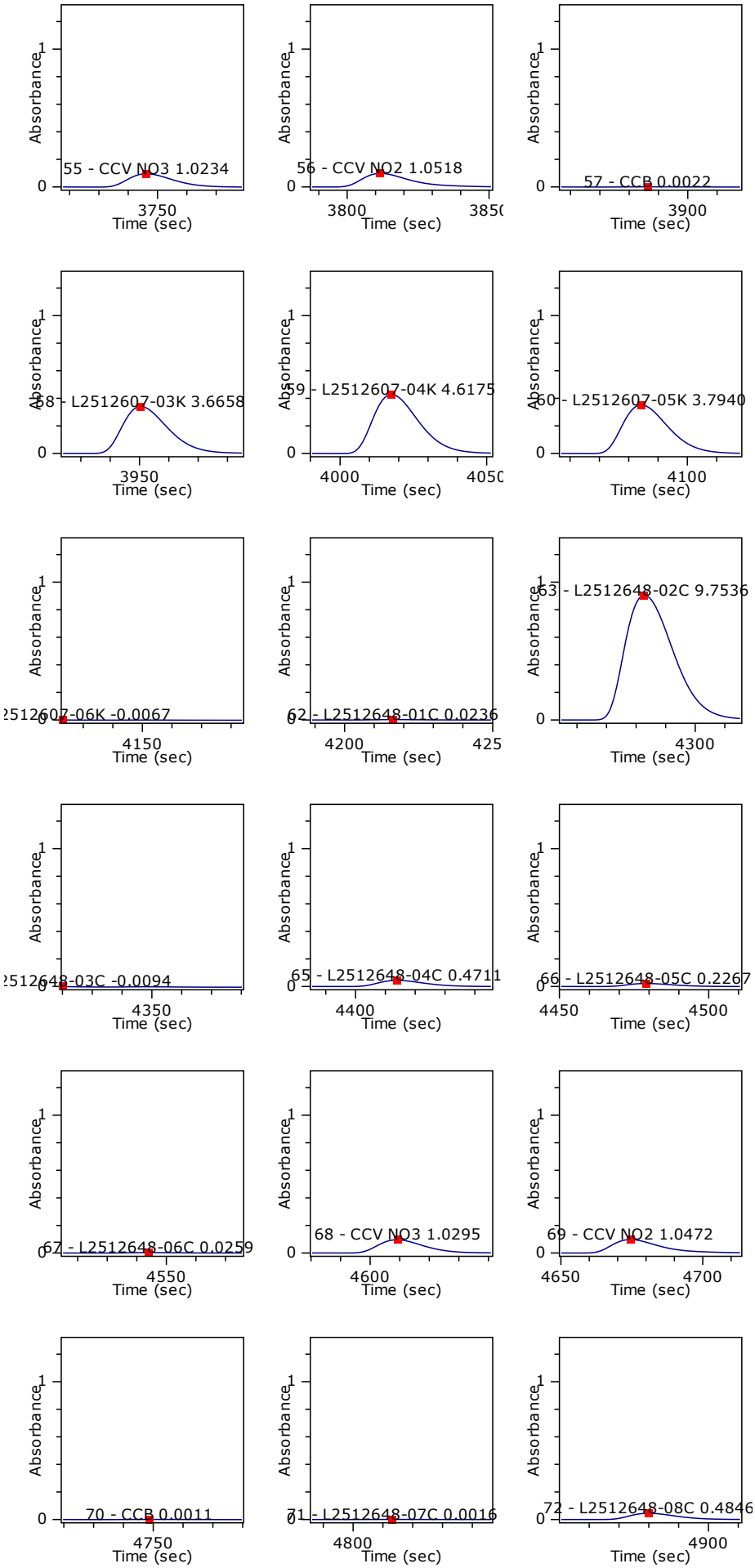
Peaks:

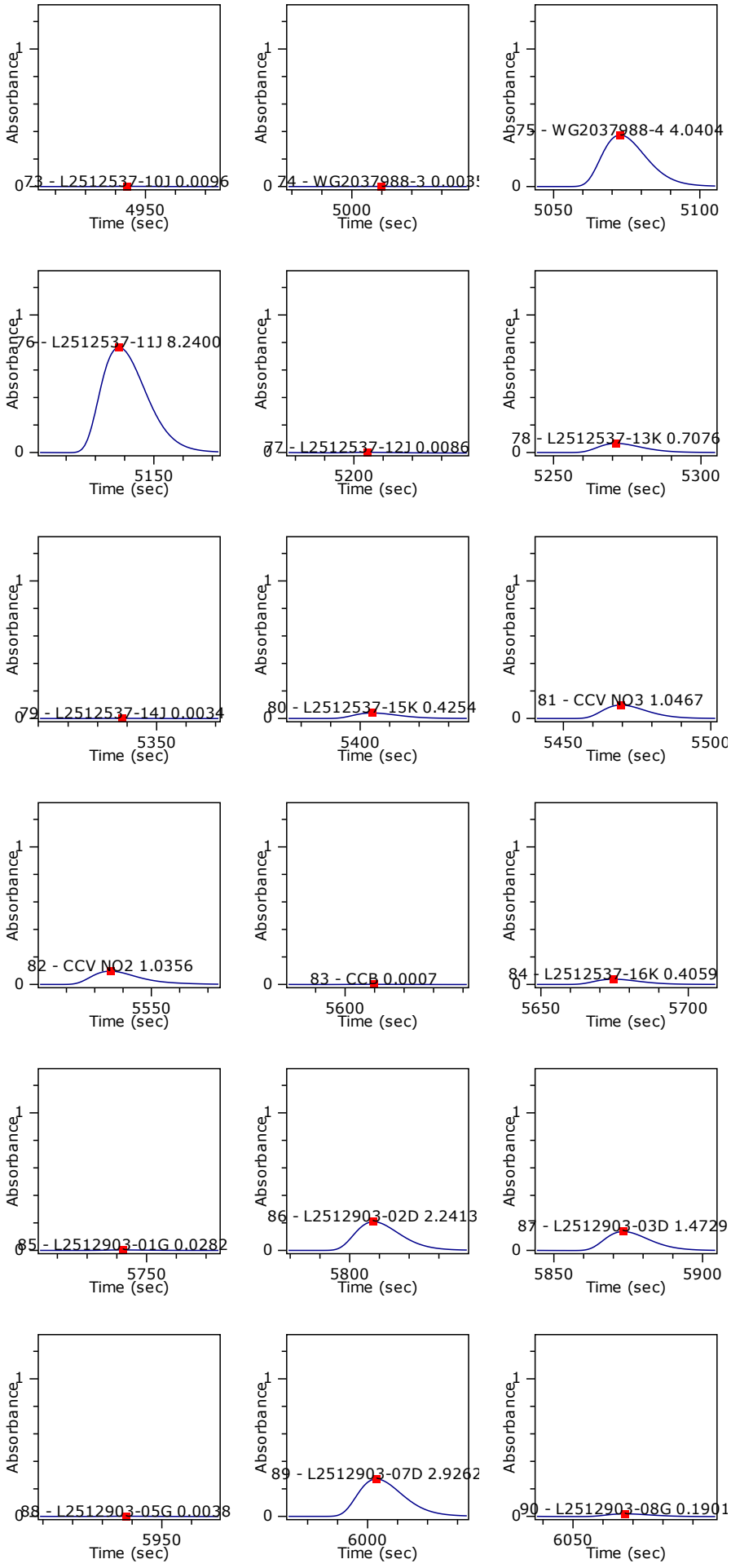
Channel: 1-NOx

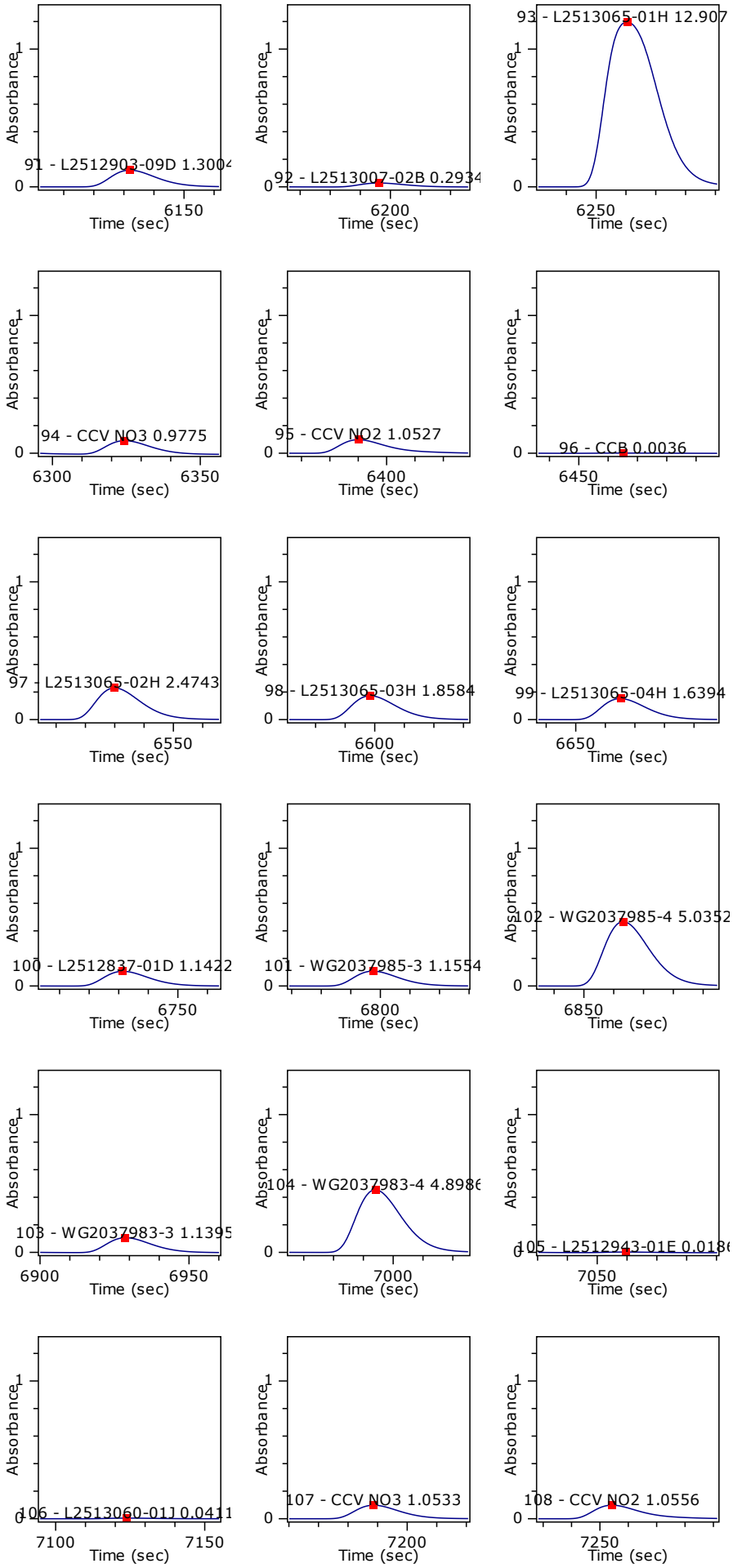

Absorbance
1 - Stabil -0.0044
2 - NOx 8.0ppm 7.8391
3 - NOx 4.0ppm 4.1294
4 - NOx 1.0ppm 1.0003
5 - NOx 0.4ppm 0.4009
6 - NOx 0.2ppm 0.1956
7 - NOx 0.1ppm 0.1011
8 - NOx 0.0ppm -0.0056
9 - Nitrite 8.0ppm 8.3392
10 - Nitrite 4.0ppm 4.2283
11 - Nitrite 1.0ppm 1.0193
12 - Nitrite 0.4ppm 0.4180
13 - Nitrite 0.1ppm 0.0984
14 - Nitrite 0.05ppm 0.0514
15 - Nitrite 0.0ppm -0.004
16 - CCV NO3 1.0270
17 - CCV NO2 1.0492
18 - CCB -0.0008
Time (sec)

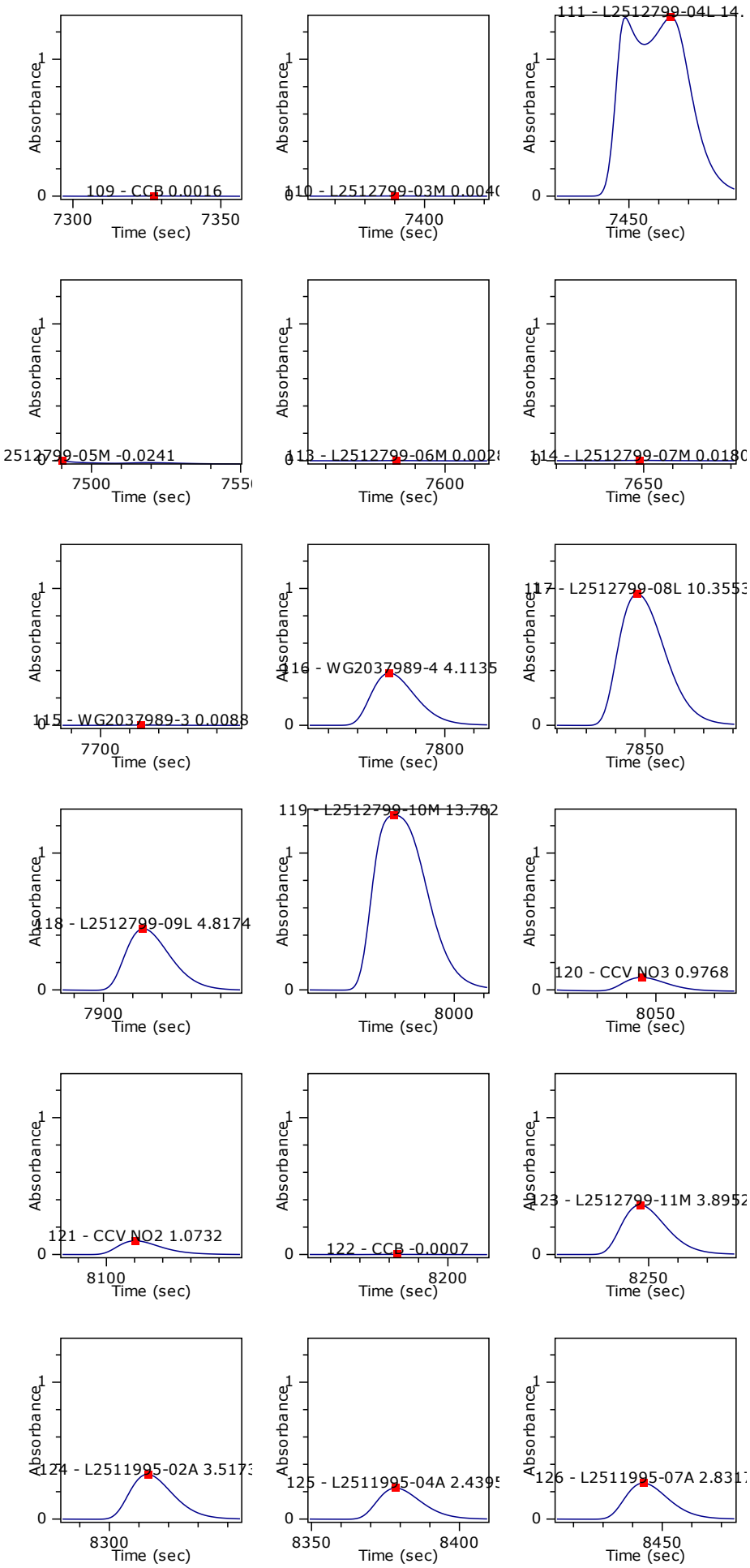

19 - ICV NO3 5.0 5.0871
20 - ICV NO2 5.0 5.2662
21 - ICV NO3 0.5 0.4975
22 - ICV NO2 0.5 0.5350
23 - ICB -0.0038
24 - Diluter CHK 8PPM 8.2539
BLANK NO3 -0.0064
26 - LCS NO3 5.1704
BLANK NO2 -0.0074
28 - LCS NO2 5.3957
29 - CCV NO3 1.0162
30 - CCV NO2 1.0331
31 - CCB 0.0025
32 - WG2037983-1 -0.0
33 - WG2037983-2 5.3866
G2037984-1 -0.0102
35 - WG2037984-2 5.3069
36 - WG2037985/991-1 -0.0
Absorbance
Time (sec)

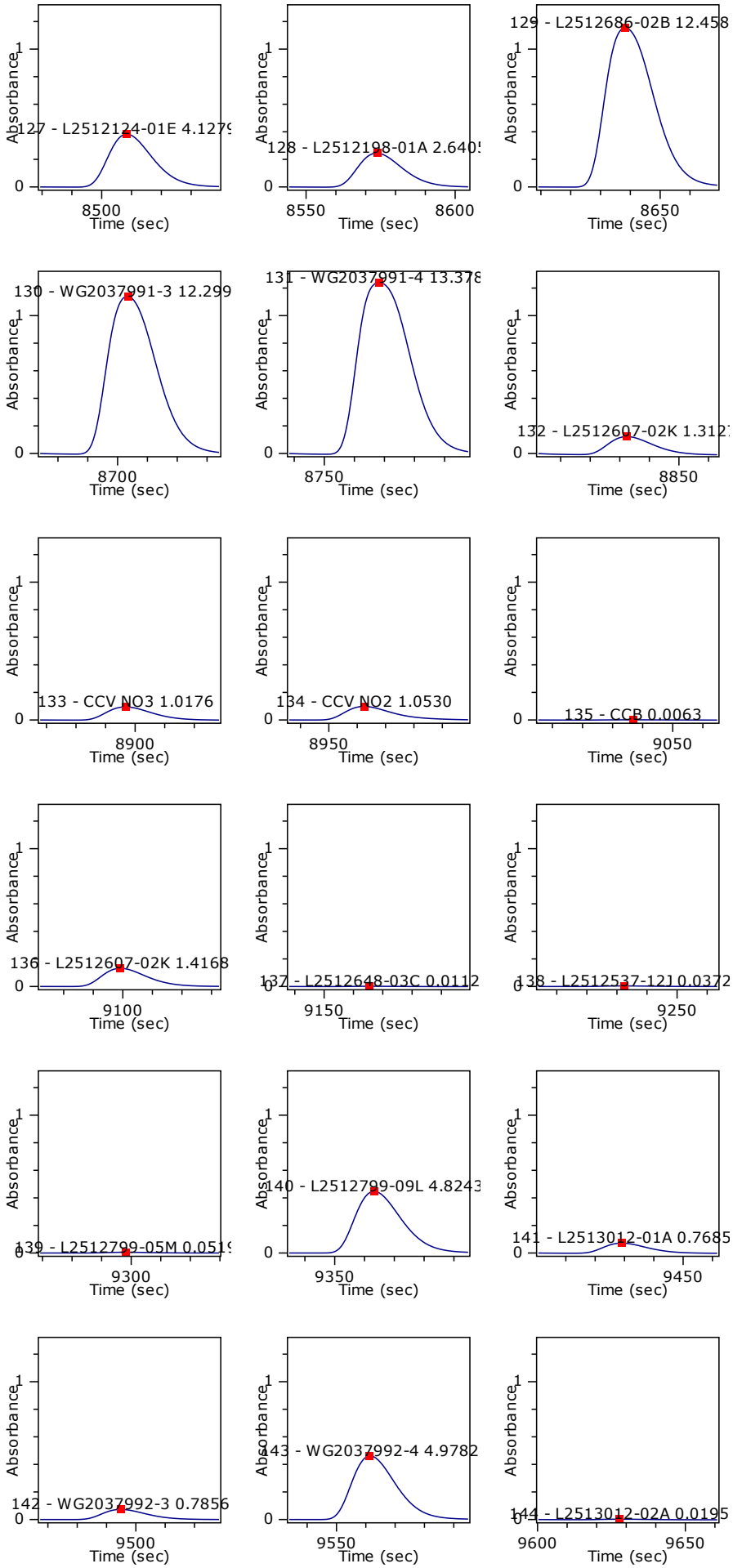

Absorbance
Time (sec)
37 - WG2037985/991-2 5.142
2037986/987-1 -0.0067
39 - WG2037986/987-2 5.128
'G2037988-1 -0.0073
41 - WG2037988-2 5.1420
42 - CCV NO3 1.0077
43 - CCV NO2 1.0422
44 - CCB 0.0029
'G2037989-1 -0.0061
46 - WG2037989-2 5.1645
'G2037992-1 -0.0072
48 - WG2037992-2 5.2272
49 - L2512607-01K 8.7257
50 - WG2037986/987-3 8.71
51 - WG2037986/987-4 11.3
52 - WG2037984-3 8.6369
53 - WG2037984-4 11.384
54 - L2512607-02K 1.2966

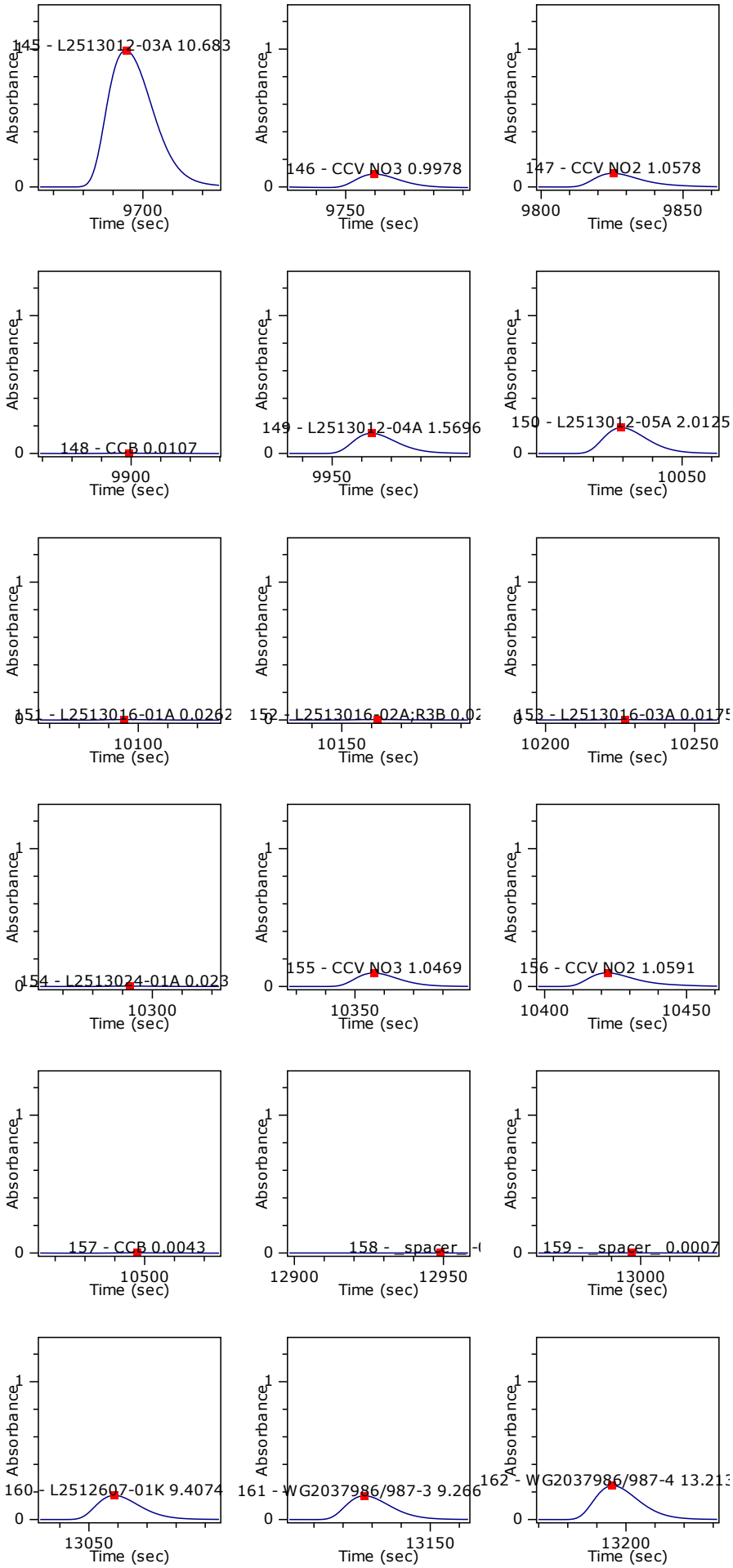

Absorbance
Time (sec)
55 - CCV NO3 1.0234
56 - CCV NO2 1.0518
57 - CCB 0.0022
58 - L2512607-03K 3.6658
59 - L2512607-04K 4.6175
60 - L2512607-05K 3.7940
2512607-06K -0.0067
62 - L2512648-01C 0.0236
63 - L2512648-02C 9.7536
2512648-03C -0.0094
65 - L2512648-04C 0.4711
66 - L2512648-05C 0.2267
67 - L2512648-06C 0.0259
68 - CCV NO3 1.0295
69 - CCV NO2 1.0472
70 - CCB 0.0011
71 - L2512648-07C 0.0016
72 - L2512648-08C 0.4846

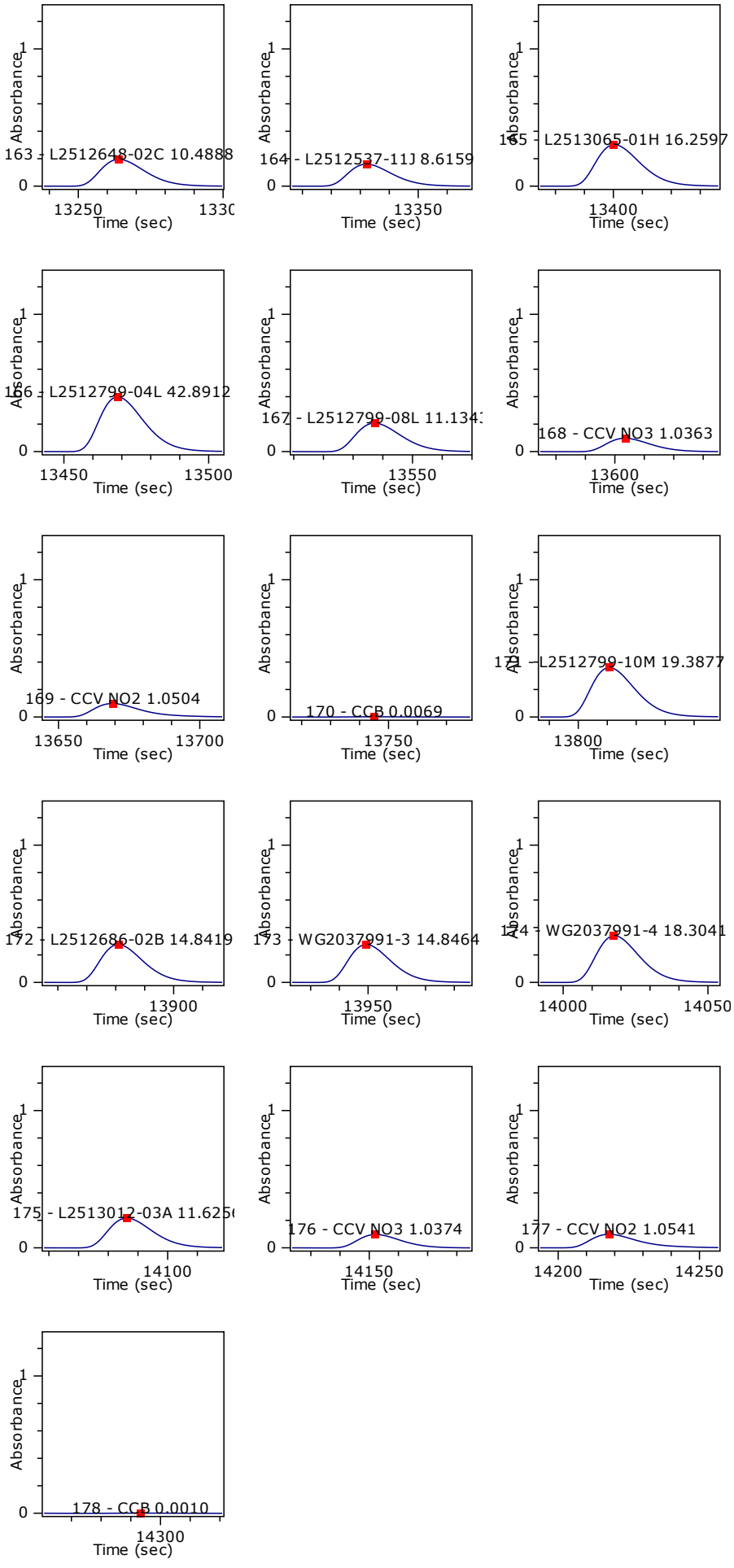

Absorbance
Time (sec)
73 - L2512537-10J 0.0096
74 - WG2037988-3 0.003
75 - WG2037988-4 4.0404
76 - L2512537-11J 8.2400
77 - L2512537-12J 0.0086
78 - L2512537-13K 0.7076
79 - L2512537-14J 0.0034
80 - L2512537-15K 0.4254
81 - CCV NO3 1.0467
82 - CCV NO2 1.0356
83 - CCB 0.0007
84 - L2512537-16K 0.4059
85 - L2512903-01G 0.0282
86 - L2512903-02D 2.2413
87 - L2512903-03D 1.4729
88 - L2512903-05G 0.0038
89 - L2512903-07D 2.9262
90 - L2512903-08G 0.1901


Absorbance
Time (sec)
91 - L2512903-09D 1.3004
92 - L2513007-02B 0.2934
93 - L2513065-01H 12.907
94 - CCV NO3 0.9775
95 - CCV NO2 1.0527
96 - CCB 0.0036
97 - L2513065-02H 2.4743
98 - L2513065-03H 1.8584
99 - L2513065-04H 1.6394
100 - L2512837-01D 1.1422
101 - WG2037985-3 1.1554
102 - WG2037985-4 5.0352
103 - WG2037983-3 1.1395
104 - WG2037983-4 4.898
105 - L2512943-01E 0.018
106 - L2513060-01J 0.0411
107 - CCV NO3 1.0533
108 - CCV NO2 1.0556


109 - CCB 0.0016
110 - L2512799-03M 0.004
111 - L2512799-04L 14.
2512799-05M -0.0241
113 - L2512799-06M 0.002
114 - L2512799-07M 0.018
115 - WG2037989-3 0.0088
116 - WG2037989-4 4.1135
117 - L2512799-08L 10.3553
118 - L2512799-09L 4.8174
119 - L2512799-10M 13.782
120 - CCV NO3 0.9768
121 - CCV NO2 1.0732
122 - CCB -0.0007
123 - L2512799-11M 3.8952
124 - L2511995-02A 3.5173
125 - L2511995-04A 2.4395
126 - L2511995-07A 2.831
Absorbance
Time (sec)


127 - L2512124-01E 4.127
128 - L2512198-01A 2.640
129 - L2512686-02B 12.458
130 - WG2037991-3 12.299
131 - WG2037991-4 13.378
132 - L2512607-02K 1.312
133 - CCV NO3 1.0176
134 - CCV NO2 1.0530
135 - CCB 0.0063
136 - L2512607-02K 1.4168
137 - L2512648-03C 0.0112
138 - L2512537-12J 0.0372
139 - L2512799-05M 0.051
140 - L2512799-09L 4.8243
141 - L2513012-01A 0.7685
142 - WG2037992-3 0.7856
143 - WG2037992-4 4.9782
144 - L2513012-02A 0.0195
Absorbance
Time (sec)


145 - L2513012-03A 10.683
146 - CCV NO3 0.9978
147 - CCV NO2 1.0578
148 - CCB 0.0107
149 - L2513012-04A 1.5696
150 - L2513012-05A 2.0125
151 - L2513016-01A 0.0262
152 - L2513016-02A;R3B 0.02
153 - L2513016-03A 0.017
154 - L2513024-01A 0.023
155 - CCV NO3 1.0469
156 - CCV NO2 1.0591
157 - CCB 0.0043
158 - _spacer_
159 - _spacer_ 0.0007
160 - L2512607-01K 9.4074
161 - WG2037986/987-3 9.266
162 - WG2037986/987-4 13.213
Absorbance
Time (sec)


Absorbance
1
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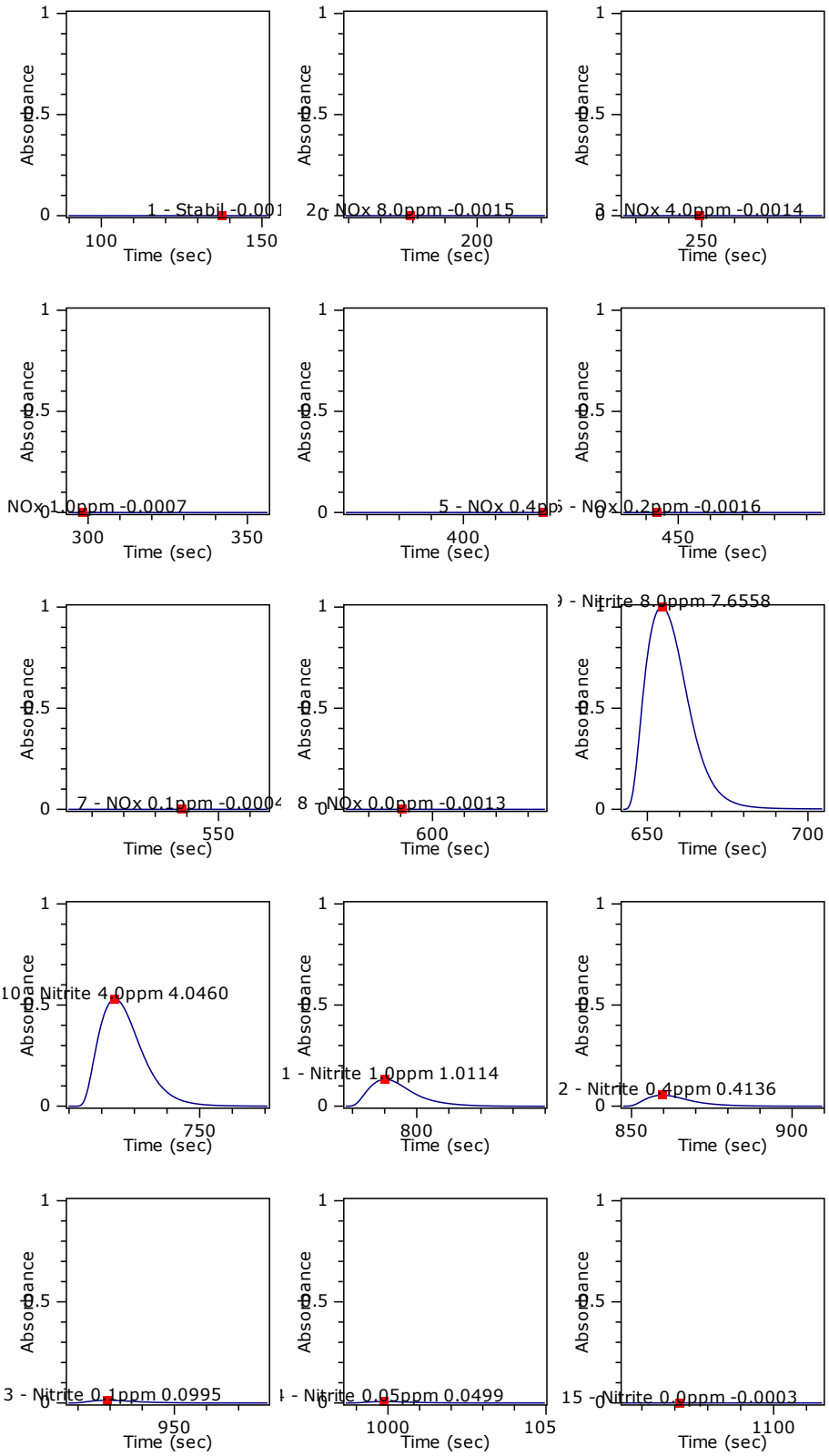
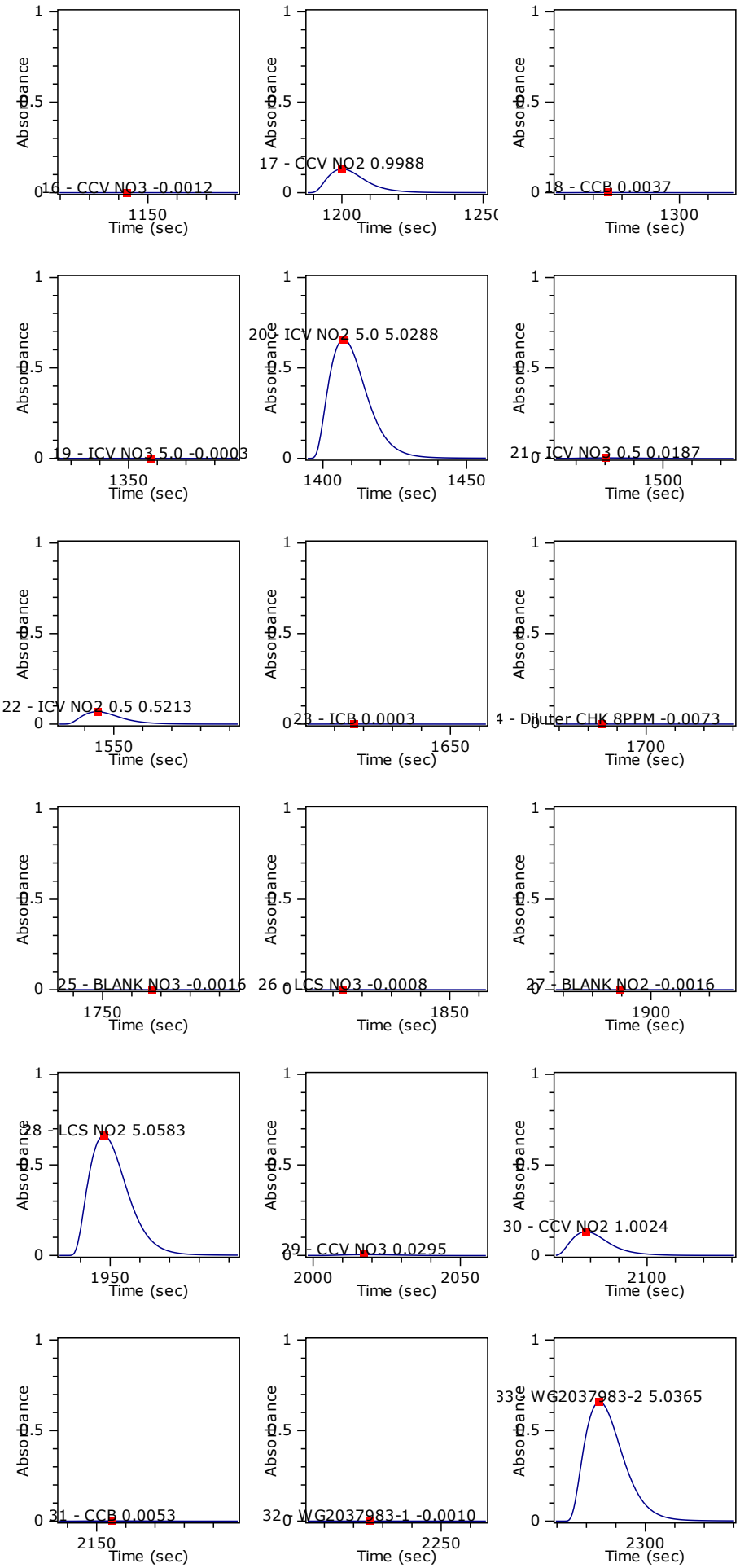
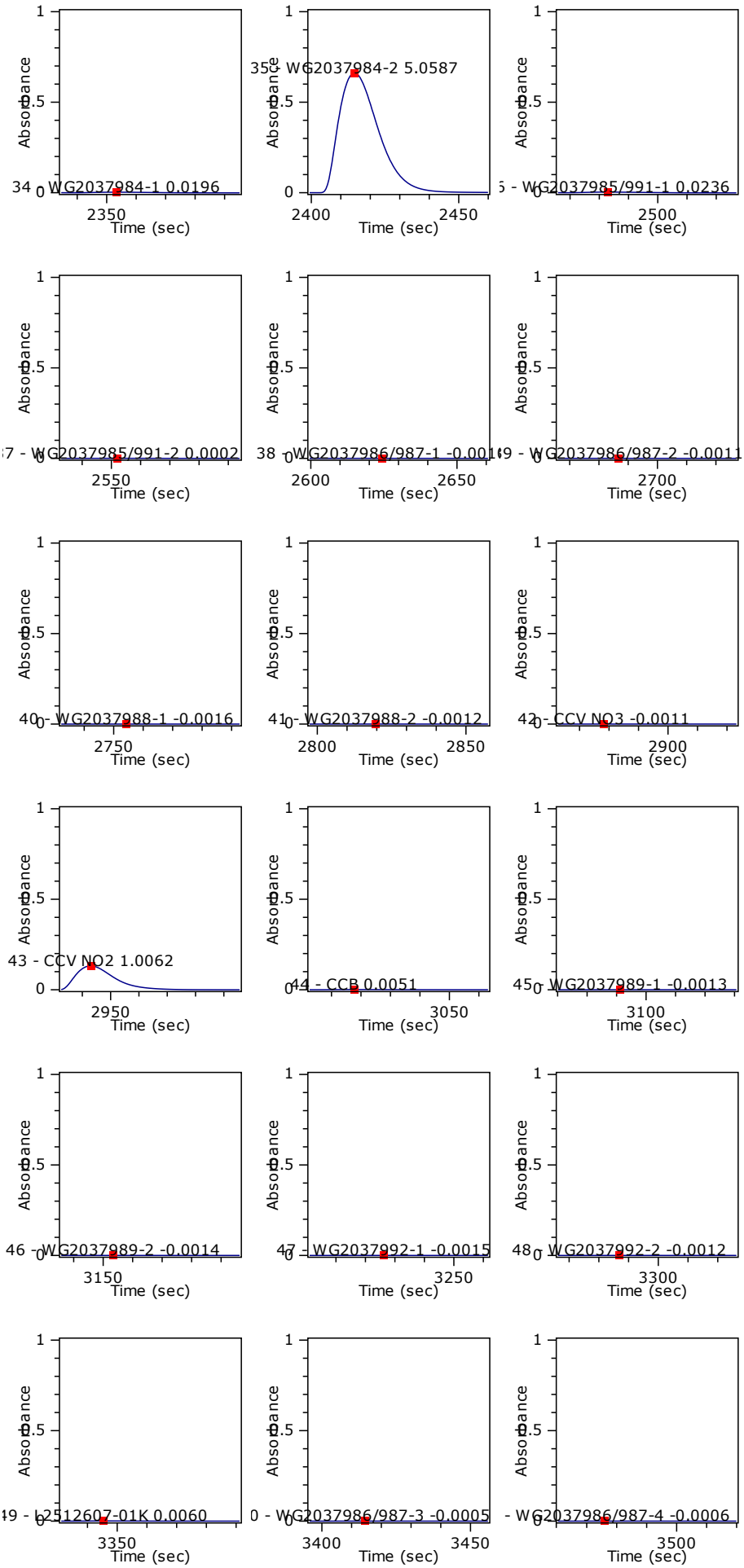
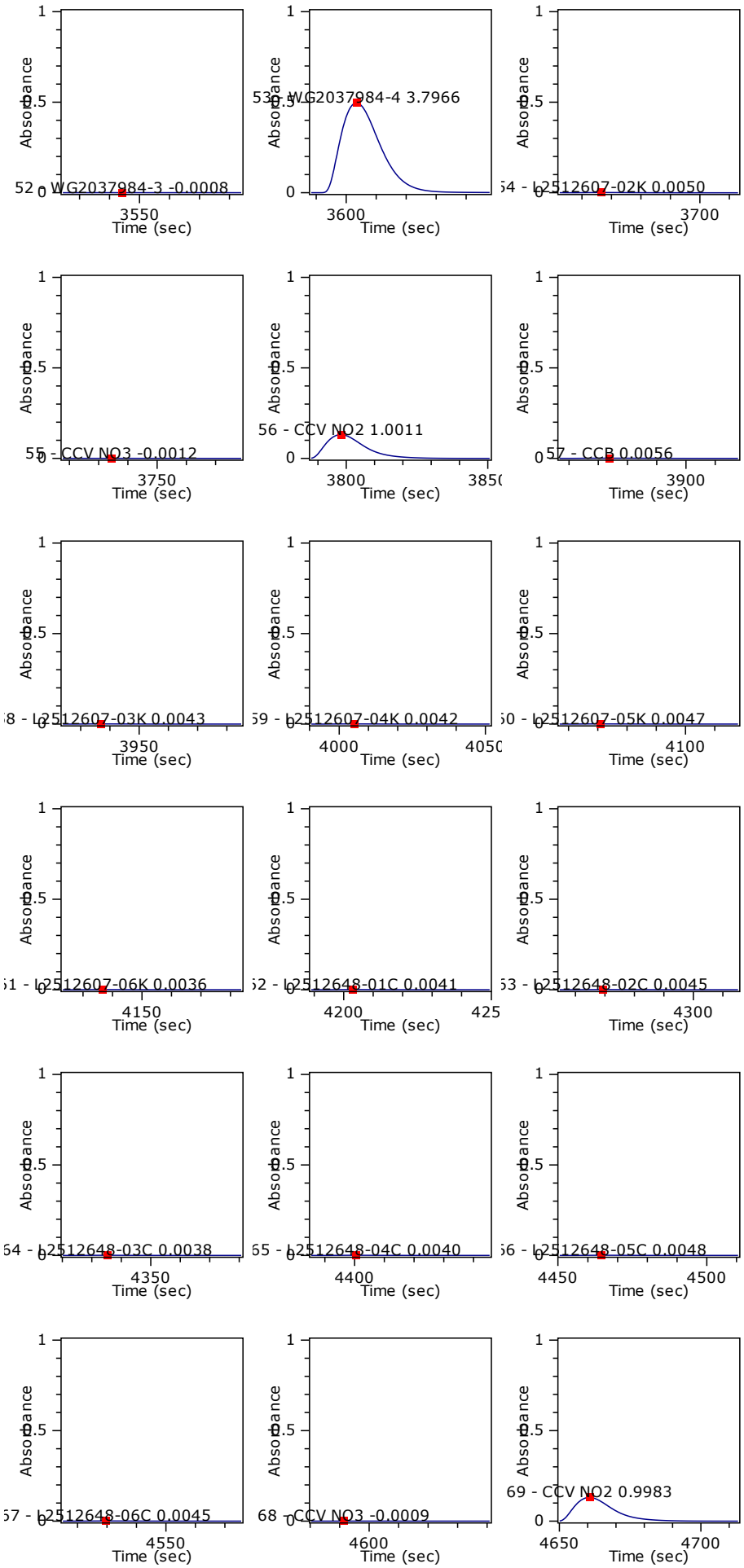
163 - L2512648-02C 10.4888
13250
Time (sec)
164 - L2512537-11J 8.6159
13350
Time (sec)
165 - L2513065-01H 16.2597
13400
Time (sec)
166 - L2512799-04L 42.8912
13450
13500
Time (sec)
167 - L2512799-08L 11.134
13550
Time (sec)
168 - CCV NO3 1.0363
13600
Time (sec)
169 - CCV NO2 1.0504
13650
13700
Time (sec)
170 - CCB 0.0069
13750
Time (sec)
171 - L2512799-10M 19.3877
13800
Time (sec)
172 - L2512686-02B 14.8419
13900
Time (sec)
173 - WG2037991-3 14.8464
13950
Time (sec)
174 - WG2037991-4 18.3041
14000
14050
Time (sec)
175 - L2513012-03A 11.625
14100
Time (sec)
176 - CCV NO3 1.0374
14150
Time (sec)
177 - CCV NO2 1.0541
14200
14250
Time (sec)
178 - CCB 0.0010
14300
Time (sec)

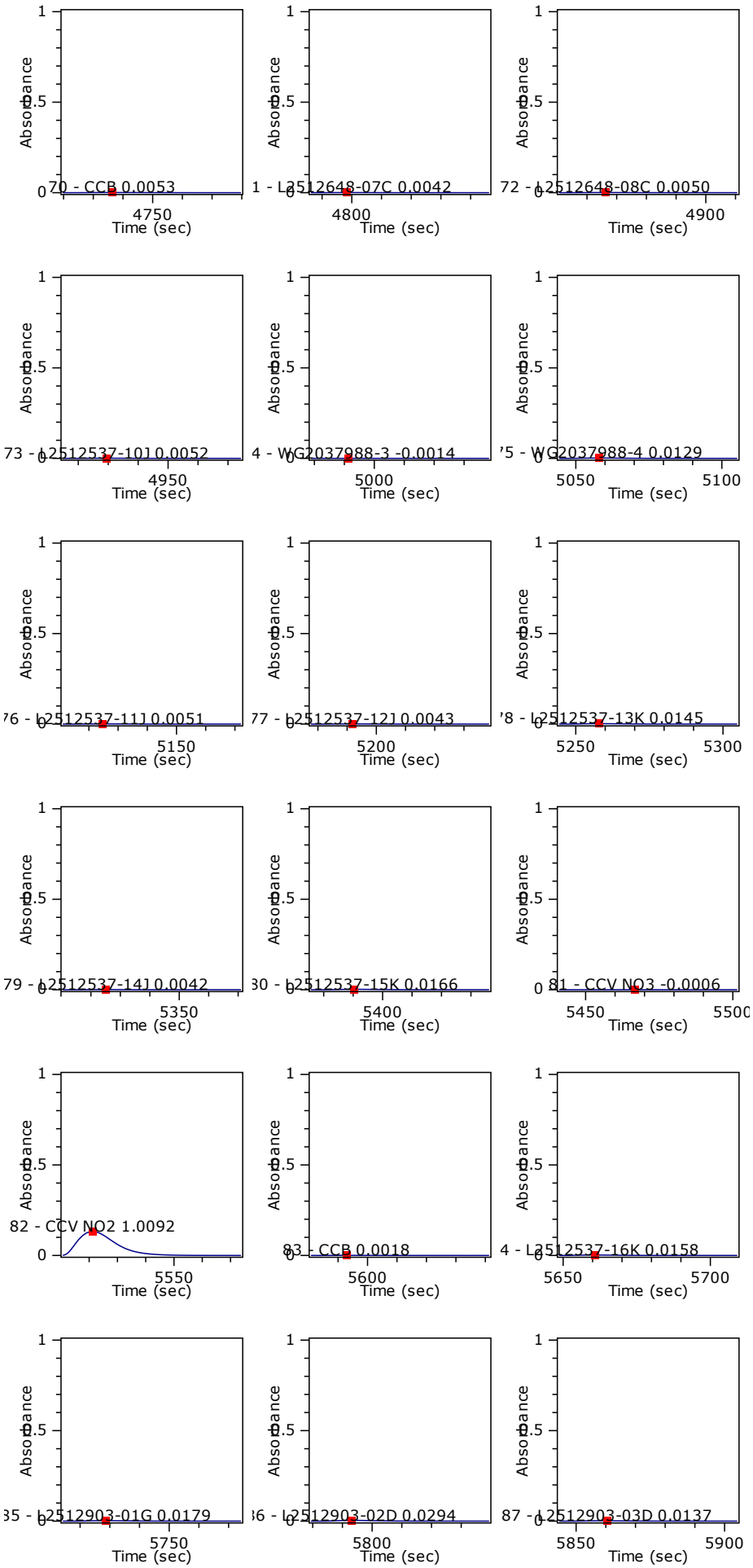
Channel: 2-NO2

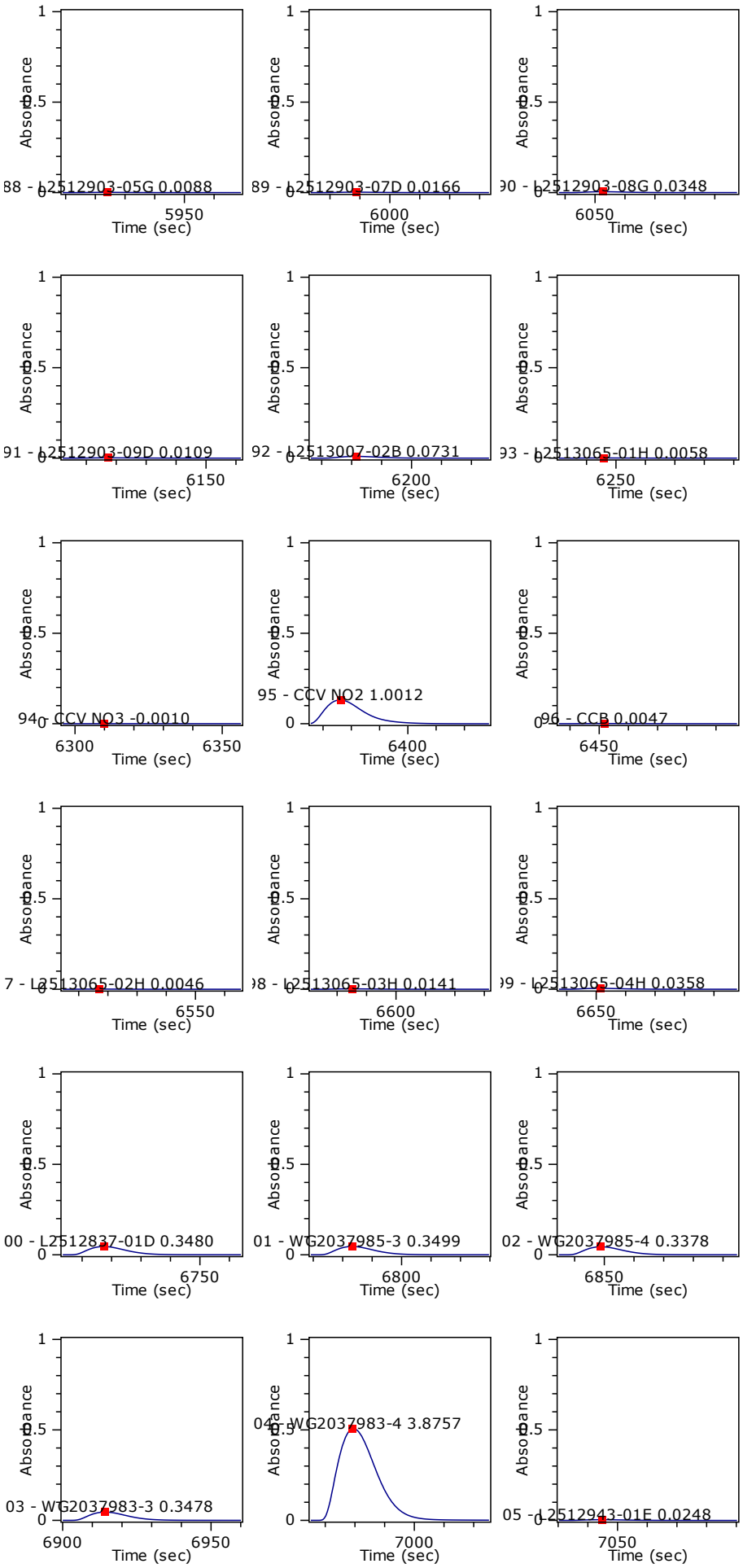


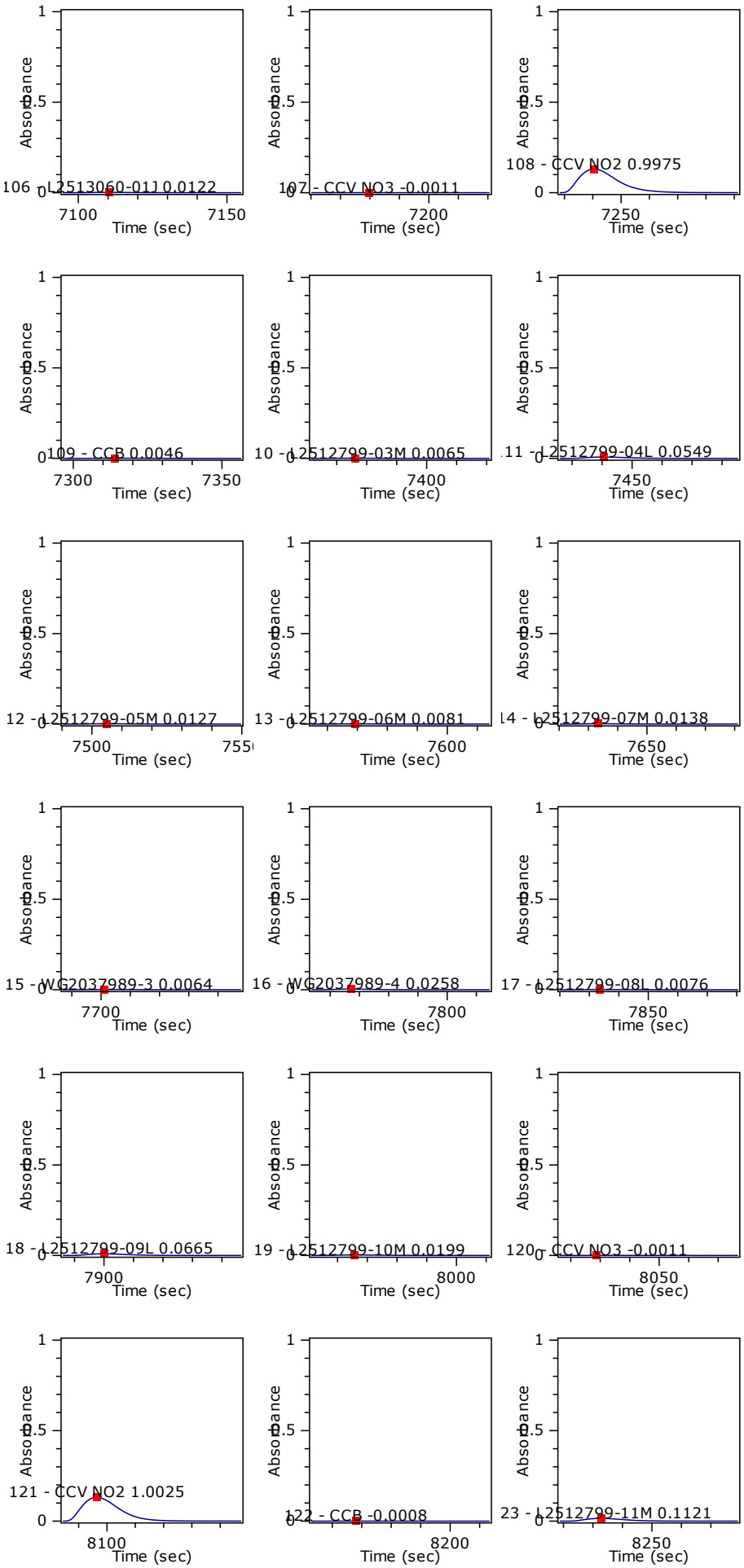

16 - CCV NO3 -0.0012
17 - CCV NO2 0.9988
18 - CCB 0.0037
19 - ICV NO3 5.0 -0.0003
20 - ICV NO2 5.0 5.0288
21 - ICV NO3 0.5 0.0187
22 - ICV NO2 0.5 0.5213
23 - ICB 0.0003
24 - Diluter CHK 8PPM -0.0073
25 - BLANK NO3 -0.0016
26 - LCS NO3 -0.0008
27 - BLANK NO2 -0.0016
28 - LCS NO2 5.0583
29 - CCV NO3 0.0295
30 - CCV NO2 1.0024
31 - CCB 0.0053
32 - WG2037983-1 -0.0010
33 - WG2037983-2 5.0365
Absorbance
Time (sec)

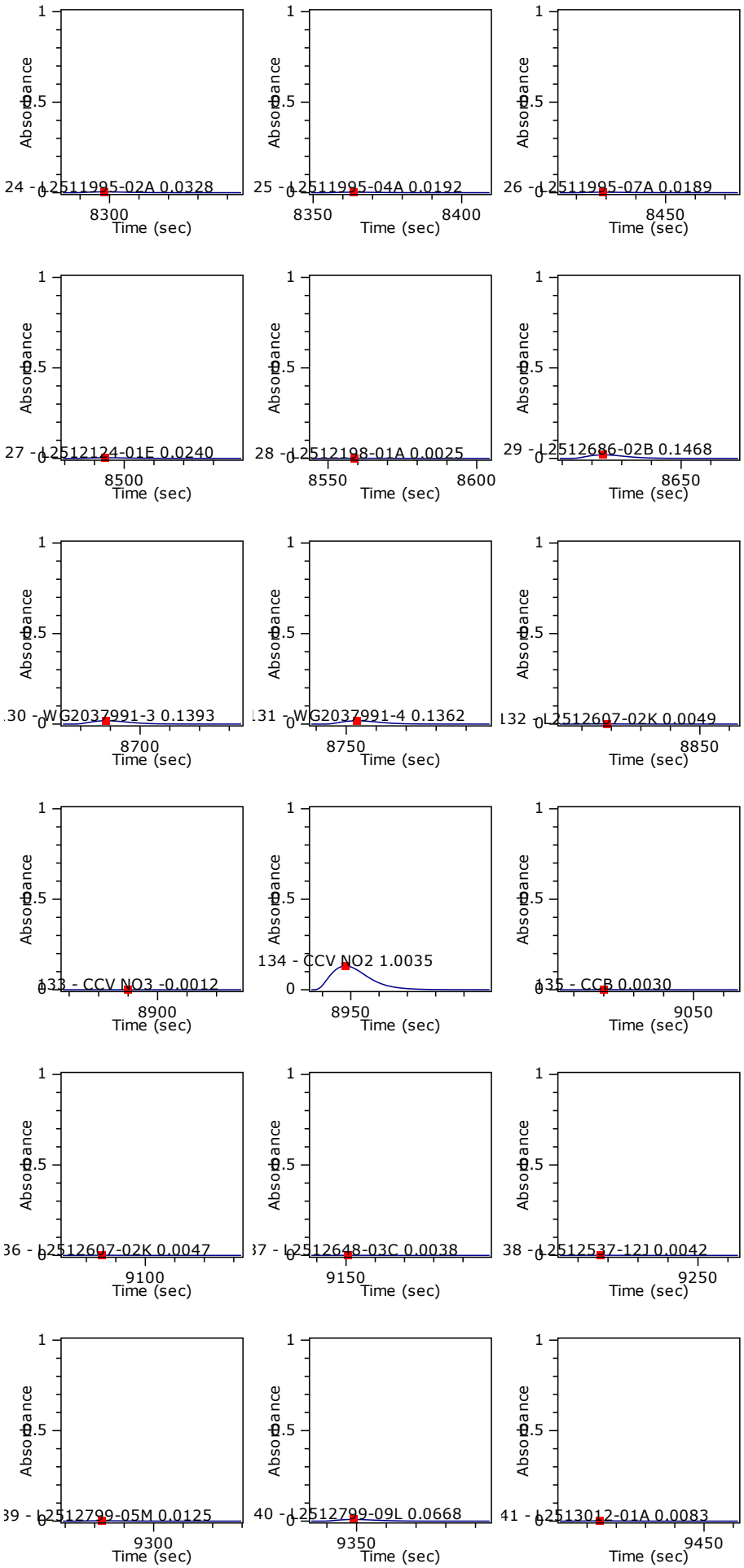

34 - WG2037984-1 0.0196
35 - WG2037984-2 5.0587
5 - WG2037985/991-1 0.0236
37 - WG2037985/991-2 0.0002
38 - WG2037986/987-1 -0.0014
39 - WG2037986/987-2 -0.0011
40 - WG2037988-1 -0.0016
41 - WG2037988-2 -0.0012
42 - CCV NO3 -0.0011
43 - CCV NO2 1.0062
44 - CCB 0.0051
45 - WG2037989-1 -0.0013
46 - WG2037989-2 -0.0014
47 - WG2037992-1 -0.0015
48 - WG2037992-2 -0.0012
49 - L2512607-01K 0.0060
0 - WG2037986/987-3 -0.0005
- WG2037986/987-4 -0.0006
Absorbance
Time (sec)

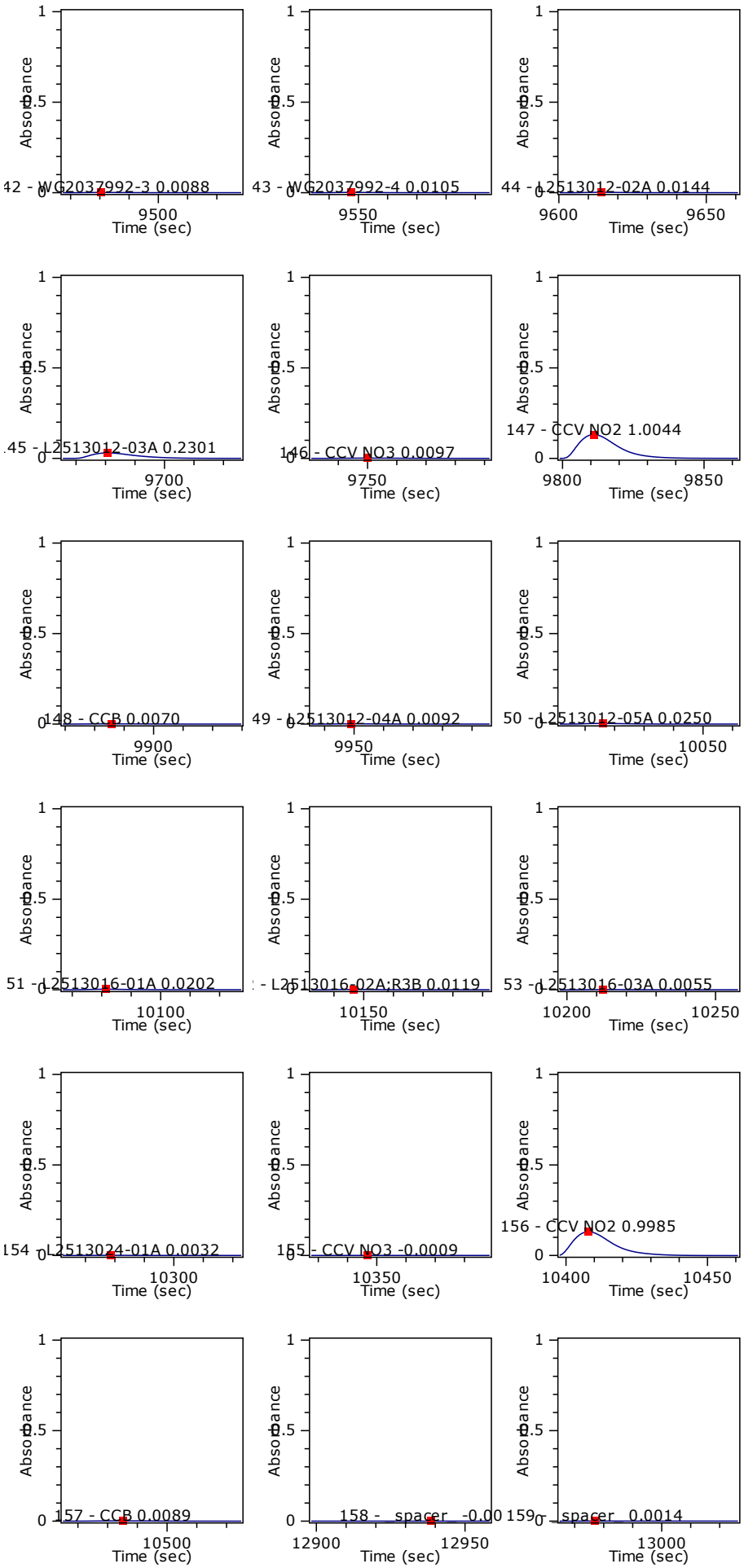

52 - WG2037984-3 -0.0008
53 - WG2037984-4 3.7966
54 - L2512607-02K 0.0050
55 - CCV NO3 -0.0012
56 - CCV NO2 1.0011
57 - CCB 0.0056
58 - L2512607-03K 0.0043
59 - L2512607-04K 0.0042
60 - L2512607-05K 0.0047
61 - L2512607-06K 0.0036
62 - L2512648-01C 0.0041
63 - L2512648-02C 0.0045
64 - L2512648-03C 0.0038
65 - L2512648-04C 0.0040
66 - L2512648-05C 0.0048
67 - L2512648-06C 0.0045
68 - CCV NO3 -0.0009
69 - CCV NO2 0.9983
Absorbance
Time (sec)

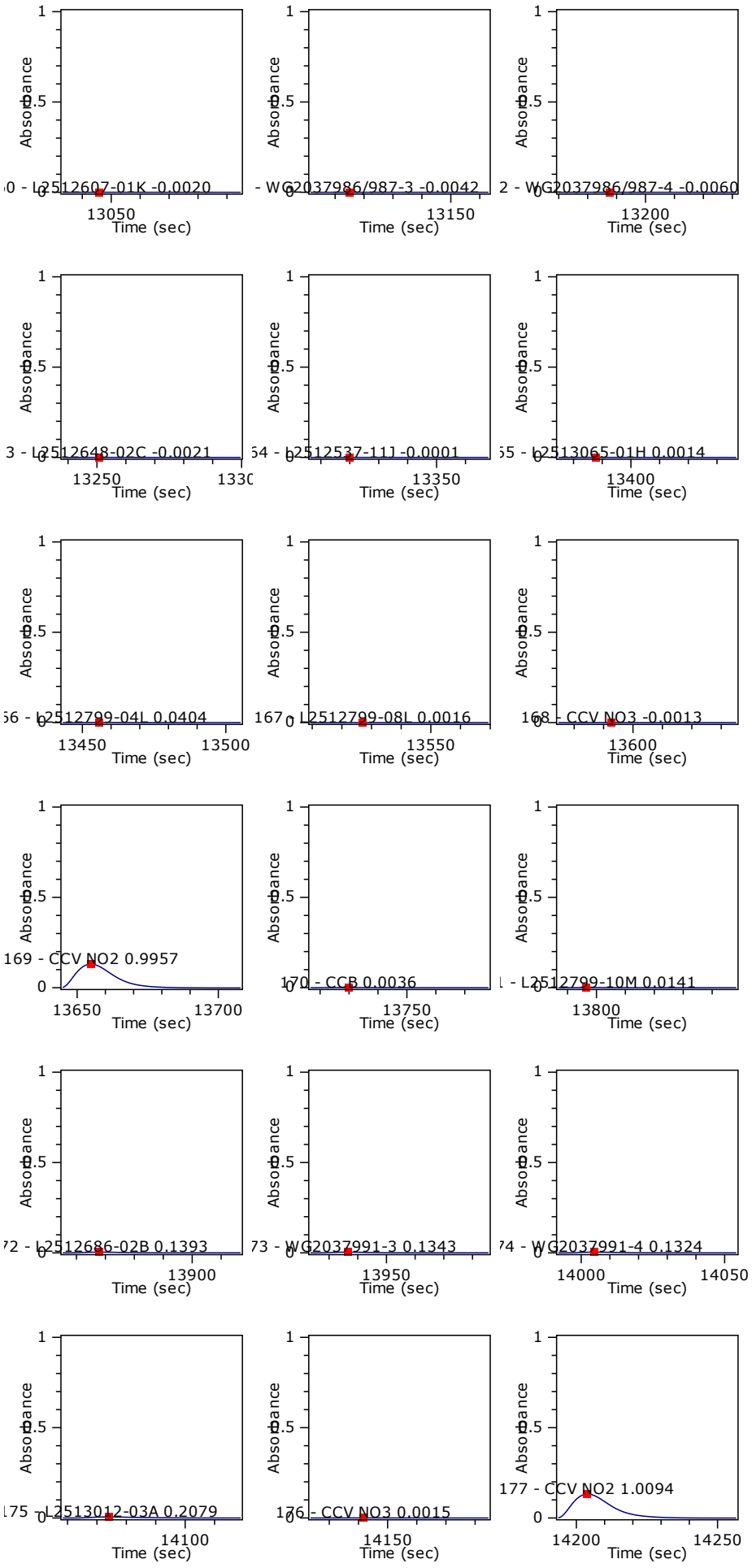

70 - CCB 0.0053
71 - L2512648-07C 0.0042
72 - L2512648-08C 0.0050
73 - L2512537-10J 0.0052
74 - WG2037988-3 -0.0014
75 - WG2037988-4 0.0129
76 - L2512537-11J 0.0051
77 - L2512537-12J 0.0043
78 - L2512537-13K 0.0145
79 - L2512537-14J 0.0042
80 - L2512537-15K 0.0166
81 - CCV NO3 -0.0006
82 - CCV NO2 1.0092
83 - CCB 0.0018
84 - L2512537-16K 0.0158
85 - L2512903-01G 0.0179
86 - L2512903-02D 0.0294
87 - L2512903-03D 0.0137
Absorbance
Time (sec)

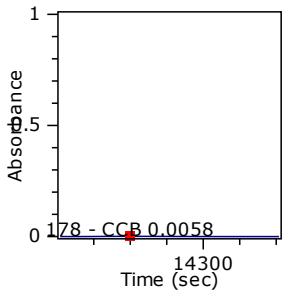

88 - L2512903-05G 0.0088
89 - L2512903-07D 0.0166
90 - L2512903-08G 0.0348
91 - L2512903-09D 0.0109
92 - L2513007-02B 0.0731
93 - L2513065-01H 0.0058
94 - CCV NO3 -0.0010
95 - CCV NO2 1.0012
96 - CCB 0.0047
97 - L2513065-02H 0.0046
98 - L2513065-03H 0.0141
99 - L2513065-04H 0.0358
00 - L2512837-01D 0.3480
01 - WG2037985-3 0.3499
02 - WG2037985-4 0.3378
03 - WG2037983-3 0.3478
04 - WG2037983-4 3.8757
05 - L2512943-01E 0.0248
Absorbance
Time (sec)


106 - L2513060-01J 0.0122
107 - CCV NO3 -0.0011
108 - CCV NO2 0.9975
109 - CCB 0.0046
10 - L2512799-03M 0.0065
11 - L2512799-04L 0.0549
12 - L2512799-05M 0.0127
13 - L2512799-06M 0.0081
14 - L2512799-07M 0.0138
15 - WG2037989-3 0.0064
16 - WG2037989-4 0.0258
17 - L2512799-08L 0.0076
18 - L2512799-09L 0.0665
19 - L2512799-10M 0.0199
120 - CCV NO3 -0.0011
121 - CCV NO2 1.0025
122 - CCB -0.0008
23 - L2512799-11M 0.1121
Absorbance
Time (sec)


24 - L2511995-02A 0.0328
25 - L2511995-04A 0.0192
26 - L2511995-07A 0.0189
27 - L2512124-01E 0.0240
28 - L2512198-01A 0.0025
29 - L2512686-02B 0.1468
30 - WG2037991-3 0.1393
31 - WG2037991-4 0.1362
32 - L2512607-02K 0.0049
33 - CCV NO3 -0.0012
134 - CCV NO2 1.0035
135 - CCB 0.0030
36 - L2512607-02K 0.0047
37 - L2512648-03C 0.0038
38 - L2512537-12J 0.0042
39 - L2512799-05M 0.0125
40 - L2512799-09L 0.0668
41 - L2513012-01A 0.0083
Absorbance
Time (sec)


42 - WG2037992-3 0.0088
43 - WG2037992-4 0.0105
44 - L2513012-02A 0.0144
45 - L2513012-03A 0.2301
146 - CCV NO3 0.0097
147 - CCV NO2 1.0044
148 - CCB 0.0070
49 - L2513012-04A 0.0092
50 - L2513012-05A 0.0250
51 - L2513016-01A 0.0202
- L2513016-02A;R3B 0.0119
53 - L2513016-03A 0.0055
154 - L2513024-01A 0.0032
155 - CCV NO3 -0.0009
156 - CCV NO2 0.9985
157 - CCB 0.0089
158 - spacer -0.00
159 - spacer 0.0014
Absorbance
Time (sec)


0 - L2512607-01K -0.0020
- WG2037986/987-3 -0.0042
2 - WG2037986/987-4 -0.0060
3 - L2512648-02C -0.0021
54 - L2512537-11J -0.0001
55 - L2513065-01H 0.0014
56 - L2512799-04L 0.0404
167 - L2512799-08L 0.0016
168 - CCV NO3 -0.0013
169 - CCV NO2 0.9957
170 - CCB 0.0036
L - L2512799-10M 0.0141
72 - L2512686-02B 0.1393
73 - WG2037991-3 0.1343
74 - WG2037991-4 0.1324
175 - L2513012-03A 0.2079
176 - CCV NO3 0.0015
177 - CCV NO2 1.0094
Absorbance
Time (sec)



Data Processing Parameters:

Channel: 1-NOx

Response parameter	Peak Height
Filter Type	None
Filter Window	3
Enable Peak Window	False
Peak Window Start	0
Peak Window Stop	0
Enable Baseline Correction	False
Enable 2 Point Correction	False
Baseline Start	0
Baseline Stop	0
Point 2 Baseline Start	0
Point 2 Baseline Stop	0
Background Correction	Single Wavelength
Ref Wavelength 1	600
Ref Wavelength 2	0

Channel: 2-NO2

Response parameter	Peak Height
Filter Type	None
Filter Window	3
Enable Peak Window	False
Peak Window Start	0
Peak Window Stop	0
Enable Baseline Correction	False
Enable 2 Point Correction	False
Baseline Start	0
Baseline Stop	0
Point 2 Baseline Start	0
Point 2 Baseline Stop	0
Background Correction	Single Wavelength
Ref Wavelength 1	600
Ref Wavelength 2	0

Method Log:

```
FIAsoft FIAsoft v3.1.10

FIAlyzer Settings
------------
FIAlab1 Serial Number: FIA31428
FIAlab2 Serial Number: FIA31429
Pump: Connected on COM8

Spectrometer Settings
Spectrometer1
------------
Spectrometer Type: tec5
```

```
Integration Time: 2.2
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Spectrometer2
------------
Spectrometer Type: tec5
Integration Time: 2
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Start Time
------------
2025-03-08T01:48:09

Method
------------
' Method Script for NOx-NO2

Autosave Data C:\FIAlab\Autosave Data\DateTime
FIAlab Injection Valve Sample Load
Message Cadmium Column on for NOx
FIAlab Peristaltic Pump Clockwise(%) 55

Autosampler Wash
Delay (sec) 2
Next Sample
Delay (sec) 35  'StartDelay2 - Controls initial sample introduction.

FIAlab1 Injection Valve Sample Inject
Autosampler Probe Up
Delay (sec) 2
Autosampler Position (#) Rinse
FIAlab2 Injection Valve Sample Inject
Delay (sec) 15   'StartDelay3 - Should be set equal to LoopDelay3

Autosampler Probe Up
Delay (sec) 5   'StartDelay4 - Should be set equal to LoopDelay4

Loop Start

   Analyte New Sample
   Delay (sec) 1
   Next Sample
   Autosampler Probe Force Down

   Spectrometer Reference Scan
   Spectrometer Absorbance Scanning

   Delay (sec) 3   ' LoopDelay1 - Controls sample transit & loop empty. Controls back baseline.

   FIAlab Injection Valve Sample Load

   Delay (sec) 35   ' LoopDelay2 - Controls sample transit & loop fill. Controls back baseline.

   FIAlab1 Injection Valve Sample Inject
   Autosampler Probe Up
   Delay (sec) 5
   Autosampler Position (#) Rinse
   FIAlab2 Injection Valve Sample Inject

   Delay (sec) 10   ' LoopDelay3 - Controls loop empty & probe rinse time. Inverse controls front baseline.

   Autosampler Probe Up

   Delay (sec) 3   ' LoopDelay4 - Controls loop empty. Inverse controls front baseline.
```

```
    Spectrometer Stop Scanning

Loop End

Autosampler Position (#) Rinse
Delay (sec) 20
Autosampler Probe Up
Delay (sec) 30
FIAlab Peristaltic Pump Clockwise(%) 5
Autoexport Report C:\FIAlab\autoreport\NOxNO2\DateTime
Message Run is Complete
```

Method File Location: C:\FIAlab\FIAlab User Files\Methods\Method_NOx+NO2.fia

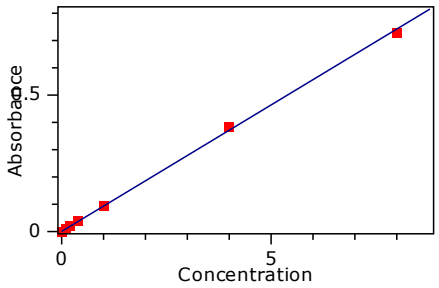
Graphical report generated by FIAsoft v3.1.10
Report generated on 2025-03-08 07:57:53
Data file (.dat): C:\FIAlab\Autosave Data\2025-03-08-075736.dat

Dataset Notes:

Analyst	

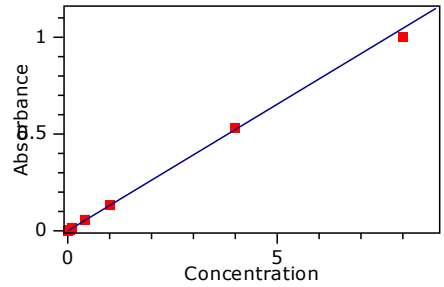
Dataset Notes Table Location: C:\FIAlab\FIAlab User Files\Tables\Dataset Notes\Analyst.csv

Calibrations:



Channel: 1-NOx
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: 0.00055
B: 0.09267
R^2: 0.99937
RSE(%): 2.26557
% Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
10001	NOx 8.0ppm	0.72700	8.00000	7.83910	2.01	N/A
10002	NOx 4.0ppm	0.38320	4.00000	4.12940	3.23	N/A
10003	NOx 1.0ppm	0.09330	1.00000	1.00030	0.03	N/A
10004	NOx 0.4ppm	0.03770	0.40000	0.40090	0.22	N/A
10005	NOx 0.2ppm	0.01870	0.20000	0.19560	2.18	N/A
10006	NOx 0.1ppm	0.00990	0.10000	0.10110	1.11	N/A
10007	NOx 0.0ppm	0.00000	0.00000	-0.00560	NA	N/A



Channel: 2-NO2
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: 0.00027
B: 0.13074
R^2: 0.99930
RSE(%): 2.87097
% Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
10001	Nitrite 8.0ppm	1.00120	8.00000	7.65580	4.30	N/A
10002	Nitrite 4.0ppm	0.52920	4.00000	4.04600	1.15	N/A
10003	Nitrite 1.0ppm	0.13250	1.00000	1.01140	1.14	N/A
10004	Nitrite 0.4ppm	0.05430	0.40000	0.41360	3.40	N/A
10005	Nitrite 0.1ppm	0.01330	0.10000	0.09950	0.51	N/A
10006	Nitrite 0.05ppm	0.00680	0.05000	0.04990	0.20	N/A
10007	Nitrite 0.0ppm	0.00020	0.00000	-0.00030	NA	N/A

Results:

Channel: 1-NOx

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
Stabil	1	Unknown	?	0.0001	1	1	1	-0.0044		2025-03-08T06:43:28
CCV NO3	2	QC	1	0.0969	1	1	1	1.0393		2025-03-08T06:44:39
CCV NO2	3	QC	?	0.0963	1	1	1	1.0331		2025-03-08T06:45:44
CCB	4	QC	0	0.0006	1	1	1	0.0002		2025-03-08T06:46:57

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2513061-24A	5	Unknown	?	0.7749	1	1	1	8.3558	OVR	2025-03-08T06:48:01
WG2038011-3	6	Unknown	?	0.7748	1	1	1	8.3551	OVR	2025-03-08T06:49:06
WG2038011-4	7	Unknown	?	1.0372	1	1	1	11.1857	OVR	2025-03-08T06:50:12
L2513076-01A	8	Unknown	?	0.7064	1	1	1	7.6161		2025-03-08T06:51:17
L2512947-01A	9	Unknown	?	-0.0001	1	1	1	-0.0075		2025-03-08T06:51:54
L2512963-01M	10	Unknown	?	0.0059	1	1	1	0.0575		2025-03-08T06:53:28
L2512942-02A	11	Unknown	?	1.2679	1	1	1	13.6751	OVR	2025-03-08T06:54:35
L2513027-01H	12	Unknown	?	0.3676	1	1	1	3.9609		2025-03-08T06:55:41
L2513183-01A	13	Unknown	?	0.4158	1	1	1	4.4808		2025-03-08T06:56:48
L2513183-02A	14	Unknown	?	0.4016	1	1	1	4.3270		2025-03-08T06:57:54
CCV NO3	15	QC	1	0.0954	1	1	1	1.0233		2025-03-08T06:58:59
CCV NO2	16	QC	?	0.0966	1	1	1	1.0369		2025-03-08T07:00:04
CCB	17	QC	0	0.0010	1	1	1	0.0049		2025-03-08T07:01:21
L2513183-03A	18	Unknown	?	0.3627	1	1	1	3.9078		2025-03-08T07:02:22
L2513183-04A	19	Unknown	?	0.1023	1	1	1	1.0975		2025-03-08T07:03:29
L2513183-05A	20	Unknown	?	0.1014	1	1	1	1.0879		2025-03-08T07:04:34
L2513183-06A	21	Unknown	?	0.0326	1	1	1	0.3456		2025-03-08T07:05:40
L2513076-01A	22	Unknown	?	0.7034	1	1	1	7.5840		2025-03-08T07:06:45
L2513027-01H	23	Unknown	?	0.3696	1	1	1	3.9825		2025-03-08T07:07:51
CCV NO3	24	QC	1	0.0944	1	1	1	1.0122		2025-03-08T07:08:56
CCV NO2	25	QC	?	0.0971	1	1	1	1.0422		2025-03-08T07:10:02
CCB	26	QC	0	0.0003	1	1	1	-0.0025		2025-03-08T07:11:16
spacer	27	Unknown	?	0.0000	1	1	1	-0.0058		2025-03-08T07:23:01
spacer	28	Unknown	?	0.0006	1	1	1	0.0009		2025-03-08T07:24:33
L2513061-24A	29	Unknown	?	0.1583	1	5	1	8.5106		2025-03-08T07:25:35
WG2038011-3	30	Unknown	?	0.1608	1	5	1	8.6464		2025-03-08T07:26:43
WG2038011-4	31	Unknown	?	0.2366	1	5	1	12.7372		2025-03-08T07:27:52
L2512942-02A	32	Unknown	?	0.3476	1	5	1	18.7236		2025-03-08T07:29:00
CCV NO3	33	QC	1	0.0958	1	1	1	1.0273		2025-03-08T07:30:07
CCV NO2	34	QC	?	0.0960	1	1	1	1.0294		2025-03-08T07:31:13
CCB	35	QC	0	0.0007	1	1	1	0.0011		2025-03-08T07:32:28

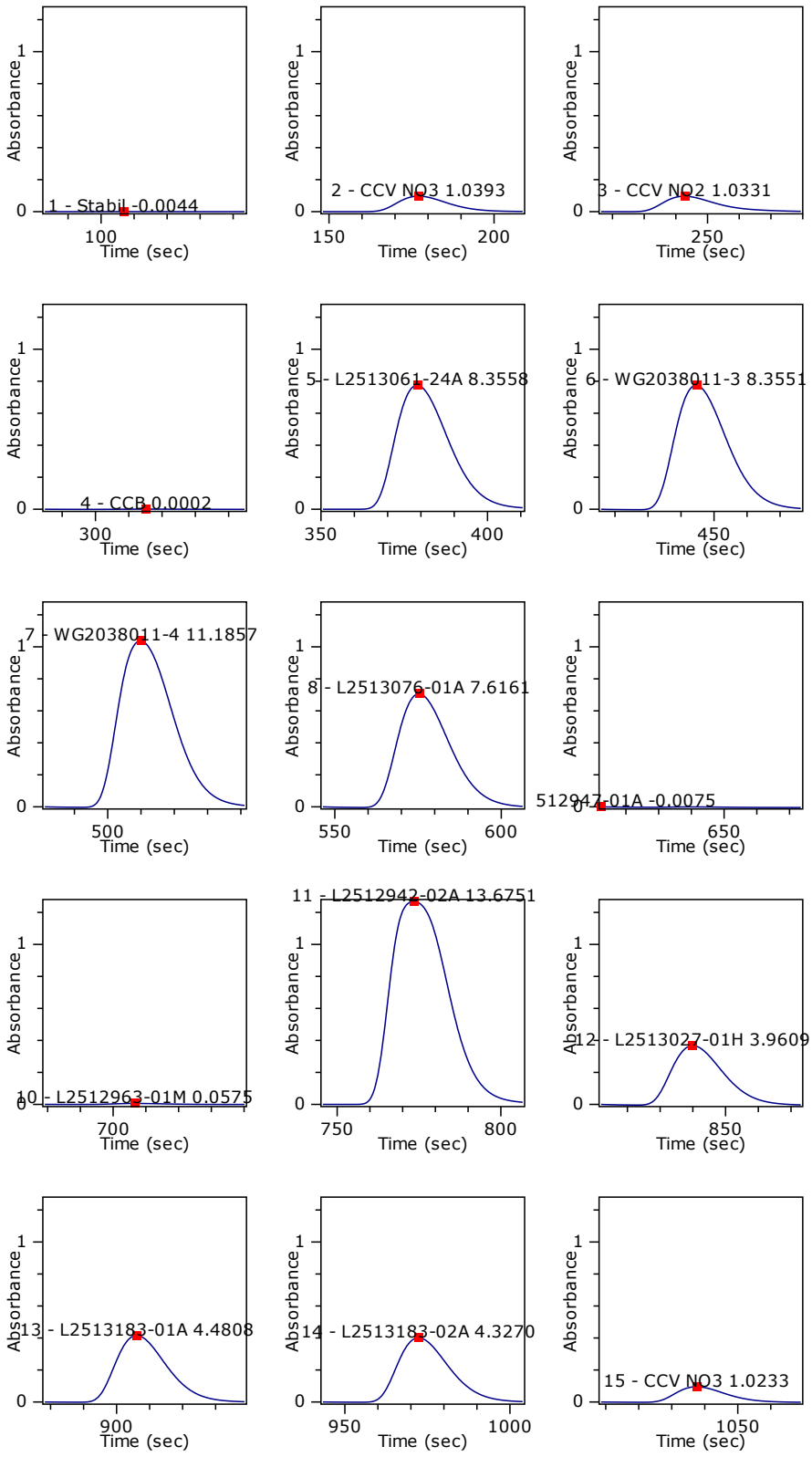
Channel: 2-NO2

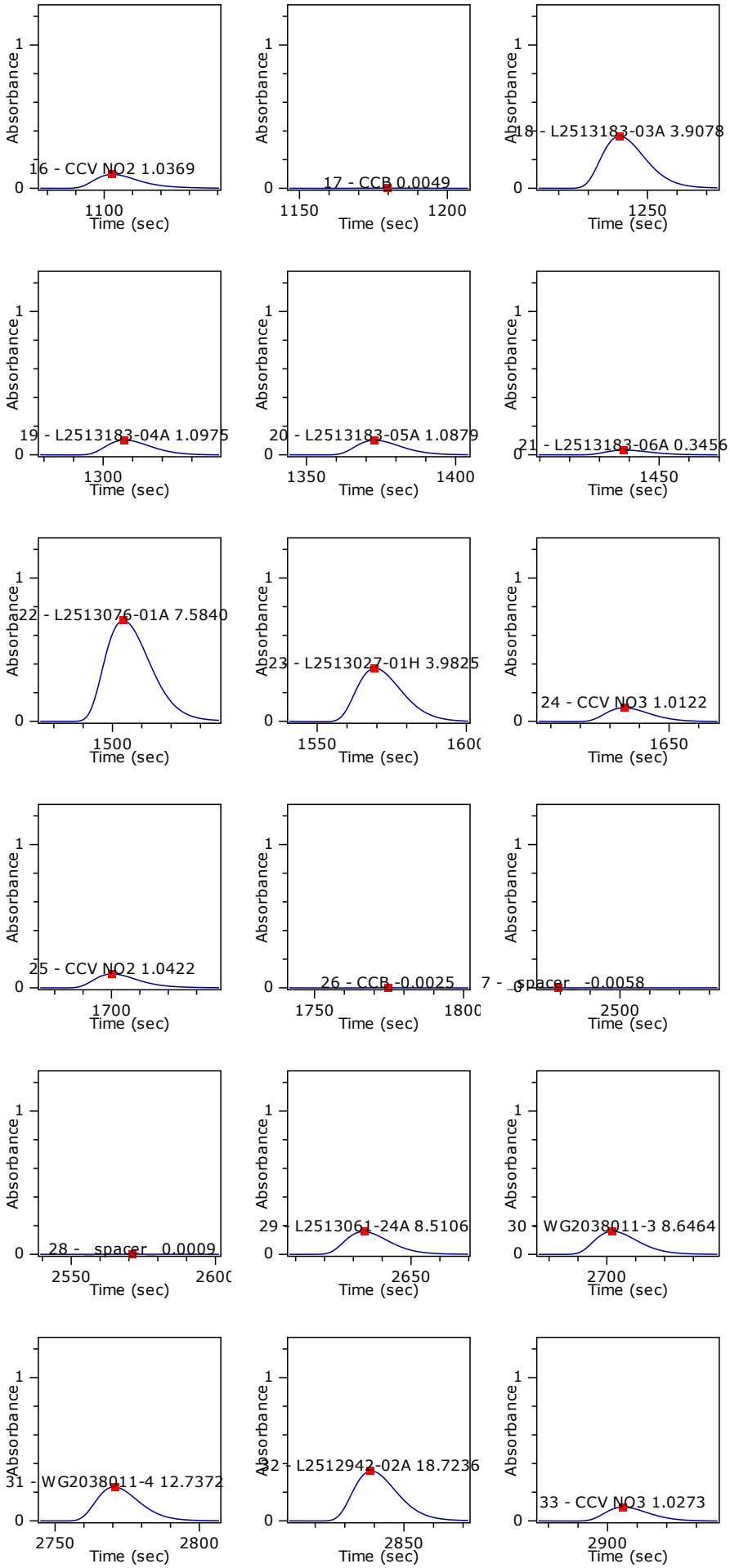
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
Stabil	1	Unknown	?	0.0002	1	1	1	-0.0007		2025-03-08T06:43:14
CCV NO3	2	QC	?	0.0001	1	1	1	-0.0010		2025-03-08T06:44:20
CCV NO2	3	QC	1	0.1317	1	1	1	1.0056		2025-03-08T06:45:30
CCB	4	QC	0	0.0009	1	1	1	0.0045		2025-03-08T06:46:45
L2513061-24A	5	Unknown	?	0.0001	1	1	1	-0.0017		2025-03-08T06:47:57
WG2038011-3	6	Unknown	?	0.0001	1	1	1	-0.0015		2025-03-08T06:48:59
WG2038011-4	7	Unknown	?	0.0001	1	1	1	-0.0015		2025-03-08T06:50:07
L2513076-01A	8	Unknown	?	0.0051	1	1	1	0.0370		2025-03-08T06:51:02
L2512947-01A	9	Unknown	?	0.0009	1	1	1	0.0046		2025-03-08T06:52:08
L2512963-01M	10	Unknown	?	0.0058	1	1	1	0.0425		2025-03-08T06:53:14
L2512942-02A	11	Unknown	?	0.0377	1	1	1	0.2864		2025-03-08T06:54:21
L2513027-01H	12	Unknown	?	0.0031	1	1	1	0.0217		2025-03-08T06:55:28
L2513183-01A	13	Unknown	?	0.0007	1	1	1	0.0036		2025-03-08T06:56:33
L2513183-02A	14	Unknown	?	0.0007	1	1	1	0.0035		2025-03-08T06:57:40
CCV NO3	15	QC	?	0.0001	1	1	1	-0.0012		2025-03-08T06:58:43
CCV NO2	16	QC	1	0.1314	1	1	1	1.0032		2025-03-08T06:59:51
CCB	17	QC	0	0.0009	1	1	1	0.0049		2025-03-08T07:01:08
L2513183-03A	18	Unknown	?	0.0009	1	1	1	0.0045		2025-03-08T07:02:09
L2513183-04A	19	Unknown	?	0.0009	1	1	1	0.0050		2025-03-08T07:03:16
L2513183-05A	20	Unknown	?	0.0007	1	1	1	0.0035		2025-03-08T07:04:21
L2513183-06A	21	Unknown	?	0.0007	1	1	1	0.0034		2025-03-08T07:05:26
L2513076-01A	22	Unknown	?	0.0050	1	1	1	0.0364		2025-03-08T07:06:30
L2513027-01H	23	Unknown	?	0.0021	1	1	1	0.0137		2025-03-08T07:07:38
CCV NO3	24	QC	?	0.0001	1	1	1	-0.0010		2025-03-08T07:08:52
CCV NO2	25	QC	1	0.1307	1	1	1	0.9975		2025-03-08T07:09:47
CCB	26	QC	0	0.0003	1	1	1	0.0000		2025-03-08T07:11:03
spacer	27	Unknown	?	0.0000	1	1	1	-0.0018		2025-03-08T07:23:21
spacer	28	Unknown	?	0.0005	1	1	1	0.0017		2025-03-08T07:24:14
L2513061-24A	29	Unknown	?	0.0000	1	5	1	-0.0088		2025-03-08T07:25:20
WG2038011-3	30	Unknown	?	0.0001	1	5	1	-0.0080		2025-03-08T07:26:43
WG2038011-4	31	Unknown	?	0.0001	1	5	1	-0.0080		2025-03-08T07:27:54
L2512942-02A	32	Unknown	?	0.0075	1	5	1	0.2781		2025-03-08T07:28:48
CCV NO3	33	QC	?	0.0002	1	1	1	-0.0006		2025-03-08T07:29:56

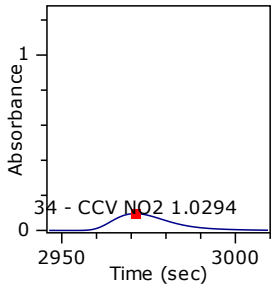
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
CCV NO2	34	QC	1	0.1289	1	1	1	0.9839		2025-03-08T07:30:58
CCB	35	QC	0	0.0008	1	1	1	0.0041		2025-03-08T07:32:15

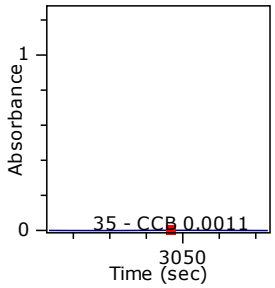
Peaks:

Channel: 1-NOx

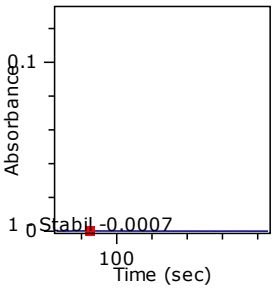


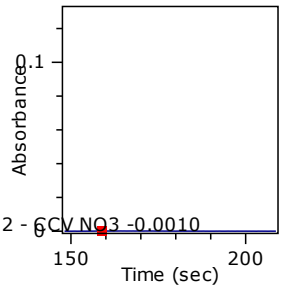

16 - CCV NO2 1.0369
17 - CCB 0.0049
18 - L2513183-03A 3.9078
19 - L2513183-04A 1.0975
20 - L2513183-05A 1.0879
21 - L2513183-06A 0.3456
22 - L2513076-01A 7.5840
23 - L2513027-01H 3.9825
24 - CCV NO3 1.0122
25 - CCV NO2 1.0422
26 - CCB -0.0025
7 - spacer -0.0058
28 - spacer 0.0009
29 - L2513061-24A 8.5106
30 - WG2038011-3 8.6464
31 - WG2038011-4 12.7372
32 - L2512942-02A 18.7236
33 - CCV NO3 1.0273
Absorbance
Time (sec)

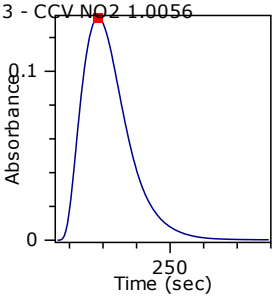


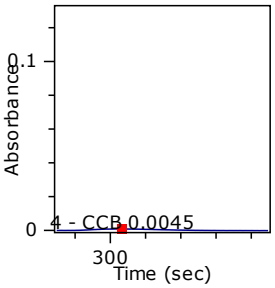


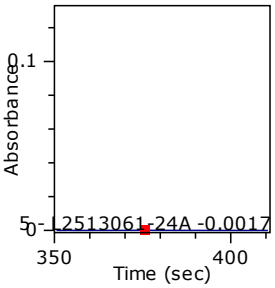
Channel: 2-NO2

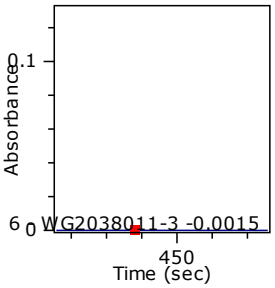


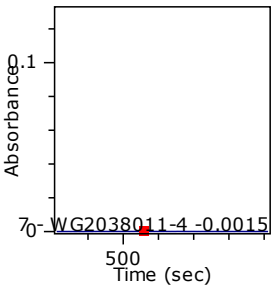


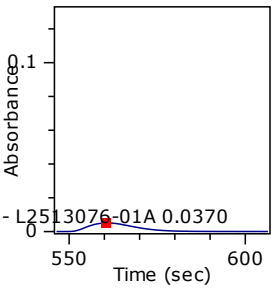


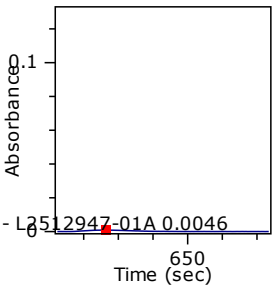


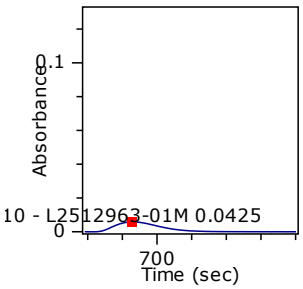


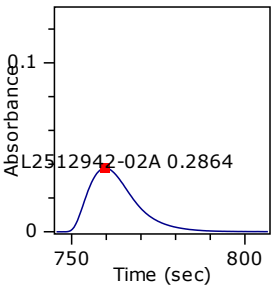


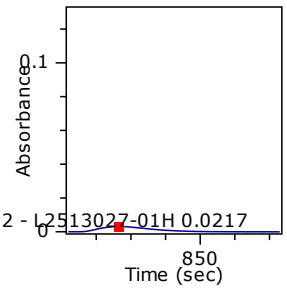


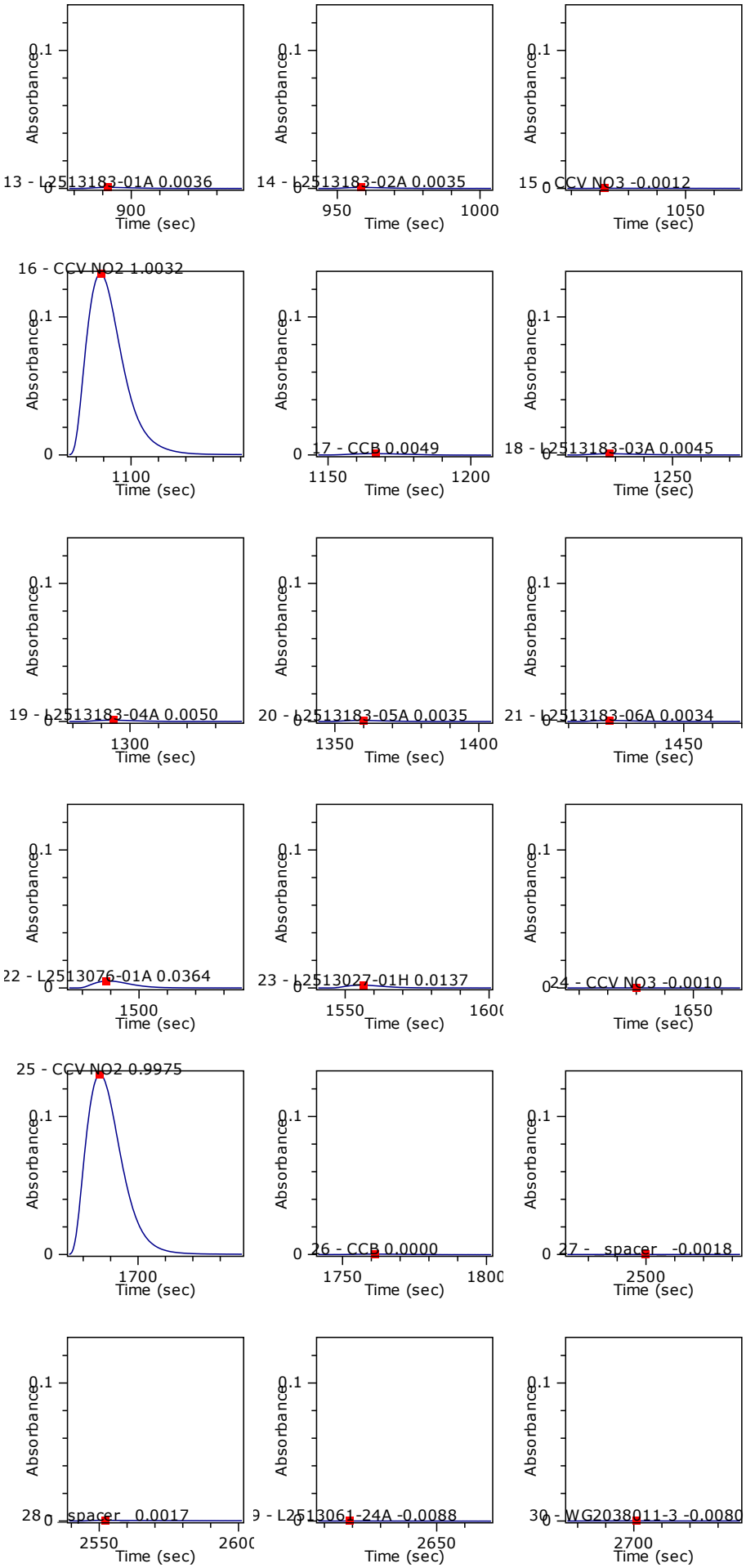


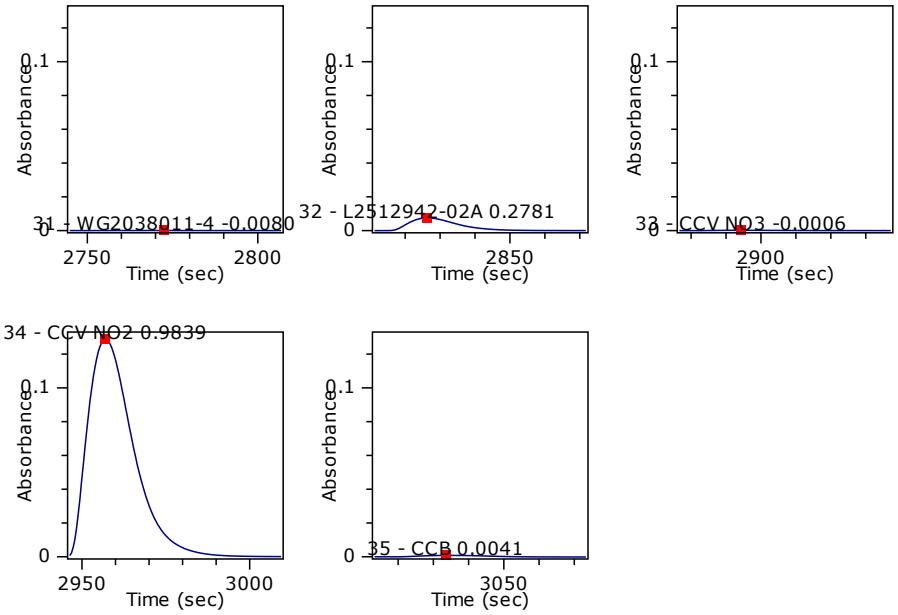









13 - L2513183-01A 0.0036
14 - L2513183-02A 0.0035
15 - CCV NO3 -0.0012
16 - CCV NO2 1.0032
17 - CCB 0.0049
18 - L2513183-03A 0.0045
19 - L2513183-04A 0.0050
20 - L2513183-05A 0.0035
21 - L2513183-06A 0.0034
22 - L2513076-01A 0.0364
23 - L2513027-01H 0.0137
24 - CCV NO3 -0.0010
25 - CCV NO2 0.9975
26 - CCB 0.0000
27 - spacer -0.0018
28 - spacer 0.0017
29 - L2513061-24A -0.0088
30 - WG2038011-3 -0.0080
Absorbance
Time (sec)



Data Processing Parameters:

Channel: 1-NOx

Response parameter	Peak Height
Filter Type	None
Filter Window	3
Enable Peak Window	False
Peak Window Start	0
Peak Window Stop	0
Enable Baseline Correction	False
Enable 2 Point Correction	False
Baseline Start	0
Baseline Stop	0
Point 2 Baseline Start	0
Point 2 Baseline Stop	0
Background Correction	Single Wavelength
Ref Wavelength 1	600
Ref Wavelength 2	0

Channel: 2-NO2

Response parameter	Peak Height
Filter Type	None
Filter Window	3
Enable Peak Window	False
Peak Window Start	0
Peak Window Stop	0
Enable Baseline Correction	False
Enable 2 Point Correction	False
Baseline Start	0
Baseline Stop	0
Point 2 Baseline Start	0
Point 2 Baseline Stop	0
Background Correction	Single Wavelength
Ref Wavelength 1	600
Ref Wavelength 2	0

Method Log:

```
FIAsoft FIAsoft v3.1.10

FIAlyzer Settings
------------
FIAlab1 Serial Number: FIA31428
FIAlab2 Serial Number: FIA31429
Pump: Connected on COM8

Spectrometer Settings
Spectrometer1
------------
Spectrometer Type: tec5
Integration Time: 2.2
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Spectrometer2
------------
Spectrometer Type: tec5
Integration Time: 2
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Start Time
------------
2025-03-08T06:41:42

Method
------------
' Method Script for NOx-NO2

Autosave Data C:\FIAlab\Autosave Data\DateTime
FIAlab Injection Valve Sample Load
Message Cadmium Column on for NOx
FIAlab Peristaltic Pump Clockwise(%) 55

Autosampler Wash
Delay (sec) 2
Next Sample
Delay (sec) 35  'StartDelay2 - Controls initial sample introduction.

FIAlab1 Injection Valve Sample Inject
Autosampler Probe Up
Delay (sec) 2
Autosampler Position (#) Rinse
FIAlab2 Injection Valve Sample Inject
Delay (sec) 15   'StartDelay3 - Should be set equal to LoopDelay3

Autosampler Probe Up
Delay (sec) 5   'StartDelay4 - Should be set equal to LoopDelay4

Loop Start

   Analyte New Sample
   Delay (sec) 1
   Next Sample
   Autosampler Probe Force Down

   Spectrometer Reference Scan
   Spectrometer Absorbance Scanning

   Delay (sec) 3   ' LoopDelay1 - Controls sample transit & loop empty. Controls back baseline.

   FIAlab Injection Valve Sample Load

   Delay (sec) 35   ' LoopDelay2 - Controls sample transit & loop fill. Controls back baseline.
```

```
    FIAlab1 Injection Valve Sample Inject
    Autosampler Probe Up
    Delay (sec) 5
    Autosampler Position (#) Rinse
    FIAlab2 Injection Valve Sample Inject

    Delay (sec) 10   ' LoopDelay3 - Controls loop empty & probe rinse time. Inverse controls front baseline.

    Autosampler Probe Up

    Delay (sec) 3   ' LoopDelay4 - Controls loop empty. Inverse controls front baseline.

    Spectrometer Stop Scanning

Loop End

Autosampler Position (#) Rinse
Delay (sec) 20
Autosampler Probe Up
Delay (sec) 30
FIAlab Peristaltic Pump Clockwise(%) 5
Autoexport Report C:\FIAlab\autoreport\NOxNO2\DateTime
Message Run is Complete
```

Method File Location: C:\FIAlab\FIAlab User Files\Methods\Method_NOx+NO2.fia

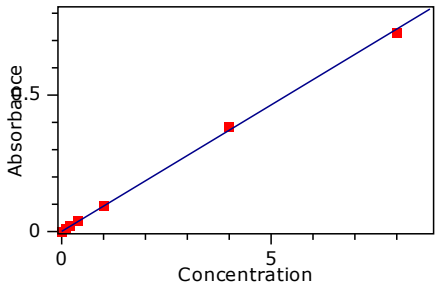
Graphical report generated by FIAsoft v3.1.10
Report generated on 2025-03-08 08:55:57
Data file (.dat): C:\FIAlab\Autosave Data\2025-03-08-085537.dat

Dataset Notes:

Analyst	

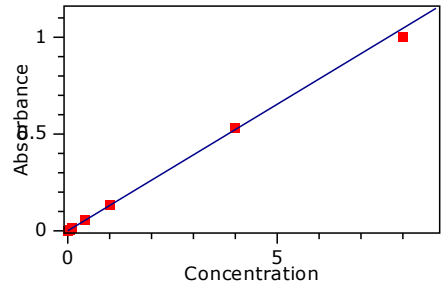
Dataset Notes Table Location: C:\FIAlab\FIAlab User Files\Tables\Dataset Notes\Analyst.csv

Calibrations:



Channel: 1-NOx
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: 0.00055
B: 0.09267
R^2: 0.99937
RSE(%): 2.26557
% Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
10001	NOx 8.0ppm	0.72700	8.00000	7.83910	2.01	N/A
10002	NOx 4.0ppm	0.38320	4.00000	4.12940	3.23	N/A
10003	NOx 1.0ppm	0.09330	1.00000	1.00030	0.03	N/A
10004	NOx 0.4ppm	0.03770	0.40000	0.40090	0.22	N/A
10005	NOx 0.2ppm	0.01870	0.20000	0.19560	2.18	N/A
10006	NOx 0.1ppm	0.00990	0.10000	0.10110	1.11	N/A
10007	NOx 0.0ppm	0.00000	0.00000	-0.00560	NA	N/A



Channel: 2-NO2
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: 0.00027
B: 0.13074
R^2: 0.99930
RSE(%): 2.87097
% Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
10001	Nitrite 8.0ppm	1.00120	8.00000	7.65580	4.30	N/A
10002	Nitrite 4.0ppm	0.52920	4.00000	4.04600	1.15	N/A
10003	Nitrite 1.0ppm	0.13250	1.00000	1.01140	1.14	N/A
10004	Nitrite 0.4ppm	0.05430	0.40000	0.41360	3.40	N/A
10005	Nitrite 0.1ppm	0.01330	0.10000	0.09950	0.51	N/A
10006	Nitrite 0.05ppm	0.00680	0.05000	0.04990	0.20	N/A
10007	Nitrite 0.0ppm	0.00020	0.00000	-0.00030	NA	N/A

Results:

Channel: 1-NOx

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
Stabil	1	Unknown	?	0.0001	1	1	1	-0.0044		2025-03-08T08:07:37
CCV NO3	2	QC	1	0.0965	1	1	1	1.0349		2025-03-08T08:08:47
CCV NO2	3	QC	?	0.0959	1	1	1	1.0294		2025-03-08T08:09:52
CCB	4	QC	0	0.0010	1	1	1	0.0046		2025-03-08T08:11:07

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
WG2038041/042-1	5	Unknown	?	0.0000	1	1	1	-0.0060		2025-03-08T08:11:40
WG2038041/042-2	6	Unknown	?	0.4873	1	1	1	5.2518		2025-03-08T08:13:15
L2512799-14O	7	Unknown	?	0.0002	1	1	1	-0.0040		2025-03-08T08:14:20
L2512799-15O	8	Unknown	?	0.0424	1	1	1	0.4512		2025-03-08T08:15:26
L2512799-16O	9	Unknown	?	0.0952	1	1	1	1.0211		2025-03-08T08:16:31
L2512799-17O	10	Unknown	?	0.0175	1	1	1	0.1825		2025-03-08T08:17:36
L2513181-01G	11	Unknown	?	0.1408	1	1	1	1.5130		2025-03-08T08:18:43
WG2038041/042-3	12	Unknown	?	0.1407	1	1	1	1.5120		2025-03-08T08:19:49
WG2038041/042-4	13	Unknown	?	0.4917	1	1	1	5.2997		2025-03-08T08:20:56
WG2038039-3	14	Unknown	?	0.1395	1	1	1	1.4992		2025-03-08T08:22:02
CCV NO3	15	QC	1	0.0955	1	1	1	1.0241		2025-03-08T08:23:08
CCV NO2	16	QC	?	0.0979	1	1	1	1.0502		2025-03-08T08:24:13
CCB	17	QC	0	0.0006	1	1	1	0.0001		2025-03-08T08:25:27
WG2038039-4	18	Unknown	?	0.4821	1	1	1	5.1961		2025-03-08T08:26:31
L2513181-02G	19	Unknown	?	0.1304	1	1	1	1.4006		2025-03-08T08:27:38
L2513181-03G	20	Unknown	?	0.0034	1	1	1	0.0307		2025-03-08T08:28:44
L2513181-04F	21	Unknown	?	0.0068	1	1	1	0.0677		2025-03-08T08:29:50
L2513181-05G	22	Unknown	?	0.0007	1	1	1	0.0013		2025-03-08T08:30:55
CCV NO3	23	QC	1	0.0970	1	1	1	1.0402		2025-03-08T08:32:00
CCV NO2	24	QC	?	0.0979	1	1	1	1.0505		2025-03-08T08:33:06
CCB	25	QC	0	0.0005	1	1	1	-0.0011		2025-03-08T08:34:21

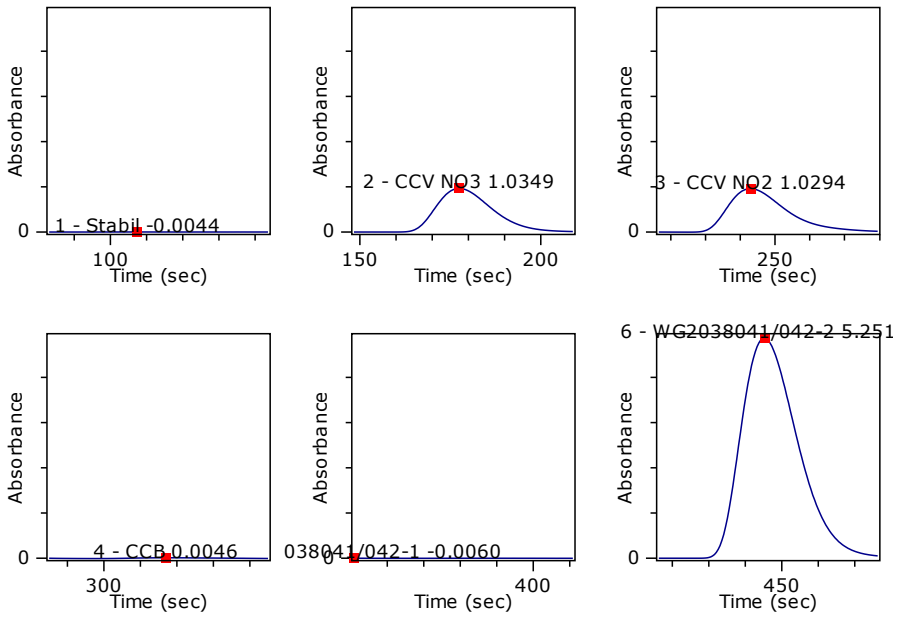
Channel: 2-NO2

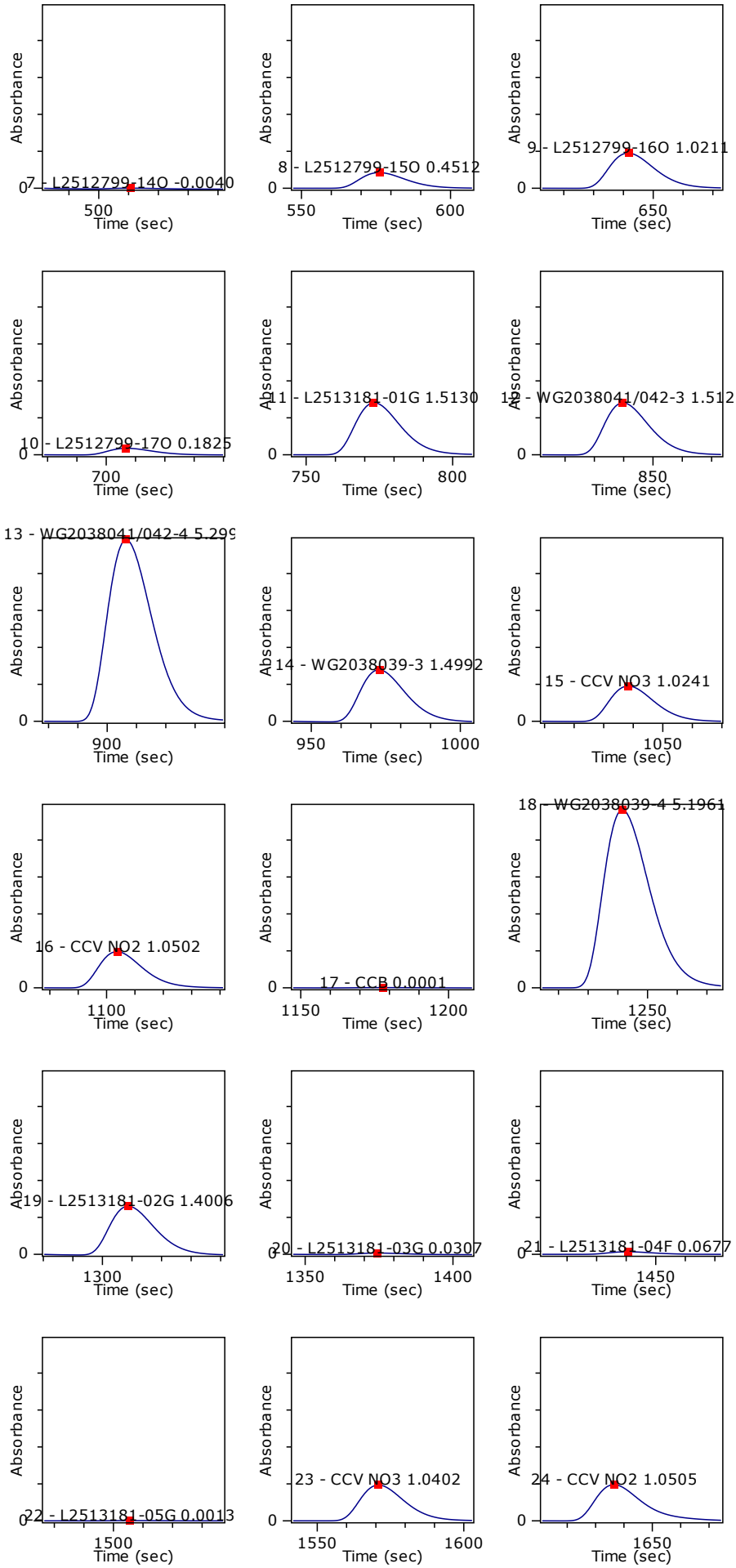
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
Stabil	1	Unknown	?	0.0001	1	1	1	-0.0011		2025-03-08T08:07:20
CCV NO3	2	QC	?	0.0001	1	1	1	-0.0015		2025-03-08T08:08:33
CCV NO2	3	QC	1	0.1287	1	1	1	0.9823		2025-03-08T08:09:38
CCB	4	QC	0	0.0010	1	1	1	0.0056		2025-03-08T08:10:52
WG2038041/042-1	5	Unknown	?	0.0001	1	1	1	-0.0010		2025-03-08T08:12:00
WG2038041/042-2	6	Unknown	?	0.0001	1	1	1	-0.0015		2025-03-08T08:13:01
L2512799-14O	7	Unknown	?	0.0010	1	1	1	0.0058		2025-03-08T08:14:05
L2512799-15O	8	Unknown	?	0.0016	1	1	1	0.0099		2025-03-08T08:15:11
L2512799-16O	9	Unknown	?	0.0010	1	1	1	0.0059		2025-03-08T08:16:16
L2512799-17O	10	Unknown	?	0.0017	1	1	1	0.0107		2025-03-

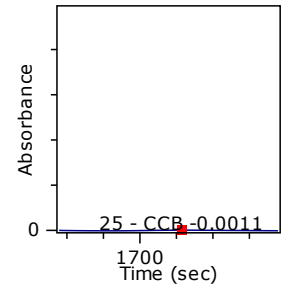
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
										08T08:17:22
L2513181-01G	11	Unknown	?	0.0015	1	1	1	0.0093		2025-03-08T08:18:30
WG2038041/042-3	12	Unknown	?	0.0007	1	1	1	0.0034		2025-03-08T08:19:36
WG2038041/042-4	13	Unknown	?	0.0007	1	1	1	0.0031		2025-03-08T08:20:42
WG2038039-3	14	Unknown	?	0.0007	1	1	1	0.0035		2025-03-08T08:21:49
CCV NO3	15	QC	?	0.0001	1	1	1	-0.0013		2025-03-08T08:22:57
CCV NO2	16	QC	1	0.1307	1	1	1	0.9977		2025-03-08T08:23:59
CCB	17	QC	0	0.0002	1	1	1	-0.0007		2025-03-08T08:25:11
WG2038039-4	18	Unknown	?	0.4485	1	1	1	3.4285		2025-03-08T08:26:17
L2513181-02G	19	Unknown	?	0.0014	1	1	1	0.0088		2025-03-08T08:27:24
L2513181-03G	20	Unknown	?	0.0009	1	1	1	0.0048		2025-03-08T08:28:30
L2513181-04F	21	Unknown	?	0.0060	1	1	1	0.0440		2025-03-08T08:29:36
L2513181-05G	22	Unknown	?	0.0006	1	1	1	0.0027		2025-03-08T08:30:41
CCV NO3	23	QC	?	0.0001	1	1	1	-0.0012		2025-03-08T08:31:44
CCV NO2	24	QC	1	0.1297	1	1	1	0.9901		2025-03-08T08:32:52
CCB	25	QC	0	0.0003	1	1	1	0.0006		2025-03-08T08:34:06

Peaks:

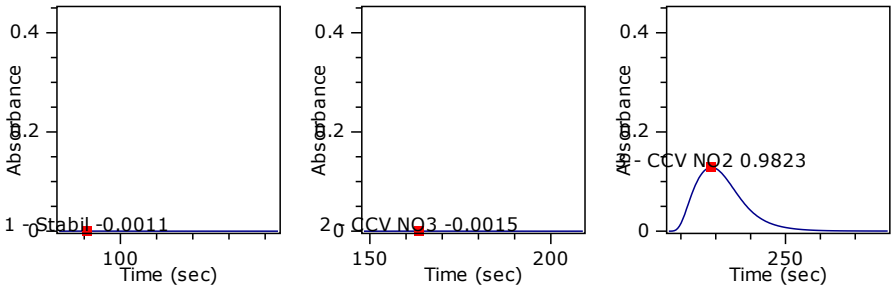
Channel: 1-NOx

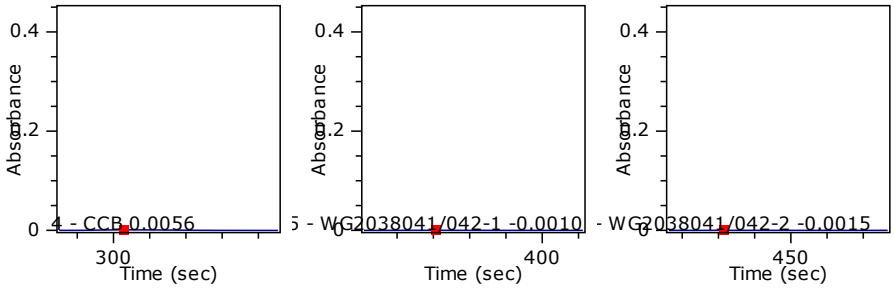


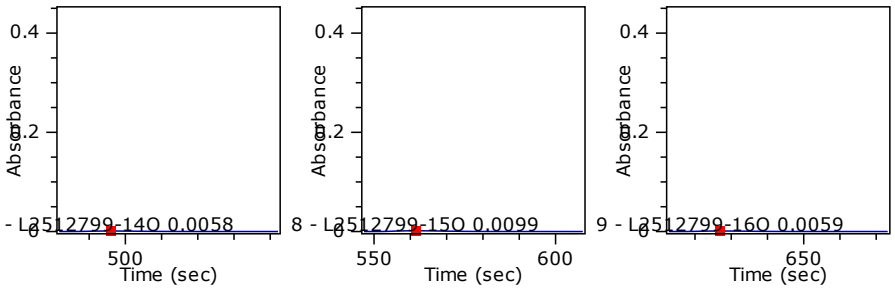

Absorbance
7 - L2512799-14O -0.0040
500
Time (sec)
Absorbance
8 - L2512799-15O 0.4512
550
600
Time (sec)
Absorbance
9 - L2512799-16O 1.0211
650
Time (sec)
Absorbance
10 - L2512799-17O 0.1825
700
Time (sec)
Absorbance
11 - L2513181-01G 1.5130
750
800
Time (sec)
Absorbance
12 - WG2038041/042-3 1.512
850
Time (sec)
Absorbance
13 - WG2038041/042-4 5.299
900
Time (sec)
Absorbance
14 - WG2038039-3 1.4992
950
1000
Time (sec)
Absorbance
15 - CCV NO3 1.0241
1050
Time (sec)
Absorbance
16 - CCV NO2 1.0502
1100
Time (sec)
Absorbance
17 - CCB 0.0001
1150
1200
Time (sec)
Absorbance
18 - WG2038039-4 5.1961
1250
Time (sec)
Absorbance
19 - L2513181-02G 1.4006
1300
Time (sec)
Absorbance
20 - L2513181-03G 0.0307
1350
1400
Time (sec)
Absorbance
21 - L2513181-04F 0.0677
1450
Time (sec)
Absorbance
22 - L2513181-05G 0.0013
1500
Time (sec)
Absorbance
23 - CCV NO3 1.0402
1550
1600
Time (sec)
Absorbance
24 - CCV NO2 1.0505
1650
Time (sec)

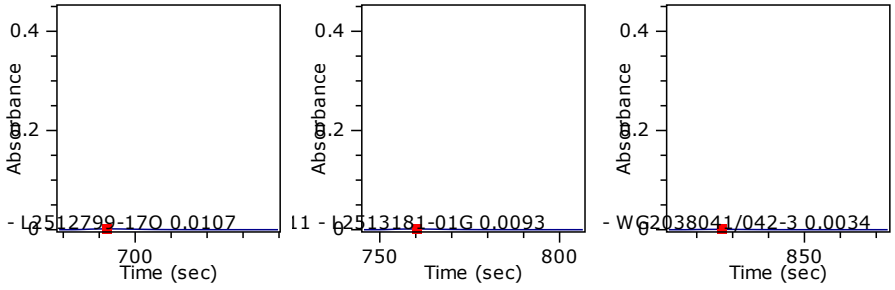


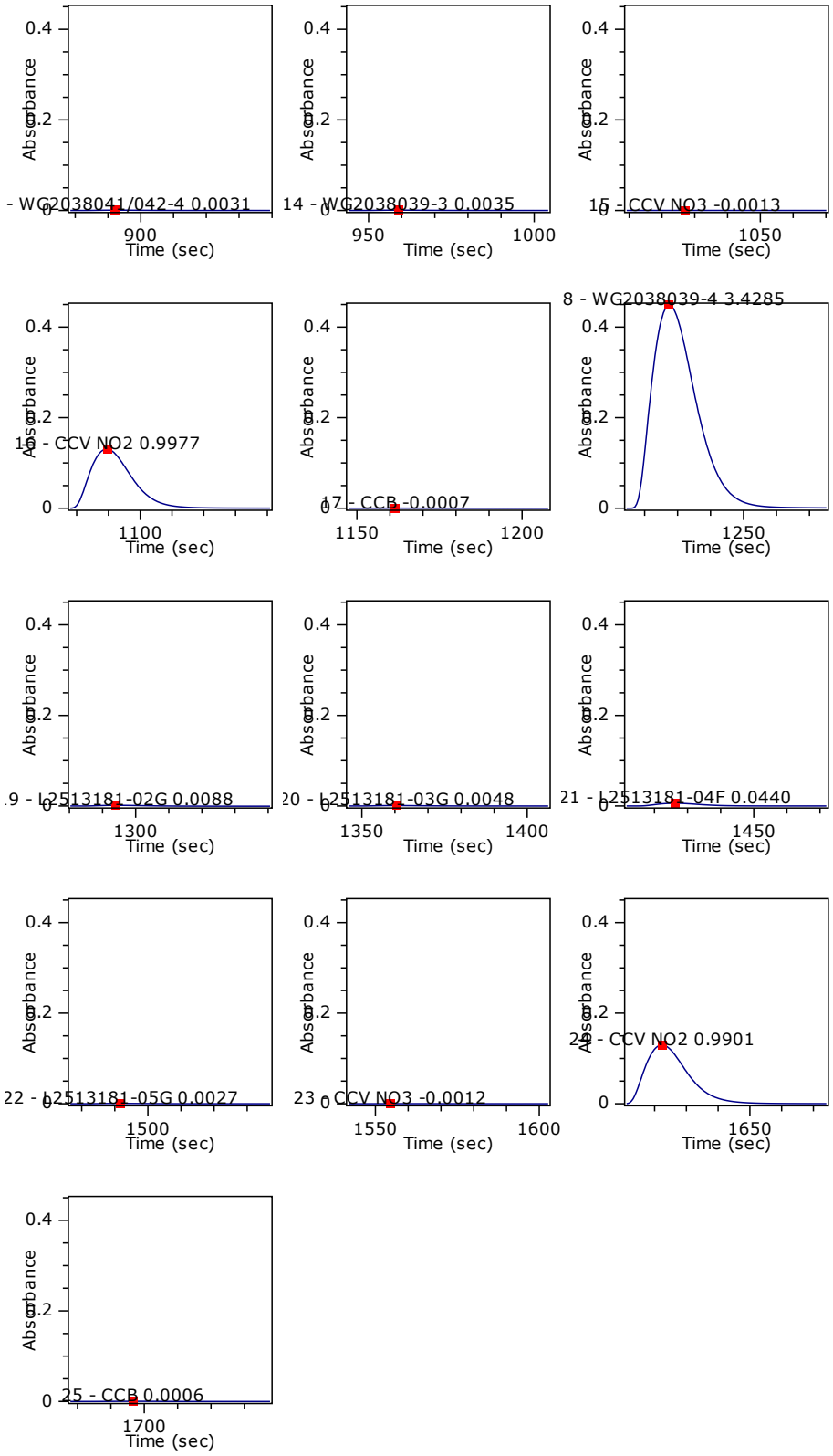
Channel: 2-NO2











Data Processing Parameters:

Channel: 1-NOx

Response parameter	Peak Height
Filter Type	None
Filter Window	3
Enable Peak Window	False
Peak Window Start	0
Peak Window Stop	0

Enable Baseline Correction	False
Enable 2 Point Correction	False
Baseline Start	0
Baseline Stop	0
Point 2 Baseline Start	0
Point 2 Baseline Stop	0
Background Correction	Single Wavelength
Ref Wavelength 1	600
Ref Wavelength 2	0

Channel: 2-NO2

Response parameter	Peak Height
Filter Type	None
Filter Window	3
Enable Peak Window	False
Peak Window Start	0
Peak Window Stop	0
Enable Baseline Correction	False
Enable 2 Point Correction	False
Baseline Start	0
Baseline Stop	0
Point 2 Baseline Start	0
Point 2 Baseline Stop	0
Background Correction	Single Wavelength
Ref Wavelength 1	600
Ref Wavelength 2	0

Method Log:

```
FIAsoft FIAsoft v3.1.10

FIAlyzer Settings
------------
FIAlab1 Serial Number: FIA31428
FIAlab2 Serial Number: FIA31429
Pump: Connected on COM8

Spectrometer Settings
Spectrometer1
------------
Spectrometer Type: tec5
Integration Time: 2.2
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Spectrometer2
------------
Spectrometer Type: tec5
Integration Time: 2
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Start Time
------------
2025-03-08T08:05:50

Method
------------
```

```
' Method Script for NOx-NO2

Autosave Data C:\FIAlab\Autosave Data\DateTime
FIAlab Injection Valve Sample Load
Message Cadmium Column on for NOx
FIAlab Peristaltic Pump Clockwise(%) 55

Autosampler Wash
Delay (sec) 2
Next Sample
Delay (sec) 35  'StartDelay2 - Controls initial sample introduction.

FIAlab1 Injection Valve Sample Inject
Autosampler Probe Up
Delay (sec) 2
Autosampler Position (#) Rinse
FIAlab2 Injection Valve Sample Inject
Delay (sec) 15   'StartDelay3 - Should be set equal to LoopDelay3

Autosampler Probe Up
Delay (sec) 5   'StartDelay4 - Should be set equal to LoopDelay4

Loop Start

   Analyte New Sample
   Delay (sec) 1
   Next Sample
   Autosampler Probe Force Down

   Spectrometer Reference Scan
   Spectrometer Absorbance Scanning

   Delay (sec) 3   ' LoopDelay1 - Controls sample transit & loop empty. Controls back baseline.

   FIAlab Injection Valve Sample Load

   Delay (sec) 35   ' LoopDelay2 - Controls sample transit & loop fill. Controls back baseline.

   FIAlab1 Injection Valve Sample Inject
   Autosampler Probe Up
   Delay (sec) 5
   Autosampler Position (#) Rinse
   FIAlab2 Injection Valve Sample Inject

   Delay (sec) 10   ' LoopDelay3 - Controls loop empty & probe rinse time. Inverse controls front baseline.

   Autosampler Probe Up

   Delay (sec) 3   ' LoopDelay4 - Controls loop empty. Inverse controls front baseline.

   Spectrometer Stop Scanning

Loop End

Autosampler Position (#) Rinse
Delay (sec) 20
Autosampler Probe Up
Delay (sec) 30
FIAlab Peristaltic Pump Clockwise(%) 5
Autoexport Report C:\FIAlab\autoreport\NOxNO2\DateTime
Message Run is Complete
```

Method File Location: C:\FIAlab\FIAlab User Files\Methods\Method_NOx+NO2.fia

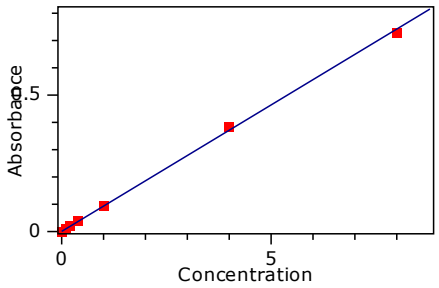
Graphical report generated by FIAsoft v3.1.10
Report generated on 2025-03-08 09:30:30
Data file (.dat): C:\FIAlab\Autosave Data\2025-03-08-093001.dat

Dataset Notes:

Analyst	

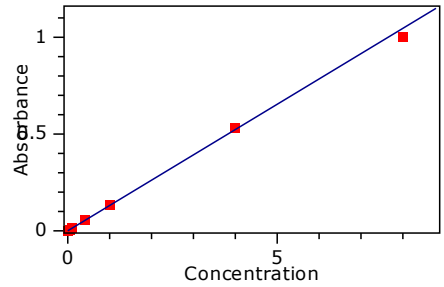
Dataset Notes Table Location: C:\FIAlab\FIAlab User Files\Tables\Dataset Notes\Analyst.csv

Calibrations:



Channel: 1-NOx
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: 0.00055
B: 0.09267
R^2: 0.99937
RSE(%): 2.26557
% Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
10001	NOx 8.0ppm	0.72700	8.00000	7.83910	2.01	N/A
10002	NOx 4.0ppm	0.38320	4.00000	4.12940	3.23	N/A
10003	NOx 1.0ppm	0.09330	1.00000	1.00030	0.03	N/A
10004	NOx 0.4ppm	0.03770	0.40000	0.40090	0.22	N/A
10005	NOx 0.2ppm	0.01870	0.20000	0.19560	2.18	N/A
10006	NOx 0.1ppm	0.00990	0.10000	0.10110	1.11	N/A
10007	NOx 0.0ppm	0.00000	0.00000	-0.00560	NA	N/A



Channel: 2-NO2
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: 0.00027
B: 0.13074
R^2: 0.99930
RSE(%): 2.87097
% Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
10001	Nitrite 8.0ppm	1.00120	8.00000	7.65580	4.30	N/A
10002	Nitrite 4.0ppm	0.52920	4.00000	4.04600	1.15	N/A
10003	Nitrite 1.0ppm	0.13250	1.00000	1.01140	1.14	N/A
10004	Nitrite 0.4ppm	0.05430	0.40000	0.41360	3.40	N/A
10005	Nitrite 0.1ppm	0.01330	0.10000	0.09950	0.51	N/A
10006	Nitrite 0.05ppm	0.00680	0.05000	0.04990	0.20	N/A
10007	Nitrite 0.0ppm	0.00020	0.00000	-0.00030	NA	N/A

Results:

Channel: 1-NOx

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
Stabil	1	Unknown	?	0.0001	1	1	1	-0.0044		2025-03-08T09:03:01
CCV NO3	2	QC	1	0.0956	1	1	1	1.0252		2025-03-08T09:04:13
CCV NO2	3	QC	?	0.0974	1	1	1	1.0451		2025-03-08T09:05:18
CCB	4	QC	0	0.0010	1	1	1	0.0048		2025-03-08T09:06:32

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2513185-01F	5	Unknown	?	0.0624	1	1	1	0.6675		2025-03-08T09:07:35
L2513185-02F	6	Unknown	?	0.0846	1	1	1	0.9074		2025-03-08T09:08:41
L2513185-03F	7	Unknown	?	0.0009	1	1	1	0.0034		2025-03-08T09:09:46
L2513185-04F	8	Unknown	?	1.0795	1	1	1	11.6430	OVR	2025-03-08T09:10:52
L2513185-05F	9	Unknown	?	-0.0003	1	1	1	-0.0089		2025-03-08T09:11:29
L2513185-06F	10	Unknown	?	0.0007	1	1	1	0.0014		2025-03-08T09:13:04
L2513185-05F	11	Unknown	?	0.0009	1	1	1	0.0034		2025-03-08T09:14:11
CCV NO3	12	QC	1	0.0968	1	1	1	1.0381		2025-03-08T09:15:14
CCV NO2	13	QC	?	0.0964	1	1	1	1.0340		2025-03-08T09:16:20
CCB	14	QC	0	0.0003	1	1	1	-0.0023		2025-03-08T09:17:33
spacer	15	Unknown	?	0.0000	1	1	1	-0.0059		2025-03-08T09:21:35
spacer	16	Unknown	?	0.0004	1	1	1	-0.0012		2025-03-08T09:23:02
L2513185-04F	17	Unknown	?	0.2506	1	5	1	13.4928		2025-03-08T09:24:05
CCV NO3	18	QC	1	0.0961	1	1	1	1.0313		2025-03-08T09:25:11
CCV NO2	19	QC	?	0.0974	1	1	1	1.0451		2025-03-08T09:26:16
CCB	20	QC	0	0.0002	1	1	1	-0.0037		2025-03-08T09:27:31

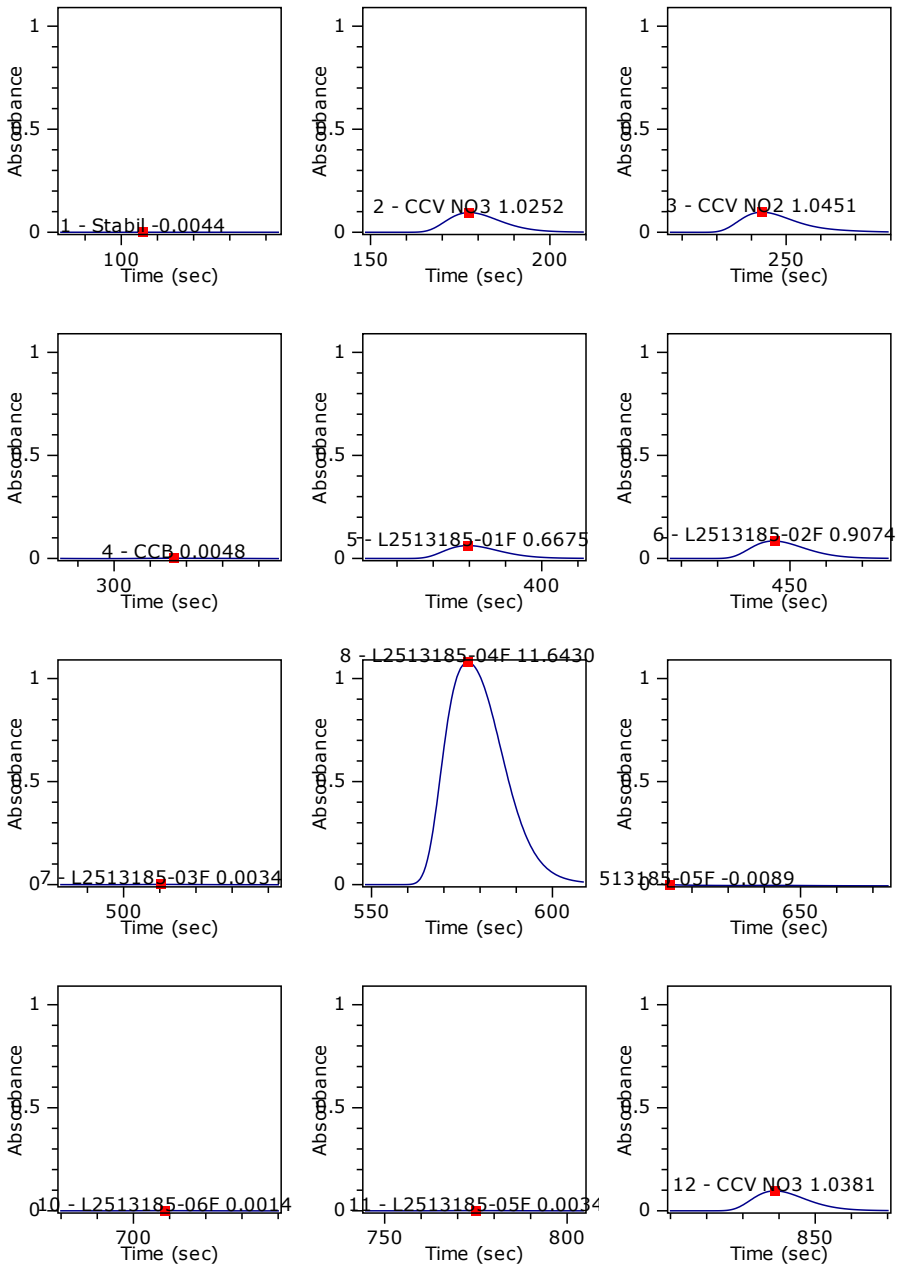
Channel: 2-NO2

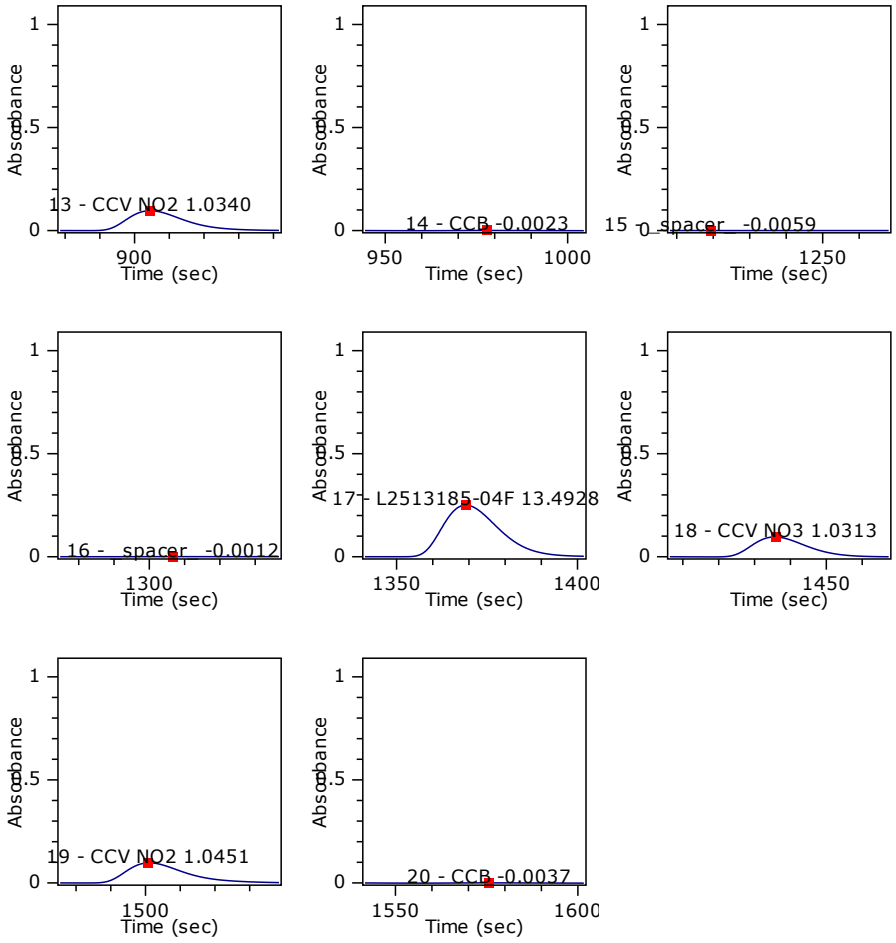
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
Stabil	1	Unknown	?	0.0002	1	1	1	-0.0009		2025-03-08T09:02:50
CCV NO3	2	QC	?	0.0001	1	1	1	-0.0011		2025-03-08T09:04:00
CCV NO2	3	QC	1	0.1304	1	1	1	0.9953		2025-03-08T09:05:05
CCB	4	QC	0	0.0010	1	1	1	0.0052		2025-03-08T09:06:19
L2513185-01F	5	Unknown	?	0.0013	1	1	1	0.0076		2025-03-08T09:07:20
L2513185-02F	6	Unknown	?	0.0011	1	1	1	0.0065		2025-03-08T09:08:26
L2513185-03F	7	Unknown	?	0.0008	1	1	1	0.0039		2025-03-08T09:09:32
L2513185-04F	8	Unknown	?	0.0127	1	1	1	0.0952		2025-03-08T09:10:38
L2513185-05F	9	Unknown	?	0.0008	1	1	1	0.0039		2025-03-08T09:11:44
L2513185-06F	10	Unknown	?	0.0008	1	1	1	0.0037		2025-03-08T09:12:48
L2513185-05F	11	Unknown	?	0.0007	1	1	1	0.0032		2025-03-08T09:13:55
CCV NO3	12	QC	?	0.0001	1	1	1	-0.0011		2025-03-08T09:14:58
CCV NO2	13	QC	1	0.1310	1	1	1	0.9997		2025-03-08T09:16:06
CCB	14	QC	0	0.0002	1	1	1	-0.0005		2025-03-08T09:17:19
spacer	15	Unknown	?	0.0000	1	1	1	-0.0020		2025-03-

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
										08T09:21:37
spacer	16	Unknown	?	0.0004	1	1	1	0.0013		2025-03-08T09:22:43
L2513185-04F	17	Unknown	?	0.0026	1	5	1	0.0894		2025-03-08T09:23:52
CCV NO3	18	QC	?	0.0001	1	1	1	-0.0010		2025-03-08T09:24:58
CCV NO2	19	QC	1	0.1300	1	1	1	0.9924		2025-03-08T09:26:03
CCB	20	QC	0	0.0004	1	1	1	0.0012		2025-03-08T09:27:17

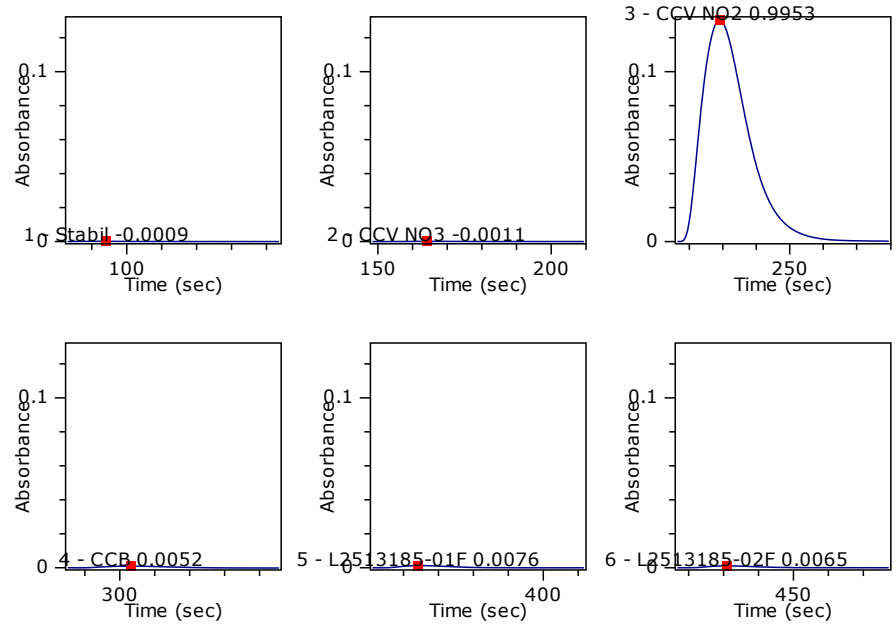
Peaks:

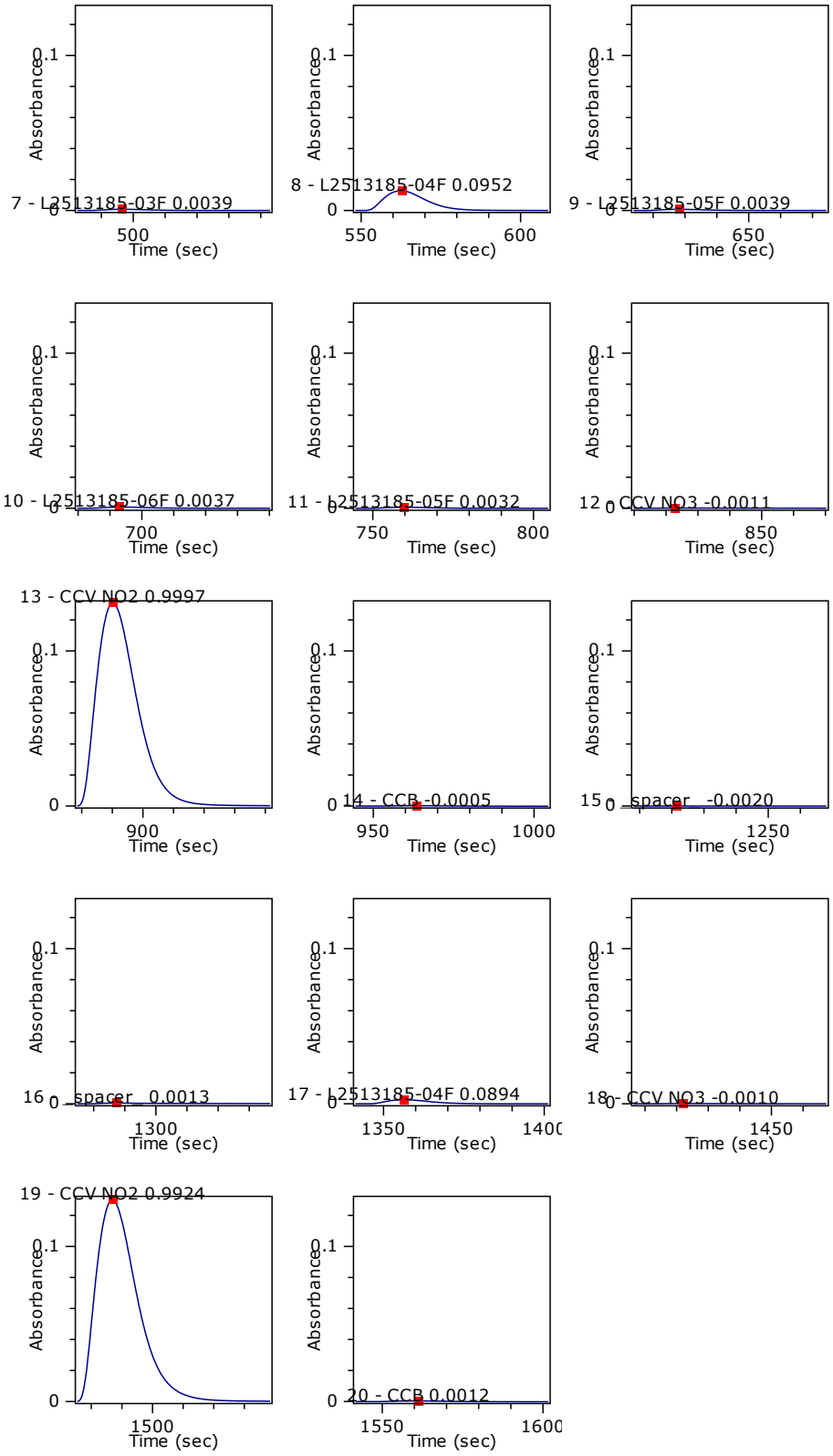
Channel: 1-NOx





Channel: 2-NO2





Data Processing Parameters:

Channel: 1-NOx

Response parameter	Peak Height
Filter Type	None
Filter Window	3
Enable Peak Window	False
Peak Window Start	0
Peak Window Stop	0

Enable Baseline Correction	False
Enable 2 Point Correction	False
Baseline Start	0
Baseline Stop	0
Point 2 Baseline Start	0
Point 2 Baseline Stop	0
Background Correction	Single Wavelength
Ref Wavelength 1	600
Ref Wavelength 2	0

Channel: 2-NO2

Response parameter	Peak Height
Filter Type	None
Filter Window	3
Enable Peak Window	False
Peak Window Start	0
Peak Window Stop	0
Enable Baseline Correction	False
Enable 2 Point Correction	False
Baseline Start	0
Baseline Stop	0
Point 2 Baseline Start	0
Point 2 Baseline Stop	0
Background Correction	Single Wavelength
Ref Wavelength 1	600
Ref Wavelength 2	0

Method Log:

```
FIAsoft FIAsoft v3.1.10

FIAlyzer Settings
------------
FIAlab1 Serial Number: FIA31428
FIAlab2 Serial Number: FIA31429
Pump: Connected on COM8

Spectrometer Settings
Spectrometer1
------------
Spectrometer Type: tec5
Integration Time: 2.2
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Spectrometer2
------------
Spectrometer Type: tec5
Integration Time: 2
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Start Time
------------
2025-03-08T09:01:16

Method
------------
```

```
' Method Script for NOx-NO2

Autosave Data C:\FIAlab\Autosave Data\DateTime
FIAlab Injection Valve Sample Load
Message Cadmium Column on for NOx
FIAlab Peristaltic Pump Clockwise(%) 55

Autosampler Wash
Delay (sec) 2
Next Sample
Delay (sec) 35  'StartDelay2 - Controls initial sample introduction.

FIAlab1 Injection Valve Sample Inject
Autosampler Probe Up
Delay (sec) 2
Autosampler Position (#) Rinse
FIAlab2 Injection Valve Sample Inject
Delay (sec) 15   'StartDelay3 - Should be set equal to LoopDelay3

Autosampler Probe Up
Delay (sec) 5   'StartDelay4 - Should be set equal to LoopDelay4

Loop Start

   Analyte New Sample
   Delay (sec) 1
   Next Sample
   Autosampler Probe Force Down

   Spectrometer Reference Scan
   Spectrometer Absorbance Scanning

   Delay (sec) 3   ' LoopDelay1 - Controls sample transit & loop empty. Controls back baseline.

   FIAlab Injection Valve Sample Load

   Delay (sec) 35   ' LoopDelay2 - Controls sample transit & loop fill. Controls back baseline.

   FIAlab1 Injection Valve Sample Inject
   Autosampler Probe Up
   Delay (sec) 5
   Autosampler Position (#) Rinse
   FIAlab2 Injection Valve Sample Inject

   Delay (sec) 10   ' LoopDelay3 - Controls loop empty & probe rinse time. Inverse controls front baseline.

   Autosampler Probe Up

   Delay (sec) 3   ' LoopDelay4 - Controls loop empty. Inverse controls front baseline.

   Spectrometer Stop Scanning

Loop End

Autosampler Position (#) Rinse
Delay (sec) 20
Autosampler Probe Up
Delay (sec) 30
FIAlab Peristaltic Pump Clockwise(%) 5
Autoexport Report C:\FIAlab\autoreport\NOxNO2\DateTime
Message Run is Complete
```

Method File Location: C:\FIAlab\FIAlab User Files\Methods\Method_NOx+NO2.fia

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-4S	**Matrix**	: WATER
Lab Sample ID	: L2512607-01		
Matrix Spike	: WG2037984-4	**MS Analysis Date**	: 03/08/25 02:48
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
	Sample Conc.	Spike Added	Spike Conc.	%R	Spike Added	Spike Conc.	%R	RPD	Recovery Limits	RPD Limit
Parameter	(mg/l)	(mg/l)	(mg/l)		(mg/l)	(mg/l)				
Nitrogen, Nitrite	ND	4	3.80	95					80-120	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-4S	**Matrix**	: WATER
Lab Sample ID	: L2512607-01		
Matrix Spike	: WG2037986-4	**MS Analysis Date**	: 03/08/25 05:27
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
	Sample Conc.	Spike Added	Spike Conc.	%R	Spike Added	Spike Conc.	%R	RPD	Recovery Limits	RPD Limit
Parameter	(mg/l)	(mg/l)	(mg/l)		(mg/l)	(mg/l)				
Nitrogen, Nitrate	9.41	4	13.2	112					83-113	17

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-4S	**Matrix**	: WATER
Lab Sample ID	: L2512607-01		
Matrix Spike	: WG2037987-4	**MS Analysis Date**	: 03/08/25 05:27
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
	Sample Conc.	Spike Added	Spike Conc.	%R	Spike Added	Spike Conc.	%R	RPD	Recovery Limits	RPD Limit
Parameter	(mg/l)	(mg/l)	(mg/l)		(mg/l)	(mg/l)				
Nitrogen, Nitrate/Nitrite	9.4	4	13.	108					80-120	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-4S	**Matrix**	: WATER
Lab Sample ID	: L2512607-01	**Analysis Date**	: 03/08/25 02:43
Dup Sample ID	: WG2037984-3	**DUP Analysis Date**	: 03/08/25 02:47

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Nitrite	ND	ND	NC	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-4S	**Matrix**	: WATER
Lab Sample ID	: L2512607-01	**Analysis Date**	: 03/08/25 05:25
Dup Sample ID	: WG2037986-3	**DUP Analysis Date**	: 03/08/25 05:26

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Nitrate	9.41	9.27	1	17

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-4S	**Matrix**	: WATER
Lab Sample ID	: L2512607-01	**Analysis Date**	: 03/08/25 05:25
Dup Sample ID	: WG2037987-3	**DUP Analysis Date**	: 03/08/25 05:26

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Nitrate/Nitrite	9.4	9.3	1	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2037984-2	**LCS Analysis Date**	: 03/08/25 02:28
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Nitrogen, Nitrite	**5.00**	**5.06**	**101.**					**90-110**	**20**

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2037986-2	**LCS Analysis Date**	: 03/08/25 02:32
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/l)	(mg/l)		(mg/l)	(mg/l)			Limits	Limit
Nitrogen, Nitrate	5.00	5.13	103.					90-110	17

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2037987-2	**LCS Analysis Date**	: 03/08/25 02:32
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Nitrogen, Nitrate/Nitrite	**5.00**	**5.10**	**102.**					**90-110**	**20**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Nitrate	14797-55-8	0.1	0.0228	mg/l	90-110		83-113	6	6	353.2	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrate	14797-55-8	0.1	0.0228	mg/l	90-110		83-113	17	17	4500NO3-F	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrite	NONE	0.05	0.0143	mg/l	90-110	20	80-120	20	20	353.2	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrite	NONE	0.05	0.0143	mg/l	90-110	20	80-120	20	20	4500NO3-F	48 hours	1 - Plastic 250ml unpreserved

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

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Nitrate	14797-55-8	1	0.261	mg/kg	90-110	20	80-120	20	20	4500NO3-F	48 hours	1 - Glass 250ml/8oz unpreserved
Nitrogen, Nitrite	NONE	1	0.282	mg/kg	90-110	20	80-120	20	20	4500NO3-F	48 hours	1 - Glass 250ml/8oz unpreserved

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

Calculations of Nitrogen, Nitrate

Aqueous Samples:
Compute sample N in NO3 concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

Calculate results by using reading on Channel 1 (NO3+NO2) and Channel 2 (NO2)

$$NO3\ mg/I = (NO3+NO2)\ mg/L - (NO2)\ mg/L$$

To compute final results for aqueous samples, multiply the direct reading by the dilution factor (also done using software)

$$(NO3)\text{-}N\ mg/L = mg/L\ direct\ reading \times dilution\ factor$$

Calculations of Nitrogen, Nitrite

Aqueous Samples:
Compute sample N in NO2 concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

Calculate results by using reading on Channel 2 (NO2)

To compute final results for aqueous samples, multiply the direct reading by the dilution factor (also done using software)

$$(NO2)\text{-}N\ mg/L = mg/L\ direct\ reading \times dilution\ factor$$

Sequence Logs

Date:	Initals:	Syringe Lot:	Syringe Lot: 20230620
030825	KAF	Filter Lot:	Filter Lot: 18048470A

Injection #	Rack #	Sample ID:	Comments:
19	RA1	ICV NO3 5	*Buffer: NO3NO2_022625_BUFFER*
20	RA2	ICV NO2 5	*Color: NO3NO2_021925_COLOR*
21	RA3	ICV NO3 0.5	*NO3 MS: NO3_021425_200PPM_CAL*
22	RA4	ICV NO2 0.5	*NO2 MS: NO2_021425_200PPM_CAL*
23	RA5	ICB	*ICV NO3 5: NO3_030625_5PPM_ICV*
24	RA6	5X DILUTER CHECK	*ICV NO2 5: NO2_030625_5PPM_ICV*
25	RA7	BLANK NO3	*ICV NO3 0.5: NO3_030825_0.5PPM_ICV*
26	RA8	LCS NO3	*ICV NO2 0.5: NO2_030825_0.5PPM_ICV*
27	RA9	BLANK NO2	
28	RA10	LCS NO2	
32	RA11	WG2037983-1; NO2/8039	
33	RA12	WG2037983-2; NO2/8039	
34	RA13	WG2037984-1; NO2	
35	RA14	WG2037984-2; NO2	
36	RA15	WG2037985/991-1; NO3/8011	
37	RA16	WG2037985/991-2; NO3/8011	
38	RA17	WG2037986/987-1; NO3	
39	RA18	WG2037986/987-2; NO3	*OOH*
40	RA19	WG2037988-1; NO3	*DW*
41	RA20	WG2037988-2; NO3	GOING OOH
45	RA21	WG2037989-1; NO3	FIELD BLANK
46	RA22	WG2037989-2; NO3	
47	RA23	WG2037992-1; CNO3	
48	RA24	WG2037992-2; CNO3	
49; 160	RA25	L2512607-01	
50; 161	RA26	WG2037986/987-3; NO3	
51; 162	RA27	WG2037986/987-4; NO3	
52	RA28	WG2037984-3; NO2	
53	RA29	WG2037984-4; NO2	
54; 132; 136	RA30	L2512607-02	
58	RA31	L2512607-03	
59	RA32	L2512607-04	
60	RA33	L2512607-05	
61	RA34	L2512607-06	
62	RA35	L2512648-01	
63; 163	RA36	L2512648-02	
64; 137	RA37	L2512648-03	
65	RA38	L2512648-04	
66	RA39	L2512648-05	
67	RA40	L2512648-06	
71	RA41	L2512648-07	
72	RA42	L2512648-08	
73	RA43	L2512537-10	

Injection #	Rack #	Sample ID:	Comments:
74	RA44	WG2037988-3; NO3	
75	RA45	WG2037988-4; NO3	
76; 164	RA46	L2512537-11	
77; 138	RA47	L2512537-12	
78	RA48	L2512537-13	
79	RA49	L2512537-14	
80	RA50	L2512537-15	
84	RA51	L2512537-16	
85	RA52	L2512903-01	
86	RA53	L2512903-02	
87	RA54	L2512903-03	
88	RA55	L2512903-05	
89	RA56	L2512903-07	
90	RA57	L2512903-08	
91	RA58	L2512903-09	
92	RA59	L2513007-02	
93; 165	RA60	L2513065-01	
97	RA61	L2513065-02	
98	RA62	L2513065-03	
99	RA63	L2513065-04	
100	RA64	L2512837-01	
101	RA65	WG2037985-3; NO3	
102	RA66	WG2037985-4; NO3	
103	RA67	WG2037983-3; NO2	
104	RA68	WG2037983-4; NO2	
105	RA69	L2512943-01	
106	RA70	L2513060-01	
110	RA71	L2512799-03	
111; 166	RA72	L2512799-04	
112; 139	RA73	L2512799-05	
113	RA74	L2512799-06	
114	RA75	L2512799-07	
115	RA76	WG2037989-3; NO3	
116	RA77	WG2037989-4; NO3	
117; 167	RA78	L2512799-08	
118; 140	RA79	L2512799-09	
119; 171	RA80	L2512799-10	
123	RA81	L2512799-11	
124	RA82	L2511995-02	
125	RA83	L2511995-04	
126	RA84	L2511995-07	
127	RA85	L2512124-01	
128	RA86	L2512198-01	
129; 172	RA87	L2512686-02	
130; 173	RA88	WG2037991-3; CNO3	
131; 174	RA89	WG2037991-4; CNO3	

Injection #	Rack #	Sample ID:	Comments:
141	RA90	L2513012-01	
142	RB1	WG2037992-3; CNO3	
143	RB2	WG2037992-4; CNO3	
144	RB3	L2513012-02	
145; 175	RB4	L2513012-03	
149	RB5	L2513012-04	
150	RB6	L2513012-05	
151	RB7	L2513016-01	
152	RB8	L2513016-02	
153	RB9	L2513016-03	
154	RB10	L2513024-01	
5; 29	RB11	L2513061-24A	
6; 30	RB12	WG2038011-3; NO3	
7; 31	RB13	WG2038011-4; NO3	
8; 22	RB14	L2513076-01A	
9	RB15	L2512947-01A	
10	RB16	L2512963-01M	
11; 32	RB17	L2512942-02A	
12; 23	RB18	L2513027-01H	
13	RB19	L2513183-01	
14	RB20	L2513183-02	
18	RB21	L2513183-03	
19	RB22	L2513183-04	
20	RB23	L2513183-05	
21	RB24	L2513183-06	
5	RB25	WG2038041/042-1; NO3	
6	RB26	WG2038041/042-2; NO3	
7	RB27	L2512799-14O	
8	RB28	L2512799-15O	
9	RB29	L2512799-16O	
10	RB30	L2512799-17O	
11	RB31	L2513181-01G	
12	RB32	WG2038041/042-3; NO3	
13	RB33	WG2038041/042-4; NO3	
14	RB34	WG2038039-3; NO2	
18	RB35	WG2038039-4; NO2	
19	RB36	L2513181-02G	
20	RB37	L2513181-03G	
21	RB38	L2513181-04F	
22	RB39	L2513181-05G	

Injection #	Rack #	Sample ID:	Comments:
5	RB40	L2513185-01F	
6	RB41	L2513185-02F	
7	RB42	L2513185-03F	
8; 17	RB43	L2513185-04F	
9; 11	RB44	L2513185-05F	
10	RB45	L2513185-06F	

Total Dissolved Solids Analysis

Results

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-01	**Date Collected**	:	03/06/25 10:30
Client ID	:	MW-4S	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/11/25 21:21
Sample Matrix	:	WATER	**Dilution Factor**	:	1.3
Analytical Method	:	121,2540C	**Analyst**	:	REM
Lab File ID	:	WG2039309.pdf	**Instrument ID**	:	BALANCE#22
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	240	13	4.0	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-02	**Date Collected**	:	03/06/25 10:24
Client ID	:	MW-4D2	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/11/25 21:21
Sample Matrix	:	WATER	**Dilution Factor**	:	1.3
Analytical Method	:	121,2540C	**Analyst**	:	REM
Lab File ID	:	WG2039309.pdf	**Instrument ID**	:	BALANCE#22
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	94.	13	4.0	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-03	**Date Collected**	:	03/06/25 09:13
Client ID	:	MW-12S	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/11/25 21:21
Sample Matrix	:	WATER	**Dilution Factor**	:	1.3
Analytical Method	:	121,2540C	**Analyst**	:	REM
Lab File ID	:	WG2039309.pdf	**Instrument ID**	:	BALANCE#22
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

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

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-04	**Date Collected**	:	03/06/25 08:46
Client ID	:	MW-12D	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/11/25 21:21
Sample Matrix	:	WATER	**Dilution Factor**	:	1.3
Analytical Method	:	121,2540C	**Analyst**	:	REM
Lab File ID	:	WG2039309.pdf	**Instrument ID**	:	BALANCE#22
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	130	13	4.0	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-05	**Date Collected**	:	03/06/25 11:51
Client ID	:	SCDOH_DR	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/11/25 21:21
Sample Matrix	:	WATER	**Dilution Factor**	:	1.3
Analytical Method	:	121,2540C	**Analyst**	:	REM
Lab File ID	:	WG2039309.pdf	**Instrument ID**	:	BALANCE#22
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	150	13	4.0	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2512607
Project Name	:	CORAM MATERIALS	Project Number	:	2232.0006Y005
Lab ID	:	L2512607-06	Date Collected	:	03/06/25 12:00
Client ID	:	EQUIPMENT BLANK	Date Received	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	:	03/11/25 21:21
Sample Matrix	:	Equipment Blank	Dilution Factor	:	1
Analytical Method	:	121,2540C	Analyst	:	REM
Lab File ID	:	WG2039309.pdf	Instrument ID	:	BALANCE#22
Sample Amount	:		%Solids	:	N/A
Digestion Method	:		Date Digested	:	

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
NONE	Solids, Total Dissolved	ND	10	3.1	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2039309-1	**Date Collected**	: NA
Client ID	: WG2039309-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/11/25 21:21
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2540C	**Analyst**	: REM
Lab File ID	: WG2039309.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	4.0	10	3.1	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2039309-3	**Date Collected**	: 03/05/25 11:25
Client ID	: WG2039309-3 DUP	**Date Received**	: 03/05/25
Sample Location	:	**Date Analyzed**	: 03/11/25 21:21
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: REM
Lab File ID	: WG2039309.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

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

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2039309-4	**Date Collected**	: 03/05/25 13:08
Client ID	: WG2039309-4 DUP	**Date Received**	: 03/05/25
Sample Location	:	**Date Analyzed**	: 03/11/25 21:21
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: REM
Lab File ID	: WG2039309.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	560	13	4.0	

Sample Raw Data

Wet Chemistry Gravimetric ELN

Printed: MAR-13-25 08:05:02

WorkGroup	WG2039309	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**		**Temp In (C)**		**Temp In (C)**					
Title	Solids, Total Dissolved	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**		**Temp Out (C)**		**Temp Out (C)**					
Method	SM2540C	**Time In**	12-MAR-25 16:05	**Time In**	12-MAR-25 22:12	**Time In**		**Time In**		**Time In**					
Instrument	BALANCE#22	**Time Out**	12-MAR-25 20:45	**Time Out**	13-MAR-25 06:55	**Time Out**		**Time Out**		**Time Out**					
		Evaporation	**Temp In (C)** 90	**Time In** 11-MAR-25 22:48								**LCS Lot #** 012925D		**TrueValue** 500	**Units** mg/l

Sample #	Analysis Date	Analyst	Cup ID	Filter Lot	Tare Weight (gm)	Sample Volume (ml)	Net Weight (1) (gm)	Net Weight (2) (gm)	Net Weight (3) (gm)	Net Weight (4) (gm)	Net Weight (5) (gm)	Result mg/L	Dil	Comment
L2512358-02	11-MAR-25 21:21	RENATA MUKHAMETZHANOVA	R1	78981823	70.5408	80	70.5806	70.5809				497.50	1.3	
L2512358-03	11-MAR-25 21:21	RENATA MUKHAMETZHANOVA	X1	78981823	70.0652	80	70.1108	70.111				570.00	1.3	
L2512358-04	11-MAR-25 21:21	RENATA MUKHAMETZHANOVA	V7	78981823	70.6458	80	70.6881	70.6878				525.00	1.3	
L2512358-05	11-MAR-25 21:21	RENATA MUKHAMETZHANOVA	V6	78981823	70.9043	80	70.9546	70.9545				627.50	1.3	
L2512358-06	11-MAR-25 21:21	RENATA MUKHAMETZHANOVA	R2	78981823	62.0892	80	62.1387	62.1385				616.25	1.3	
L2512358-07	11-MAR-25 21:21	RENATA MUKHAMETZHANOVA	X9	78981823	60.9421	80	60.9876	60.9872				563.75	1.3	
L2512435-01	11-MAR-25 21:21	RENATA MUKHAMETZHANOVA	V8	78981823	62.4562	80	62.6828	62.6825				2828.75	1.3	
L2512439-01	11-MAR-25 21:21	RENATA MUKHAMETZHANOVA	V9	78981823	65.0243	80	65.151	65.1508				1581.25	1.3	
L2512508-01	11-MAR-25 21:21	RENATA MUKHAMETZHANOVA	RG	78981823	137.1312	80	137.1595	137.1591				348.75	1.3	T2
L2512607-01	11-MAR-25 21:21	RENATA MUKHAMETZHANOVA	P8	78981823	70.5641	80	70.5837	70.5833				240.00	1.3	
L2512607-02	11-MAR-25 21:21	RENATA MUKHAMETZHANOVA	A5	78981823	64.04	80	64.0475	64.0478				93.75	1.3	
L2512607-03	11-MAR-25 21:21	RENATA MUKHAMETZHANOVA	PS	78981823	135.4262	80	135.4462	135.4464				250.00	1.3	

Wet Chemistry Gravimetric ELN

Printed: MAR-13-25 08:05:02

WorkGroup	WG2039309	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**		**Temp In (C)**		**Temp In (C)**			
Title	Solids, Total Dissolved	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**		**Temp Out (C)**		**Temp Out (C)**			
Method	SM2540C	**Time In**	12-MAR-25 16:05	**Time In**	12-MAR-25 22:12	**Time In**		**Time In**		**Time In**			
Instrument	BALANCE#22	**Time Out**	12-MAR-25 20:45	**Time Out**	13-MAR-25 06:55	**Time Out**		**Time Out**		**Time Out**			
		Temp In (C)	**Time In**							**LCS Lot #**	**TrueValue**	**Units**	
		90	11-MAR-25 22:48							012925D	500	mg/l	

Sample #	Analysis Date	Analyst	Cup ID			Sample Volume (ml)			Result mg/L	Dil	Comment
L2512607-04	11-MAR-25 21:21	RENATA MUKHAMETZHANOVA	EY	78981823	65.0577	80	65.0683	65.0684	132.50	1.3	
L2512607-05	11-MAR-25 21:21	RENATA MUKHAMETZHANOVA	XO	78981823	64.4565	80	64.4685	64.4688	150.00	1.3	
L2512607-06	11-MAR-25 21:21	RENATA MUKHAMETZHANOVA	MB	78981823	142.3676	100	142.3681	142.3679	3.00		
L2512623-01	11-MAR-25 21:21	RENATA MUKHAMETZHANOVA	W4	78981823	72.58	80	72.6137	72.6135	418.75	1.3	
L2512623-02	11-MAR-25 21:21	RENATA MUKHAMETZHANOVA	CF	78981823	62.2019	80	62.2439	62.2439	525.00	1.3	
L2512625-01	11-MAR-25 21:21	RENATA MUKHAMETZHANOVA	F4	78981823	66.2693	80	66.3552	66.3548	1068.75	1.3	
L2512642-04	11-MAR-25 21:21	RENATA MUKHAMETZHANOVA	E1	78981823	59.5488	80	59.5769	59.5765	346.25	1.3	
L2512642-05	11-MAR-25 21:21	RENATA MUKHAMETZHANOVA	DW	78981823	143.9807	80	143.9938	143.9935	160.00	1.3	
WG2039309-1	11-MAR-25 21:21	RENATA MUKHAMETZHANOVA	A1	78981823	69.74	100	69.7404	69.7406	4.00	1	
WG2039309-2	11-MAR-25 21:21	RENATA MUKHAMETZHANOVA	X8	78981823	65.1855	50	65.2078	65.208	446.00	2	
WG2039309-3	11-MAR-25 21:21	RENATA MUKHAMETZHANOVA	C3	78981823	64.5673	80	64.6086	64.6083	512.50	1.3	
WG2039309-4	11-MAR-25 21:21	RENATA MUKHAMETZHANOVA	H8	78981823	64.2302	80	64.2754	64.275	560.00	1.3	

Quality Control

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 03/11/25 21:21
Dup Sample ID	: WG2039309-3	**DUP Analysis Date**	: 03/11/25 21:21

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Dissolved	500	510	2	10

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 03/11/25 21:21
Dup Sample ID	: WG2039309-4	**DUP Analysis Date**	: 03/11/25 21:21

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Dissolved	570	560	2	10

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2039309-2	**LCS Analysis Date**	: 03/11/25 21:21
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Solids, Total Dissolved	**500.**	**450.**	**89.**					**80-120**	**10**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Solids, Total Dissolved	NONE	10	3.07	mg/l	80-120			10	10	2540C	7 days	1 - Plastic 500ml unpreserved

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

Calculations of TDS

$$\text{mgTDS/L} = \frac{(A - B) \times 1000}{\text{Sample volume, (L)}}$$

Where:

A = Final weight (weight of dish + dried residue, g)
B = Initial weight (weight of clean dish, g)

Sulfate Analysis

Results

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-01	**Date Collected**	:	03/06/25 10:30
Client ID	:	MW-4S	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/11/25 14:20
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500SO4-E	**Analyst**	:	MRW
Lab File ID	:	WG2039177.csv	**Instrument ID**	:	SPEC6
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	03/11/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	8.5	10	1.4	J

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-02	**Date Collected**	:	03/06/25 10:24
Client ID	:	MW-4D2	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/11/25 14:20
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500SO4-E	**Analyst**	:	MRW
Lab File ID	:	WG2039177.csv	**Instrument ID**	:	SPEC6
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	03/11/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	12.	10	1.4	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-03	**Date Collected**	:	03/06/25 09:13
Client ID	:	MW-12S	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/12/25 11:30
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500SO4-E	**Analyst**	:	MRW
Lab File ID	:	WG2039602.csv	**Instrument ID**	:	SPEC6
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	03/12/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	18.	10	1.4	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-04	**Date Collected**	:	03/06/25 08:46
Client ID	:	MW-12D	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/12/25 11:30
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500SO4-E	**Analyst**	:	MRW
Lab File ID	:	WG2039602.csv	**Instrument ID**	:	SPEC6
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	03/12/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	17.	10	1.4	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-05	**Date Collected**	:	03/06/25 11:51
Client ID	:	SCDOH_DR	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/12/25 11:30
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500SO4-E	**Analyst**	:	MRW
Lab File ID	:	WG2039602.csv	**Instrument ID**	:	SPEC6
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	03/12/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	15.	10	1.4	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-06	**Date Collected**	:	03/06/25 12:00
Client ID	:	EQUIPMENT BLANK	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/12/25 11:30
Sample Matrix	:	Equipment Blank	**Dilution Factor**	:	1
Analytical Method	:	121,4500SO4-E	**Analyst**	:	MRW
Lab File ID	:	WG2039602.csv	**Instrument ID**	:	SPEC6
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	03/12/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	2.1	10	1.4	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2039177-1	**Date Collected**	: NA
Client ID	: WG2039177-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/11/25 14:20
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG2039177.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 03/11/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	2.2	10	1.4	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2039177-3	**Date Collected**	: 03/05/25 09:15
Client ID	: WG2039177-3 DUP	**Date Received**	: 03/05/25
Sample Location	:	**Date Analyzed**	: 03/11/25 14:20
Sample Matrix	: WATER	**Dilution Factor**	: 2
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG2039177.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 03/11/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	37.	20	2.7	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2039602-1	**Date Collected**	: NA
Client ID	: WG2039602-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/12/25 11:30
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG2039602.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 03/12/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	2.1	10	1.4	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2039602-3	**Date Collected**	: 03/05/25 16:20
Client ID	: WG2039602-3 DUP	**Date Received**	: 03/05/25
Sample Location	:	**Date Analyzed**	: 03/12/25 11:30
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG2039602.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 03/12/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	12.	10	1.4	

Sample Raw Data

PACE ANALYTICAL LABS

WET CHEMISTRY DEPARTMENT

S U L F A T E

Last Change 3/5/13
File SO4-L.xlt
Curve/spike/ccv;R-4295
LCS;R-4296
Reagent;lot A4320

Sample Number: _____
Client: _____
Analysis: Sulfate, SO4
Method: SM 4500SO4-E
Instrument: SPEC6
Wavelength: 420 nm
Spike Volume(ml): 0.5
Spike Concentration (mg/l): 1000

Product: SO4-4500
Curve Calibration Date : 03/11/25
Curve Identifier: 3/11/2025
Analysis Analyte: Sulfate
Analysis Date: 3/11/2025 14:20
Preparation Date: 3/11/2025 14:20
Technician: MRW
Work group: WG2039177
RL: 10 mg/l
Cell: 2.5 cm

Standard ID	Mean signal (pk area) abs	Dilution	Calc-ed Result
0	0.000	1.0	1.85
10	0.130	1.0	8.17
20	0.354	1.0	19.1
40	0.804	1.0	40.9

Calibration Curve
Volume: 25 ml

Slope	y-intercept
0.020571	-0.038

Correlation Coefficient
0.995160

ICV/LCS Concentration (mg/l) = 20.0000

	Sample number	Sample Volume (ml)	Final Volume (ml)	Bkgd. Abs.	Gross Abs.	Net Absorbance	RESULT (mg/l)	Dilution Factor	RL Multiplier	FINAL RESULT (mg/l)	
	ICB	25	25	0	0.005	0.005	2.239	1	1.0	2.2	Recovery
	ICV	25	25	0	0.347	0.347	18.704	1	1.0	18.7	94%
SAMP	L2512325-02	12.5	25	0.005	0.328	0.323	17.548	1	2.0	35.1	
SAMP	L2512325-06	25	25	0.007	0.316	0.309	16.874	1	1.0	16.9	
SAMP	L2512325-07	25	25	0.018	0.421	0.403	21.399	1	1.0	21.4	
SAMP	L2512325-08	25	25	0.002	0.253	0.251	14.082	1	1.0	14.1	
SAMP	L2512325-09	25	25	0.013	0.801	0.788	39.934	1	1.0	39.9	
SAMP	L2512368-01	25	25	0.003	0.305	0.302	16.537	1	1.0	16.5	
SAMP	L2512368-02	25	25	0.002	0.348	0.346	18.655	1	1.0	18.7	
SAMP	L2512368-04	25	25	0.01	0.332	0.322	17.500	1	1.0	17.5	
	CCV1	25	25	0	0.344	0.344	18.559	1	1.0	18.6	
	CCB1	25	25	0	0.006	0.006	2.287	1	1.0	2.3	
SAMP	L2512368-05	25	25	0.002	0.195	0.193	11.290	1	1.0	11.3	
SAMP	L2512368-07	25	25	0.005	0.801	0.796	40.319	1	1.0	40.3	
SAMP	L2512368-08	25	25	0.004	0.24	0.236	13.360	1	1.0	13.4	
SAMP	L2512368-11	25	25	0.012	0.156	0.144	8.931	1	1.0	8.9	
SAMP	L2512368-13	25	25	0.002	0.219	0.217	12.445	1	1.0	12.4	
SAMP	L2512368-14	12.5	25	0.003	0.333	0.330	17.885	1	2.0	35.8	
SAMP	L2512368-16	25	25	0.001	0.224	0.223	12.734	1	1.0	12.7	
SAMP	L2512368-17	25	25	0.012	0.316	0.304	16.633	1	1.0	16.6	
SAMP	L2512368-19	25	25	0.003	0.224	0.221	12.638	1	1.0	12.6	
SAMP	L2512607-01	25	25	0.002	0.137	0.135	8.497	1	1.0	8.5	
	CCV2	25	25	0	0.34	0.340	18.367	1	1.0	18.4	
	CCB2	25	25	0	0.007	0.007	2.335	1	1.0	2.3	
SAMP	L2512607-02	25	25	0.003	0.213	0.210	12.108	1	1.0	12.1	
	CCV3	25	25	0	0.342	0.342	18.463	1	1.0	18.5	
	CCB3	25	25	0	0.007	0.007	2.335	1	1.0	2.3	
		25	25					1	1.0		
BLANK	WG2039177-1	25	25	0.000	0.005	0.005	2.239	1	1.0	2.2	
DUP	WG2039177-3	12.5	25	0.005	0.346	0.341	18.415	1	2.0	36.8	L2512325-02

	Sample number	sample volume	Final volume (ml)	Bkgd. Abs.	Gross Abs.	Absorbance	Sample Result mg/l	Spiked Volume	Spike conc. mg/l	Spike Result mg/l	Recovery %
MS	WG2039177-4	5	25	0.003	0.53	0.527	35.100	5	100.0000	137	102
											L2512325-02
LCS	WG2039177-2	25	25	0	0.347	0.347		1	20.0000	19	94

PACE ANALYTICAL LABS

WET CHEMISTRY DEPARTMENT

S U L F A T E

Last Change 3/5/13
File SO4-L.xlt
Curve/spike/ccv;R-4295
LCS;R-4296
Reagent;lot A4320

Sample Number:_____
Client: _____
Analysis: Sulfate, SO4
Method: SM 4500SO4-E
Instrument: SPEC6
Wavelength: 420 nm
Spike Volume(ml):0.5
Spike Concentration (mg/l):1000

Product: SO4-4500
Curve Calibration Date :03/12/25
Curve Identifier: 3/12/2025
Analysis Analyte: Sulfate
Analysis Date: 3/12/2025 11:30
Preparation Date: 3/12/2025 11:30
Technician: MRW
Work group: WG2039602
RL: 10 mg/l
Cell: 2.5 cm

Standard ID	Mean signal (pk area) abs	Dilution	Calc-ed Result
0	0.000	1.0	1.83
10	0.132	1.0	8.21
20	0.356	1.0	19.0
40	0.810	1.0	40.9

Calibration Curve
Volume: 25 ml

Slope	y-intercept
0.020714	-0.038

Correlation Coefficient
0.995223

ICV/LCS Concentration (mg/l) = 20.0000

	Sample number	Sample Volume (ml)	Final Volume (ml)	Bkgd. Abs.	Gross Abs.	Net Absorbance	RESULT (mg/l)	Dilution Factor	RL Multiplier	FINAL RESULT (mg/l)	
	ICB	25	25	0	0.003	0.003	2.127	1	1.0	2.1	Recovery
	ICV	25	25	0	0.375	0.375	19.915	1	1.0	19.9	100%
SAMP	L2512368-10	25	25	0.002	0.237	0.235	13.220	1	1.0	13.2	
SAMP	L2512607-03	25	25	0.005	0.335	0.330	17.763	1	1.0	17.8	
SAMP	L2512607-04	25	25	0.004	0.324	0.320	17.285	1	1.0	17.3	
SAMP	L2512607-05	25	25	0.007	0.275	0.268	14.798	1	1.0	14.8	
SAMP	L2512607-06	25	25	0.011	0.013	0.002	2.079	1	1.0	2.1	
SAMP	L2513363-01	10	25	0.007	0.302	0.295	16.089	1	2.5	40.2	
SAMP	L2513363-02	10	25	0.014	0.447	0.433	22.688	1	2.5	56.7	
SAMP	L2513363-03	25	25	0.007	0.345	0.338	18.146	1	1.0	18.1	
	CCV1	25	25	0	0.374	0.374	19.867	1	1.0	19.9	
	CCB1	25	25	0	0.004	0.004	2.175	1	1.0	2.2	
SAMP	L2513363-04	25	25	0.067	0.072	0.005	2.223	1	1.0	2.2	
SAMP	L2513363-05	10	25	0.008	0.453	0.445	23.262	1	2.5	58.2	
SAMP	L2513363-06	25	25	0.063	0.165	0.102	6.861	1	1.0	6.9	
SAMP	L2513363-07	2.5	25	0.005	0.195	0.190	11.069	1	10.0	110.7	
SAMP	L2513363-08	12.5	25	0.006	0.42	0.414	21.780	1	2.0	43.6	
SAMP	L2513363-09	10	25	0.008	0.534	0.526	27.135	1	2.5	67.8	
SAMP	L2513422-02	2	25	0.009	0.615	0.606	30.960	1	12.5	387.0	
	L2513561-01	25	25	0.057	0.17	0.113	7.387	1	1.0	7.4	
SAMP	L2513848-01	25	25	0.042	0.082	0.040	3.896	1	1.0	3.9	FILTERED
SAMP	L2513848-02	25	25	0.014	0.156	0.142	8.774	1	1.0	8.8	FILTERED
	CCV2	25	25	0	0.374	0.374	19.867	1	1.0	19.9	
	CCB2	25	25	0	0.006	0.006	2.271	1	1.0	2.3	
SAMP	L2513848-03	25	25	0.015	0.052	0.037	3.753	1	1.0	3.8	FILTERED
SAMP	L2513848-04	25	25	0.103	0.09	-0.013	1.362	1	1.0	1.4	
	CCV3	25	25	0	0.367	0.367	19.532	1	1.0	19.5	
	CCB3	25	25	0	0.009	0.009	2.414	1	1.0	2.4	
BLANK	WG2039602-1	25	25	0.000	0.003	0.003	2.127	1	1.0	2.1	
DUP	WG2039602-3	25	25	0.001	0.203	0.202	11.643	1	1.0	11.6	L2512368-10

	Sample number	sample volume	Final volume (ml)	Bkgd. Abs.	Gross Abs.	Absorbance	Sample Result mg/l	Spiked Volume	Spike conc. mg/l	Spike Result mg/l	Recovery %
MS	WG2039602-4	12.5	25	0.003	0.504	0.501	13.200	12.5	40.0000	52	97
											L2512368-10
LCS	WG2039602-2	25	25	0	0.375	0.375		1	20.0000	20	100

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2512325-02		
Matrix Spike	: WG2039177-4	**MS Analysis Date**	: 03/11/25 14:20
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	**Sample Conc. (mg/l)**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Sulfate	**35.**	**100**	**140**	**102**					**55-147**	**14**

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2512368-10		
Matrix Spike	: WG2039602-4	**MS Analysis Date**	: 03/12/25 11:30
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
	Sample Conc.	Spike Added	Spike Conc.	%R	Spike Added	Spike Conc.	%R	RPD	Recovery Limits	RPD Limit
Parameter	(mg/l)	(mg/l)	(mg/l)		(mg/l)	(mg/l)				
Sulfate	13.	40	52.	98					55-147	14

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 03/11/25 14:20
Dup Sample ID	: WG2039177-3	**DUP Analysis Date**	: 03/11/25 14:20

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Sulfate	35	37.	6	14

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 03/12/25 11:30
Dup Sample ID	: WG2039602-3	**DUP Analysis Date**	: 03/12/25 11:30

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Sulfate	13	12.	8	14

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2039177-2	**LCS Analysis Date**	: 03/11/25 14:20
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/l)	(mg/l)		(mg/l)	(mg/l)			Limits	Limit
Sulfate	20.0	19.0	95.					90-110	14

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2039602-2	**LCS Analysis Date**	: 03/12/25 11:30
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/l)	(mg/l)		(mg/l)	(mg/l)			Limits	Limit
Sulfate	20.0	20.0	100.					90-110	14

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Created By: Jason Hebert
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WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Sulfate	14808-79-8	10	1.37	mg/l	90-110		55-147	14	14	4500SO4-E	28 days	1 - Plastic 500ml unpreserved
Sulfate	14808-79-8	10	1.37	mg/l	90-110		55-147	14	14	9038	28 days	1 - Plastic 500ml unpreserved

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

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WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Sulfate	14808-79-8	100	13.6	mg/kg	80-121	12	22-183	12	12	9038	28 days	1 - Glass 250ml/8oz unpreserved

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

Calculations of Sulfate

Aqueous samples:

Calculate the concentration value of the sample directly from the standard curve.

$$mgSO_4/L = \frac{\text{absorbance - y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$

If sample has a background absorbance, it has to be subtracted before calculation.

Alkalinity Analysis

Results

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-01	**Date Collected**	:	03/06/25 10:30
Client ID	:	MW-4S	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/12/25 08:57
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,2320B	**Analyst**	:	MKT
Lab File ID	:	250312_CSV.csv	**Instrument ID**	:	TITR5
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	39.4	2.00	NA	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-02	**Date Collected**	:	03/06/25 10:24
Client ID	:	MW-4D2	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/12/25 09:01
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,2320B	**Analyst**	:	MKT
Lab File ID	:	250312_CSV.csv	**Instrument ID**	:	TITR5
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	24.8	2.00	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2512607-03	**Date Collected**	: 03/06/25 09:13
Client ID	: MW-12S	**Date Received**	: 03/06/25
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 03/12/25 09:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 250312_CSV.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	20.5	2.00	NA	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-04	**Date Collected**	:	03/06/25 08:46
Client ID	:	MW-12D	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/12/25 09:04
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,2320B	**Analyst**	:	MKT
Lab File ID	:	250312_CSV.csv	**Instrument ID**	:	TITR5
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	25.9	2.00	NA	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-05	**Date Collected**	:	03/06/25 11:51
Client ID	:	SCDOH_DR	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/12/25 09:06
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,2320B	**Analyst**	:	MKT
Lab File ID	:	250312_CSV.csv	**Instrument ID**	:	TITR5
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	22.0	2.00	NA	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2512607
Project Name	:	CORAM MATERIALS	Project Number	:	2232.0006Y005
Lab ID	:	L2512607-06	Date Collected	:	03/06/25 12:00
Client ID	:	EQUIPMENT BLANK	Date Received	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	:	03/12/25 09:08
Sample Matrix	:	Equipment Blank	Dilution Factor	:	1
Analytical Method	:	121,2320B	Analyst	:	MKT
Lab File ID	:	250312_CSV.csv	Instrument ID	:	TITR5
Sample Amount	:		%Solids	:	N/A
Digestion Method	:		Date Digested	:	

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

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2039514-1	**Date Collected**	: NA
Client ID	: WG2039514-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/12/25 08:52
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 250312_CSV.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

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

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2039514-2	**Date Collected**	: 03/06/25 10:30
Client ID	: MW-4SDUP	**Date Received**	: 03/06/25
Sample Location	:	**Date Analyzed**	: 03/12/25 08:59
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MKT
Lab File ID	: 250312_CSV.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
71-52-3	Alkalinity, Bicarbonate	38.9	2.00	NA	
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U

Sample Raw Data

Results Editor

LabX

Result Overview

Sample start t	Zero poin	Unit of Ze	Data marl	Slope 1 (C	Unit of Sl	Data marl	Sensor ty	List of sta	Standard	Comment	Temperat
	7.180	pH		-57.83	mV/pH						

Results Editor

Result Overview

Sample ID1	Potentia	Unit of P	Data ma	Sample start	Volume	Unit of V	Density [	Unit of D	Cor	Uni	Tempera	Unit of T	Commer
--	7.04	pH		3/12/2025 8	0	mL	1.0	g/mL	1.0		25.0	°C	

Titration report

LabX

Method

Method ID	Alk Total (2)	**Release state**	Released
Name	EP/EP	**Modified by**	SystemInternal
Modified on	10/14/2023 11:44:43 AM		

Summary

Samples

	Sample ID	Name	Result	State
1	Rinse,MKT	Sample size	50 mL	
		Potential R4	7.09 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.867 mL	OK
		Consumption 4.2 R3	0.870 mL	OK
		Content R5	17.340 mg/L	OK
		ALK LOW R6	17.280 mg/L	OK
2	Rinse,MKT	Sample size	50 mL	
		Potential R4	5.54 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.076 mL	OK
		Consumption 4.2 R3	0.086 mL	OK
		Content R5	1.520 mg/L	OK
		ALK LOW R6	1.320 mg/L	OK
3	WG2039514-1	Sample size	50 mL	
		Potential R4	5.35 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.052 mL	OK
		Consumption 4.2 R3	0.065 mL	OK
		Content R5	1.040 mg/L	OK
		ALK LOW R6	0.780 mg/L	OK
4	xLCS	Sample size	50 mL	
		Potential R4	10.94 pH	OK
		Consumption 8.3 R1	4.703 mL	OK
		Consumption 4.5 R2	5.150 mL	OK
		Consumption 4.2 R3	5.154 mL	OK
		Content R5	103.000 mg/L	OK
		ALK LOW R6	102.920 mg/L	OK
5	I2512607-01	Sample size	50 mL	
		Potential R4	5.57 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.972 mL	OK
		Consumption 4.2 R3	1.999 mL	OK
		Content R5	39.440 mg/L	OK
		ALK LOW R6	38.900 mg/L	OK
6	WG2039514-2	Sample size	50 mL	

Titration report

		Potential R4	5.62 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.946 mL	OK
		Consumption 4.2 R3	1.979 mL	OK
		Content R5	38.920 mg/L	OK
		ALK LOW R6	38.260 mg/L	OK
7	I2512607-02	Sample size	50 mL	
		Potential R4	5.56 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.238 mL	OK
		Consumption 4.2 R3	1.248 mL	OK
		Content R5	24.760 mg/L	OK
		ALK LOW R6	24.560 mg/L	OK
8	I2512607-03	Sample size	50 mL	
		Potential R4	5.44 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.026 mL	OK
		Consumption 4.2 R3	1.051 mL	OK
		Content R5	20.520 mg/L	OK
		ALK LOW R6	20.020 mg/L	OK
9	I2512607-04	Sample size	50 mL	
		Potential R4	5.49 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.297 mL	OK
		Consumption 4.2 R3	1.318 mL	OK
		Content R5	25.940 mg/L	OK
		ALK LOW R6	25.520 mg/L	OK
10	I2512607-05	Sample size	50 mL	
		Potential R4	5.51 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.098 mL	OK
		Consumption 4.2 R3	1.114 mL	OK
		Content R5	21.960 mg/L	OK
		ALK LOW R6	21.640 mg/L	OK
11	I2512607-06	Sample size	50 mL	
		Potential R4	5.48 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.096 mL	OK
		Consumption 4.2 R3	0.112 mL	OK
		Content R5	1.920 mg/L	OK
		ALK LOW R6	1.600 mg/L	OK
12	I2513301-01	Sample size	50 mL	
		Potential R4	6.42 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	13.981 mL	OK
		Consumption 4.2 R3	14.161 mL	OK
		Content R5	279.620 mg/L	OK

Titration report

		ALK LOW R6	276.020 mg/L	OK
13	I2513301-02	Sample size	50 mL	
		Potential R4	5.48 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.267 mL	OK
		Consumption 4.2 R3	1.308 mL	OK
		Content R5	25.340 mg/L	OK
		ALK LOW R6	24.520 mg/L	OK
14	I2513301-03	Sample size	50 mL	
		Potential R4	6.24 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	11.328 mL	OK
		Consumption 4.2 R3	11.507 mL	OK
		Content R5	226.560 mg/L	OK
		ALK LOW R6	222.980 mg/L	OK
15	WG2039555-2	Sample size	50 mL	
		Potential R4	6.23 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	11.386 mL	OK
		Consumption 4.2 R3	11.553 mL	OK
		Content R5	227.720 mg/L	OK
		ALK LOW R6	224.380 mg/L	OK
16	I2513301-06	Sample size	50 mL	
		Potential R4	6.55 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	17.774 mL	OK
		Consumption 4.2 R3	17.992 mL	OK
		Content R5	355.480 mg/L	OK
		ALK LOW R6	351.120 mg/L	OK
17	I2513301-07	Sample size	50 mL	
		Potential R4	6.25 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	11.705 mL	OK
		Consumption 4.2 R3	11.869 mL	OK
		Content R5	234.100 mg/L	OK
		ALK LOW R6	230.820 mg/L	OK
18	I2513301-08	Sample size	50 mL	
		Potential R4	5.69 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.128 mL	OK
		Consumption 4.2 R3	0.142 mL	OK
		Content R5	2.560 mg/L	OK
		ALK LOW R6	2.280 mg/L	OK
19	I2513301-08 CONF	Sample size	50 mL	
		Potential R4	5.53 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.081 mL	OK

Titration report

LabX

		Consumption 4.2 R3	0.111 mL	OK
		Content R5	1.620 mg/L	OK
		ALK LOW R6	1.020 mg/L	OK
20	I2513301-09	Sample size	50 mL	
		Potential R4	5.54 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.076 mL	OK
		Consumption 4.2 R3	0.116 mL	OK
		Content R5	1.520 mg/L	OK
		ALK LOW R6	0.720 mg/L	OK
21	I2513301-09 CONF	Sample size	50 mL	
		Potential R4	5.56 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.084 mL	OK
		Consumption 4.2 R3	0.122 mL	OK
		Content R5	1.680 mg/L	OK
		ALK LOW R6	0.920 mg/L	OK
22	WG2039555-1	Sample size	50 mL	
		Potential R4	5.36 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.063 mL	OK
		Consumption 4.2 R3	0.092 mL	OK
		Content R5	1.260 mg/L	OK
		ALK LOW R6	0.680 mg/L	OK
23	I2513181-01	Sample size	50 mL	
		Potential R4	6.39 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	12.848 mL	OK
		Consumption 4.2 R3	13.000 mL	OK
		Content R5	256.960 mg/L	OK
		ALK LOW R6	253.920 mg/L	OK
24	I2513181-02	Sample size	50 mL	
		Potential R4	6.52 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	12.839 mL	OK
		Consumption 4.2 R3	12.987 mL	OK
		Content R5	256.780 mg/L	OK
		ALK LOW R6	253.820 mg/L	OK
25	I2513181-03	Sample size	50 mL	
		Potential R4	6.51 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	15.041 mL	OK
		Consumption 4.2 R3	15.209 mL	OK
		Content R5	300.820 mg/L	OK
		ALK LOW R6	297.460 mg/L	OK
26	WG2039565-2	Sample size	50 mL	
		Potential R4	6.53 pH	OK

Titration report

LabX

		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	14.952 mL	OK
		Consumption 4.2 R3	15.106 mL	OK
		Content R5	299.040 mg/L	OK
		ALK LOW R6	295.960 mg/L	OK
27	I2513181-04 2x	Sample size	50 mL	
		Potential R4	6.59 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	13.197 mL	OK
		Consumption 4.2 R3	15.847 mL	OK
		Content R5	263.940 mg/L	OK
		ALK LOW R6	210.940 mg/L	OK
28	I2513181-05	Sample size	50 mL	
		Potential R4	5.65 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.127 mL	OK
		Consumption 4.2 R3	0.140 mL	OK
		Content R5	2.540 mg/L	OK
		ALK LOW R6	2.280 mg/L	OK
29	I2513181-05 CONF	Sample size	50 mL	
		Potential R4	5.43 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.088 mL	OK
		Consumption 4.2 R3	0.129 mL	OK
		Content R5	1.760 mg/L	OK
		ALK LOW R6	0.940 mg/L	OK
30	I2513185-01	Sample size	50 mL	
		Potential R4	6.47 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	14.521 mL	OK
		Consumption 4.2 R3	14.692 mL	OK
		Content R5	290.420 mg/L	OK
		ALK LOW R6	287.000 mg/L	OK
31	I2513185-02	Sample size	50 mL	
		Potential R4	6.63 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	15.031 mL	OK
		Consumption 4.2 R3	15.196 mL	OK
		Content R5	300.620 mg/L	OK
		ALK LOW R6	297.320 mg/L	OK
32	I2513185-03	Sample size	50 mL	
		Potential R4	7.19 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	10.632 mL	OK
		Consumption 4.2 R3	10.810 mL	OK
		Content R5	212.640 mg/L	OK
		ALK LOW R6	209.080 mg/L	OK

Titration report

33	I2513185-04	Sample size	50 mL	
		Potential R4	6.74 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
34	I2513185-05	Sample size	50 mL	
		Potential R4	6.40 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.618 mL	OK
		Consumption 4.2 R3	5.694 mL	OK
		Content R5	112.360 mg/L	OK
		ALK LOW R6	110.840 mg/L	OK
35	I2513185-06	Sample size	50 mL	
		Potential R4	5.62 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.112 mL	OK
		Consumption 4.2 R3	0.129 mL	OK
		Content R5	2.240 mg/L	OK
		ALK LOW R6	1.900 mg/L	OK
36	I2513185-06 CONF	Sample size	50 mL	
		Potential R4	5.41 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.080 mL	OK
		Consumption 4.2 R3	0.118 mL	OK
		Content R5	1.600 mg/L	OK
		ALK LOW R6	0.840 mg/L	OK
37	WG2039565-1	Sample size	50 mL	
		Potential R4	5.36 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.063 mL	OK
		Consumption 4.2 R3	0.096 mL	OK
		Content R5	1.260 mg/L	OK
		ALK LOW R6	0.600 mg/L	OK
38	I2513185-04 2x	Sample size	50 mL	
		Potential R4	-0.44 pH	OK
		Consumption 8.3 R1	0.000 mL	OK
		Consumption 4.5 R2	0.000 mL	OK
		Consumption 4.2 R3	0.000 mL	OK
		Content R5	0.000 mg/L	OK
		ALK LOW R6	0.000 mg/L	OK
39	I2513185-04 1x+10	Sample size	50 mL	
		Potential R4	6.91 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	10.091 mL	OK
		Consumption 4.2 R3	10.216 mL	OK

Titration report

		Content R5	201.820 mg/L	OK
		ALK LOW R6	199.320 mg/L	OK
40	WG2039669-2	Sample size	50 mL	
		Potential R4	11.06 pH	OK
		Consumption 8.3 R1	4.718 mL	OK
		Consumption 4.5 R2	5.152 mL	OK
		Consumption 4.2 R3	5.159 mL	OK
		Content R5	103.040 mg/L	OK
		ALK LOW R6	102.900 mg/L	OK
41	WG2039669-1	Sample size	50 mL	
		Potential R4	6.09 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.090 mL	OK
		Consumption 4.2 R3	0.110 mL	OK
		Content R5	1.800 mg/L	OK
		ALK LOW R6	1.400 mg/L	OK
42	I2512537-01	Sample size	50 mL	
		Potential R4	6.35 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	12.827 mL	OK
		Consumption 4.2 R3	13.019 mL	OK
		Content R5	256.540 mg/L	OK
		ALK LOW R6	252.700 mg/L	OK
43	WG2039669-3	Sample size	50 mL	
		Potential R4	6.41 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	12.899 mL	OK
		Consumption 4.2 R3	13.047 mL	OK
		Content R5	257.980 mg/L	OK
		ALK LOW R6	255.020 mg/L	OK
44	WG2039669-4	Sample size	50 mL	
		Potential R4	8.60 pH	OK
		Consumption 8.3 R1	0.954 mL	OK
		Consumption 4.5 R2	15.011 mL	OK
		Consumption 4.2 R3	17.787 mL	OK
		Content R5	300.220 mg/L	OK
		ALK LOW R6	244.700 mg/L	OK
45	I2512537-02	Sample size	50 mL	
		Potential R4	6.38 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	14.841 mL	OK
		Consumption 4.2 R3	15.099 mL	OK
		Content R5	296.820 mg/L	OK
		ALK LOW R6	291.660 mg/L	OK
46	I2512537-03	Sample size	50 mL	
		Potential R4	6.52 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK

Titration report

		Consumption 4.5 R2	18.376 mL	OK
		Consumption 4.2 R3	18.616 mL	OK
		Content R5	367.520 mg/L	OK
		ALK LOW R6	362.720 mg/L	OK
47	I2512537-04	Sample size	50 mL	
		Potential R4	6.30 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	15.052 mL	OK
		Consumption 4.2 R3	15.302 mL	OK
		Content R5	301.040 mg/L	OK
		ALK LOW R6	296.040 mg/L	OK
48	I2512537-05	Sample size	50 mL	
		Potential R4	6.86 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	12.413 mL	OK
		Consumption 4.2 R3	12.565 mL	OK
		Content R5	248.260 mg/L	OK
		ALK LOW R6	245.220 mg/L	OK
49	I2512537-06	Sample size	50 mL	
		Potential R4	5.62 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.674 mL	OK
		Consumption 4.2 R3	0.682 mL	OK
		Content R5	13.480 mg/L	OK
		ALK LOW R6	13.320 mg/L	OK
50	I2512537-07	Sample size	50 mL	
		Potential R4	6.49 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	18.420 mL	OK
		Consumption 4.2 R3	18.652 mL	OK
		Content R5	368.400 mg/L	OK
		ALK LOW R6	363.760 mg/L	OK
51	I2512537-08	Sample size	50 mL	
		Potential R4	5.68 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.193 mL	OK
		Consumption 4.2 R3	0.199 mL	OK
		Content R5	3.860 mg/L	OK
		ALK LOW R6	3.740 mg/L	OK
52	I2512537-08 CONF	Sample size	50 mL	
		Potential R4	5.54 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.158 mL	OK
		Consumption 4.2 R3	0.174 mL	OK
		Content R5	3.160 mg/L	OK
		ALK LOW R6	2.840 mg/L	OK
53	I2512537-10	Sample size	50 mL	

Titration report

		Potential R4	6.84 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.312 mL	OK
		Consumption 4.2 R3	4.329 mL	OK
		Content R5	86.240 mg/L	OK
		ALK LOW R6	85.900 mg/L	OK
54	I2512537-11	Sample size	50 mL	
		Potential R4	5.38 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.517 mL	OK
		Consumption 4.2 R3	0.542 mL	OK
		Content R5	10.340 mg/L	OK
		ALK LOW R6	9.840 mg/L	OK
55	I2512537-12	Sample size	50 mL	
		Potential R4	6.66 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	12.084 mL	OK
		Consumption 4.2 R3	12.240 mL	OK
		Content R5	241.680 mg/L	OK
		ALK LOW R6	238.560 mg/L	OK
56	I2512537-13	Sample size	50 mL	
		Potential R4	6.15 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	8.911 mL	OK
		Consumption 4.2 R3	9.068 mL	OK
		Content R5	178.220 mg/L	OK
		ALK LOW R6	175.080 mg/L	OK
57	I2512537-14	Sample size	50 mL	
		Potential R4	5.65 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.592 mL	OK
		Consumption 4.2 R3	0.600 mL	OK
		Content R5	11.840 mg/L	OK
		ALK LOW R6	11.680 mg/L	OK
58	I2512537-15	Sample size	50 mL	
		Potential R4	6.05 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.186 mL	OK
		Consumption 4.2 R3	2.199 mL	OK
		Content R5	43.720 mg/L	OK
		ALK LOW R6	43.460 mg/L	OK
59	I2512537-16	Sample size	50 mL	
		Potential R4	6.12 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.413 mL	OK
		Consumption 4.2 R3	2.426 mL	OK
		Content R5	48.260 mg/L	OK

Titration report

		ALK LOW R6	48.000 mg/L	OK
60	I2512963-01 2x+10	Sample size	50 mL	
		Potential R4	6.43 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	14.229 mL	OK
		Consumption 4.2 R3	14.545 mL	OK
		Content R5	284.580 mg/L	OK
		ALK LOW R6	278.260 mg/L	OK
61	I2513065-01	Sample size	50 mL	
		Potential R4	5.93 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.663 mL	OK
		Consumption 4.2 R3	3.766 mL	OK
		Content R5	73.260 mg/L	OK
		ALK LOW R6	71.200 mg/L	OK
62	I2513065-02	Sample size	50 mL	
		Potential R4	6.16 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.945 mL	OK
		Consumption 4.2 R3	5.060 mL	OK
		Content R5	98.900 mg/L	OK
		ALK LOW R6	96.600 mg/L	OK
63	I2513065-03	Sample size	50 mL	
		Potential R4	5.99 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.469 mL	OK
		Consumption 4.2 R3	2.612 mL	OK
		Content R5	49.380 mg/L	OK
		ALK LOW R6	46.520 mg/L	OK
64	I2513065-04	Sample size	50 mL	
		Potential R4	5.99 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.527 mL	OK
		Consumption 4.2 R3	2.548 mL	OK
		Content R5	50.540 mg/L	OK
		ALK LOW R6	50.120 mg/L	OK
65	CCV	Sample size	50 mL	
		Potential R4	11.05 pH	OK
		Consumption 8.3 R1	4.580 mL	OK
		Consumption 4.5 R2	5.030 mL	OK
		Consumption 4.2 R3	5.035 mL	OK
		Content R5	100.600 mg/L	OK
		ALK LOW R6	100.500 mg/L	OK
66	CCB	Sample size	50 mL	
		Potential R4	5.74 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.099 mL	OK

Titration report

		Consumption 4.2 R3	0.119 mL	OK
		Content R5	1.980 mg/L	OK
		ALK LOW R6	1.580 mg/L	OK
67	CCV	Sample size	50 mL	
		Potential R4	11.07 pH	OK
		Consumption 8.3 R1	4.587 mL	OK
		Consumption 4.5 R2	5.062 mL	OK
		Consumption 4.2 R3	5.065 mL	OK
		Content R5	101.240 mg/L	OK
		ALK LOW R6	101.180 mg/L	OK
68	CCB	Sample size	50 mL	
		Potential R4	5.98 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.092 mL	OK
		Consumption 4.2 R3	0.115 mL	OK
		Content R5	1.840 mg/L	OK
		ALK LOW R6	1.380 mg/L	OK

Statistics

R1

Mean	NaN mL		
Maximum	4.718 mL	**Minimum**	0.000 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	68	**Samples excluded**	0

R2

Mean	NaN mL		
Maximum	18.420 mL	**Minimum**	0.000 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	68	**Samples excluded**	0

R3

Mean	NaN mL		
Maximum	18.652 mL	**Minimum**	0.000 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	68	**Samples excluded**	0

R4

Mean	6.29 pH		
Maximum	11.07 pH	**Minimum**	-0.44 pH
Standard deviation	1.54 pH	**Rel. standard deviation**	24.570 %
Total samples	68	**Samples excluded**	0

R5

Titration report

Mean	NaN mg/L		
Maximum	368.400 mg/L	**Minimum**	0.000 mg/L
Standard deviation	NaN mg/L	**Rel. standard deviation**	NaN %
Total samples	68	**Samples excluded**	0

R6

Mean	NaN mg/L		
Maximum	363.760 mg/L	**Minimum**	0.000 mg/L
Standard deviation	NaN mg/L	**Rel. standard deviation**	NaN %
Total samples	68	**Samples excluded**	0

Used Instruments

Name	T7 Excellence Titrator	**Serial number**	C329519495

Responsible User

Time	Login name	Full name
3/12/2025 8:46:56 AM	SystemInternal	System internal account

(17) Data compression on instrument occurred

Quality Control

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-4S	**Matrix**	: WATER
Lab Sample ID	: L2512607-01	**Analysis Date**	: 03/12/25 08:57
Dup Sample ID	: WG2039514-2	**DUP Analysis Date**	: 03/12/25 08:59

Parameter	Sample Concentration (mg CaCO3/L)	Duplicate Concentration (mg CaCO3/L)	RPD	RPD Limit
Alkalinity, Carbonate	ND	ND	NC	10
Alkalinity, Bicarbonate	39.4	38.9	1	9

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Alkalinity, Total	471-34-1	2		mg CaCO3/L	90-110	10	86-116	10	10	2320B	14 days	1 - Plastic 250ml unpreserved/No Headspace

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

Calculations of Alkalinity

$$\text{Alkalinity, mg } CaCO_3/L = \frac{A \times N \times 50{,}000}{\text{mL Sample}}$$

Where:

A = mL of the standard acid titrated

N = normality of the standard acid

Results are calculated using Mettler Toledo software.

Standard sample size is 50mL, 0.02N Sulfuric acid for titration

Sequence Logs

CAL	250312	LCS 7.00	7.04	INT:	mkt
pH 4	3484	Titrant:	4298		
pH 7	3386	LCS:	3530		
pH 10	3482	MS:	3529		
LCS	3523				

1	Rinse,MKT	42	l2512537-01
2	Rinse,MKT	43	WG2039669-3
3	WG2039514-1	44	WG2039669-4
4	xLCS	45	l2512537-02
5	l2512607-01	46	l2512537-03
6	WG2039514-2	47	l2512537-04
7	l2512607-02	48	l2512537-05
8	l2512607-03	49	l2512537-06
9	l2512607-04	50	l2512537-07
10	l2512607-05	51	l2512537-08
11	l2512607-06	52	l2512537-08 CONF
12	l2513301-01	53	l2512537-10
13	l2513301-02	54	l2512537-11
14	l2513301-03	55	l2512537-12
15	WG2039555-2	56	l2512537-13
16	l2513301-06	57	l2512537-14
17	l2513301-07	58	l2512537-15
18	l2513301-08	59	l2512537-16
19	l2513301-08 CONF	60	l2512963-01 2x+10
20	l2513301-09	61	l2513065-01
21	l2513301-09 CONF	62	l2513065-02
22	WG2039555-1	63	l2513065-03
23	l2513181-01	64	l2513065-04
24	l2513181-02	65	CCV
25	l2513181-03	66	CCB
26	WG2039565-2	67	CCV
27	l2513181-04 2x	68	CCB
28	l2513181-05		
29	l2513181-05 CONF		
30	l2513185-01		
31	l2513185-02		
32	l2513185-03		
33	l2513185-04		
34	l2513185-05		
35	l2513185-06		
36	l2513185-06 CONF		
37	WG2039565-1		
38	l2513185-04 2x		
39	l2513185-04 1x+10		
40	WG2039669-2		
41	WG2039669-1		

Chloride Analysis

Results

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-01	**Date Collected**	:	03/06/25 10:30
Client ID	:	MW-4S	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/10/25 15:44
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500CL-E	**Analyst**	:	JER
Lab File ID	:	CL250310-A1	**Instrument ID**	:	LACHAT3
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	66.	1.0	0.89	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-02	**Date Collected**	:	03/06/25 10:24
Client ID	:	MW-4D2	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/10/25 14:35
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500CL-E	**Analyst**	:	JER
Lab File ID	:	CL250310-A1	**Instrument ID**	:	LACHAT3
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	9.8	1.0	0.89	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-03	**Date Collected**	:	03/06/25 09:13
Client ID	:	MW-12S	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/10/25 14:36
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500CL-E	**Analyst**	:	JER
Lab File ID	:	CL250310-A1	**Instrument ID**	:	LACHAT3
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	90.	1.0	0.89	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-04	**Date Collected**	:	03/06/25 08:46
Client ID	:	MW-12D	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/10/25 14:37
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500CL-E	**Analyst**	:	JER
Lab File ID	:	CL250310-A1	**Instrument ID**	:	LACHAT3
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	19.	1.0	0.89	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-05	**Date Collected**	:	03/06/25 11:51
Client ID	:	SCDOH_DR	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/10/25 14:37
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500CL-E	**Analyst**	:	JER
Lab File ID	:	CL250310-A1	**Instrument ID**	:	LACHAT3
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	40.	1.0	0.89	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-06	**Date Collected**	:	03/06/25 12:00
Client ID	:	EQUIPMENT BLANK	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/10/25 14:38
Sample Matrix	:	Equipment Blank	**Dilution Factor**	:	1
Analytical Method	:	121,4500CL-E	**Analyst**	:	JER
Lab File ID	:	CL250310-A1	**Instrument ID**	:	LACHAT3
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	ND	1.0	0.89	U

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	WG2038587-1	**Date Collected**	:	NA
Client ID	:	WG2038587-1BLANK	**Date Received**	:	NA
Sample Location	:		**Date Analyzed**	:	03/10/25 14:01
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500CL-E	**Analyst**	:	JER
Lab File ID	:	CL250310-A1	**Instrument ID**	:	LACHAT3
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	ND	1.0	0.89	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2038587-3	**Date Collected**	: 03/05/25 16:20
Client ID	: WG2038587-3 DUP	**Date Received**	: 03/05/25
Sample Location	:	**Date Analyzed**	: 03/10/25 14:28
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: JER
Lab File ID	: CL250310-A1	**Instrument ID**	: LACHAT3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	22.	1.0	0.89	

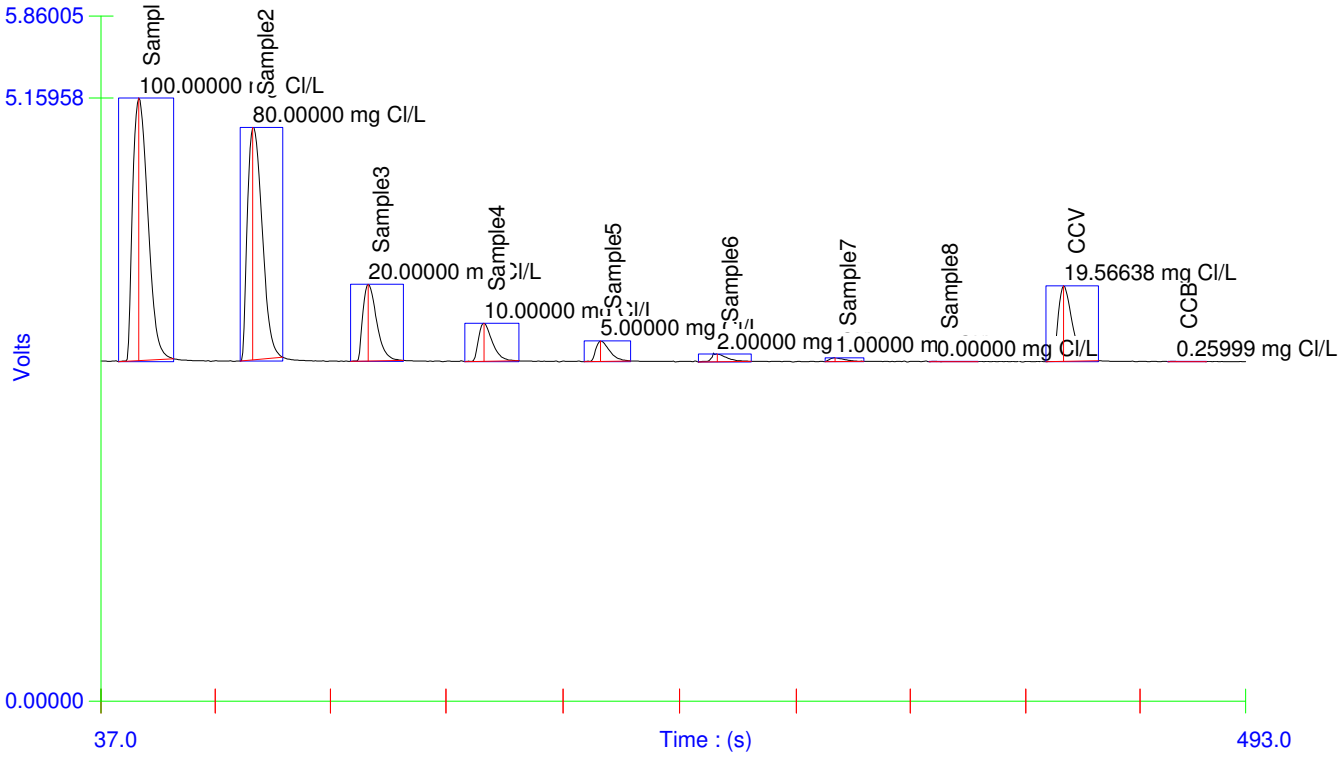
Sample Raw Data

Author: Date : 3/10/2025

Original Run Filename: OM_3-10-2025_01-34-58PM.OMN Created: 3/10/2025 1:34:58 PM
Original Run Author's Signature: [a1wetcheminstrument]
Current Run Filename: OM_3-10-2025_01-34-58PM.OMN Last Modified: 3/10/2025 1:46:15 PM
Current Run Author's Signature: [a1wetcheminstrument]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 Chloride-CH3 (mg Cl/L)	ADF	MDF	Weight
Sample1	1	S1	100.00000			
Sample2	1	S2	80.00000			
Sample3	1	S3	20.00000			
Sample4	1	S4	10.00000			
Sample5	1	S5	5.00000			
Sample6	1	S6	2.00000			
Sample7	1	S7	1.00000			
Sample8	1	S9	0.00000			
CCV	1	S3	19.56638			
		Known Conc:	20.00000			
		Calibration:	Table/Fig. : 1			
CCB	1	S9	0.25999			
		Known Conc:	0.00000			
~~ICV 5~~	~~1~~	~~1~~	~~4.62652~~			
~~ICV 30~~	~~1~~	~~2~~	~~34.87274~~			
~~ICV 80~~	~~1~~	~~3~~	~~85.24500~~			

Channel 1 (Chloride) - Set: 1 / 2



Author: Date : 3/10/2025

Channel 1 (Chloride) - Set: 2 / 2

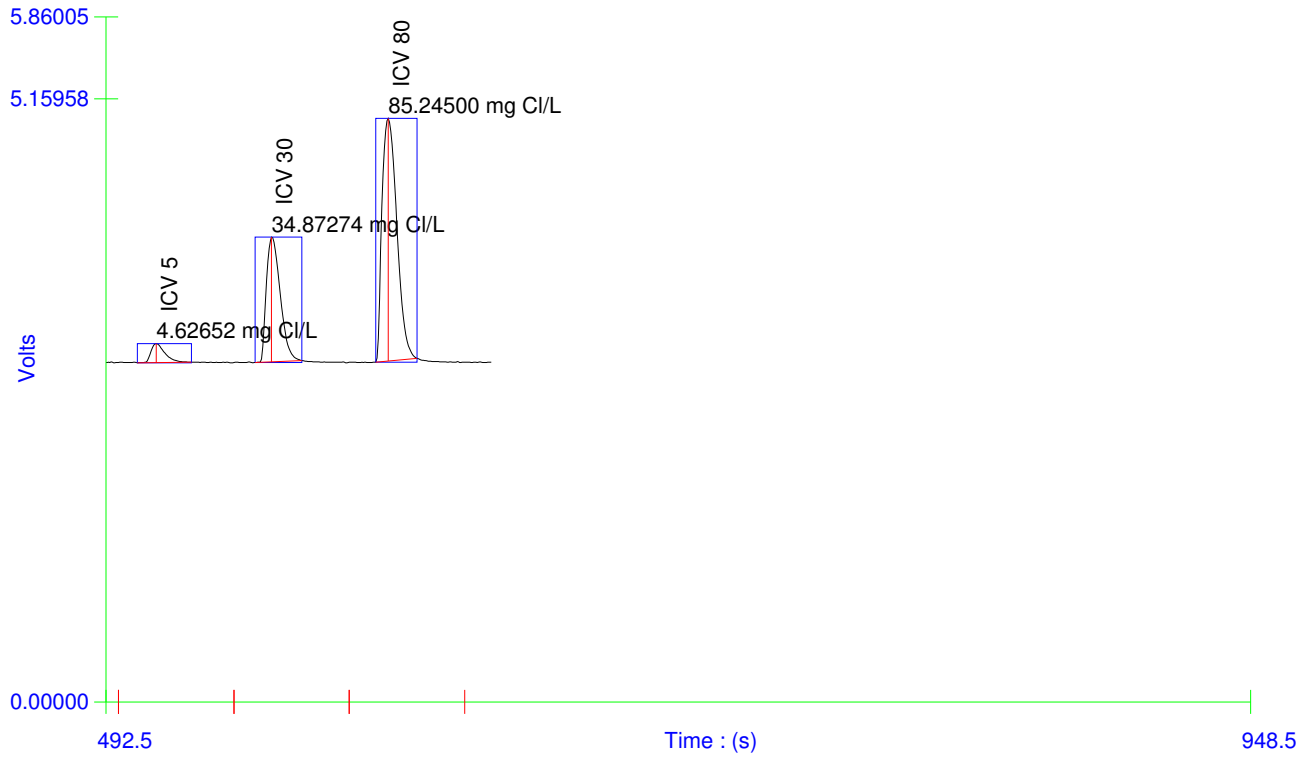
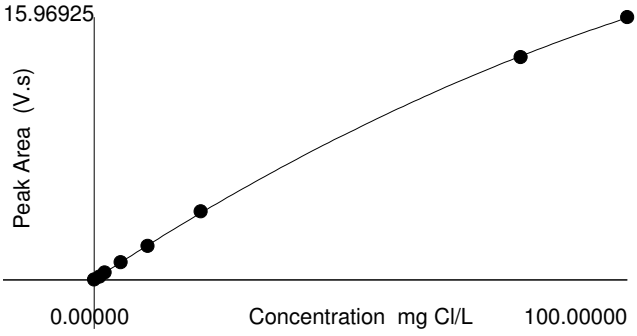


Table : 1 (Chloride-CH3)

	Known Conc. (mg Cl/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg Cl/L)	Detection Date	Detection Time
1	100.00000	1	15.96925	2.24514	0.0	-0.2	99.66056	3/10/2025	1:35:48 PM
2	80.00000	1	13.54304	1.98743	0.0	0.5	80.48557	3/10/2025	1:36:34 PM
3	20.00000	1	4.15592	0.65599	0.0	-2.2	19.99320	3/10/2025	1:37:20 PM
4	10.00000	1	2.05801	0.32667	0.0	2.1	9.44973	3/10/2025	1:38:06 PM
5	5.00000	1	1.08536	0.17347	0.0	-0.6	4.93040	3/10/2025	1:38:53 PM
6	2.00000	1	0.45496	0.06524	0.0	-0.7	2.12607	3/10/2025	1:39:40 PM
7	1.00000	1	0.21212	0.03123	0.0	11.9	1.07200	3/10/2025	1:40:27 PM
8	0.00000	1	0.02798	0.00322			0.28245	3/10/2025	1:41:12 PM

Figure : 1 (Chloride-CH3)



Area = - 0.00054 * Conc^2 + 0.21265 * Conc + 0.02856
Conc = 0.12351 * Area^2 + 4.25821 * Area + 0.16320
Correlation Coefficient (r) = 0.99997

Weighting : None

Author: Date : 3/10/2025

Original Run Filename: OM_3-10-2025_01-49-14PM.OMN Created: 3/10/2025 1:49:14 PM
Original Run Author's Signature: [a1wetcheminstrument]
Current Run Filename: OM_3-10-2025_01-49-14PM.OMN Last Modified: 3/10/2025 3:47:00 PM
Current Run Author's Signature: [a1wetcheminstrument]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 Chloride-CH3 (mg Cl/L)	ADF	MDF	Weight	
CCV	1	S3	19.49030				
	Known Conc:		20.00000				
	Calibration:		Table/Fig. : 1				
CCB	1	S9	0.34527				
	Known Conc:		0.00000				
ICV 5	1	1	4.65690				93%
ICV 30	1	2	29.06391				97%
ICV 80	1	3	87.13623				109%
ICB	1	4	0.47302				
100 PPM	1	5	112.95445	10.00			
WG2038586-1	1	6	0.29795				
WG2038586-2	1	7	28.51741				95%
100 PPM	1	5	93.92395	10.00			94%
WG2038587/91-1	1	8	0.25487				
WG2038587/91-2	1	9	28.01378				93%
CCV	1	S3	19.72502				
	Known Conc:		20.00000				
CCB	1	S9	0.30681				
	Known Conc:		0.00000				
WG2038588-1	1	10	0.28175				
WG2038588-2	1	11	28.47902				95%
L2512211-01	1	12	75.02927				
L2512325-01	1	13	20.54533				
L2512325-02	1	14	13.35623				
WG2038586-3	1	15	13.64002				
WG2038586-4	1	16	33.47472				
L2512325-03	1	17	3.17936				
L2512325-04	1	18	18.25417				
L2512325-05	1	19	25.12484	10.00			
CCV	1	S3	19.97446				
	Known Conc:		20.00000				
CCB	1	S9	0.29537				
	Known Conc:		0.00000				
L2512325-06	1	20	16.60983				
L2512325-07	1	21	11.92675				
L2512325-08	1	22	28.85244				
L2512325-09	1	23	13.25386				
L2512368-01	1	24	17.35587				
L2512368-02	1	25	25.68924				
L2512368-04	1	26	15.05875				
L2512368-05	1	27	26.49604				
L2512368-07	1	28	21.08410				
L2512368-08	1	29	19.02737	10.00			
CCV	1	S3	19.29315				
	Known Conc:		20.00000				
CCB	1	S9	0.33487				
	Known Conc:		0.00000				
L2512368-11	1	30	8.93344				
L2512368-13	1	31	20.38471				
L2512368-14	1	32	9.46422				
L2512368-16	1	33	17.43419				
L2512368-10	1	34	22.11875				
WG2038587-3	1	35	22.18250				
WG2038587-4	1	36	41.27805				
L2512368-17	1	37	30.37080				
L2512368-19	1	38	18.23026				
L2512607-01	1	39	62.54364	10.00			
CCV	1	S3	19.72431				

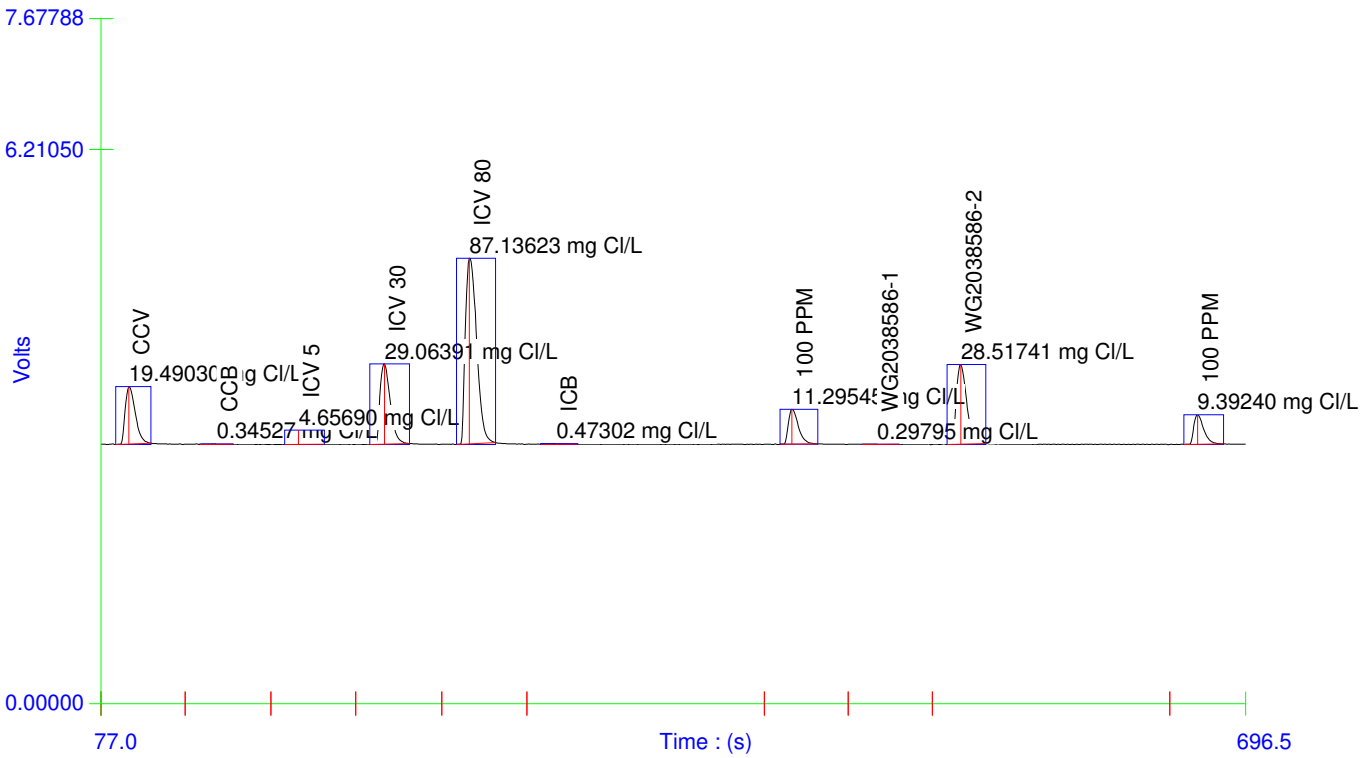
	Known Conc:		20.00000			
CCB	1	S9	0.37187			
	Known Conc:		0.00000			
L2512607-02	1	40	9.81660			
L2512607-03	1	41	89.89074			
L2512607-04	1	42	18.73596			
L2512607-05	1	43	39.88650			
L2512607-06	1	44	0.39565			
L2512628-01	1	45	60.50602			
L2512691-01	1	46	98.84050			
L2512719-01	1	47	5.70050			
L2512722-01	1	48	4.81241			
L2512805-01	1	49	8.89736	10.00		
CCV	1	S3	19.61129			
	Known Conc:		20.00000			
CCB	1	S9	0.33806			
	Known Conc:		0.00000			
L2512805-02	1	50	8.52155			
L2512805-03	1	51	52.81780			
L2512805-04	1	52	20.99358			
L2513057-01	1	53	158.26495			
L2513065-04	1	54	41.27007			
WG2038591-3	1	55	40.62307			
WG2038591-4	1	56	58.90486			
L2512537-01	1	57	186.39691			
L2512537-02	1	58	148.47467			
L2512537-03	1	59	295.42386	10.00		
CCV	1	S3	19.52503			
	Known Conc:		20.00000			
CCB	1	S9	0.28138			
	Known Conc:		0.00000			
L2512537-04	1	60	168.05667	10.00		
L2512537-05	1	61	313.05109	10.00		
L2512537-06	1	62	18.09588	10.00		
L2512537-07	1	63	293.08731	10.00		
L2512537-08	1	64	6.03152	10.00		
L2512537-10	1	65	7.87554	10.00		
L2512537-11	1	66	1137.67761	10.00		
L2512537-12	1	67	245.98703	10.00		
L2512537-13	1	68	527.60291	10.00		
L2512537-14	1	69	34.02346	10.00		
CCV	1	S3	19.79565			
	Known Conc:		20.00000			
CCB	1	S9	0.24566			
	Known Conc:		0.00000			
L2512537-15	1	70	279.77924	10.00		
L2512537-16	1	71	265.34833	10.00		
WG2038588-5	1	72	259.86627	10.00		
WG2038588-6	1	73	274.23730	10.00		
L2512575-01	1	74	175.11519			
WG2038588-3	1	75	174.62100			
WG2038588-4	1	76	255.57358	10.00		
L2512575-02	1	77	232.78658	10.00		
L2513065-01	1	78	8.44184			
L2513065-02	1	79	50.51891	10.00		
CCV	1	S3	19.60471			
	Known Conc:		20.00000			
CCB	1	S9	0.31496			
	Known Conc:		0.00000			
L2513065-03	1	80	55.86851			
WG2038585-1	1	81	4.82065			0.10064 g
WG2038585-2	1	82	378.08371			0.10175 g
L2512249-01	1	83	9.92988			0.10069 g
WG2038585-3	1	84	7.27763			0.10122 g
WG2038585-4	1	85	380.85968			0.10066 g
L2512325-05	1	19	26.96771			
L2512368-08	1	29	19.73096			
L2512607-01	1	39	65.87840			

96%

Author: Date : 3/10/2025

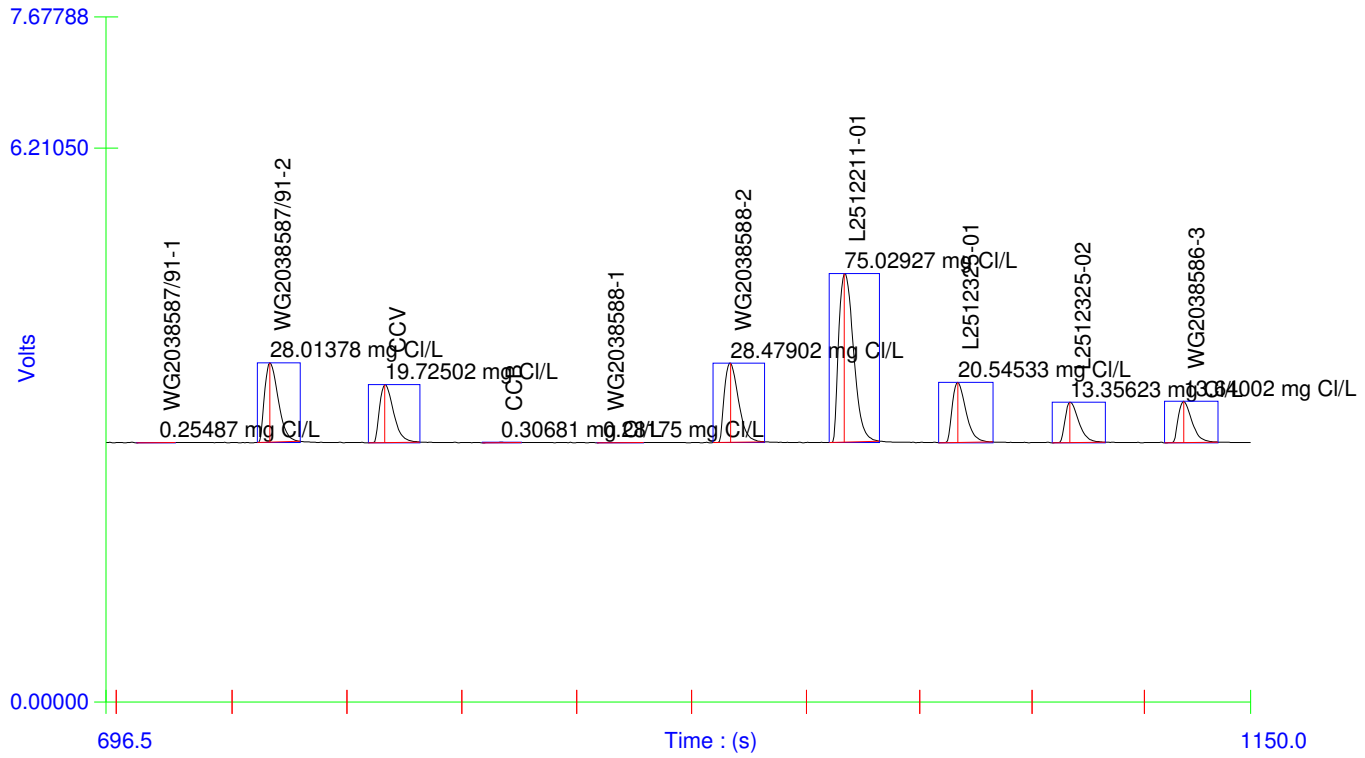
L2512691-01	1	46	97.50237			
CCV	1	S3	20.24296			
	Known Conc:		20.00000			

Channel 1 (Chloride) - Set: 1 / 11

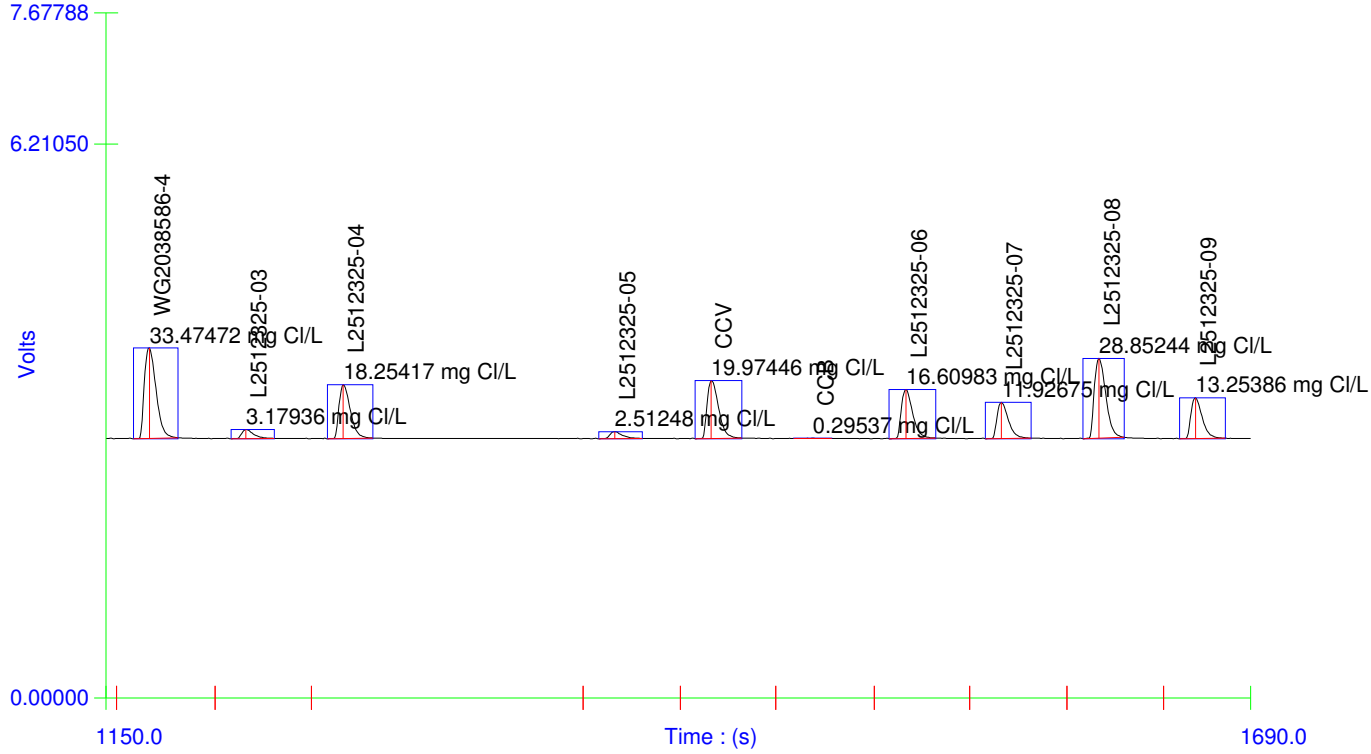


Author: Date : 3/10/2025

Channel 1 (Chloride) - Set: 2 / 11

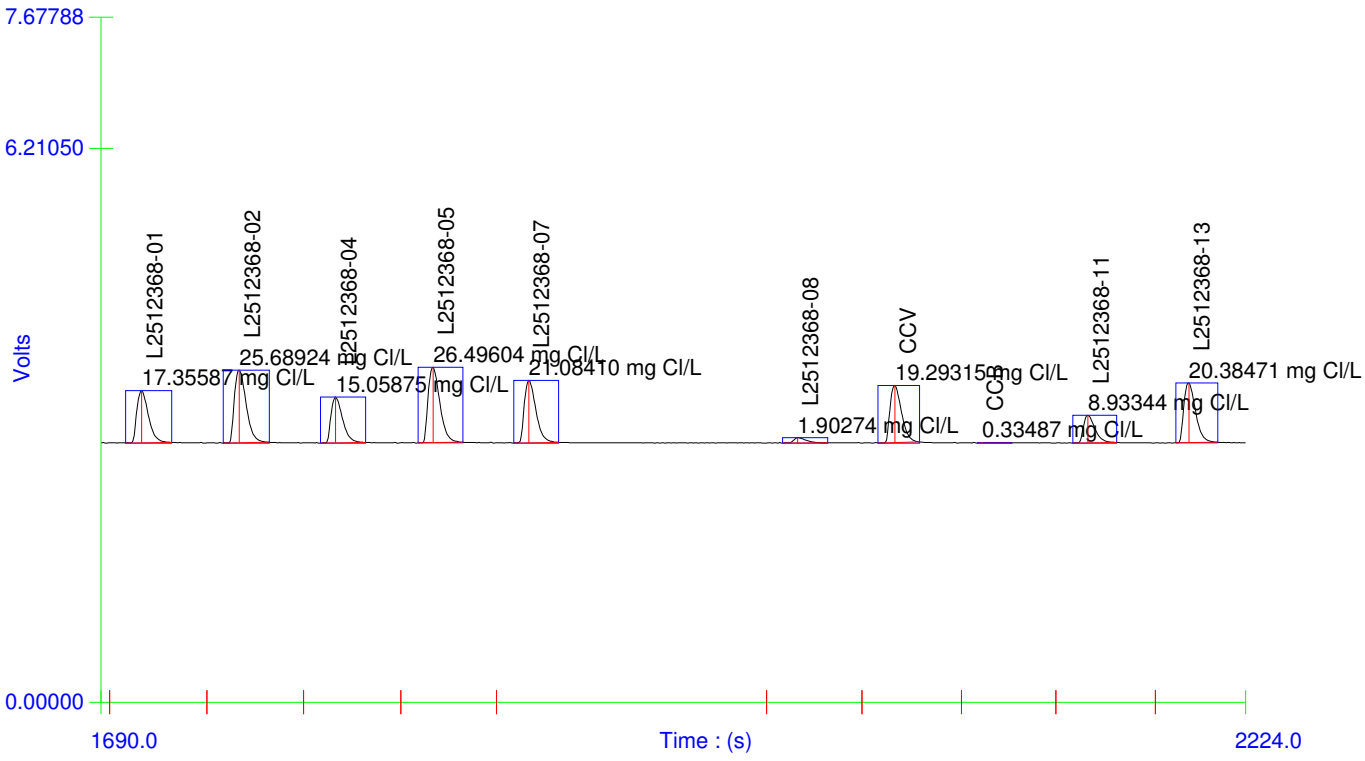


Channel 1 (Chloride) - Set: 3 / 11



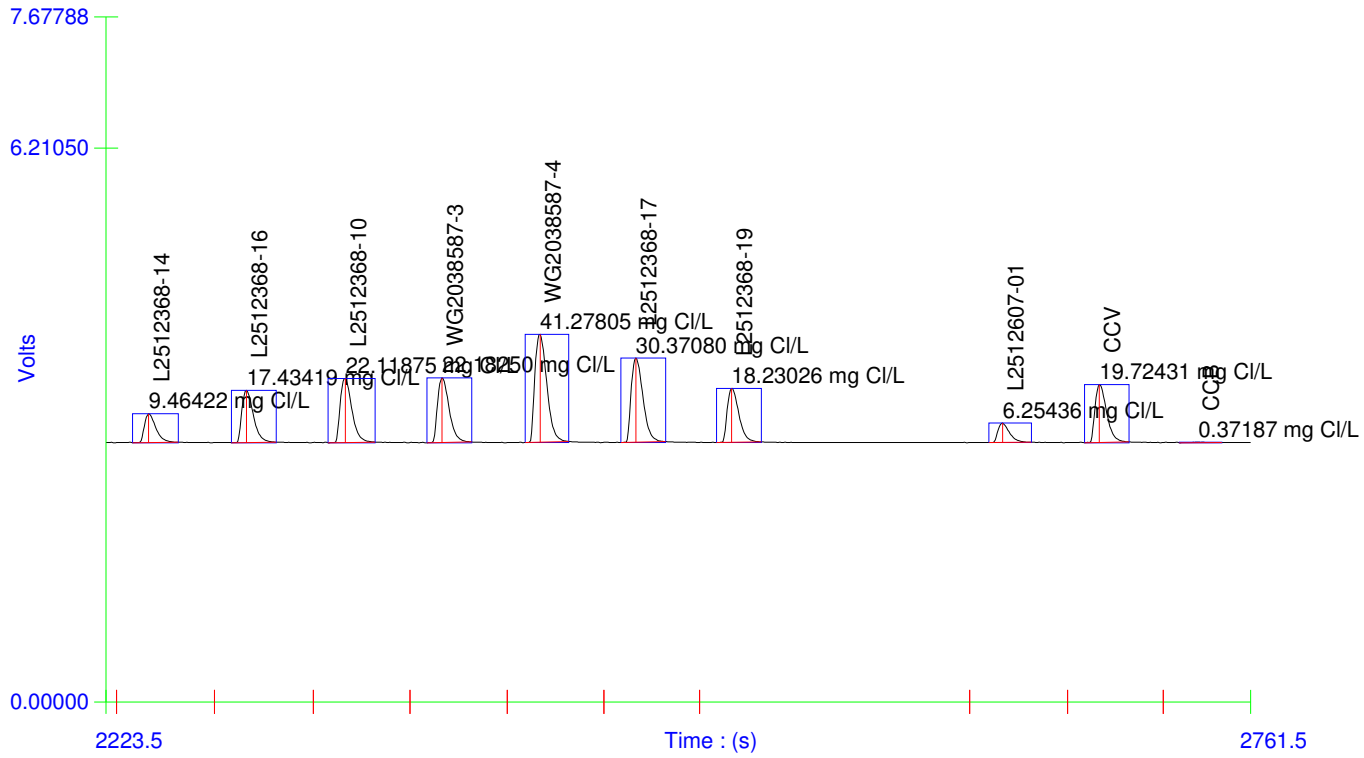
Author: Date : 3/10/2025

Channel 1 (Chloride) - Set: 4 / 11

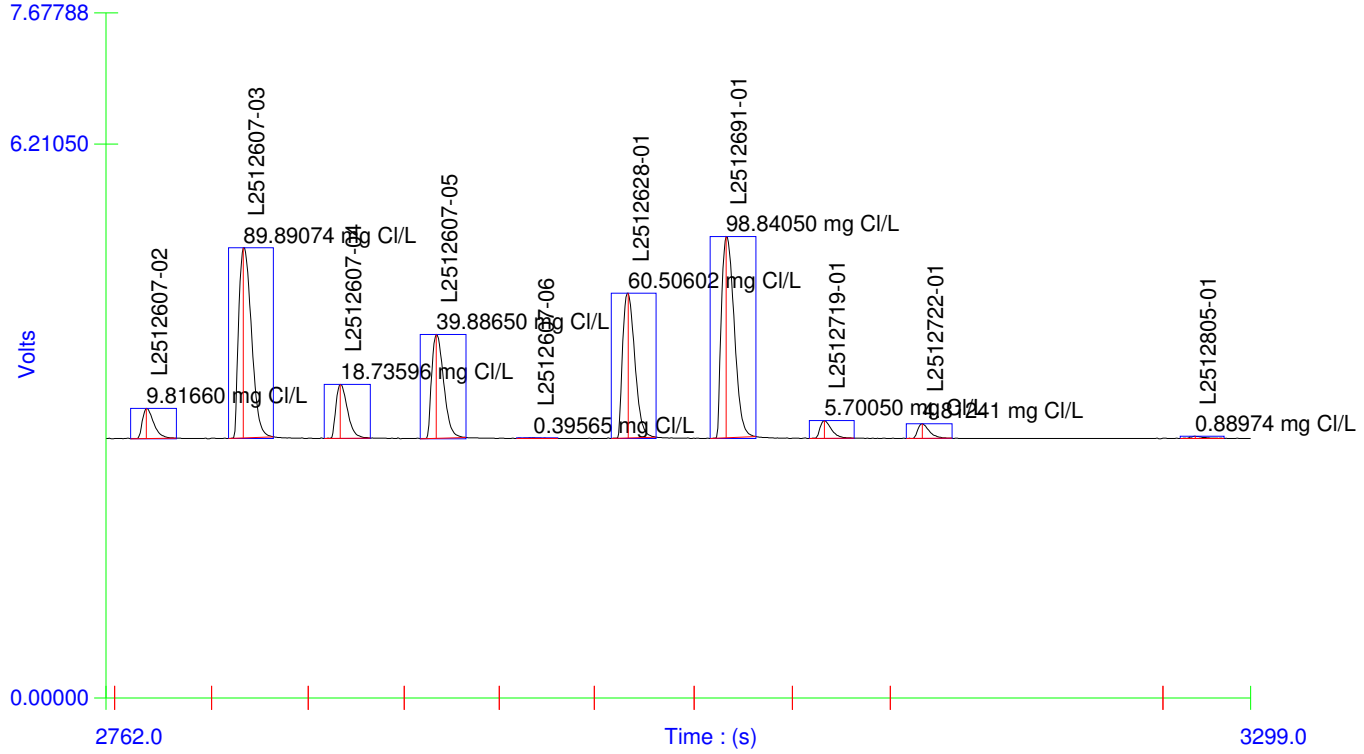


Author: Date : 3/10/2025

Channel 1 (Chloride) - Set: 5 / 11

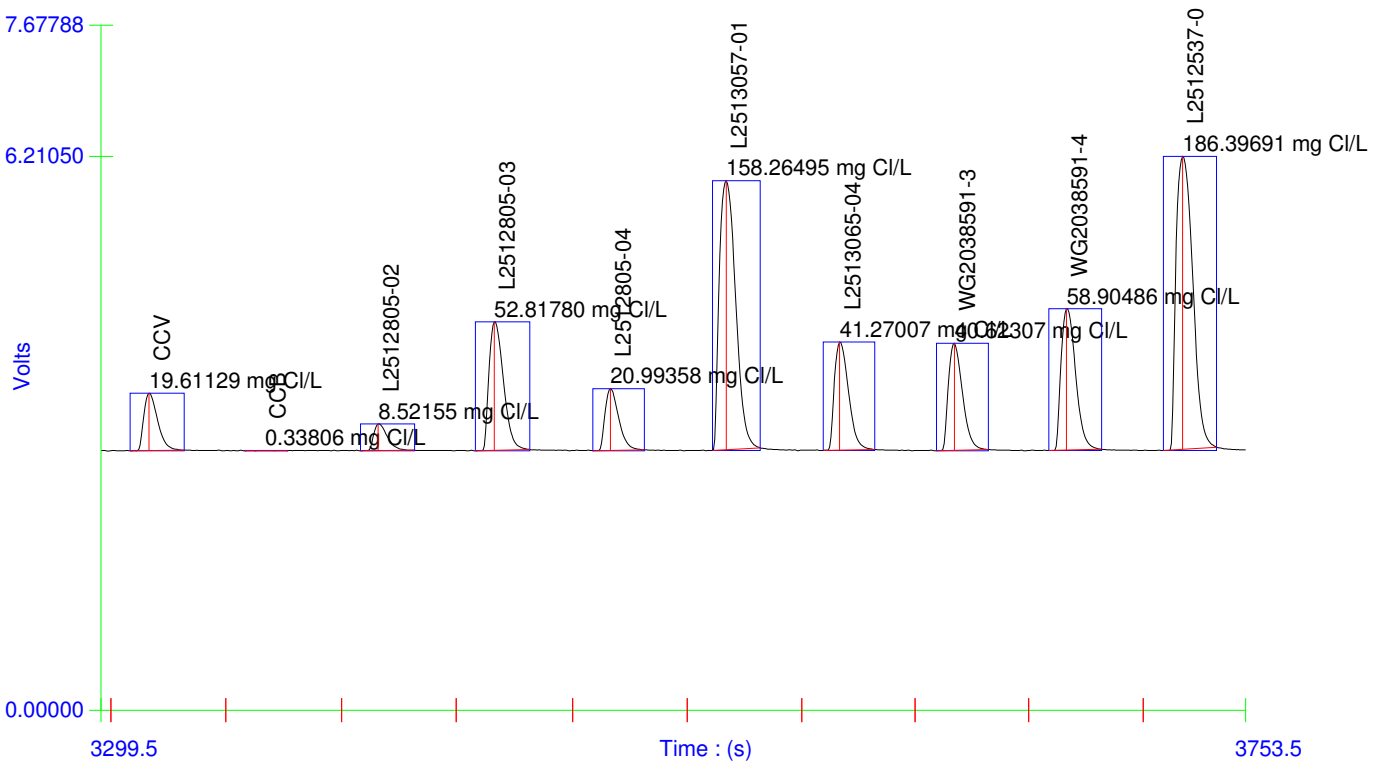


Channel 1 (Chloride) - Set: 6 / 11



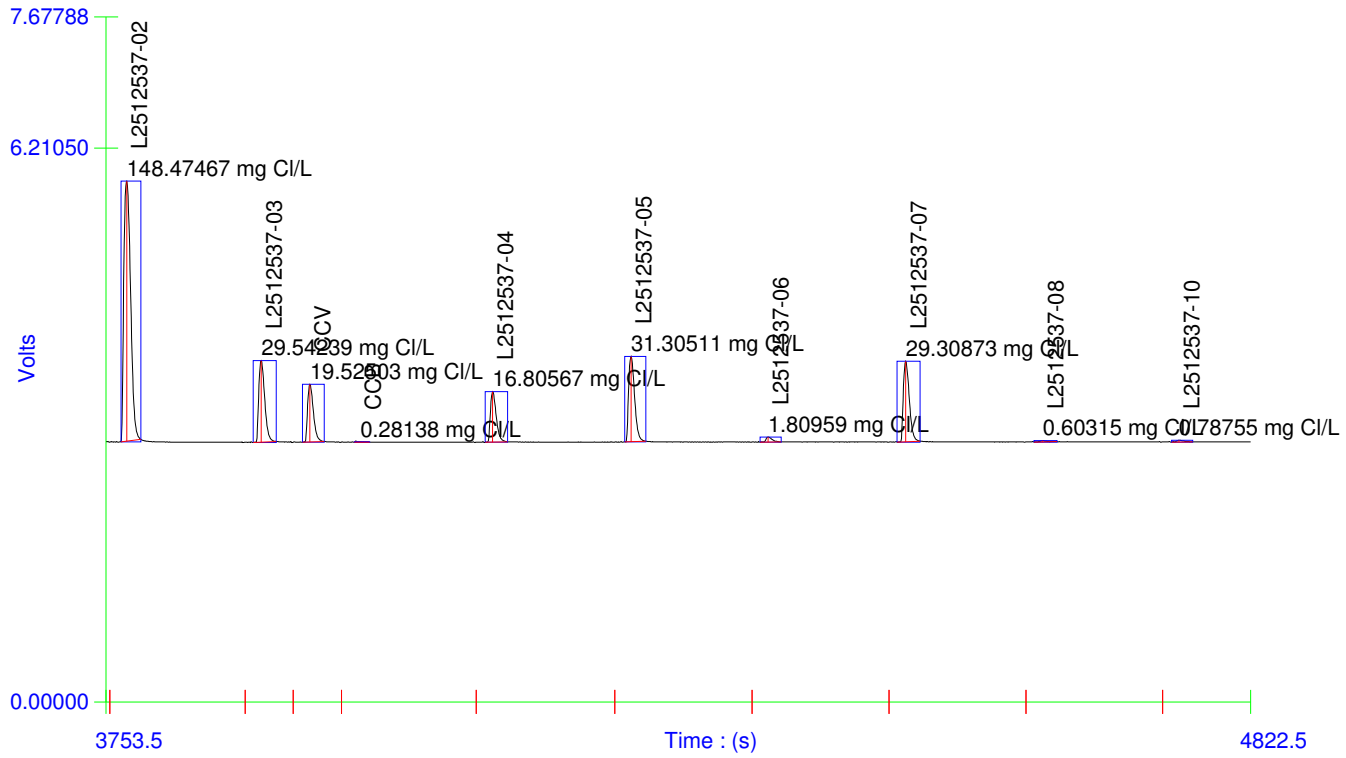
Author: Date : 3/10/2025

Channel 1 (Chloride) - Set: 7 / 11

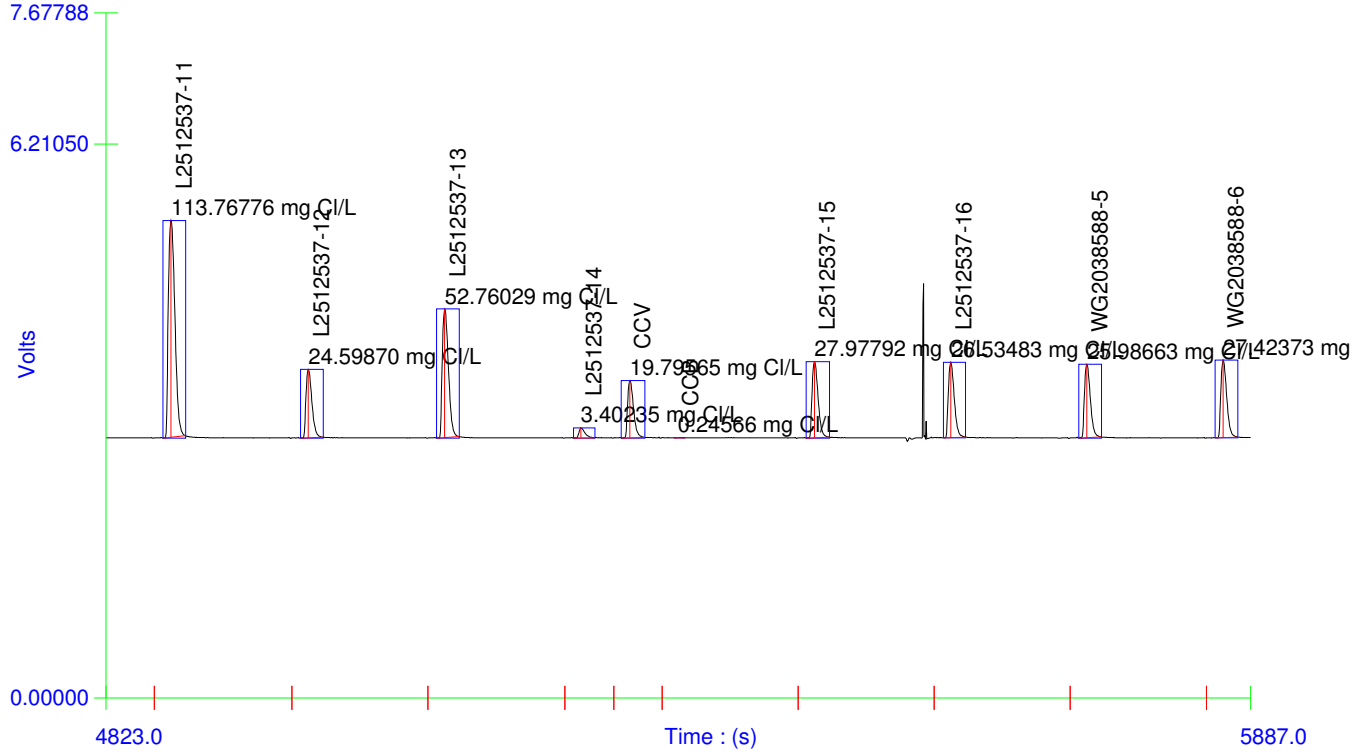


Author: Date : 3/10/2025

Channel 1 (Chloride) - Set: 8 / 11

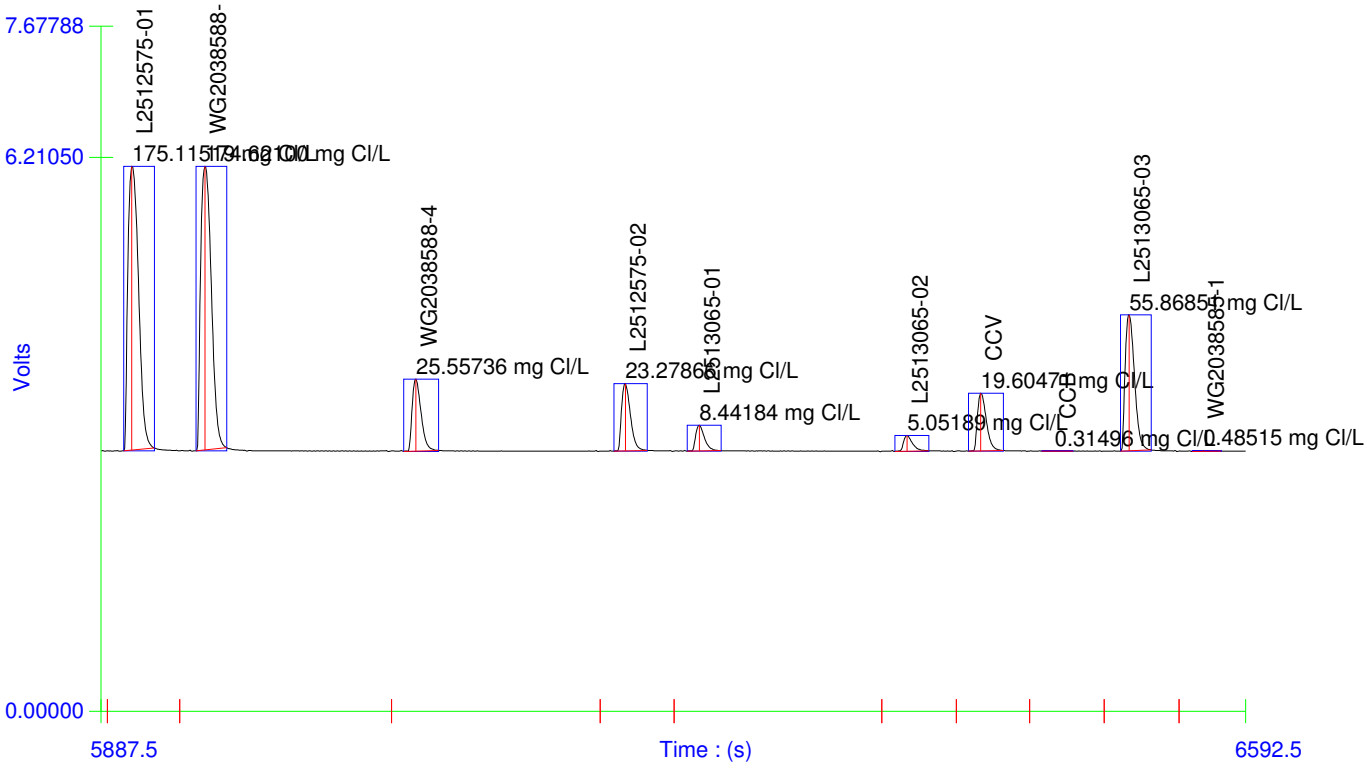


Channel 1 (Chloride) - Set: 9 / 11



Author: Date : 3/10/2025

Channel 1 (Chloride) - Set: 10 / 11



Author: Date : 3/10/2025

Channel 1 (Chloride) - Set: 11 / 11

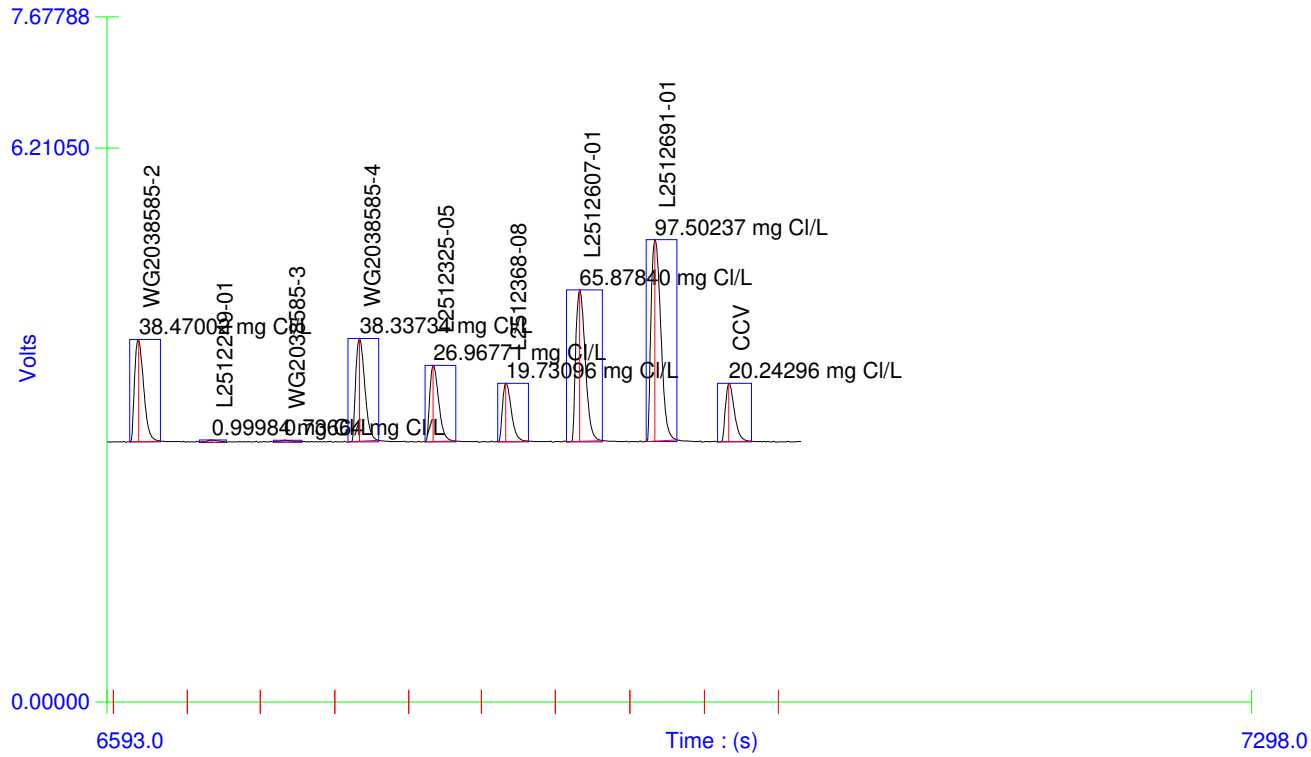
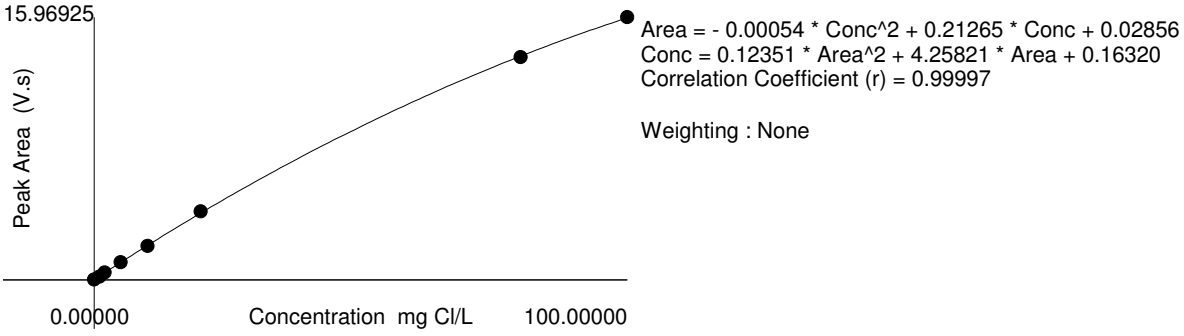


Table : 1 (Chloride-CH3)

	Known Conc. (mg Cl/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg Cl/L)	Detection Date	Detection Time
1	100.00000	1	15.96925	2.24514	0.0	-0.2	99.66056	3/10/2025	1:35:48 PM
2	80.00000	1	13.54304	1.98743	0.0	0.5	80.48557	3/10/2025	1:36:34 PM
3	20.00000	1	4.15592	0.65599	0.0	-2.2	19.99320	3/10/2025	1:37:20 PM
4	10.00000	1	2.05801	0.32667	0.0	2.1	9.44973	3/10/2025	1:38:06 PM
5	5.00000	1	1.08536	0.17347	0.0	-0.6	4.93040	3/10/2025	1:38:53 PM
6	2.00000	1	0.45496	0.06524	0.0	-0.7	2.12607	3/10/2025	1:39:40 PM
7	1.00000	1	0.21212	0.03123	0.0	11.9	1.07200	3/10/2025	1:40:27 PM
8	0.00000	1	0.02798	0.00322			0.28245	3/10/2025	1:41:12 PM

Figure : 1 (Chloride-CH3)



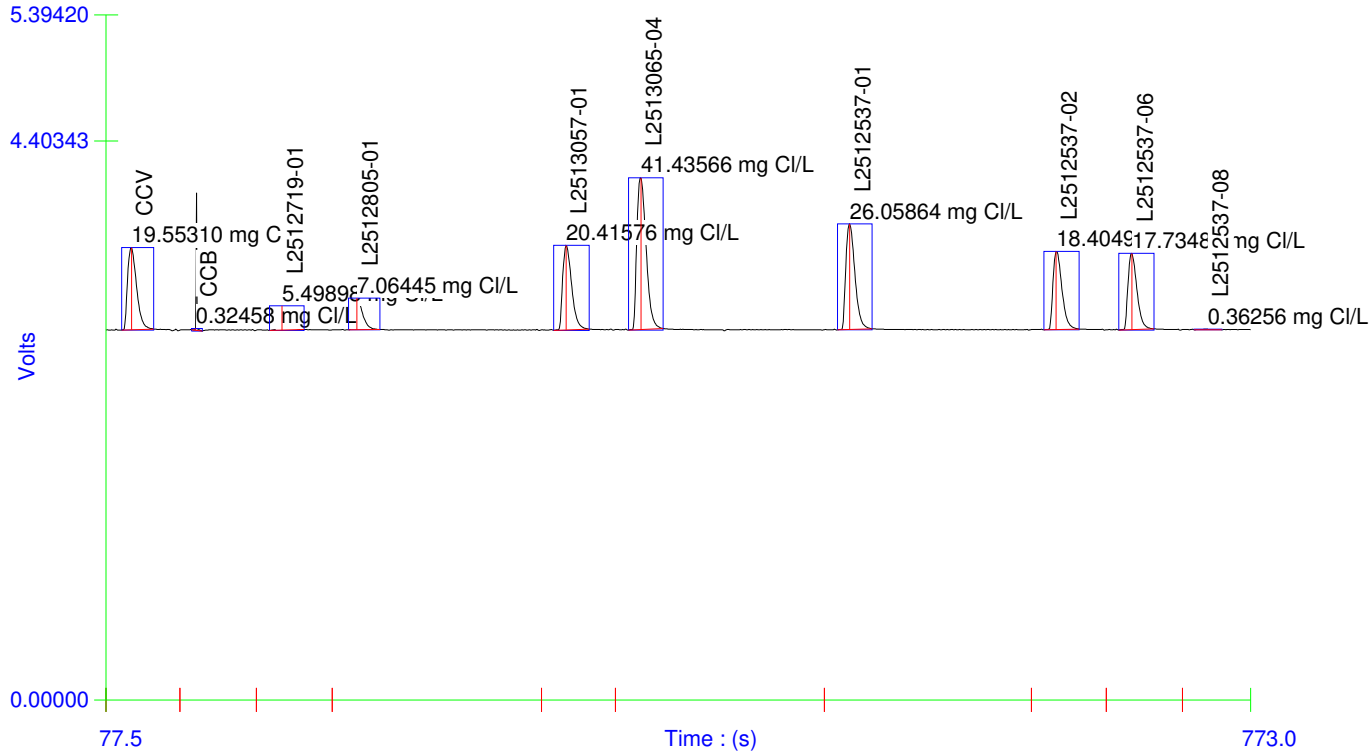
Author: Date : 3/10/2025

Original Run Filename: OM_3-10-2025_03-48-34PM.OMN Created: 3/10/2025 3:48:34 PM
Original Run Author's Signature: [a1wetcheminstrument]
Current Run Filename: OM_3-10-2025_03-48-34PM.OMN Last Modified: 3/10/2025 4:16:34 PM
Current Run Author's Signature: [a1wetcheminstrument]
Description: Default New Run

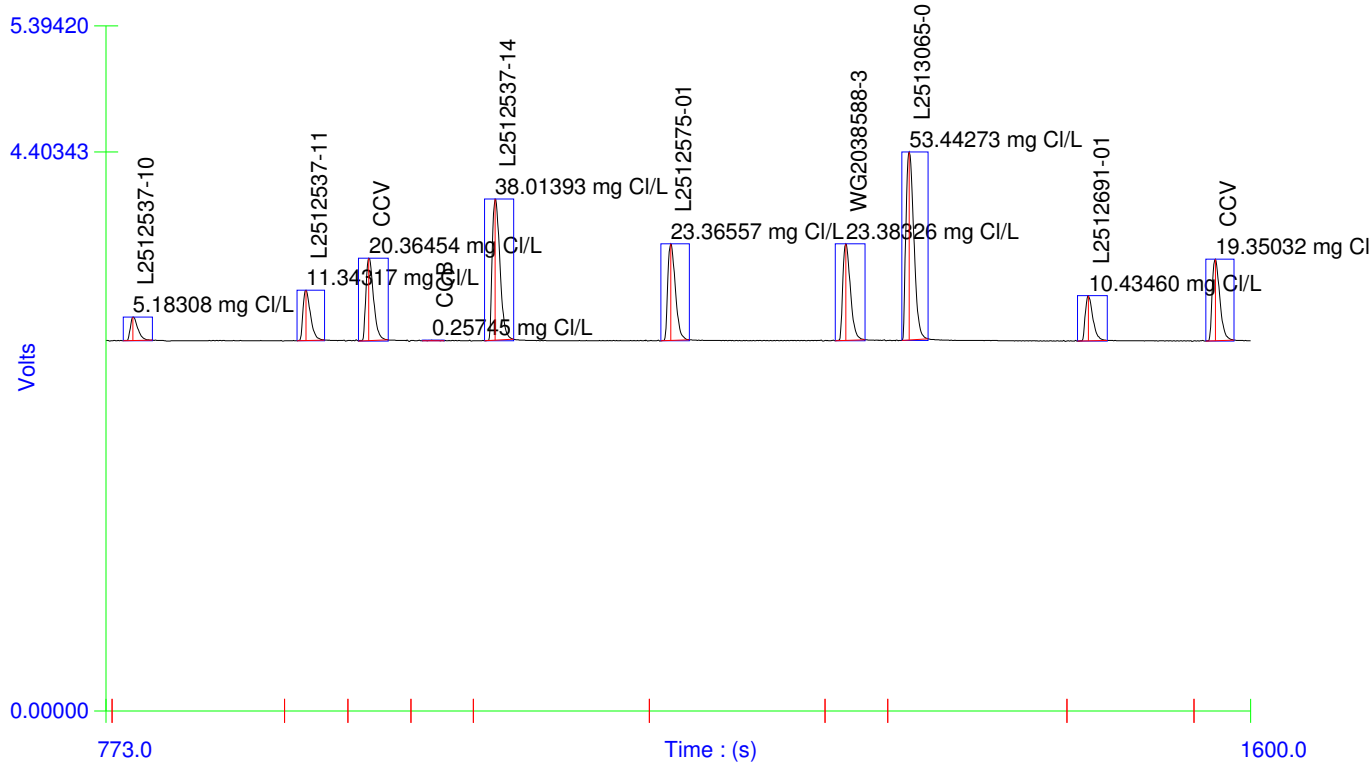
Sample	Rep.	Cup No.	Channel 1 Chloride-CH3 (mg Cl/L)	ADF	MDF	Weight
CCV	1	S3	19.55310			
	Known Conc:		20.00000			
CCB	1	S9	0.32458			
	Known Conc:		0.00000			
	Calibration:		Table/Fig. : 1			
L2512719-01	1	47	5.49898			
L2512805-01	1	49	7.06445			
L2513057-01	1	53	204.15756	10.00		
L2513065-04	1	54	41.43566			
L2512537-01	1	57	260.58640	10.00		
L2512537-02	1	58	184.04930	10.00		
L2512537-06	1	62	17.73482			
L2512537-08	1	64	0.36256			
L2512537-10	1	65	5.18308			
L2512537-11	1	66	1134.31677	100.00		
CCV	1	S3	20.36454			
	Known Conc:		20.00000			
CCB	1	S9	0.25745			
	Known Conc:		0.00000			
L2512537-14	1	69	38.01393			
L2512575-01	1	74	233.65573	10.00		
WG2038588-3	1	75	233.83264	10.00		
L2513065-02	1	79	53.44273			
L2512691-01	1	46	104.34604	10.00		
CCV	1	S3	19.35032			
	Known Conc:		20.00000			
CCB	1	S9	0.38501			
	Known Conc:		0.00000			

Author: Date : 3/10/2025

Channel 1 (Chloride) - Set: 1 / 3



Channel 1 (Chloride) - Set: 2 / 3



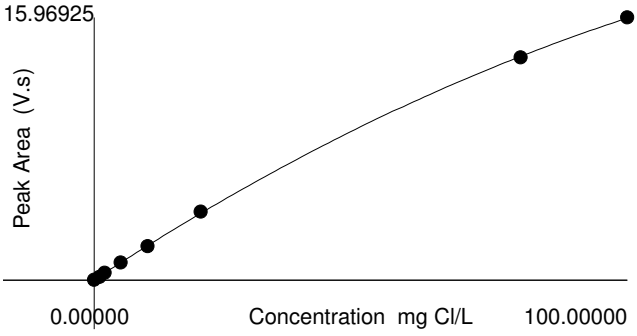
Author: Date : 3/10/2025

Channel 1 (Chloride) - Set: 3 / 3

Table : 1 (Chloride-CH3)

	Known Conc. (mg Cl/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg Cl/L)	Detection Date	Detection Time
1	100.00000	1	15.96925	2.24514	0.0	-0.2	99.66056	3/10/2025	1:35:48 PM
2	80.00000	1	13.54304	1.98743	0.0	0.5	80.48557	3/10/2025	1:36:34 PM
3	20.00000	1	4.15592	0.65599	0.0	-2.2	19.99320	3/10/2025	1:37:20 PM
4	10.00000	1	2.05801	0.32667	0.0	2.1	9.44973	3/10/2025	1:38:06 PM
5	5.00000	1	1.08536	0.17347	0.0	-0.6	4.93040	3/10/2025	1:38:53 PM
6	2.00000	1	0.45496	0.06524	0.0	-0.7	2.12607	3/10/2025	1:39:40 PM
7	1.00000	1	0.21212	0.03123	0.0	11.9	1.07200	3/10/2025	1:40:27 PM
8	0.00000	1	0.02798	0.00322			0.28245	3/10/2025	1:41:12 PM

Figure : 1 (Chloride-CH3)



Area = - 0.00054 * Conc^2 + 0.21265 * Conc + 0.02856
Conc = 0.12351 * Area^2 + 4.25821 * Area + 0.16320
Correlation Coefficient (r) = 0.99997

Weighting : None

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2512368-10		
Matrix Spike	: WG2038587-4	**MS Analysis Date**	: 03/10/25 14:29
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Chloride	22.	20	41.	95					58-140	7

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 03/10/25 14:28
Dup Sample ID	: WG2038587-3	**DUP Analysis Date**	: 03/10/25 14:28

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Chloride	22	22.	0	7

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2038587-2	**LCS Analysis Date**	: 03/10/25 14:01
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Chloride	30.0	28.0	93.					90-110	7

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Chloride	16887-00-6	1	0.2	mg/l	90-110		58-140	7	7	4500CL-E	28 days	1 - Plastic 250ml unpreserved

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

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Chloride	16887-00-6	10	3.73	mg/kg	89-109	35	62-129	35	35	9251	28 days	1 - Glass 250ml/8oz unpreserved
Chloride	16887-00-6	10	3.73	mg/kg	90-110	35	62-129	35	35	4500CL-E	28 days	1 - Glass 250ml/8oz unpreserved

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

Calculations of Chloride

Aqueous samples:

Compute sample Chloride concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

Calculate results by using reading on Channel 2 (Chloride)

To compute the final results for aqueous samples, multiply the direct reading by the dilution factor. (also done using software)

Cl mg/L = mg/L direct reading x dilution factor

Sequence Logs

From Page No. ____

1 ECU 5
2 30
3 80
4 FCB
5 100 ppm 100
6 WCN 20385586-1 BLK
7 -2 LCS
8 WCN 20385587/91-1 BLK
9 -2 LCS
10 WCN 20385588-1 BLK
11 -2 LCS
12 12241-01
13 12325-01
14 -02
15 WCN 20385580-3 DUP
16 -4 MS
17 12325-03
18 -04
19 -05
20 -06
21 -07
22 -08
23 -09
24 12368-01
25 -02
26 -04
27 -05
28 -07
29 -08
30 -11
31 -13
32 -14
33 -16
34 -10
35 WCN 20385587-3 DUP
36 -4 MS
37 12368-17
38 12368-19
39 12607-01
40 -02
41 -03
42 -04
43 -05
44 -06 FB
45 12628-01
46 12691-01
47 12719-01
48 12722-01
49 12805-01
50 -02
51 -03
52 -04
53 13057-01
54 13065-04
55 WCN 20385591-3 DUP
56 -4 MS
57 12537-01
58 -02
59 -03
60 -04
61 -05
62 -06
63 -07
64 -08 FB
65 -10
66 -11
67 -12
68 -13
69 -14
70 -15
71 -16
72 WCN 20385588-5
73 -6
74 12575-01
75 WCN 20385588-3 DUP
76 WCN 20385588-4 MS
77 12575-03
78 13065-01
79 -02
80 -03
81 WCN 20385585-1 BLK .1000
82 -2 LCS .1017
83 12249-01 .10069
84 WCN 20385585-3 DUP .10123
85 -4 MS .1006

To Page No. ____

Witnessed & Understood by me, Date Invented by: Date

Recorded by:

Fluoride Analysis

Results

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-01	**Date Collected**	:	03/06/25 10:30
Client ID	:	MW-4S	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/09/25 07:12
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500F-BC	**Analyst**	:	DTH
Lab File ID	:	WG2038214.csv	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	03/09/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.03	0.20	0.01	J

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-02	**Date Collected**	:	03/06/25 10:24
Client ID	:	MW-4D2	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/09/25 07:12
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500F-BC	**Analyst**	:	DTH
Lab File ID	:	WG2038214.csv	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	03/09/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.05	0.20	0.01	J

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-03	**Date Collected**	:	03/06/25 09:13
Client ID	:	MW-12S	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/09/25 07:12
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500F-BC	**Analyst**	:	DTH
Lab File ID	:	WG2038214.csv	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	03/09/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.03	0.20	0.01	J

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-04	**Date Collected**	:	03/06/25 08:46
Client ID	:	MW-12D	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/09/25 07:12
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500F-BC	**Analyst**	:	DTH
Lab File ID	:	WG2038214.csv	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	03/09/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.04	0.20	0.01	J

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-05	**Date Collected**	:	03/06/25 11:51
Client ID	:	SCDOH_DR	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/09/25 07:12
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500F-BC	**Analyst**	:	DTH
Lab File ID	:	WG2038214.csv	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	03/09/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.03	0.20	0.01	J

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2512607
Project Name	:	CORAM MATERIALS	Project Number	:	2232.0006Y005
Lab ID	:	L2512607-06	Date Collected	:	03/06/25 12:00
Client ID	:	EQUIPMENT BLANK	Date Received	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	:	03/11/25 07:07
Sample Matrix	:	Equipment Blank	Dilution Factor	:	1
Analytical Method	:	121,4500F-BC	Analyst	:	DTH
Lab File ID	:	WG2038422.csv	Instrument ID	:	
Sample Amount	:		%Solids	:	N/A
Digestion Method	:		Date Digested	:	03/11/25

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
16984-48-8	Fluoride	ND	0.20	0.01	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2038214-1	**Date Collected**	: NA
Client ID	: WG2038214-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/09/25 07:12
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG2038214.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 03/09/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	ND	0.20	0.01	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2038214-3	**Date Collected**	: 03/05/25 09:15
Client ID	: WG2038214-3 DUP	**Date Received**	: 03/05/25
Sample Location	:	**Date Analyzed**	: 03/09/25 07:12
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG2038214.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 03/09/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.06	0.20	0.02	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2038422-1	**Date Collected**	: NA
Client ID	: WG2038422-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/11/25 07:07
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG2038422.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 03/11/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	ND	0.20	0.01	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2038422-3	**Date Collected**	: 03/05/25 16:20
Client ID	: WG2038422-3 DUP	**Date Received**	: 03/05/25
Sample Location	:	**Date Analyzed**	: 03/11/25 07:07
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG2038422.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 03/11/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.04	0.20	0.02	J

Sample Raw Data

PACE ANALYTICAL LABS

WET CHEMISTRY DEPARTMENT

F L U O R I D E

Last Change 03/4/13
File Flouride.xlt

Sample Number: _____

Client: _____

Product: F-4500
Analysis Analyte: Fluoride,
Analysis: FLUORIDE
Analysis Date: 3/11/2025 7:07
Method: SM 4500F-BC
Technician: DTH
LCS Concentration (mg/l): 2
Work group: WG2038422
Spike Concentration (mg/l): 1
RL: 0.20 mg/L
Distillation Date: 3/11/2025 0:55

Standard ID mg/L	Log Std-d	Reading mV	Result, Curve	Antilog Result	% Recovery	Calibration Curve	
						Slope	y-intercept
0.2	-0.699	125.1	-0.712	0.1942	97	-59.0394389	83.075
0.5	-0.301	100.3	-0.292	0.5108	102		
1.0	0.000	82.5	0.010	1.0227	102	Correlation	Coefficient
10	1.000	24.4	0.994	9.859	99	0.99987889	

	Sample number	Sample Volume (ml)	Distill Volume (ml)	Flask	Reagent	Dilution Factor	Meter Reading	RL Multiplier	FINAL RESULT (mg/l)	
	ICB	50	50		YES	1.00	0	1.00	0.00	Recovery
	ICV	50	50		YES	1.00	0.972	1.00	0.97	97%
SAMP	L2512368-07	50	50		YES	1.00	0.0971	1.00	0.10	
SAMP	L2512368-10	50	50		YES	1.00	0.0332	1.00	0.03	
SAMP	L2512368-11	50	50		YES	1.00	0.0813	1.00	0.08	
SAMP	L2512368-13	50	50		YES	1.00	0.028	1.00	0.03	
SAMP	L2512368-14	50	50		YES	1.00	0.0799	1.00	0.08	
SAMP	L2512368-16	50	50		YES	1.00	0.0267	1.00	0.03	
SAMP	L2512368-17	50	50		YES	1.00	0.0497	1.00	0.05	
SAMP	L2512368-19	50	50		YES	1.00	0.0289	1.00	0.03	
SAMP	L2512607-06	50	50		YES	1.00	0.0105	1.00	0.01	
	L2512712-01	50	50		YES	1.00	0.224	1.00	0.22	
	CCV	50	50		YES	1.00	0.961	1.00	0.96	
	CCB	50	50		YES	1.00	0	1.00	0.00	
	CCV	50	50		YES	1.00	0.968	1.00	0.97	
	CCB	50	50		YES	1.00	0	1.00	0.00	
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
BLANK	WG2038422-1	50	50		YES	1.00	0	1.00	0.00	
DUP	WG2038422-3	50	50		YES	1.00	0.0365	1.00	0.04	L2512368-10

	Sample number	sample volume	Distill volume (ml)	Flask	Reagent	Sample Result mg/l	Meter Reading	Spike conc. mg/l	Spike Result mg/l	Recovery %
MS	WG2038422-4	50	50		YES	.03	0.987	1	0.99	96
LCS	WG2038422-2	5	50		YES		1.83	2	1.83	92

last sample

PACE ANALYTICAL LABS

WET CHEMISTRY DEPARTMENT

F L U O R I D E

Last Change 03/4/13
File Flouride.xlt

Sample Number: _____

Client: _____

Product: F-4500
Analysis Analyte: Fluoride,
Analysis: FLUORIDE
Analysis Date: 3/9/2025 7:12
Method: SM 4500F-BC
Technician: DTH
LCS Concentration (mg/l): 2
Work group: WG2038214
Spike Concentration (mg/l): 1
RL: 0.20 mg/L
Distillation Date: 3/9/2025 2:55

Standard ID mg/L	Log Std-d	Reading mV	Result, Curve	Antilog Result	% Recovery	Calibration Curve	
						Slope	y-intercept
0.2	-0.699	124.2	-0.702	0.1984	99	-59.4070929	82.475
0.5	-0.301	100	-0.295	0.5070	101		
1.0	0.000	82.6	-0.002	0.9952	100	Correlation	Coefficient
10	1.000	23.1	0.999	9.988	100	0.99998353	

	Sample number	Sample Volume (ml)	Distill Volume (ml)	Flask	Reagent	Dilution Factor	Meter Reading	RL Multiplier	FINAL RESULT (mg/l)	
	ICB	50	50		YES	1.00	0	1.00	0.00	Recovery
	ICV	50	50		YES	1.00	1.03	1.00	1.03	103%
SAMP	L2511937-01	50	50		YES	1.00	0.058	1.00	0.06	
SAMP	L2512325-01	50	50		YES	1.00	0.0772	1.00	0.08	
SAMP	L2512325-02	50	50		YES	1.00	0.0528	1.00	0.05	
SAMP	L2512325-03	50	50		YES	1.00	0.0379	1.00	0.04	
SAMP	L2512325-04	50	50		YES	1.00	0.119	1.00	0.12	
SAMP	L2512325-05	50	50		YES	1.00	0.0385	1.00	0.04	
SAMP	L2512325-06	50	50		YES	1.00	0.0539	1.00	0.05	
SAMP	L2512325-07	50	50		YES	1.00	0.0342	1.00	0.03	
SAMP	L2512325-08	50	50		YES	1.00	0.0283	1.00	0.03	
SAMP	L2512325-09	50	50		YES	1.00	0.0514	1.00	0.05	
SAMP	L2512607-01	50	50		YES	1.00	0.0296	1.00	0.03	
SAMP	L2512607-02	50	50		YES	1.00	0.0497	1.00	0.05	
SAMP	L2512607-03	50	50		YES	1.00	0.0269	1.00	0.03	
SAMP	L2512607-04	50	50		YES	1.00	0.037	1.00	0.04	
SAMP	L2512607-05	50	50		YES	1.00	0.0262	1.00	0.03	
SAMP	L2512847-01	2	50		YES	25.00	0.936	25.00	23.40	
	CCV	50	50		YES	1.00	1.02	1.00	1.02	
	CCB	50	50		YES	1.00	0	1.00	0.00	
	CCV	50	50		YES	1.00	1.02	1.00	1.02	
	CCB	50	50		YES	1.00	0	1.00	0.00	
BLANK	WG2038214-1	50	50		YES	1.00	0	1.00	0.00	
DUP	WG2038214-3	50	50		YES	1.00	0.0556	1.00	0.06	L2512325-02

	Sample number	sample volume	Distill volume (ml)	Flask	Reagent	Sample Result mg/l	Meter Reading	Spike conc. mg/l	Spike Result mg/l	Recovery %
MS	WG2038214-4	50	50		YES	.05	0.973	1	0.97	92
LCS	WG2038214-2	50	50		YES		1.82	2	1.82	91

last sample

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2512325-02		
Matrix Spike	: WG2038214-4	**MS Analysis Date**	: 03/09/25 07:12
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Fluoride	0.05J	1	0.97	97					69-124	13

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2512368-10		
Matrix Spike	: WG2038422-4	**MS Analysis Date**	: 03/11/25 07:07
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Fluoride	0.03J	1	0.99	99					69-124	13

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 03/09/25 07:12
Dup Sample ID	: WG2038214-3	**DUP Analysis Date**	: 03/09/25 07:12

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Fluoride	0.05J	0.06J	NC	13

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 03/11/25 07:07
Dup Sample ID	: WG2038422-3	**DUP Analysis Date**	: 03/11/25 07:07

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Fluoride	0.03J	0.04J	NC	13

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2038214-2	**LCS Analysis Date**	: 03/09/25 07:12
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/l)	(mg/l)		(mg/l)	(mg/l)			Limits	Limit
Fluoride	2.00	1.80	91.					78-120	13

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2038422-2	**LCS Analysis Date**	: 03/11/25 07:07
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/l)	(mg/l)		(mg/l)	(mg/l)			Limits	Limit
Fluoride	2.00	1.80	92.					78-120	13

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Fluoride	16984-48-8	0.2	0.017	mg/l	78-120		69-124	13	13	4500F-BC	28 days	1 - Plastic 500ml unpreserved

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

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Fluoride	16984-48-8	10	1.04	mg/kg	80-120		70-130	20	20	4500F-BC	28 days	1 - Glass 250ml/8oz unpreserved

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

Calculations of Fluoride

When the volume of the distillate is the same as the volume of the sample used, the direct determination of Fluoride concentration is the instrument's result.

However, when analyzing soil samples or high level samples requiring a dilution, the following equations apply:

For liquids:

Fluoride, mg/L = (mg F-/L) X (Volume of Distillate, mL)/ Volume of Sample, mL

For solids:

Fluoride, mg/Kg = (mg F-/L) X (Volume of Distillate, mL)/Weight of Sample, gm

To calculate final result for soil samples based on dry weight, multiply final result on 100 and divide on %TS (in %)

Sample Preparation

Project No. _____

idential Book No. _____ TITLE _____

Page No.

WG 2038422

WG2038422

Analyst: DTH

Date & Time: 3/11/25 7:07

ICV:F 1220024-100 ppm

LCS:F ~~1220024~~-100 ppm

Spike:F ~~1220024~~-100 ppm

Curve:WC- 3567

TISAB III: R- 4322

STD	mV
0.2	125.1
0.5	100.3
1.0	82.5
10.0	24.4

Sample	Volume	Final Volume	Meter
	50m	50mL	
ICV			0.978
ICB			0.0
Blank			0.0
12368-07			~~1.63~~ DTH 3/11/25 0.0971
-10			0.0332
-Dup 10			0.0365
-MS 10			0.987
-11			0.0813
-13			0.0780
-14			0.0799
-16			0.0767
CCV ~~-17~~			0.961
CCB ~~-18~~			0.0
-19			0.0497
-19 3/11/25 DTH			0.0789
12607-01 DTH			0.0105
12712-01			0.224
~~CCV~~			1.83
~~CCB~~ DTH 3/11/25 LCS			~~0.960~~ 0.964 DTH 3/11/25
CCV			0.968
CCB			0.0

To Page No. _____

tnessed & Understood by me. | Date | Invented by: | Date

Recorded by:

Tube	Sample	Volume	Final Volume	Block	Comments
		50mL	5mL	Phenol #2	
1	Blank				DTH 3/11/25 00:5
2	LCS				10mL F(2)2024-100ppm
3	12368-07				
4	-10				
5	-Dup-10				
6	MS 10				0.5mL F(2)2024-100ppm
7	-11				
8	-13				
9	-14				
10	-16				
11	-17				Phenol #3
12	-19 DTH 3/18/25				
13	12607-01 06				
14	12712-01				

Tube	Sample	Volume	Final Volume	Block	Comments
		50mL	5mL	Phenol #2	
1	Blank				DTH 3/13/25 00:25
2	LCS				1.0mL F(2)2024-1
3	13599-01				
4	-02				
5	-03				
6	-04				
7	-05				
8	-Dup05				0.5mL F(2)2024-1
9	-MS05				
10	-06				
11	-07				Phenol #3

To Page

Witnessed & Understood by me,	Date	Invented by:	Dat
		Recorded by:	

WG2038214

Analyst: DTH

Date & Time: 03/09/25 7:12

ICV:F 122024-100ppm

LCS:F 122024-100ppm

Spike:F 122024-100ppm

Curve:WC- 3567

TISAB III: R- 4322

STD	MV
0.2	124.2
0.5	100.0
1.0	87.6
10.0	23.1

Sample	Volume 50mL	Final Volume 50mL	Meter
ICV			1.03
ICB			0.0
Blank			0.0
LCS			1.82
11937-01			0.0580
12325-01			0.0772
-02			0.0526
-Dup 02			0.0556
-MS 02			0.973
-03			0.0379
-04			0.119
-05			0.0385
CCV			1.02
CCB			0.0
-06			0.0539
-07			0.0342
-08			0.0283
-09			0.0514
12607-01			0.0296
-02			0.0497
-03			0.0769
-04			0.0370
-05			0.0262
12847-01	25x(2mL/50mL)		0.936
CCV	50mL		1.02
CCB			0.0

Tube	Sample	Volume	Final Volume	Block	Comments
1	Blank	50mL	50mL	Panel #2	DTH 3/04/25 02:55
2	LCS				1.0mL F122024-100ppm
3	11937-01				
4	12335-01				
5	-02				
6	-Dup 02				
7	-MS 02				0.5mL F122024-100ppm
8	-03				
9	-04				
10	-05				
11	-06			Panel #3	
12	-07				
13	-08				
14	-09				
15	12607-01				
16	-02				
17	-03				
18	-04				
19	-05				
20	12847-01	25x (2mL/50mL)			Screened 4X+ over top of Curve @ RT

To Page No. ____

ssed & Understood by me, | Date | Invented by: | Date

Recorded by:

Phosphates Analysis

Results

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-01	**Date Collected**	:	03/06/25 10:30
Client ID	:	MW-4S	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/12/25 14:28
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500P-E(M)	**Analyst**	:	MEF
Lab File ID	:	PHOS031225-WG2039197	**Instrument ID**	:	SEAL2
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	03/12/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.037	0.031	0.012	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-02	**Date Collected**	:	03/06/25 10:24
Client ID	:	MW-4D2	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/12/25 14:29
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500P-E(M)	**Analyst**	:	MEF
Lab File ID	:	PHOS031225-WG2039197	**Instrument ID**	:	SEAL2
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	03/12/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.068	0.031	0.012	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-03	**Date Collected**	:	03/06/25 09:13
Client ID	:	MW-12S	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/12/25 14:30
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500P-E(M)	**Analyst**	:	MEF
Lab File ID	:	PHOS031225-WG2039197	**Instrument ID**	:	SEAL2
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	03/12/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.043	0.031	0.012	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-04	**Date Collected**	:	03/06/25 08:46
Client ID	:	MW-12D	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/12/25 14:31
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500P-E(M)	**Analyst**	:	MEF
Lab File ID	:	PHOS031225-WG2039197	**Instrument ID**	:	SEAL2
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	03/12/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.028	0.031	0.012	J

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-05	**Date Collected**	:	03/06/25 11:51
Client ID	:	SCDOH_DR	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/12/25 14:34
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500P-E(M)	**Analyst**	:	MEF
Lab File ID	:	PHOS031225-WG2039197	**Instrument ID**	:	SEAL2
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	03/12/25

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

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-06	**Date Collected**	:	03/06/25 12:00
Client ID	:	EQUIPMENT BLANK	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/13/25 14:47
Sample Matrix	:	Equipment Blank	**Dilution Factor**	:	1
Analytical Method	:	121,4500P-E(M)	**Analyst**	:	EYA
Lab File ID	:	PHOS031325-WG2040007	**Instrument ID**	:	SEAL2
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	03/13/25

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

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2039197-1	**Date Collected**	: NA
Client ID	: WG2039197-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/12/25 14:22
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: MEF
Lab File ID	: PHOS031225-WG2039197	**Instrument ID**	: SEAL2
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 03/12/25

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

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2039197-3	**Date Collected**	: 03/05/25 09:15
Client ID	: WG2039197-3 DUP	**Date Received**	: 03/05/25
Sample Location	:	**Date Analyzed**	: 03/12/25 14:25
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: MEF
Lab File ID	: PHOS031225-WG2039197	**Instrument ID**	: SEAL2
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 03/12/25

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.120	0.031	0.012	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2040007-1	**Date Collected**	: NA
Client ID	: WG2040007-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/13/25 14:18
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS031325-WG2040007	**Instrument ID**	: SEAL2
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 03/13/25

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

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	WG2040007-3	**Date Collected**	:	03/06/25 12:00
Client ID	:	EQUIPMENT BLANKDUP	**Date Received**	:	03/06/25
Sample Location	:		**Date Analyzed**	:	03/13/25 14:47
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500P-E(M)	**Analyst**	:	EYA
Lab File ID	:	PHOS031325-WG2040007	**Instrument ID**	:	SEAL2
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	03/13/25

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

Sample Raw Data

AQ2 Tray Report

Software version :	2.4.5
Report requested by :	EAsamoah
Date \ Time :	13-Mar-2025 15:14:57
Tray number :	1
Tray name :	WG2039999,00,02,07

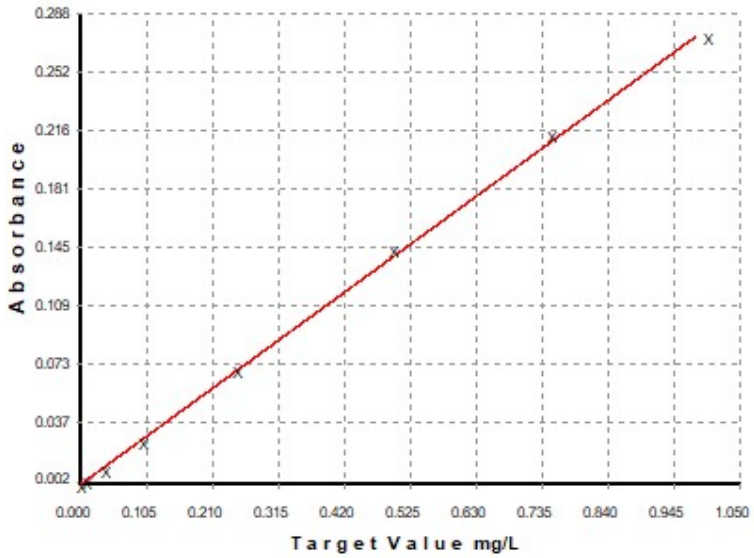
T-Phos 1

Calibration Chart

Type	Absorbance	Calc mg/L	Target mg/L	% Error
S1	0.0015	-0.001	0.000	
S90	0.0041	0.009	0.010	-14.24
S91	0.0113	0.035	0.040	-13.24
S92	0.0278	0.094	0.100	-5.97
S93	0.0715	0.251	0.250	0.51
S94	0.1447	0.515	0.500	2.96
S95	0.2146	0.766	0.750	2.17
S96	0.2742	0.981	1.000	-1.91
S0	0.0014	-0.001	0.000	

Polynomial Order :	1
Correlation Coefficient :	0.9995
Carryover(%) :	-0.1
Calibration equation:	y = bx + a
y =:	Concentration mg/L
x =:	Measured absorbance
a =:	-6.075781E-03
b =:	3.598980E+00
Date & Time :	13-Mar-2025 12:04:57

Calibration Graph



Reagents

Reagent Name	Batch Number	Operator	Expiry Date
TP Working Color	TP Color-03132025	EYA	03-Apr-2025 00:00:00
TP Ascorbic	TP Ascorbic-03102025	MEF	17-Mar-2025 00:00:00

Test Results

Cup	Type	ID	Sample Details	Result	Units	QC Pro	Raw Data	Auto Dil.	Man Dil.	User	Time & Date
2	ICV	ICV	13-MAR-2025 11-26	0.488	mg/L		0.137413			EYA	13-Mar-2025 14:16:40
3	ICB	ICB	13-MAR-2025 11-26	-0.003	mg/L		0.000948			EYA	13-Mar-2025 14:17:41
4	U1	WG2039999-1	13-MAR-2025 11-26	-0.001ELL	mg/L		0.001275			EYA	13-Mar-2025 14:18:41
5	U2	WG2039999-2	13-MAR-2025 11-26	0.502	mg/L		0.141126			EYA	13-Mar-2025 14:19:40
6	U3	L2513181-04-50	13-MAR-2025 11-26	5.770	mg/L		0.033752		x50.0000	EYA	13-Mar-2025 14:20:39
7	U4	L2513181-05	13-MAR-2025 11-26	-0.003ELL	mg/L		0.000972			EYA	13-Mar-2025 14:21:38
8	U5	L2513185-01	13-MAR-2025 11-26	0.175	mg/L		0.050419			EYA	13-Mar-2025 14:22:38
9	U6	L2513185-02	13-MAR-2025 11-26	0.156	mg/L		0.044908			EYA	13-Mar-2025 14:23:37
10	U7	L2513185-03	13-MAR-2025 11-26	0.264	mg/L		0.075023			EYA	13-Mar-2025 14:24:35
11	U8	L2513185-04	13-MAR-2025 11-26	0.186	mg/L		0.053253			EYA	13-Mar-2025 14:25:34
12	U9	L2513185-05	13-MAR-2025 11-26	0.012	mg/L		0.005126			EYA	13-Mar-2025 14:26:33
13	U10	L2513185-06	13-MAR-2025 11-26	-0.002ELL	mg/L		0.001153			EYA	13-Mar-2025 14:27:32
	CCV	CCV		0.498	mg/L		0.140113			EYA	13-Mar-2025 14:28:30
	CCB	CCB		-0.002	mg/L		0.001009			EYA	13-Mar-2025 14:29:31
14	U11	WG2039999-3	13-MAR-2025 11-26	-0.003ELL	mg/L		0.000959			EYA	13-Mar-2025 14:30:31
15	U12	WG2039999-4	13-MAR-2025 11-26	0.484	mg/L		0.136183			EYA	13-Mar-2025 14:31:30
16	U13	L2512671-01-2	13-MAR-2025 11-26	2.592	mg/L		0.073720	x5.0000	x2.0000	EYA	13-Mar-2025 15:07:23
16	U13	L2512671-01-2	13-MAR-2025 11-26	2.644	mg/L		0.368964		x2.0000	EYA	13-Mar-2025 14:32:28
17	U14	L2513314-01	13-MAR-2025 11-26	0.418	mg/L		0.117917			EYA	13-Mar-2025 14:33:26

18	U15	L2513339-01-20	13-MAR-2025	11-26	1.367	mg/L	0.020686		x20.0000	EYA	13-Mar-2025	14:34:24
19	U16	L2513381-01-50	13-MAR-2025	11-26	64.548	mg/L	0.073428	x5.0000	x50.0000	EYA	13-Mar-2025	15:08:14
19	U16	L2513381-01-50	13-MAR-2025	11-26	64.468	mg/L	0.359948		x50.0000	EYA	13-Mar-2025	14:35:22
20	U17	L2513526-01	13-MAR-2025	11-26	1.925	mg/L	0.108645	x5.0000		EYA	13-Mar-2025	15:09:05
20	U17	L2513526-01	13-MAR-2025	11-26	1.808	mg/L	0.504029			EYA	13-Mar-2025	14:36:20
21	U18	WG2040000-3	13-MAR-2025	11-26	1.876	mg/L	0.105919	x5.0000		EYA	13-Mar-2025	15:09:56
21	U18	WG2040000-3	13-MAR-2025	11-26	1.776	mg/L	0.495162			EYA	13-Mar-2025	14:37:17
22	U19	WG2040000-4	13-MAR-2025	11-26	2.477	mg/L	0.139330	x5.0000		EYA	13-Mar-2025	15:10:48
22	U19	WG2040000-4	13-MAR-2025	11-26	2.063	mg/L	0.574768			EYA	13-Mar-2025	14:38:15
23	U20	FILTER BLANK	13-MAR-2025	11-26	-0.002ELL	mg/L	0.001226			EYA	13-Mar-2025	14:39:13
	CCV	CCV			0.507	mg/L	0.142507			EYA	13-Mar-2025	14:40:11
	CCB	CCB			-0.002	mg/L	0.001165			EYA	13-Mar-2025	14:41:12
24	U21	L2513926-01D10	13-MAR-2025	11-26	0.405	mg/L	0.012944		x10.0000	EYA	13-Mar-2025	14:42:12
25	U22	WG2040002-3D10	13-MAR-2025	11-26	0.399	mg/L	0.012770		x10.0000	EYA	13-Mar-2025	14:42:45
26	U23	WG2040002-4D10	13-MAR-2025	11-26	0.771	mg/L	0.023124		x10.0000	EYA	13-Mar-2025	14:43:43
27	U24	L2513926-02D	13-MAR-2025	11-26	0.119	mg/L	0.034831			EYA	13-Mar-2025	14:44:34
28	U25	L2513926-03D	13-MAR-2025	11-26	0.115	mg/L	0.033626			EYA	13-Mar-2025	14:45:25
29	U26	L2512325-03O	13-MAR-2025	11-26	0.066	mg/L	0.020002			EYA	13-Mar-2025	14:46:16
30	U27	L2512607-06O	13-MAR-2025	11-26	0.003	mg/L	0.002416			EYA	13-Mar-2025	14:47:07
31	U28	WG2040007-3O	13-MAR-2025	11-26	0.002	mg/L	0.002233			EYA	13-Mar-2025	14:47:59
32	U29	WG2040007-4O	13-MAR-2025	11-26	0.521	mg/L	0.146426			EYA	13-Mar-2025	14:48:50
33	U30	L2513334-01O10	13-MAR-2025	11-26	1.275	mg/L	0.037115		x10.0000	EYA	13-Mar-2025	14:49:41
	CCV	CCV			0.494	mg/L	0.138994			EYA	13-Mar-2025	14:50:32
	CCB	CCB			-0.002	mg/L	0.001031			EYA	13-Mar-2025	14:51:24
	CCV	CCV			0.495	mg/L	0.139300			EYA	13-Mar-2025	15:05:40
	CCB	CCB			-0.002	mg/L	0.001115			EYA	13-Mar-2025	15:06:31
	CCV	CCV			0.510	mg/L	0.143497			EYA	13-Mar-2025	15:11:39
	CCB	CCB			-0.002	mg/L	0.001200			EYA	13-Mar-2025	15:12:30

AQ2 Tray Report

Software version :	2.4.5
Report requested by :	MFlaherty
Date \ Time :	12-Mar-2025 16:32:59
Tray number :	1
Tray name :	WG2039197

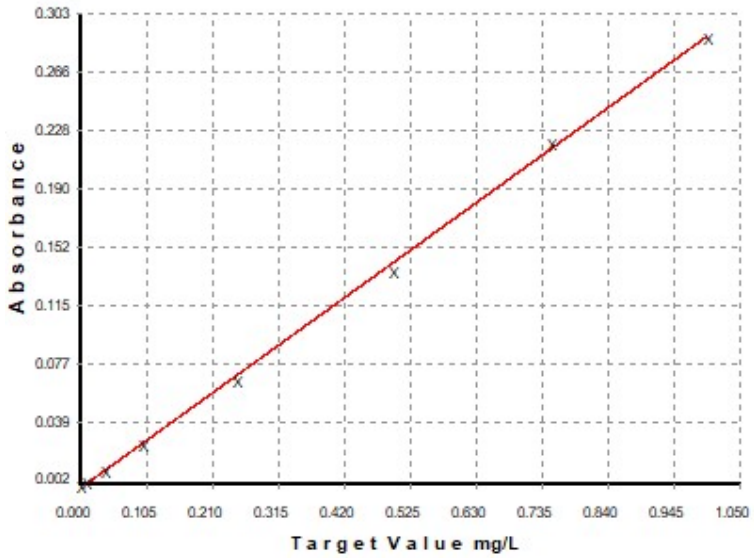
T-Phos 1

Calibration Chart

Type	Absorbance	Calc mg/L	Target mg/L	% Error
S1	0.0015	0.007	0.000	
S90	0.0037	0.015	0.010	48.23
S91	0.0112	0.041	0.040	1.54
S92	0.0278	0.098	0.100	-2.10
S93	0.0692	0.241	0.250	-3.72
S94	0.1400	0.485	0.500	-3.09
S95	0.2216	0.766	0.750	2.15
S96	0.2889	0.998	1.000	-0.19
S0	0.0012	0.006	0.000	

Polynomial Order :	1
Correlation Coefficient :	0.9997
Carryover(%) :	-0.1
Calibration equation:	y = bx + a
y =:	Concentration mg/L
x =:	Measured absorbance
a =:	1.942739E-03
b =:	3.448140E+00
Date & Time :	12-Mar-2025 12:01:43

Calibration Graph



Reagents

Reagent Name	Batch Number	Operator	Expiry Date
TP Working Color	TP Color-03102025	EYA	31-Mar-2025 00:00:00
TP Ascorbic	TP Ascorbic-03102025	MEF	17-Mar-2025 00:00:00

Test Results

Cup	Type	ID	Sample Details	Result	Units	QC Pro	Raw Data	Auto Dil.	Man Dil.	User	Time & Date
2	ICV	ICV	12-MAR-2025 09-41	0.463	mg/L		0.133745			EYA	12-Mar-2025 14:20:38
3	ICB	ICB	12-MAR-2025 09-41	0.005	mg/L		0.000944			EYA	12-Mar-2025 14:21:39
4	U1	WG2039197-1O	12-MAR-2025 09-41	0.006ELL	mg/L		0.001246			EYA	12-Mar-2025 14:22:39
5	U2	WG2039197-2O	12-MAR-2025 09-41	0.465	mg/L		0.134176			EYA	12-Mar-2025 14:23:38
6	U3	L2512325-02O	12-MAR-2025 09-41	0.043	mg/L		0.011946			EYA	12-Mar-2025 14:24:37
7	U4	WG2039197-3O	12-MAR-2025 09-41	0.039	mg/L		0.010679			EYA	12-Mar-2025 14:25:37
8	U5	WG2039197-4O	12-MAR-2025 09-41	0.540	mg/L		0.155946			EYA	12-Mar-2025 14:26:36
9	U6	L2512325-03O2	12-MAR-2025 09-41	0.086	mg/L		0.011960	x2.0000		EYA	12-Mar-2025 14:27:35
10	U7	L2512607-01O	12-MAR-2025 09-41	0.012	mg/L		0.002908			EYA	12-Mar-2025 14:28:34
11	U8	L2512607-02O	12-MAR-2025 09-41	0.022	mg/L		0.005860			EYA	12-Mar-2025 14:29:32
12	U9	L2512607-03O	12-MAR-2025 09-41	0.014	mg/L		0.003541			EYA	12-Mar-2025 14:30:31
13	U10	L2512607-04O	12-MAR-2025 09-41	0.009	mg/L		0.002155			EYA	12-Mar-2025 14:31:30
	CCV	CCV		0.465	mg/L		0.134231			EYA	12-Mar-2025 14:32:28
	CCB	CCB		0.006	mg/L		0.001053			EYA	12-Mar-2025 14:33:29
14	U11	L2512607-05O	12-MAR-2025 09-41	0.010	mg/L		0.002422			EYA	12-Mar-2025 14:34:30
15	U12	L2512607-06O	12-MAR-2025 09-41	0.013	mg/L		0.003314			EYA	12-Mar-2025 16:28:02
15	U12	L2512607-06O	12-MAR-2025 09-41	0.012	mg/L		0.003042			EYA	12-Mar-2025 14:35:28
16	U13	L2513275-01O	12-MAR-2025 09-41	0.486	mg/L		0.140274			EYA	12-Mar-2025 14:36:26
17	U14	L2513334-01O10	12-MAR-2025 09-41	1.410	mg/L		0.040321	x10.0000		EYA	12-Mar-2025 14:37:27

18	U15	L2512241-01	12-MAR-2025 09-41	0.054	mg/L	0.015045			EYA	12-Mar-2025 14:38:28
19	U16	L2512241-02-10	12-MAR-2025 09-41	0.800	mg/L	0.022630		x10.0000	EYA	12-Mar-2025 14:39:00
20	U17	L2512241-04	12-MAR-2025 09-41	4.038	mg/L	0.233627	x5.0000		EYA	12-Mar-2025 15:03:27
20	U17	L2512241-04	12-MAR-2025 09-41	2.631	mg/L	0.762552			EYA	12-Mar-2025 14:39:58
21	U18	L2512241-05	12-MAR-2025 09-41	2.825	mg/L	0.163321	x5.0000		EYA	12-Mar-2025 15:04:18
21	U18	L2512241-05	12-MAR-2025 09-41	2.309	mg/L	0.669116			EYA	12-Mar-2025 14:40:49
22	U19	WG2039198-3	12-MAR-2025 09-41	2.752	mg/L	0.159032	x5.0000		EYA	12-Mar-2025 15:05:09
22	U19	WG2039198-3	12-MAR-2025 09-41	2.288	mg/L	0.663050			EYA	12-Mar-2025 14:41:40
23	U20	WG2039198-4	12-MAR-2025 09-41	3.360	mg/L	0.194336	x5.0000		EYA	12-Mar-2025 15:06:00
23	U20	WG2039198-4	12-MAR-2025 09-41	2.464	mg/L	0.714132			EYA	12-Mar-2025 14:42:31
	CCV	CCV		0.467	mg/L	0.134950			EYA	12-Mar-2025 14:43:23
	CCB	CCB		0.005	mg/L	0.000859			EYA	12-Mar-2025 14:44:14
24	U21	L2512361-01	12-MAR-2025 09-41	0.014	mg/L	0.003442			EYA	12-Mar-2025 14:45:05
25	U22	L2512361-02	12-MAR-2025 09-41	0.018	mg/L	0.004770			EYA	12-Mar-2025 14:45:57
	CCV	CCV		0.459	mg/L	0.132671			EYA	12-Mar-2025 14:46:48
	CCB	CCB		0.005	mg/L	0.000979			EYA	12-Mar-2025 14:47:39
	CCV	CCV		0.464	mg/L	0.134101			EYA	12-Mar-2025 15:01:44
	CCB	CCB		0.006	mg/L	0.001112			EYA	12-Mar-2025 15:02:35
	CCV	CCV		0.466	mg/L	0.134708			EYA	12-Mar-2025 15:06:51
	CCB	CCB		0.006	mg/L	0.001172			EYA	12-Mar-2025 15:07:43
	CCV	CCV		0.454	mg/L	0.131231			EYA	12-Mar-2025 16:26:19
	CCB	CCB		0.005	mg/L	0.000884			EYA	12-Mar-2025 16:27:11
	CCV	CCV		0.473	mg/L	0.136479			EYA	12-Mar-2025 16:28:53
	CCB	CCB		0.006	mg/L	0.001200			EYA	12-Mar-2025 16:29:45

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2512325-02		
Matrix Spike	: WG2039197-4	**MS Analysis Date**	: 03/12/25 14:26
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	**Sample Conc. (mg/l)**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Phosphate, Total	**0.132**	**1.53**	**1.66**	**100**					**80-120**	**15**

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: EQUIPMENT BLANK	**Matrix**	: WATER
Lab Sample ID	: L2512607-06		
Matrix Spike	: WG2040007-4	**MS Analysis Date**	: 03/13/25 14:48
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Phosphate, Total	ND	1.53	1.60	104					80-120	15

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 03/12/25 14:24
Dup Sample ID	: WG2039197-3	**DUP Analysis Date**	: 03/12/25 14:25

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Phosphate, Total	0.132	0.120	10	15

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: EQUIPMENT BLANK	**Matrix**	: WATER
Lab Sample ID	: L2512607-06	**Analysis Date**	: 03/13/25 14:47
Dup Sample ID	: WG2040007-3	**DUP Analysis Date**	: 03/13/25 14:47

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Phosphate, Total	ND	ND	NC	15

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2039197-2	**LCS Analysis Date**	: 03/12/25 14:23
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Phosphate, Total	**1.53**	**1.43**	**93.**					**84-118**	**15**

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2040007-2	**LCS Analysis Date**	: 03/13/25 14:19
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Phosphate, Total	**1.53**	**1.54**	**101.**					**84-118**	**15**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Total	7723-14-0	0.01	0.004	mg/l	80-120		75-125	20	20	4500P-E	28 days	1 - Plastic 500ml H2SO4 preserved

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

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Total	7723-14-0	5	1.67	mg/kg	52-148	20	75-125	20	20	4500P-E	28 days	1 - Glass 250ml/8oz unpreserved

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

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Orthophosphate	7723-14-0	0.005	0.001	mg/l	90-110		80-120	20	20	4500P-E	48 hours	1 - Plastic 500ml unpreserved

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

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Orthophosphate	7723-14-0	0.05	0.05	mg/kg						4500P-E	48 hours	1 - Glass 250ml/8oz unpreserved

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

Calculations of TPhosphorus

Aqueous samples:

Calculate the concentration value of the sample directly from the standard curve. All calculations are done by SEAL (segmant flow spectrometer).

$$\text{Mg TPhosphorus/L} = \frac{\text{absorbance - y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$

Total Suspended Solids Analysis

Results

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2512607
Project Name	:	CORAM MATERIALS	Project Number	:	2232.0006Y005
Lab ID	:	L2512607-01	Date Collected	:	03/06/25 10:30
Client ID	:	MW-4S	Date Received	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	:	03/11/25 08:43
Sample Matrix	:	WATER	Dilution Factor	:	1
Analytical Method	:	121,2540D	Analyst	:	BAY
Lab File ID	:	WG2038986.pdf	Instrument ID	:	BALANCE#22
Sample Amount	:		%Solids	:	N/A
Digestion Method	:		Date Digested	:	

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
NONE	Solids, Total Suspended	ND	5.0	NA	U

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2512607
Project Name	:	CORAM MATERIALS	Project Number	:	2232.0006Y005
Lab ID	:	L2512607-02	Date Collected	:	03/06/25 10:24
Client ID	:	MW-4D2	Date Received	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	:	03/11/25 08:43
Sample Matrix	:	WATER	Dilution Factor	:	1
Analytical Method	:	121,2540D	Analyst	:	BAY
Lab File ID	:	WG2038986.pdf	Instrument ID	:	BALANCE#22
Sample Amount	:		%Solids	:	N/A
Digestion Method	:		Date Digested	:	

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
NONE	Solids, Total Suspended	ND	5.0	NA	U

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2512607
Project Name	:	CORAM MATERIALS	Project Number	:	2232.0006Y005
Lab ID	:	L2512607-03	Date Collected	:	03/06/25 09:13
Client ID	:	MW-12S	Date Received	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	:	03/11/25 12:46
Sample Matrix	:	WATER	Dilution Factor	:	1
Analytical Method	:	121,2540D	Analyst	:	BAY
Lab File ID	:	WG2039126.pdf	Instrument ID	:	BALANCE#22
Sample Amount	:		%Solids	:	N/A
Digestion Method	:		Date Digested	:	

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
NONE	Solids, Total Suspended	ND	5.0	NA	U

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2512607
Project Name	:	CORAM MATERIALS	Project Number	:	2232.0006Y005
Lab ID	:	L2512607-04	Date Collected	:	03/06/25 08:46
Client ID	:	MW-12D	Date Received	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	:	03/11/25 12:46
Sample Matrix	:	WATER	Dilution Factor	:	1
Analytical Method	:	121,2540D	Analyst	:	BAY
Lab File ID	:	WG2039126.pdf	Instrument ID	:	BALANCE#22
Sample Amount	:		%Solids	:	N/A
Digestion Method	:		Date Digested	:	

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
NONE	Solids, Total Suspended	ND	5.0	NA	U

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2512607
Project Name	:	CORAM MATERIALS	Project Number	:	2232.0006Y005
Lab ID	:	L2512607-05	Date Collected	:	03/06/25 11:51
Client ID	:	SCDOH_DR	Date Received	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	:	03/11/25 08:43
Sample Matrix	:	WATER	Dilution Factor	:	1
Analytical Method	:	121,2540D	Analyst	:	BAY
Lab File ID	:	WG2038986.pdf	Instrument ID	:	BALANCE#22
Sample Amount	:		%Solids	:	N/A
Digestion Method	:		Date Digested	:	

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
NONE	Solids, Total Suspended	ND	5.0	NA	U

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	Lab Number	:	L2512607
Project Name	:	CORAM MATERIALS	Project Number	:	2232.0006Y005
Lab ID	:	L2512607-06	Date Collected	:	03/06/25 12:00
Client ID	:	EQUIPMENT BLANK	Date Received	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	Date Analyzed	:	03/11/25 12:46
Sample Matrix	:	Equipment Blank	Dilution Factor	:	1
Analytical Method	:	121,2540D	Analyst	:	BAY
Lab File ID	:	WG2039126.pdf	Instrument ID	:	BALANCE#22
Sample Amount	:		%Solids	:	N/A
Digestion Method	:		Date Digested	:	

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
NONE	Solids, Total Suspended	8.3	5.0	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2038986-1	**Date Collected**	: NA
Client ID	: WG2038986-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/11/25 08:49
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2540D	**Analyst**	: BAY
Lab File ID	: WG2038986.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Suspended	ND	5.0	NA	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2038986-3	**Date Collected**	: 03/06/25 09:15
Client ID	: WG2038986-3 DUP	**Date Received**	: 03/06/25
Sample Location	:	**Date Analyzed**	: 03/11/25 08:50
Sample Matrix	: WATER	**Dilution Factor**	: 2
Analytical Method	: 121,2540D	**Analyst**	: BAY
Lab File ID	: WG2038986.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Suspended	240	10	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2039126-1	**Date Collected**	: NA
Client ID	: WG2039126-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/11/25 12:46
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2540D	**Analyst**	: BAY
Lab File ID	: WG2039126.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Suspended	ND	5.0	NA	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2039126-3	**Date Collected**	: 03/06/25 07:00
Client ID	: WG2039126-3 DUP	**Date Received**	: 03/06/25
Sample Location	:	**Date Analyzed**	: 03/11/25 12:46
Sample Matrix	: WATER	**Dilution Factor**	: 2
Analytical Method	: 121,2540D	**Analyst**	: BAY
Lab File ID	: WG2039126.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Suspended	28.	10	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2039126-4	**Date Collected**	: 03/06/25 10:30
Client ID	: WG2039126-4 DUP	**Date Received**	: 03/07/25
Sample Location	:	**Date Analyzed**	: 03/11/25 12:46
Sample Matrix	: WATER	**Dilution Factor**	: 4
Analytical Method	: 121,2540D	**Analyst**	: BAY
Lab File ID	: WG2039126.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Suspended	230	20	NA	

Sample Raw Data

Wet Chemistry Gravimetric ELN

Printed: MAR-12-25 08:07:34

WorkGroup	WG2038986	**Temp In (C)**	105	**Temp In (C)**	105	**Temp In (C)**	105	**Temp In (C)**	105	**Temp In (C)**					
Title	Solids, Total Suspended	**Temp Out (C)**	105	**Temp Out (C)**	105	**Temp Out (C)**	105	**Temp Out (C)**	105	**Temp Out (C)**					
Method	SM2540D	**Time In**	11-MAR-25 09:31	**Time In**	11-MAR-25 12:13	**Time In**	11-MAR-25 17:47	**Time In**	12-MAR-25 00:36	**Time In**					
Instrument	BALANCE#22	**Time Out**	11-MAR-25 11:50	**Time Out**	11-MAR-25 17:03	**Time Out**	11-MAR-25 22:25	**Time Out**	12-MAR-25 05:55	**Time Out**					
		Evaporation	**Temp In (C)**	**Time In**							**LCS Lot #**	**TrueValue**	**Units**		
											86293	226.1	mg/l		

Sample #	Analysis Date	Analyst	Cup ID	Filter Lot	Tare Weight (gm)	Sample Volume (ml)	Net Weight (1) (gm)	Net Weight (2) (gm)	Net Weight (3) (gm)	Net Weight (4) (gm)	Net Weight (5) (gm)	Result mg/L	Dil	Comment
L2512570-01	11-MAR-25 08:43	BRYHANNAH YOUNG	3	60004543	.4348	1000	.4381	.4377				2.90	1	
L2512570-02	11-MAR-25 08:43	BRYHANNAH YOUNG	4	60004543	.4373	1000	.4419	.4416				4.30	1	
L2512570-03	11-MAR-25 08:43	BRYHANNAH YOUNG	5	60004543	.4404	1000	.4559	.4555				15.10	1	
L2512571-04	11-MAR-25 08:43	BRYHANNAH YOUNG	6	60004543	.4356	1000	.4413	.4412				5.60	1	
L2512607-01	11-MAR-25 08:43	BRYHANNAH YOUNG	7	60004543	.4359	1000	.4375	.4367	.4381	.4382		0.80	1	
L2512607-02	11-MAR-25 08:43	BRYHANNAH YOUNG	8	60004543	.4379	1000	.4407	.4398	.4417	.4415		1.90	1	
L2512607-05	11-MAR-25 08:43	BRYHANNAH YOUNG	9	60004543	.4445	1000	.447	.446	.4464			1.50	1	
L2512623-01	11-MAR-25 08:49	BRYHANNAH YOUNG	10	60004543	.4358	500	.5366	.5315	.5326	.5327		191.40	2	MATRIX
L2513002-02	11-MAR-25 08:43	BRYHANNAH YOUNG	11	60004543	.4481	350	.4852	.4833	.4831			100.00	2.9	MATRIX
L2513334-01	11-MAR-25 08:43	BRYHANNAH YOUNG	12	60004543	.4458	1000	.4514	.4514				5.60	1	
WG2038986-1	11-MAR-25 08:49	BRYHANNAH YOUNG	1	60004543	.4388	1000	.4391	.4387				-0.10	1	FILTERLOT: 600045-4325-AP
WG2038986-2	11-MAR-25 08:49	BRYHANNAH YOUNG	24	60004543	.4388	250	.4858	.4859				188.00	4	
WG2038986-3	11-MAR-25 08:50	BRYHANNAH YOUNG	2	60004543	.4568	500	.5812	.5787	.5803	.5799		243.80	2	

Average Weight (gm)	% Difference (Sample)	% Difference (Duplicate)
.1088	113.7	89.3

Wet Chemistry Gravimetric ELN

Printed: MAR-12-25 05:47:52

WorkGroup	WG2039126	**Temp In (C)**	105	**Temp In (C)**	105	**Temp In (C)**	105	**Temp In (C)**		**Temp In (C)**					
Title	Solids, Total Suspended	**Temp Out (C)**	105	**Temp Out (C)**	105	**Temp Out (C)**	105	**Temp Out (C)**		**Temp Out (C)**					
Method	SM2540D	**Time In**	11-MAR-25 13:55	**Time In**	11-MAR-25 18:11	**Time In**	12-MAR-25 00:17	**Time In**		**Time In**					
Instrument	BALANCE#22	**Time Out**	11-MAR-25 17:02	**Time Out**	11-MAR-25 22:25	**Time Out**	12-MAR-25 05:17	**Time Out**		**Time Out**					
		Evaporation	**Temp In (C)**	**Time In**								**LCS Lot #**	**TrueValue**	**Units**	
												86293	226.1	mg/l	

Sample #	Analysis Date	Analyst	Cup ID	Filter Lot	Tare Weight (gm)	Sample Volume (ml)	Net Weight (1) (gm)	Net Weight (2) (gm)	Net Weight (3) (gm)	Net Weight (4) (gm)	Net Weight (5) (gm)	Result mg/L	Dil	Comment
L2512571-01	11-MAR-25 12:46	BRYHANNAH YOUNG	4	60004543	.4528	1000	.4637	.4636				10.80	1	
L2512571-02	11-MAR-25 12:46	BRYHANNAH YOUNG	5	60004543	.4526	1000	.458	.4582				5.40	1	
L2512571-03	11-MAR-25 12:46	BRYHANNAH YOUNG	6	60004543	.4364	1000	.439	.4388				2.40	1	
L2512607-03	11-MAR-25 12:46	BRYHANNAH YOUNG	7	60004543	.4375	1000	.4403	.4405				2.80	1	
L2512607-04	11-MAR-25 12:46	BRYHANNAH YOUNG	8	60004543	.4377	1000	.4384	.4385				0.70	1	
L2512607-06	11-MAR-25 12:46	BRYHANNAH YOUNG	9	60004543	.4361	1000	.4447	.4444				8.30	1	equiment blank
L2512623-02	11-MAR-25 12:46	BRYHANNAH YOUNG	10	60004543	.4415	1000	.5992	.5995				157.70	1	
L2512778-02	11-MAR-25 12:46	BRYHANNAH YOUNG	11	60004543	.4357	500	.4396	.4393				7.20	2	MATRIX
L2512808-01	11-MAR-25 12:46	BRYHANNAH YOUNG	12	60004543	.4402	500	.4559	.4568	.4564			31.40	2	MATRIX, inf
L2512808-02	11-MAR-25 12:46	BRYHANNAH YOUNG	13	60004543	.4361	250	.453	.4534				67.60	4	matrix, eff
L2512838-01	11-MAR-25 12:46	BRYHANNAH YOUNG	14	60004543	.4431	1000	.6449	.6452				201.80	1	
L2512839-01	11-MAR-25 12:46	BRYHANNAH YOUNG	15	60004543	.435	1000	.6527	.6533	.6532			217.70	1	
L2512841-01	11-MAR-25 12:46	BRYHANNAH YOUNG	16	60004543	.4415	1000	.4915	.4914				49.90	1	
L2513060-01	11-MAR-25 12:46	BRYHANNAH YOUNG	17	60004543	.4346	1000	.443	.4432				8.40	1	
L2513071-01	11-MAR-25 12:46	BRYHANNAH YOUNG	18	60004543	.4438	250	.4804	.4804				146.40	4	
L2513074-01	11-MAR-25 12:46	BRYHANNAH YOUNG	19	60004543	.4402	1000	.465	.4656	.4653			24.80	1	
L2513079-01	11-MAR-25 12:46	BRYHANNAH YOUNG	20	60004543	.4411	700	.47	.4712	.4708			41.29	1.4	matrix
L2513090-01	11-MAR-25 12:46	BRYHANNAH YOUNG	21	60004543	.4458	1000	.4559	.4563				10.10	1	

Wet Chemistry Gravimetric ELN

Printed: MAR-12-25 05:47:52

WorkGroup	WG2039126	**Temp In (C)**	105	**Temp In (C)**	105	**Temp In (C)**	105	**Temp In (C)**		**Temp In (C)**					
Title	Solids, Total Suspended	**Temp Out (C)**	105	**Temp Out (C)**	105	**Temp Out (C)**	105	**Temp Out (C)**		**Temp Out (C)**					
Method	SM2540D	**Time In**	11-MAR-25 13:55	**Time In**	11-MAR-25 18:11	**Time In**	12-MAR-25 00:17	**Time In**		**Time In**					
Instrument	BALANCE#22	**Time Out**	11-MAR-25 17:02	**Time Out**	11-MAR-25 22:25	**Time Out**	12-MAR-25 05:17	**Time Out**		**Time Out**					
		Temp In (C)	**Time In**									**LCS Lot #**	**TrueValue**	**Units**	
												86293	226.1	mg/l	

Sample #	Analysis Date	Analyst	Cup ID			Sample Volume (ml)						Result mg/L	Dil	Comment
L2513092-01	11-MAR-25 12:46	BRYHANNAH YOUNG	22	60004543	.4375	1000	.4385	.4387				1.00	1	
L2513196-01	11-MAR-25 12:46	BRYHANNAH YOUNG	23	60004543	.4456	1000	.4881	.4887	.4883			42.50	1	
WG2039126-1	11-MAR-25 12:46	BRYHANNAH YOUNG	1	60004543	.4413	1000	.4413	.4413				0.00	1	FILTER LOT: 600045-4325-AP
WG2039126-2	11-MAR-25 12:46	BRYHANNAH YOUNG	24	60004543	.4521	250	.4997	.5				190.40	4	
WG2039126-3	11-MAR-25 12:46	BRYHANNAH YOUNG	2	60004543	.4404	500	.4542	.4544				27.60	2	
WG2039126-4	11-MAR-25 12:46	BRYHANNAH YOUNG	3	60004543	.4494	250	.508	.5084				234.40	4	

Quality Control

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 03/11/25 08:49
Dup Sample ID	: WG2038986-3	**DUP Analysis Date**	: 03/11/25 08:50

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Suspended	190	240	23	32

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 03/11/25 12:46
Dup Sample ID	: WG2039126-3	**DUP Analysis Date**	: 03/11/25 12:46

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Suspended	31	28.	10	32

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 03/11/25 12:46
Dup Sample ID	: WG2039126-4	**DUP Analysis Date**	: 03/11/25 12:46

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Suspended	150	230	42 Q	32

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2038986-2	**LCS Analysis Date**	: 03/11/25 08:49
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Solids, Total Suspended	**226.**	**190.**	**83.**					**80-120**	**32**

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2039126-2	**LCS Analysis Date**	: 03/11/25 12:46
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Solids, Total Suspended	**226.**	**190.**	**84.**					**80-120**	**32**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Solids, Total Suspended	NONE	5		mg/l	80-120			29	29	2540D	7 days	1 - Plastic 950ml unpreserved

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

Calculations of TSS

$$\text{mgTSS/L} = \frac{(A - B) \times 1000}{\text{Sample volume, (L)}}$$

Where:

A = Final weight (weight of filter + dried residue, g)
B = Initial weight (weight of clean filter, g)

Wet Chemistry
By
IC Methods

Results

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-01	**Date Collected**	:	03/06/25 10:30
Client ID	:	MW-4S	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/10/25 19:36
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	44,300.0	**Analyst**	:	AVT,
Lab File ID	:	WG2038790-91-92-93	**Instrument ID**	:	IC3
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.050	0.050	0.013	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-02	**Date Collected**	:	03/06/25 10:24
Client ID	:	MW-4D2	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/10/25 19:48
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	44,300.0	**Analyst**	:	AVT,
Lab File ID	:	WG2038790-91-92-93	**Instrument ID**	:	IC3
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.048	0.050	0.013	J

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-03	**Date Collected**	:	03/06/25 09:13
Client ID	:	MW-12S	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/10/25 20:00
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	44,300.0	**Analyst**	:	AVT,
Lab File ID	:	WG2038790-91-92-93	**Instrument ID**	:	IC3
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.047	0.050	0.013	J

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-04	**Date Collected**	:	03/06/25 08:46
Client ID	:	MW-12D	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/10/25 20:48
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	44,300.0	**Analyst**	:	AVT,
Lab File ID	:	WG2038790-91-92-93	**Instrument ID**	:	IC3
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.070	0.050	0.013	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-05	**Date Collected**	:	03/06/25 11:51
Client ID	:	SCDOH_DR	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/10/25 21:00
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	44,300.0	**Analyst**	:	AVT,
Lab File ID	:	WG2038790-91-92-93	**Instrument ID**	:	IC3
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.052	0.050	0.013	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2512607
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2512607-06	**Date Collected**	:	03/06/25 12:00
Client ID	:	EQUIPMENT BLANK	**Date Received**	:	03/06/25
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	03/10/25 20:12
Sample Matrix	:	Equipment Blank	**Dilution Factor**	:	1
Analytical Method	:	44,300.0	**Analyst**	:	AVT,
Lab File ID	:	WG2038790-91-92-93	**Instrument ID**	:	IC3
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2038793-1	**Date Collected**	: NA
Client ID	: WG2038793-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/10/25 16:46
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: AVT,
Lab File ID	: WG2038792-93	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG2038793-4	**Date Collected**	: 03/06/25 10:24
Client ID	: MW-4D2DUP	**Date Received**	: 03/06/25
Sample Location	:	**Date Analyzed**	: 03/11/25 03:27
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: AVT,
Lab File ID	: WG2038790-91-92-93	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

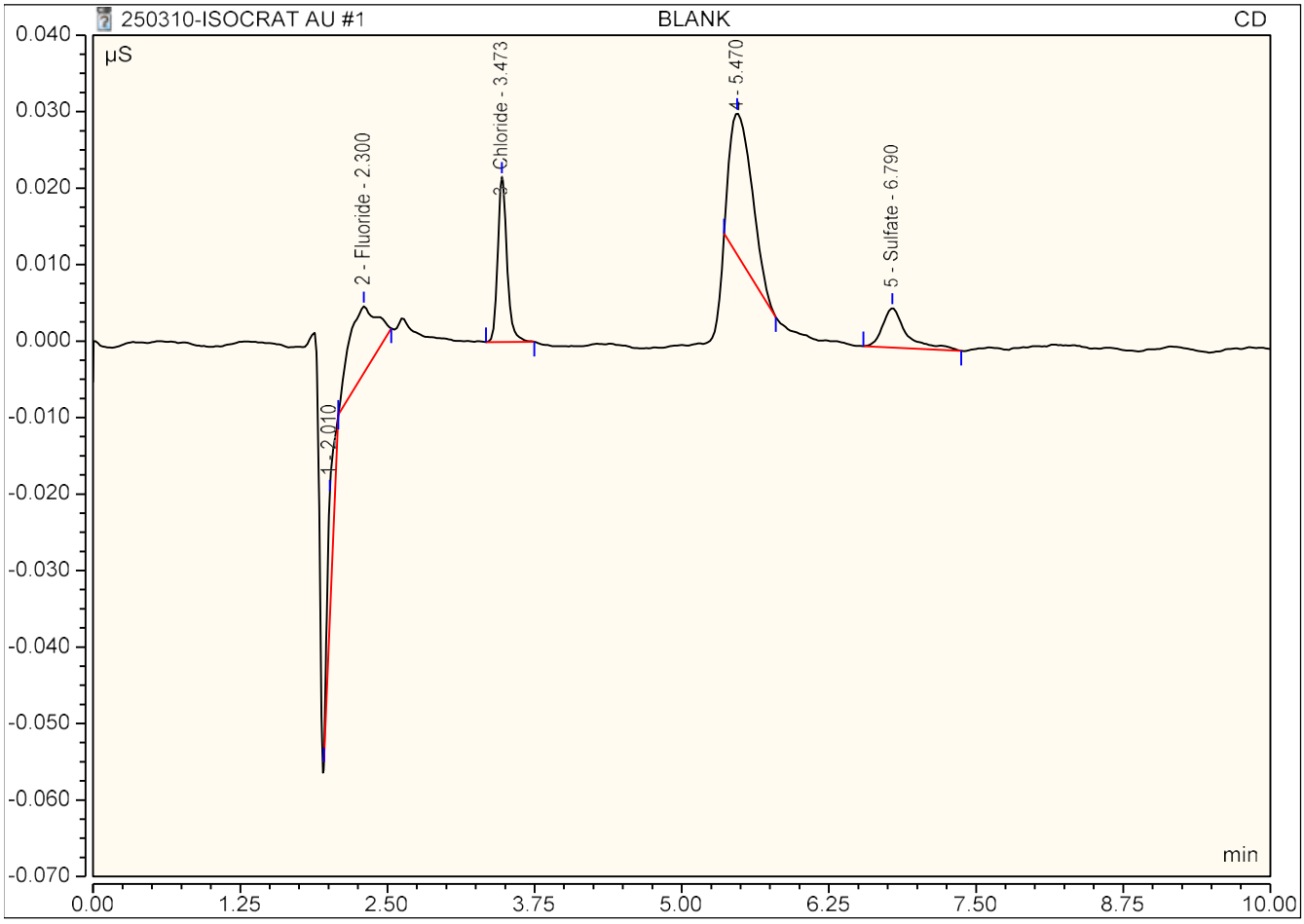
		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.048	0.050	0.013	J

Sample Raw Data

Peak Integration Report

Sample Name:	**BLANK**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Mar-2025 / 18:55**	*Run Time:*	**10.00**

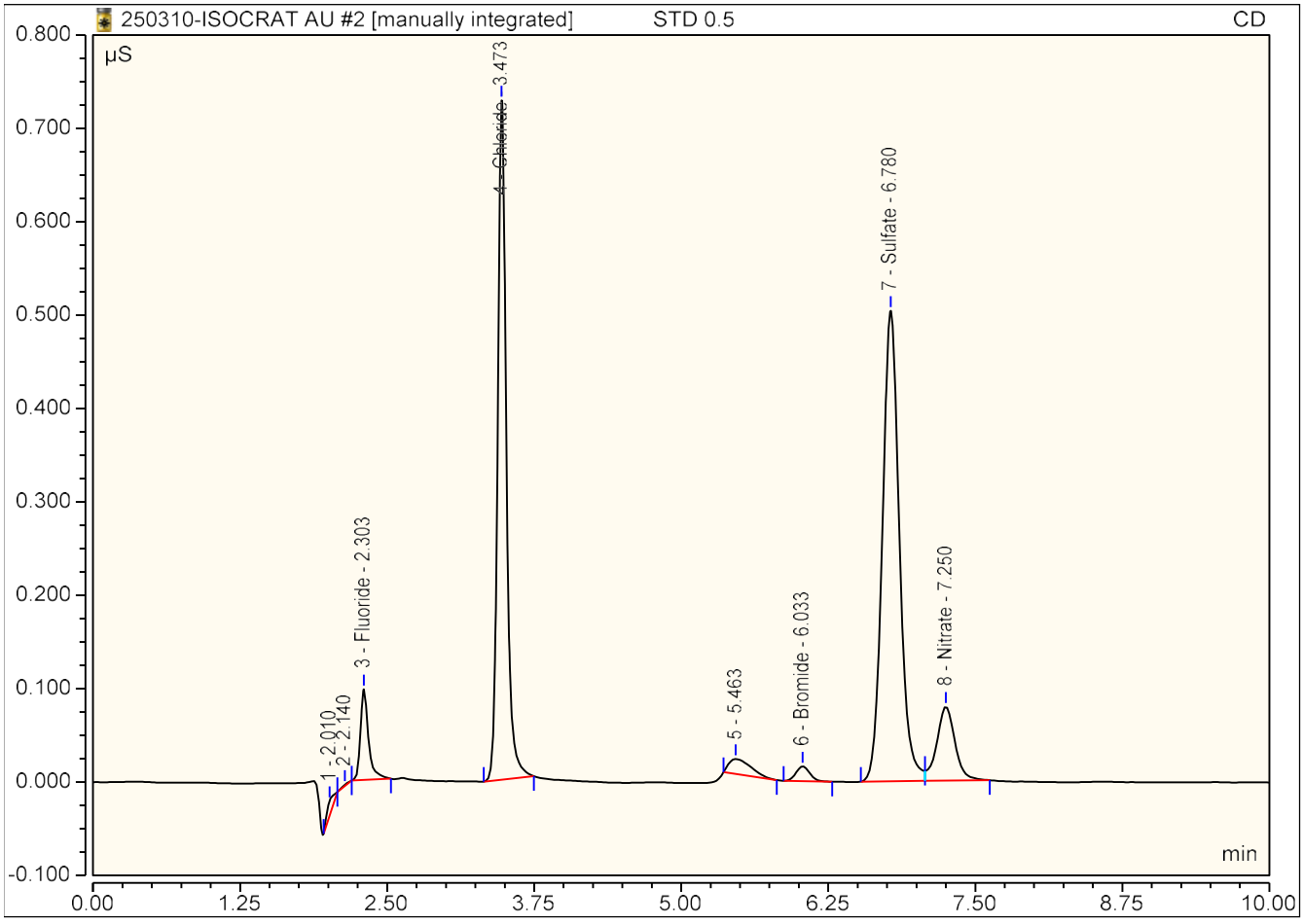
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.002	0.009	0.0293
3	3.47	**Chloride**	BMB	0.002	0.022	0.0946
5	6.79	**Sulfate**	BMB	0.001	0.005	0.2070
TOTAL:				0.01	0.04	0.33



Peak Integration Report

Sample Name:	**STD 0.5**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Mar-2025 / 19:07**	*Run Time:*	**10.00**

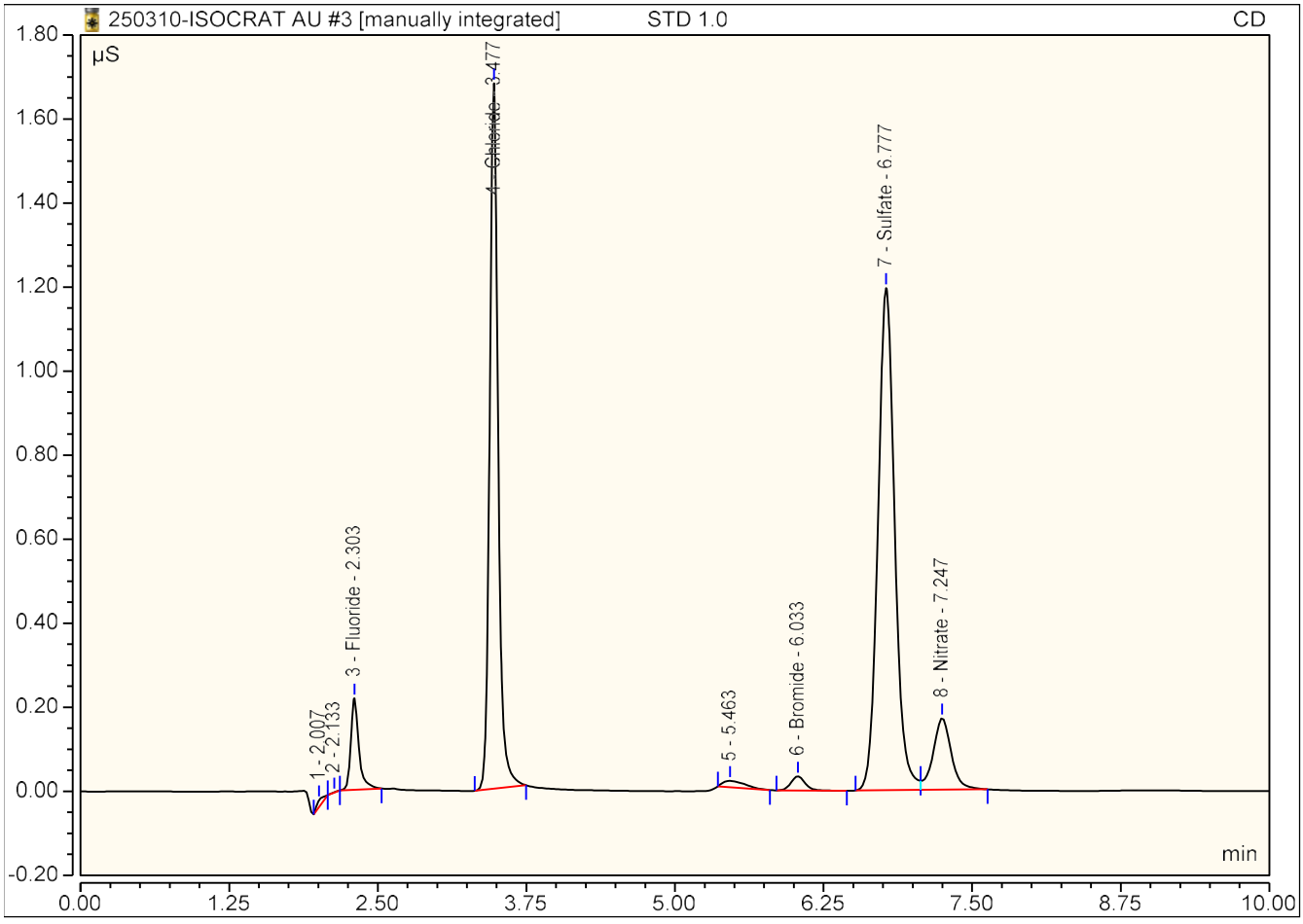
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	2.30	**Fluoride**	BMB	0.008	0.097	0.0395
4	3.47	**Chloride**	BMB	0.062	0.727	0.2684
6	6.03	**Bromide**	BMB	0.002	0.016	0.0514
7	6.78	**Sulfate**	BM *	0.084	0.504	0.5313
8	7.25	**Nitrate**	MB*	0.014	0.079	0.0463
TOTAL:				0.17	1.42	0.94



Peak Integration Report

Sample Name:	**STD 1.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Mar-2025 / 19:19**	*Run Time:*	**10.00**

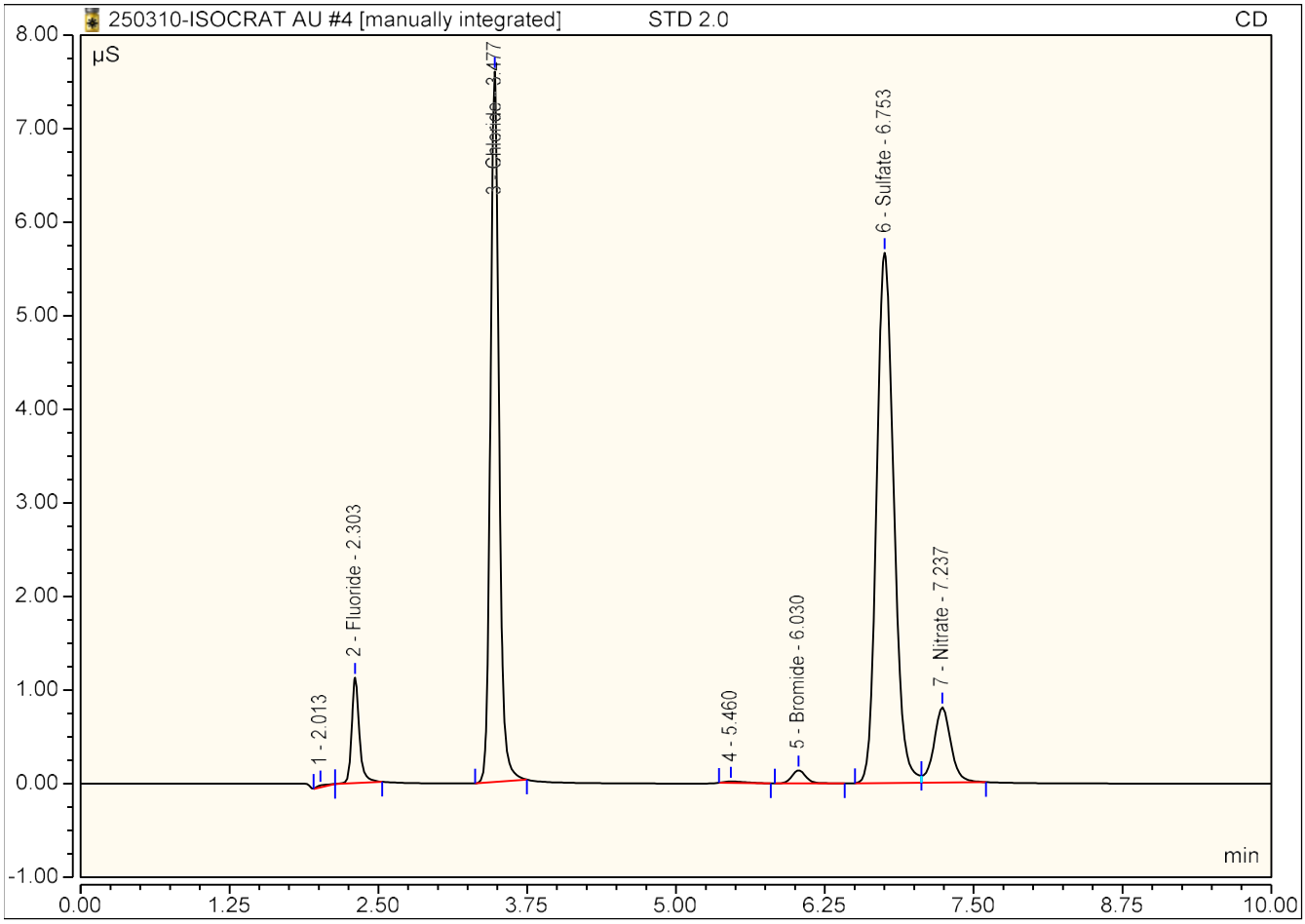
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	2.30	**Fluoride**	BMB	0.017	0.218	0.0573
4	3.48	**Chloride**	BMB	0.140	1.679	0.4952
6	6.03	**Bromide**	BMB	0.005	0.034	0.0721
7	6.78	**Sulfate**	BM *	0.195	1.195	0.9629
8	7.25	**Nitrate**	MB*	0.030	0.170	0.0651
TOTAL:				0.39	3.30	1.65



Peak Integration Report

Sample Name:	**STD 2.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Mar-2025 / 19:31**	*Run Time:*	**10.00**

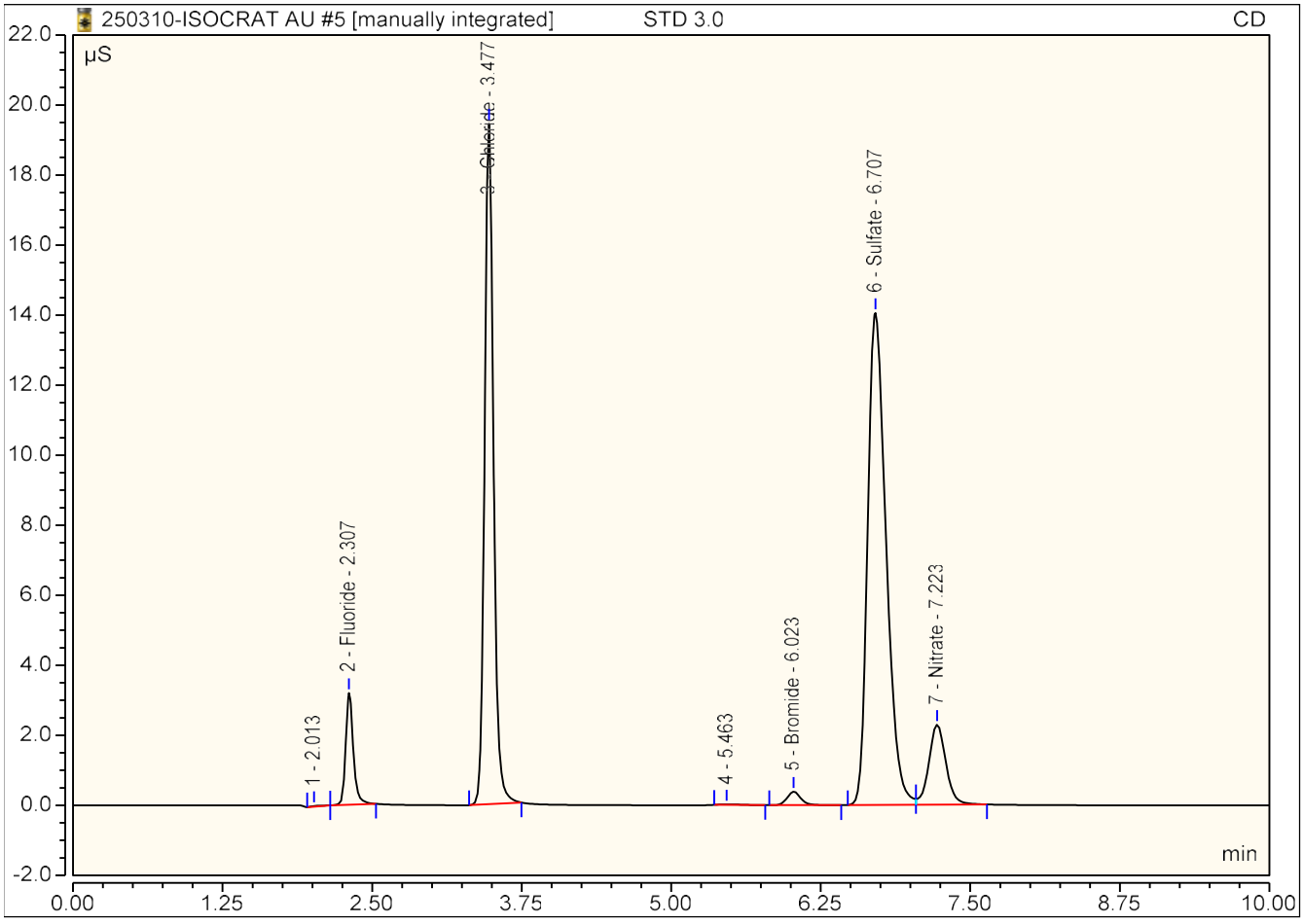
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.082	1.127	0.1825
3	3.48	**Chloride**	BMB	0.643	7.591	1.9581
5	6.03	**Bromide**	BMB	0.019	0.141	0.1900
6	6.75	**Sulfate**	BM *	0.945	5.665	3.8903
7	7.24	**Nitrate**	MB*	0.133	0.804	0.1855
TOTAL:				1.82	15.33	6.41



Peak Integration Report

Sample Name:	**STD 3.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Mar-2025 / 19:43**	*Run Time:*	**10.00**

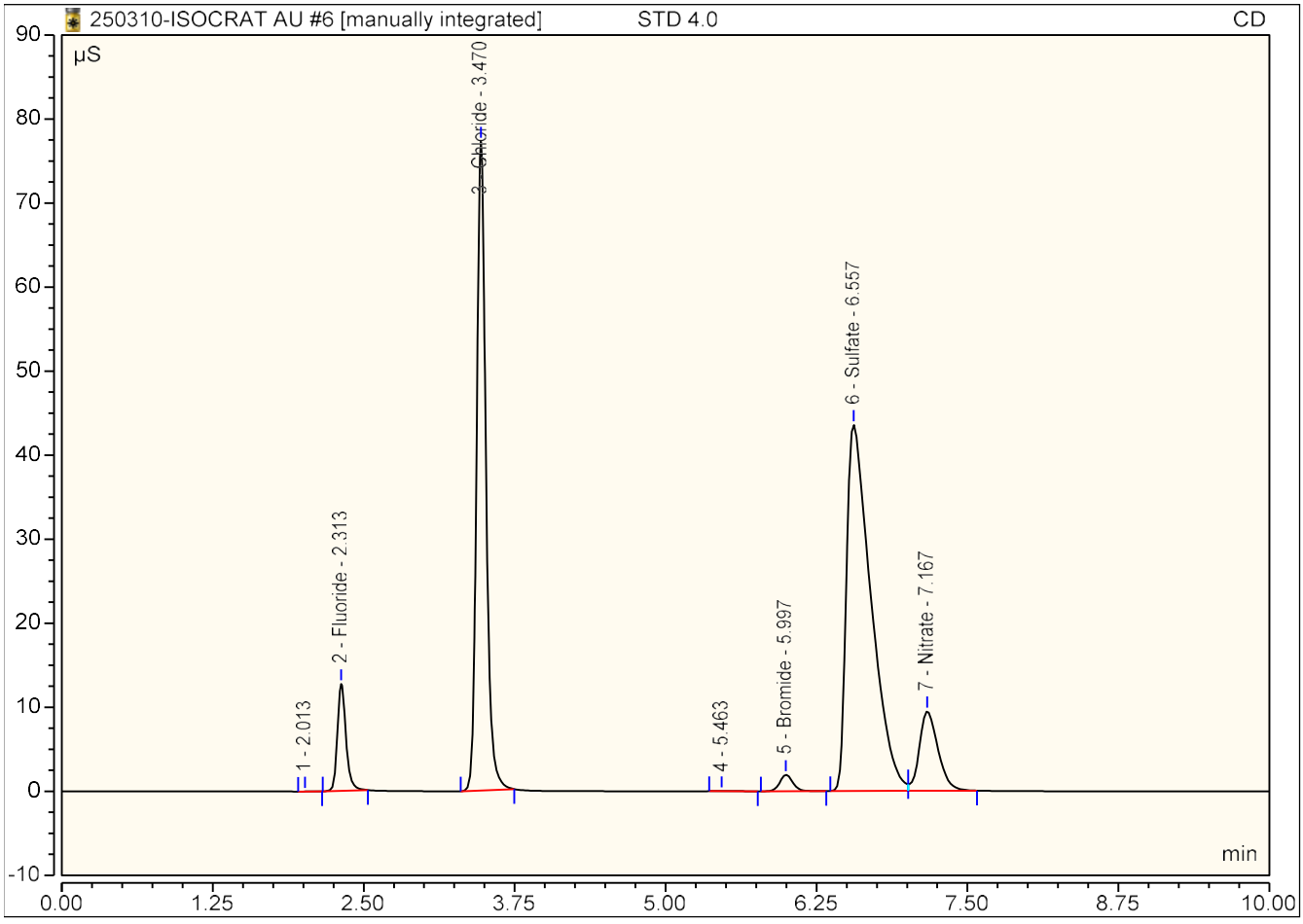
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.236	3.190	0.4771
3	3.48	**Chloride**	BMB	1.680	19.436	4.9752
5	6.02	**Bromide**	BMB	0.052	0.388	0.4486
6	6.71	**Sulfate**	BM *	2.500	14.051	9.9595
7	7.22	**Nitrate**	MB*	0.377	2.284	0.4697
TOTAL:				4.85	39.35	16.33



Peak Integration Report

Sample Name:	**STD 4.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Mar-2025 / 19:55**	*Run Time:*	**10.00**

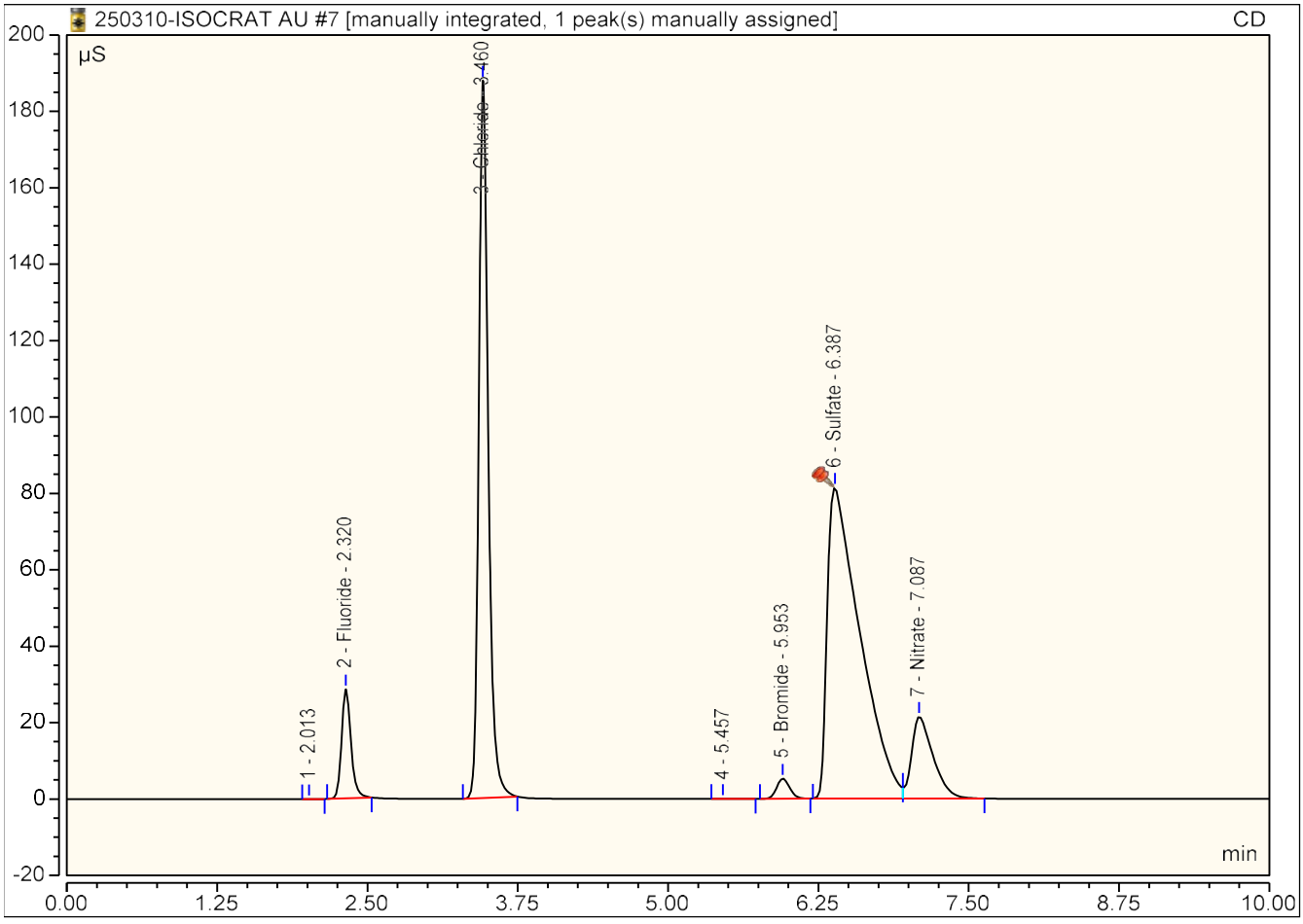
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	1.043	12.703	2.0262
3	3.47	**Chloride**	BMB	6.876	77.211	20.0817
5	6.00	**Bromide**	BMB	0.248	1.949	2.0130
6	6.56	**Sulfate**	BM *	10.261	43.563	40.2455
7	7.17	**Nitrate**	MB*	1.694	9.469	2.0084
TOTAL:				20.12	144.90	66.37



Peak Integration Report

Sample Name:	**STD 5.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Mar-2025 / 20:08**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	2.589	28.581	4.9924
3	3.46	**Chloride**	BMB	17.155	187.803	49.9715
5	5.95	**Bromide**	BMB	0.672	5.286	5.3987
6	6.39	**Sulfate**	BM *^	25.551	81.356	99.9104
7	7.09	**Nitrate**	MB*	4.428	21.412	5.2029
TOTAL:				50.39	324.44	165.48



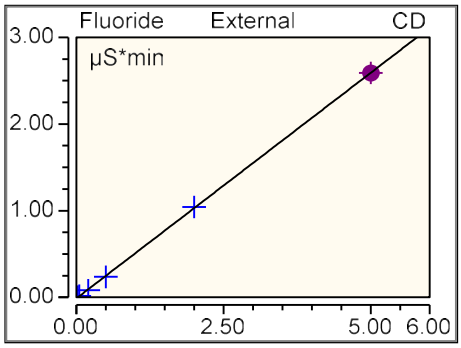
Calibration Batch Report

Sequence:	**250310-ISOCRAT AU**	*Injection Volume:*	**25.00**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Mar-2025 / 20:08**	*Run Time:*	**10**

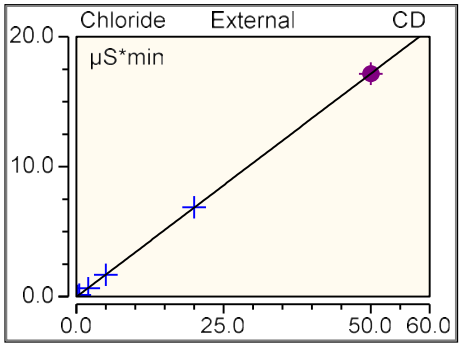
Calibration Summary

Peak Name	Eval.Type	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Coeff.Det. %
Fluoride	Area	in, WithOffse	6.000	-0.013	0.521	0.000	99.9904
Chloride	Area	in, WithOffse	6.000	-0.031	0.344	0.000	99.9995
Bromide	Area	in, WithOffse	5.000	-0.004	0.125	0.000	99.8514
Sulfate	Area	in, WithOffse	6.000	-0.052	0.256	0.000	99.9989
Nitrate	Area	in, WithOffse	5.000	-0.025	0.856	0.000	99.9317
		AVERAGE:		-0.0250	0.4205	0.0000	99.9544

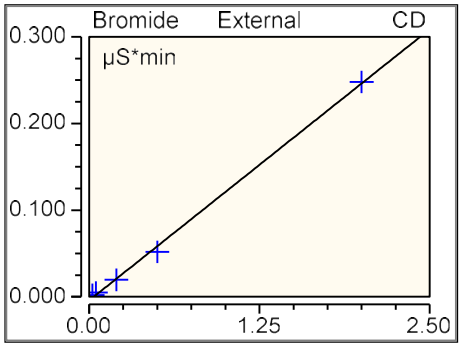
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Fluoride	Fluoride	Fluoride	Fluoride
STD 0.5	2.303	0.0077	0.097	0.040
STD 1.0	2.303	0.0170	0.218	0.057
STD 2.0	2.303	0.0823	1.127	0.183
STD 3.0	2.307	0.2358	3.190	0.477
STD 4.0	2.313	1.0431	12.703	2.026
STD 5.0	2.320	2.5888	28.581	4.992
Average	2.308			
Rel. Std. Dev.	0.299 %			



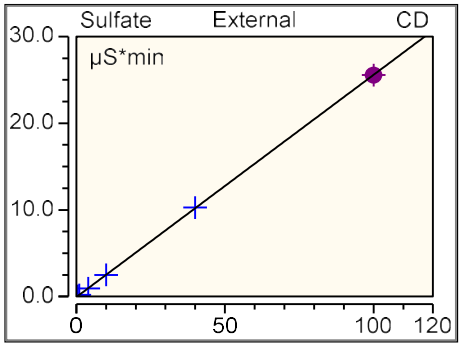
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Chloride	Chloride	Chloride	Chloride
STD 0.5	3.473	0.0617	0.727	0.268
STD 1.0	3.477	0.1397	1.679	0.495
STD 2.0	3.477	0.6428	7.591	1.958
STD 3.0	3.477	1.6804	19.436	4.975
STD 4.0	3.470	6.8756	77.211	20.082
STD 5.0	3.460	17.1549	187.803	49.971
Average	3.472			
Rel. Std. Dev.	0.189 %			



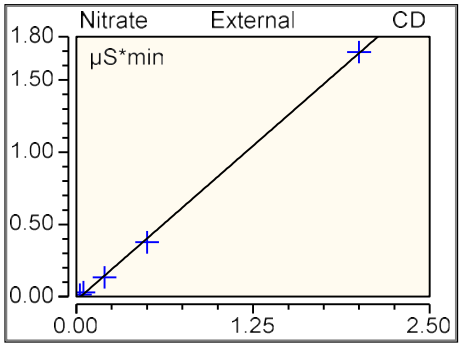
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Bromide	Bromide	Bromide	Bromide
STD 0.5	6.033	0.0021	0.016	0.051
STD 1.0	6.033	0.0047	0.034	0.072
STD 2.0	6.030	0.0195	0.141	0.190
STD 3.0	6.023	0.0519	0.388	0.449
STD 4.0	5.997	0.2478	1.949	2.013
STD 5.0	5.953	0.6720	5.286	5.399
Average	6.012			
Rel. Std. Dev.	0.528 %			



Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Sulfate	Sulfate	Sulfate	Sulfate
STD 0.5	6.780	0.0843	0.504	0.531
STD 1.0	6.777	0.1949	1.195	0.963
STD 2.0	6.753	0.9451	5.665	3.890
STD 3.0	6.707	2.5004	14.051	9.959
STD 4.0	6.557	10.2614	43.563	40.246
STD 5.0	6.387	25.5509	81.356	99.910
Average	6.660			
Rel. Std. Dev.	2.367 %			



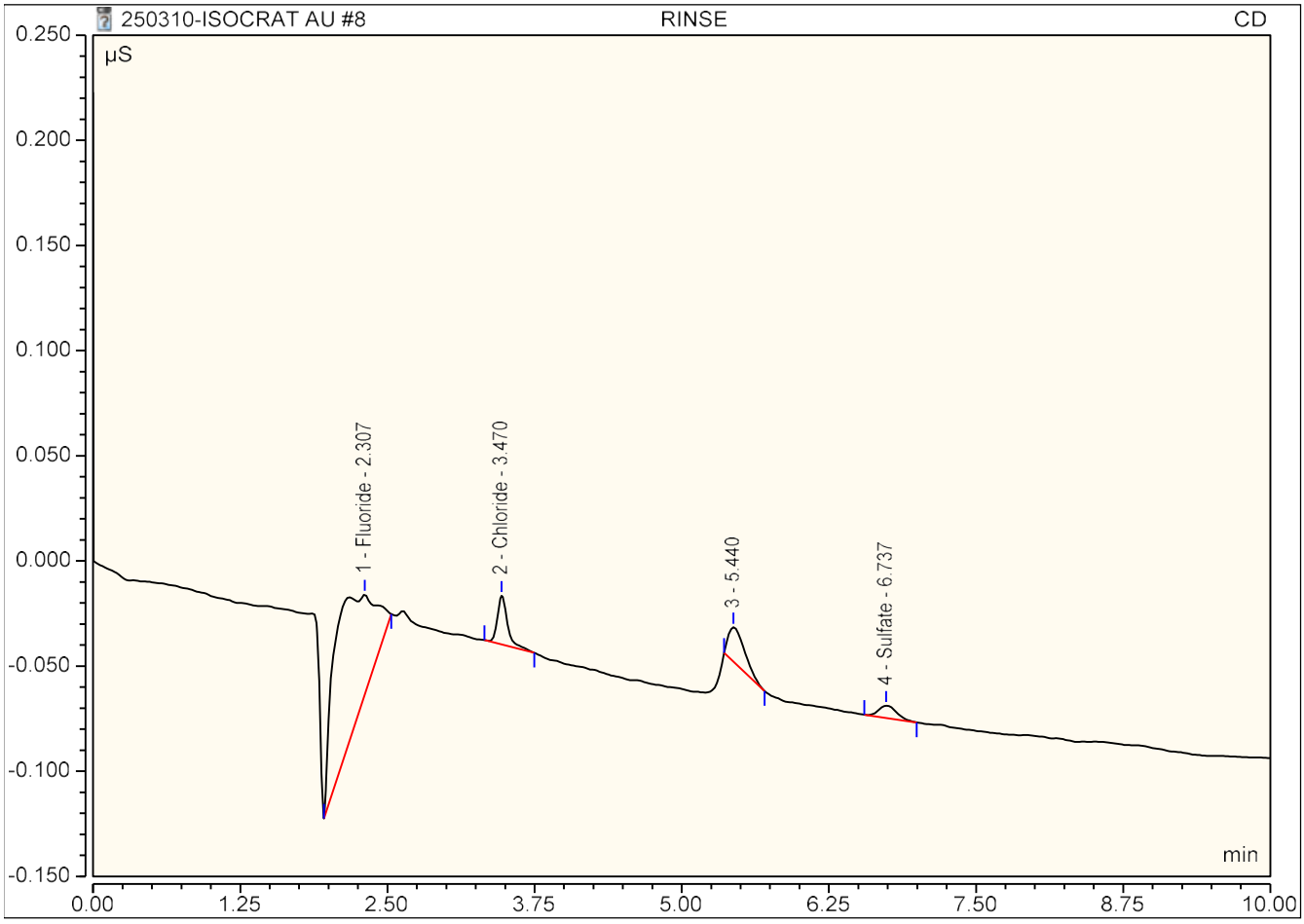
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Nitrate	Nitrate	Nitrate	Nitrate
STD 0.5	7.250	0.0142	0.079	0.046
STD 1.0	7.247	0.0302	0.170	0.065
STD 2.0	7.237	0.1333	0.804	0.186
STD 3.0	7.223	0.3766	2.284	0.470
STD 4.0	7.167	1.6937	9.469	2.008
STD 5.0	7.087	4.4282	21.412	5.203
Average	7.202			
Rel. Std. Dev.	0.889 %			



Peak Integration Report

Sample Name:	**RINSE**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**10-Mar-2025 / 15:22**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.31	**Fluoride**	BMB	0.025	0.048	0.0731
2	3.47	**Chloride**	BMB	0.002	0.023	0.0956
4	6.74	**Sulfate**	BMB	0.001	0.006	0.2064
TOTAL:				0.03	0.08	0.38

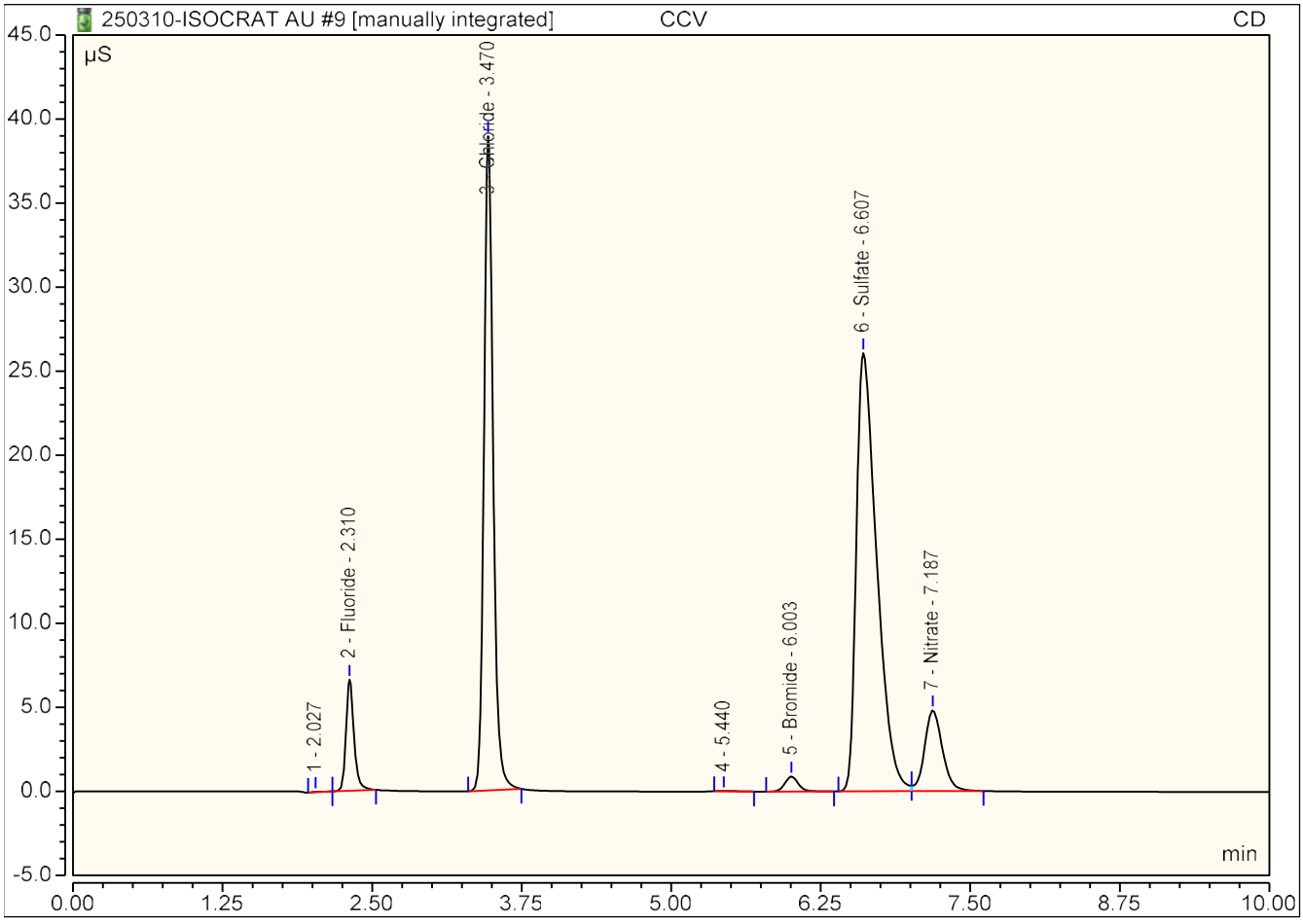


Chromeleon (c) Dionex 1996-2009
Version 7.2.9.11323

Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**10-Mar-2025 / 15:34**	*Run Time:*	**10.00**

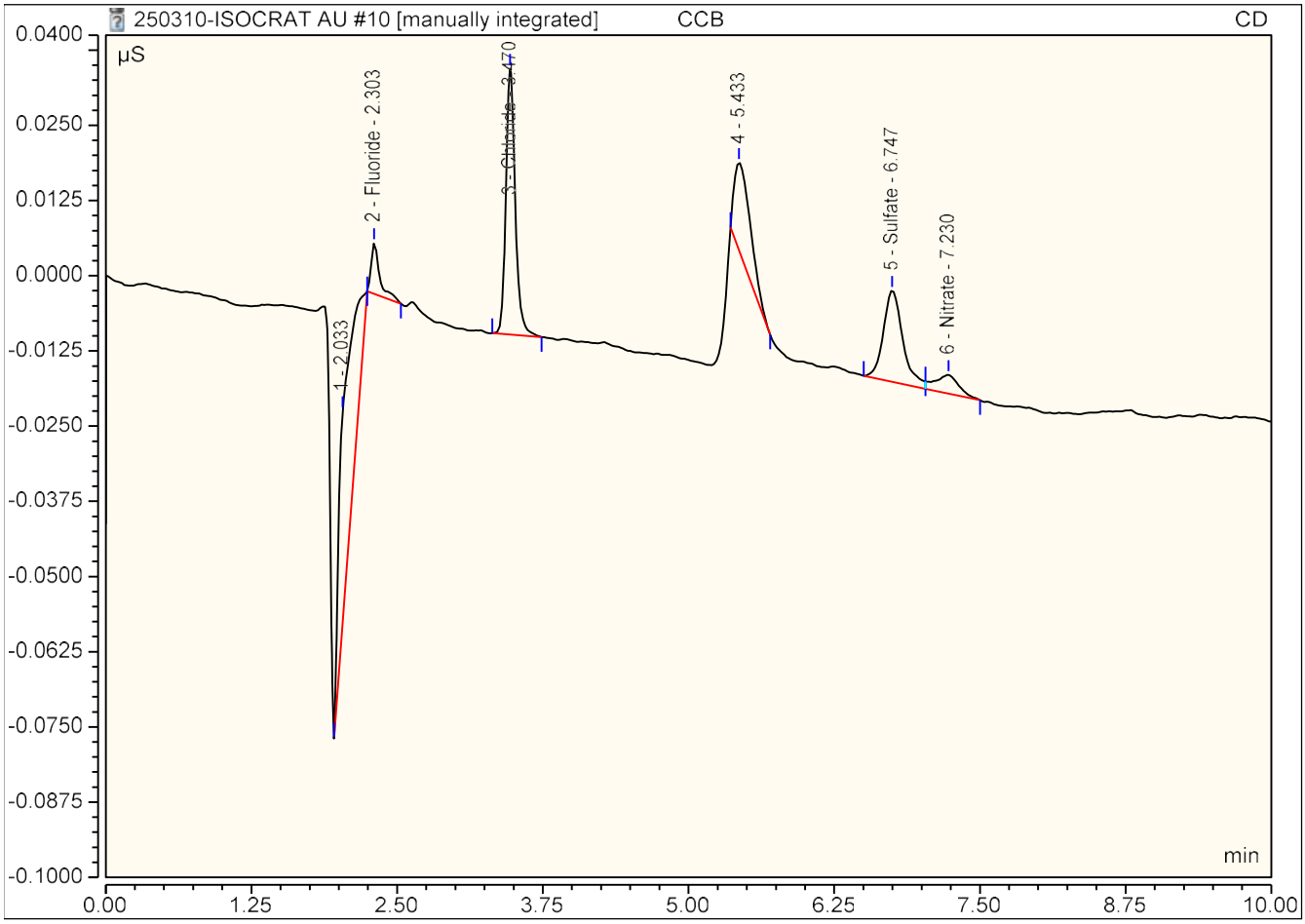
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.509	6.610	1.0020
3	3.47	**Chloride**	BMB	3.464	38.918	10.1605
5	6.00	**Bromide**	BMB	0.119	0.899	0.9823
6	6.61	**Sulfate**	BM *	5.160	26.066	20.3383
7	7.19	**Nitrate**	MB*	0.828	4.818	0.9973
TOTAL:				10.08	77.31	33.48



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**10-Mar-2025 / 15:46**	*Run Time:*	**10.00**

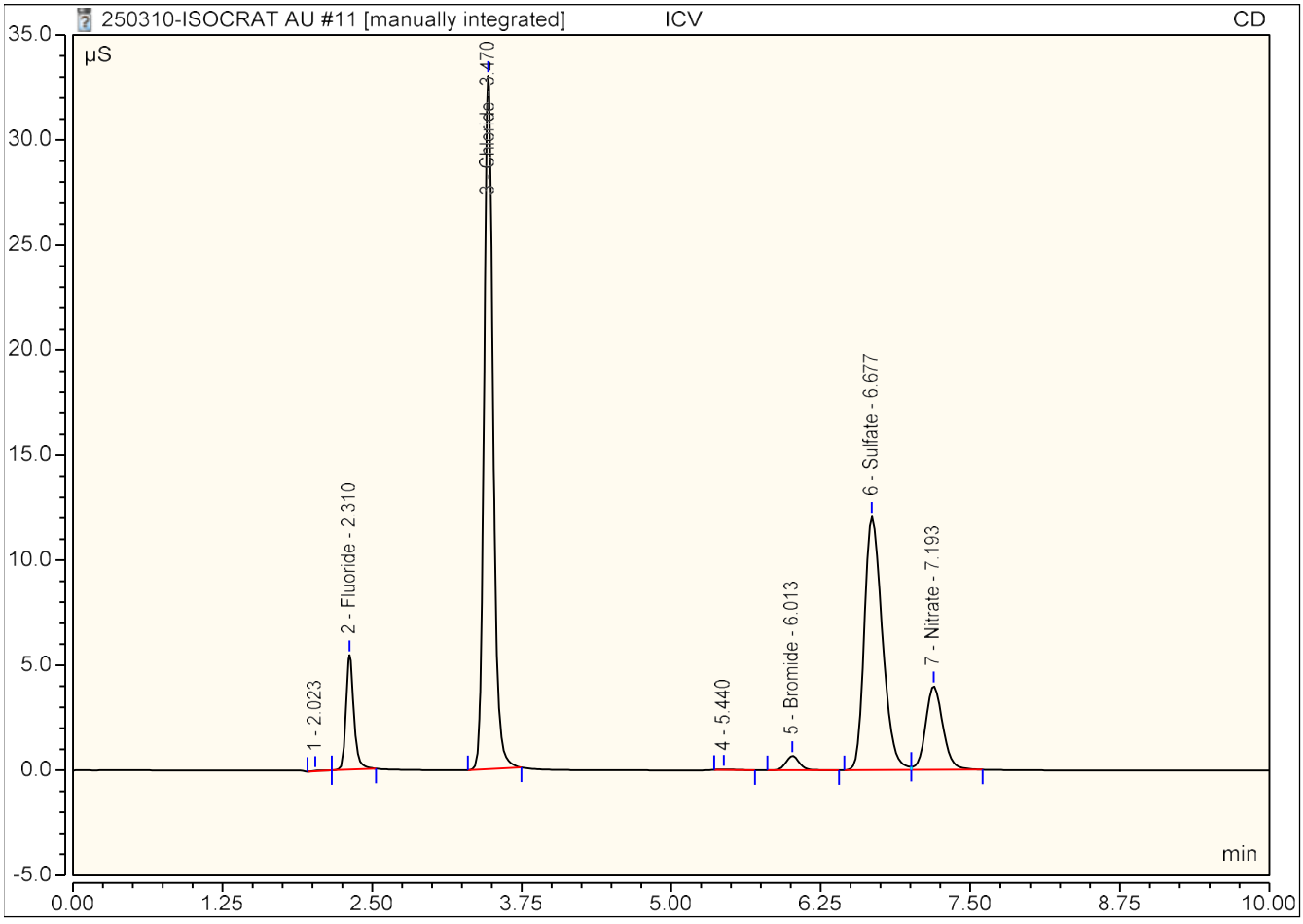
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.001	0.008	0.0260
3	3.47	**Chloride**	BMB	0.004	0.044	0.1007
5	6.75	**Sulfate**	BM *	0.003	0.015	0.2137
6	7.23	**Nitrate**	MB*	0.001	0.003	0.0306
TOTAL:				0.01	0.07	0.37



Peak Integration Report

Sample Name:	**ICV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**10-Mar-2025 / 15:58**	*Run Time:*	**10.00**

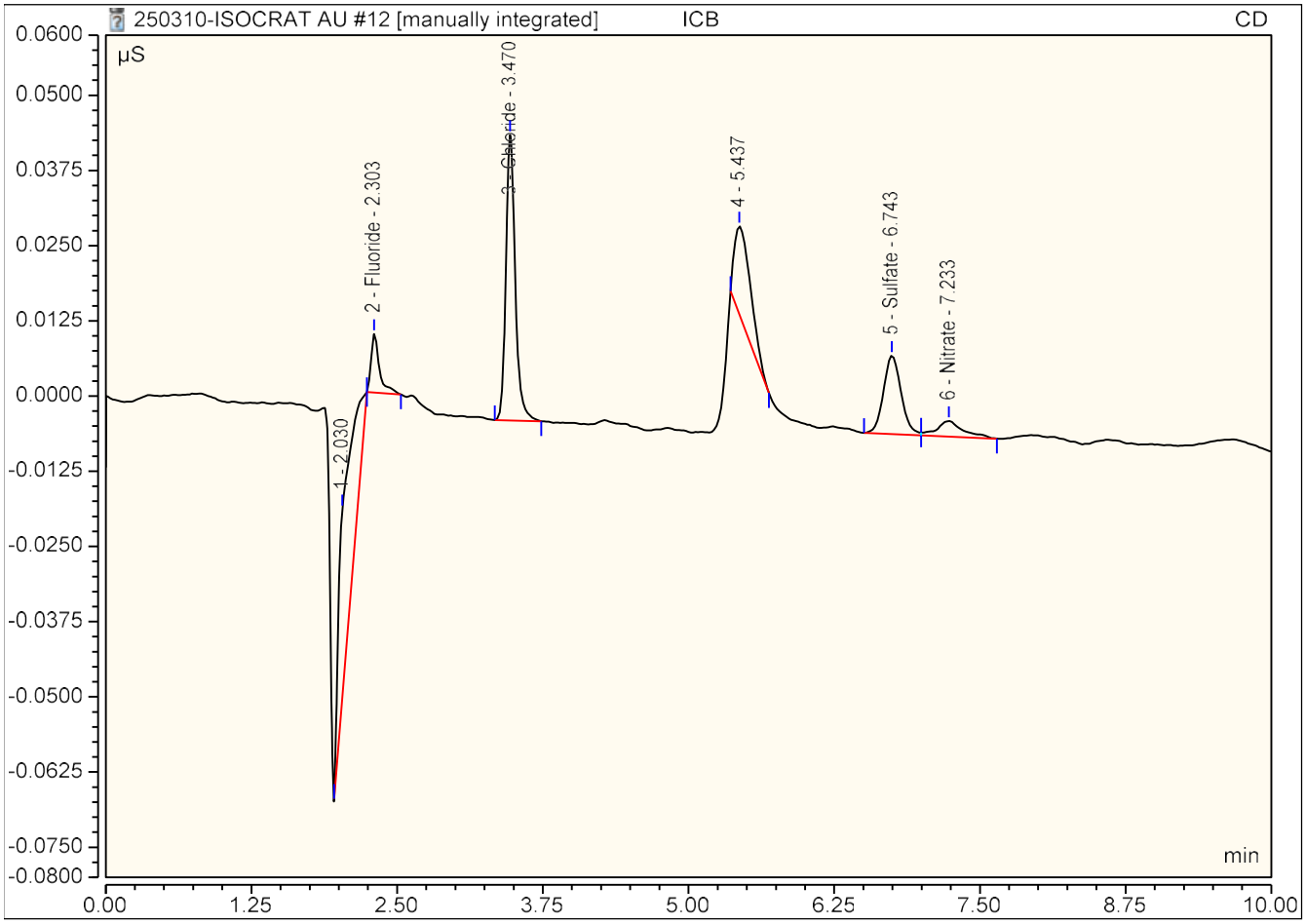
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.416	5.456	0.8225
3	3.47	**Chloride**	BMB	2.922	33.002	8.5868
5	6.01	**Bromide**	BMB	0.092	0.687	0.7676
6	6.68	**Sulfate**	BM *	2.106	12.067	8.4191
7	7.19	**Nitrate**	MB*	0.666	3.987	0.8080
TOTAL:				6.20	55.20	19.40



Peak Integration Report

Sample Name:	**ICB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**10-Mar-2025 / 16:10**	*Run Time:*	**10.00**

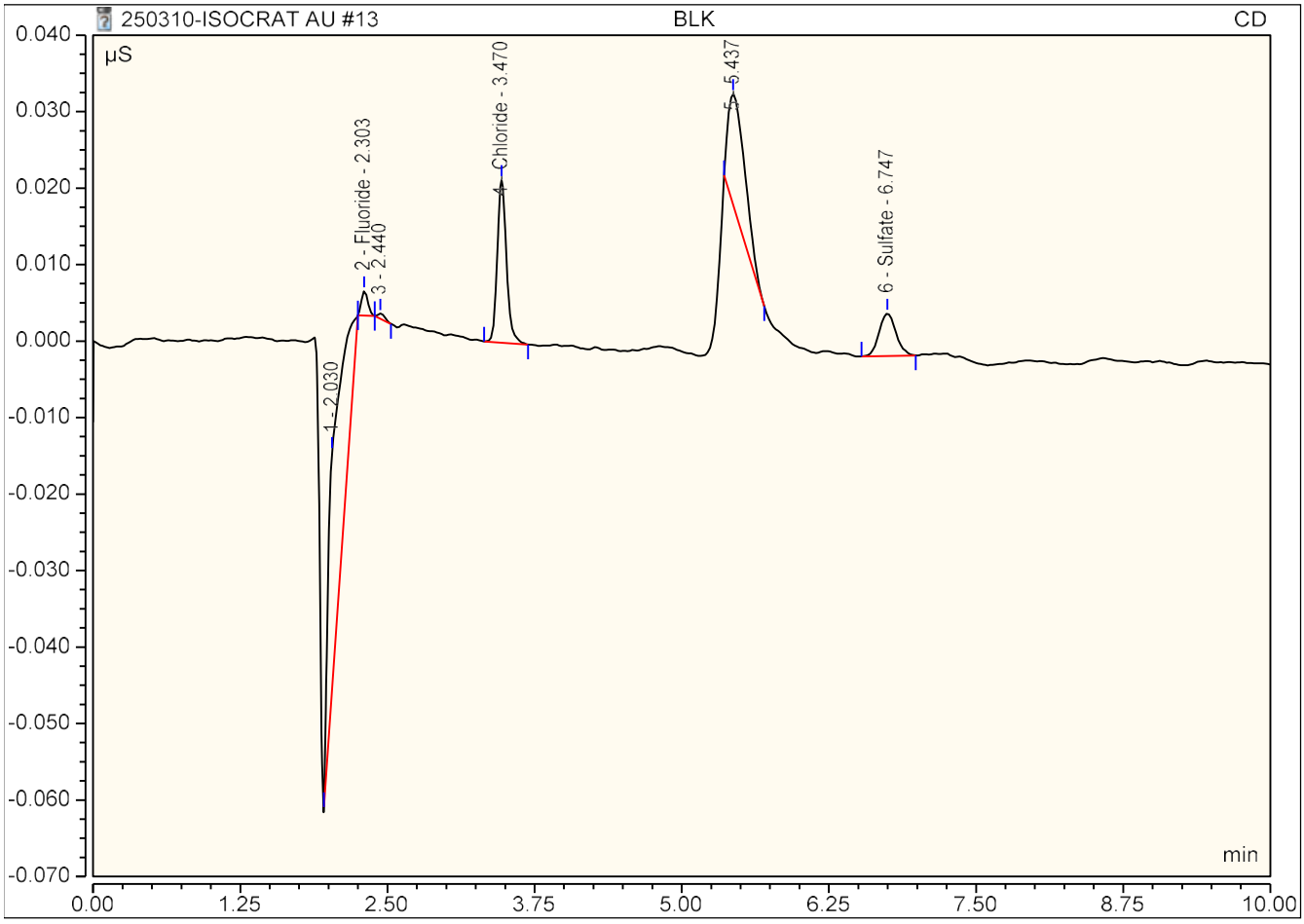
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.001	0.010	0.0262
3	3.47	**Chloride**	BMB	0.004	0.047	0.1016
5	6.74	**Sulfate**	BM *	0.002	0.013	0.2112
6	7.23	**Nitrate**	MB*	0.001	0.003	0.0306
TOTAL:				0.01	0.07	0.37



Peak Integration Report

Sample Name:	**BLK**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**10-Mar-2025 / 16:22**	*Run Time:*	**10.00**

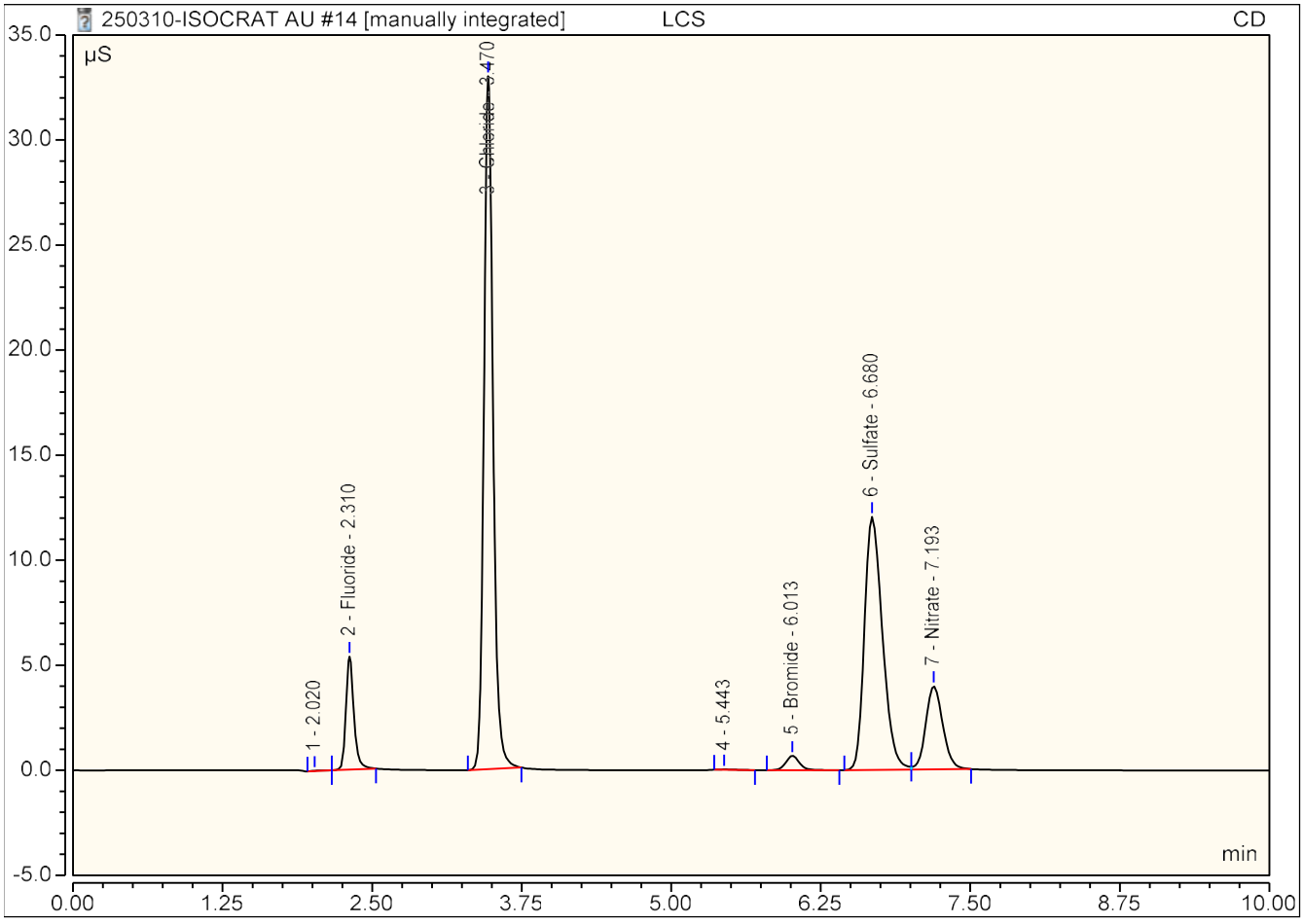
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.000	0.003	0.0251
4	3.47	**Chloride**	BMB	0.002	0.021	0.0945
6	6.75	**Sulfate**	BMB	0.001	0.006	0.2058
TOTAL:				0.00	0.03	0.33



Peak Integration Report

Sample Name:	**LCS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**10-Mar-2025 / 16:34**	*Run Time:*	**10.00**

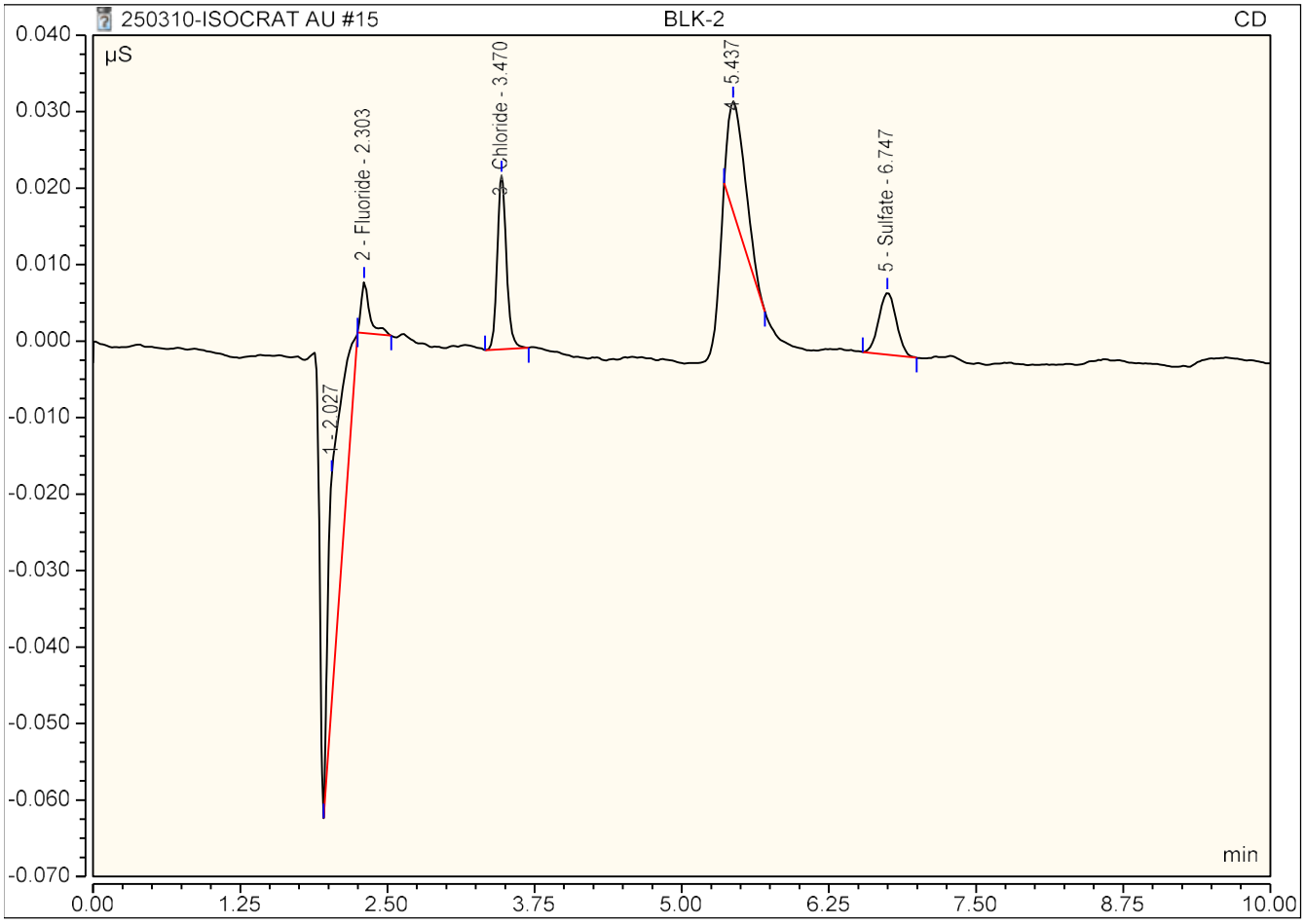
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.413	5.378	0.8170
3	3.47	**Chloride**	BMB	2.923	32.988	8.5887
5	6.01	**Bromide**	BMB	0.091	0.683	0.7598
6	6.68	**Sulfate**	BM *	2.097	12.039	8.3873
7	7.19	**Nitrate**	MB*	0.652	3.966	0.7914
TOTAL:				6.18	55.05	19.34



Peak Integration Report

Sample Name:	**BLK-2**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**10-Mar-2025 / 16:46**	*Run Time:*	**10.00**

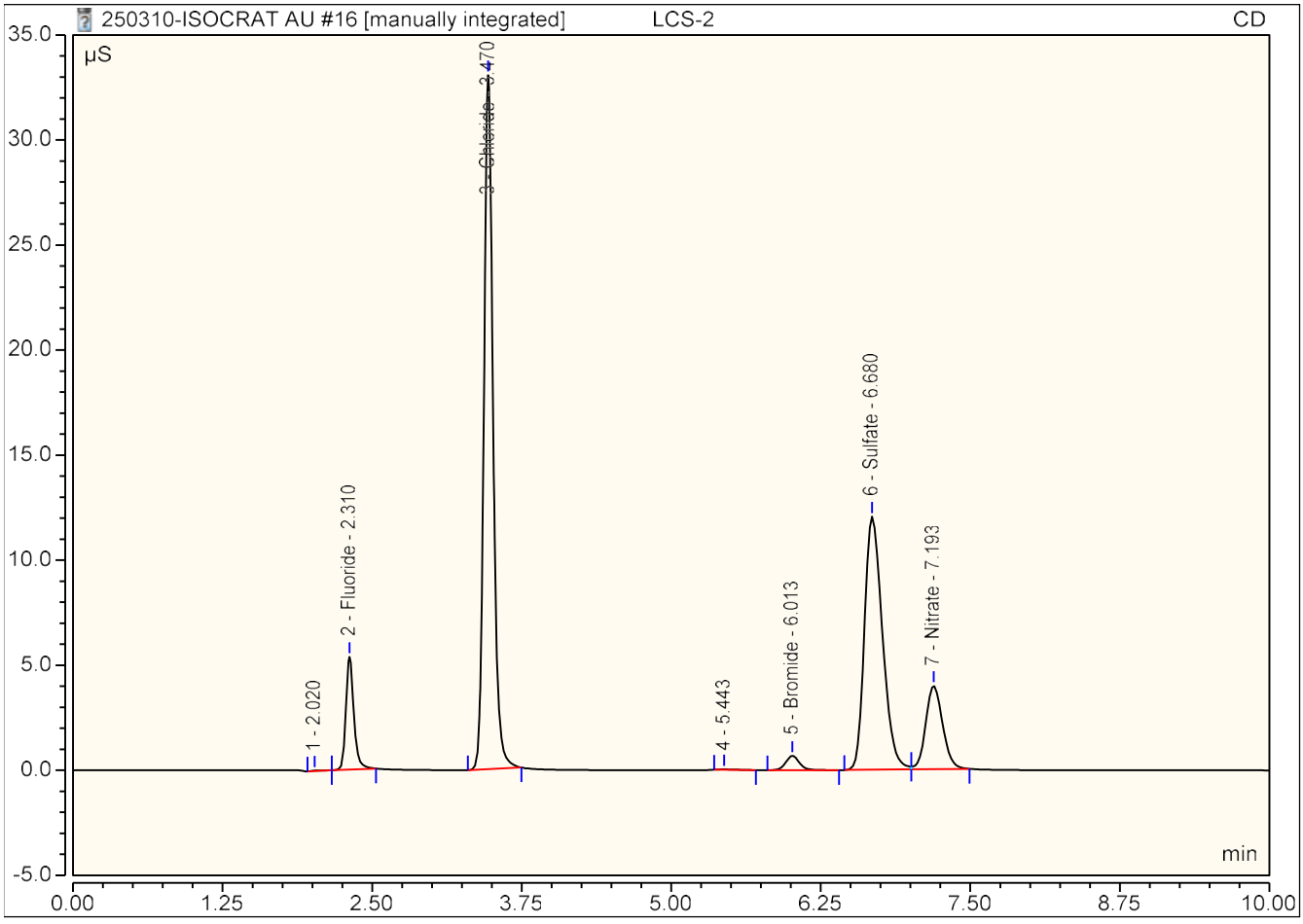
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.001	0.007	0.0258
3	3.47	**Chloride**	BMB	0.002	0.023	0.0948
5	6.75	**Sulfate**	BMB	0.001	0.008	0.2077
TOTAL:				0.00	0.04	0.33



Peak Integration Report

Sample Name:	**LCS-2**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**10-Mar-2025 / 16:59**	*Run Time:*	**10.00**

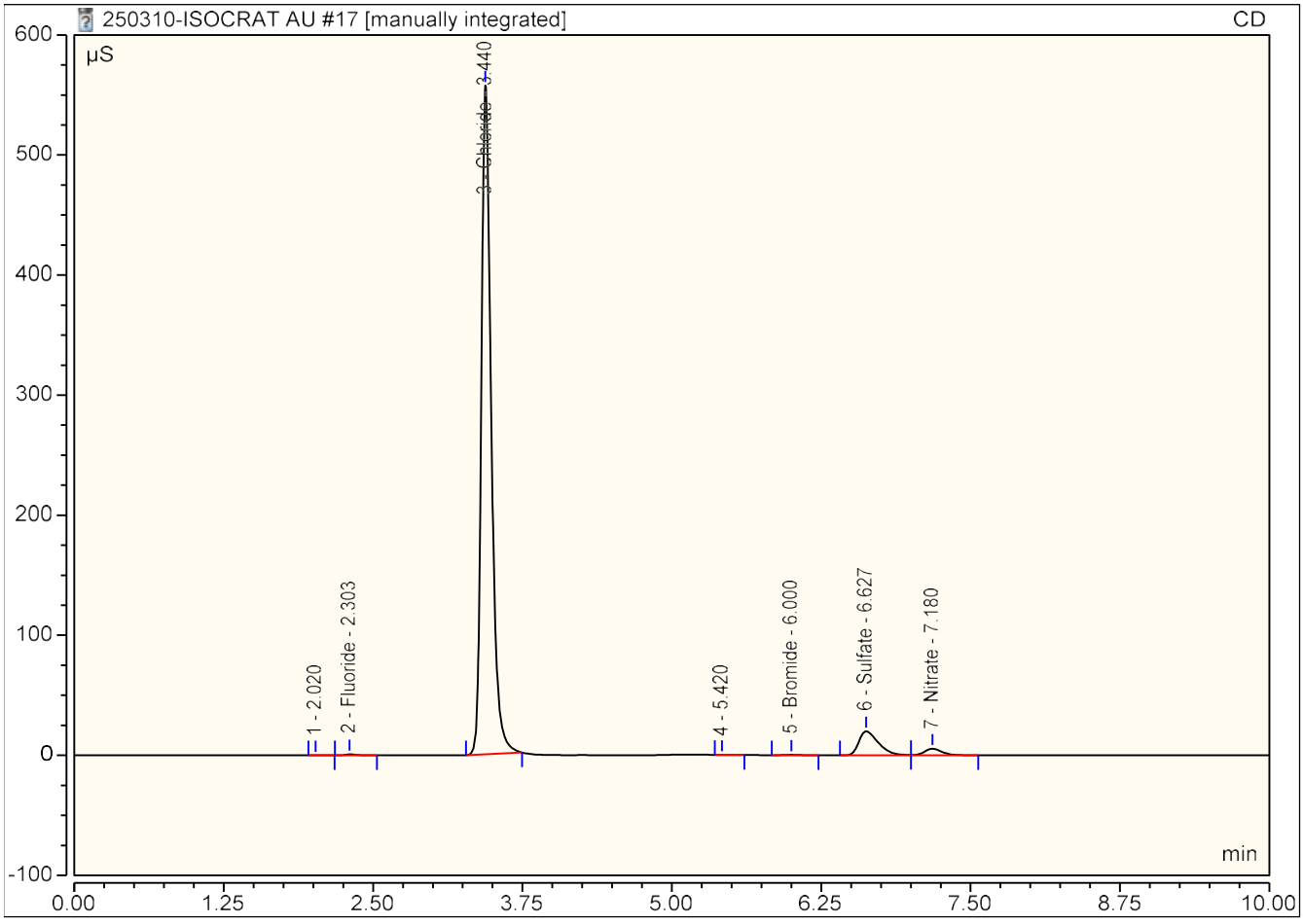
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.413	5.364	0.8169
3	3.47	**Chloride**	BMB	2.923	33.031	8.5869
5	6.01	**Bromide**	BMB	0.091	0.684	0.7576
6	6.68	**Sulfate**	BM *	2.097	12.048	8.3844
7	7.19	**Nitrate**	MB*	0.650	3.972	0.7895
TOTAL:				6.17	55.10	19.34



Peak Integration Report

Sample Name:	**L2511911-07 CL SO4 BR**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**10-Mar-2025 / 17:11**	*Run Time:*	**10.00**

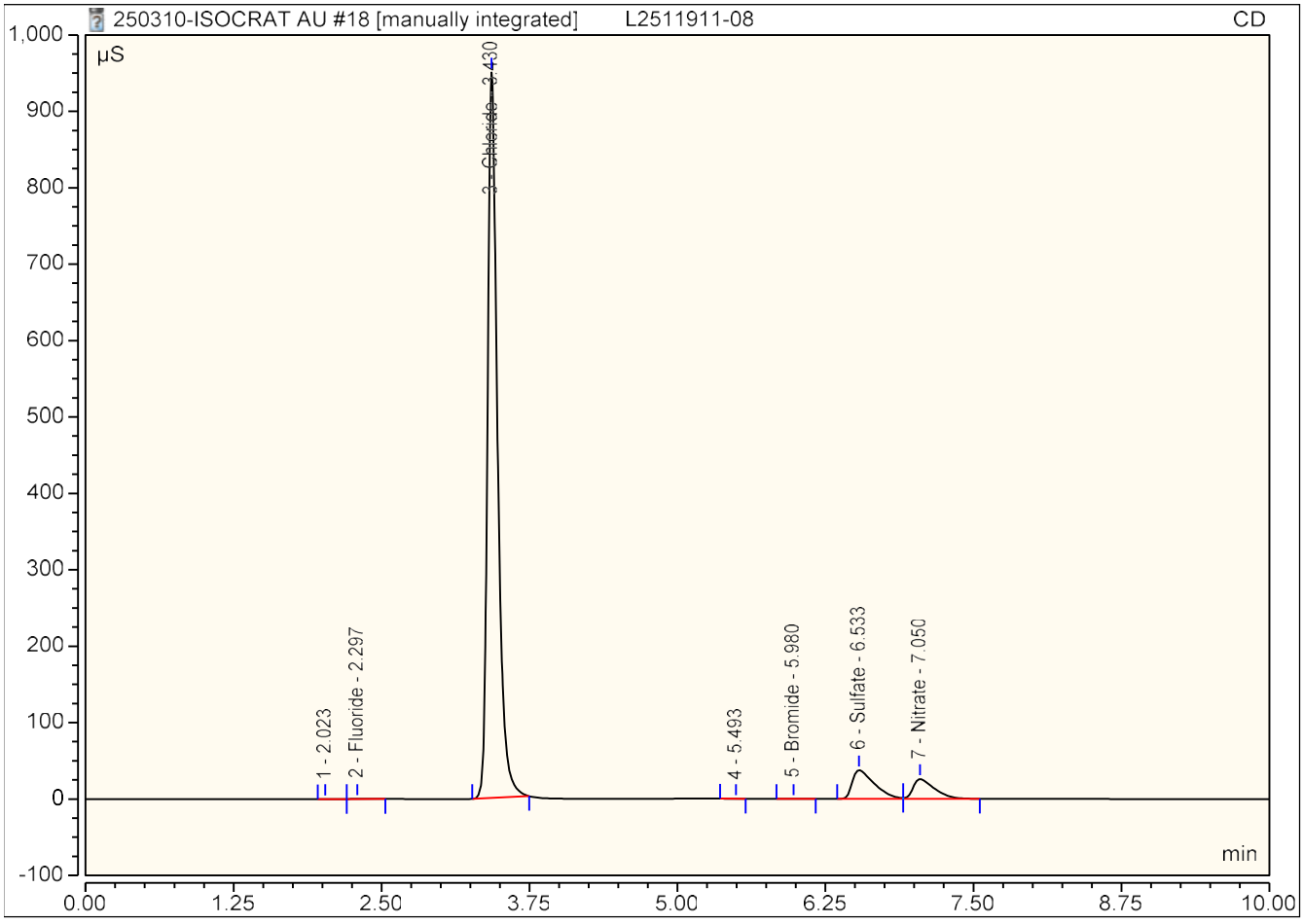
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.074	0.893	0.1671
3	3.44	**Chloride**	BMB	53.495	557.002	155.6392
5	6.00	**Bromide**	BMB	0.045	0.352	0.3950
6	6.63	**Sulfate**	BM *	3.774	20.041	14.9309
7	7.18	**Nitrate**	MB*	0.919	5.444	1.1038
TOTAL:				58.31	583.73	172.24



Peak Integration Report

Sample Name:	**L2511911-08**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**10-Mar-2025 / 17:23**	*Run Time:*	**10.00**

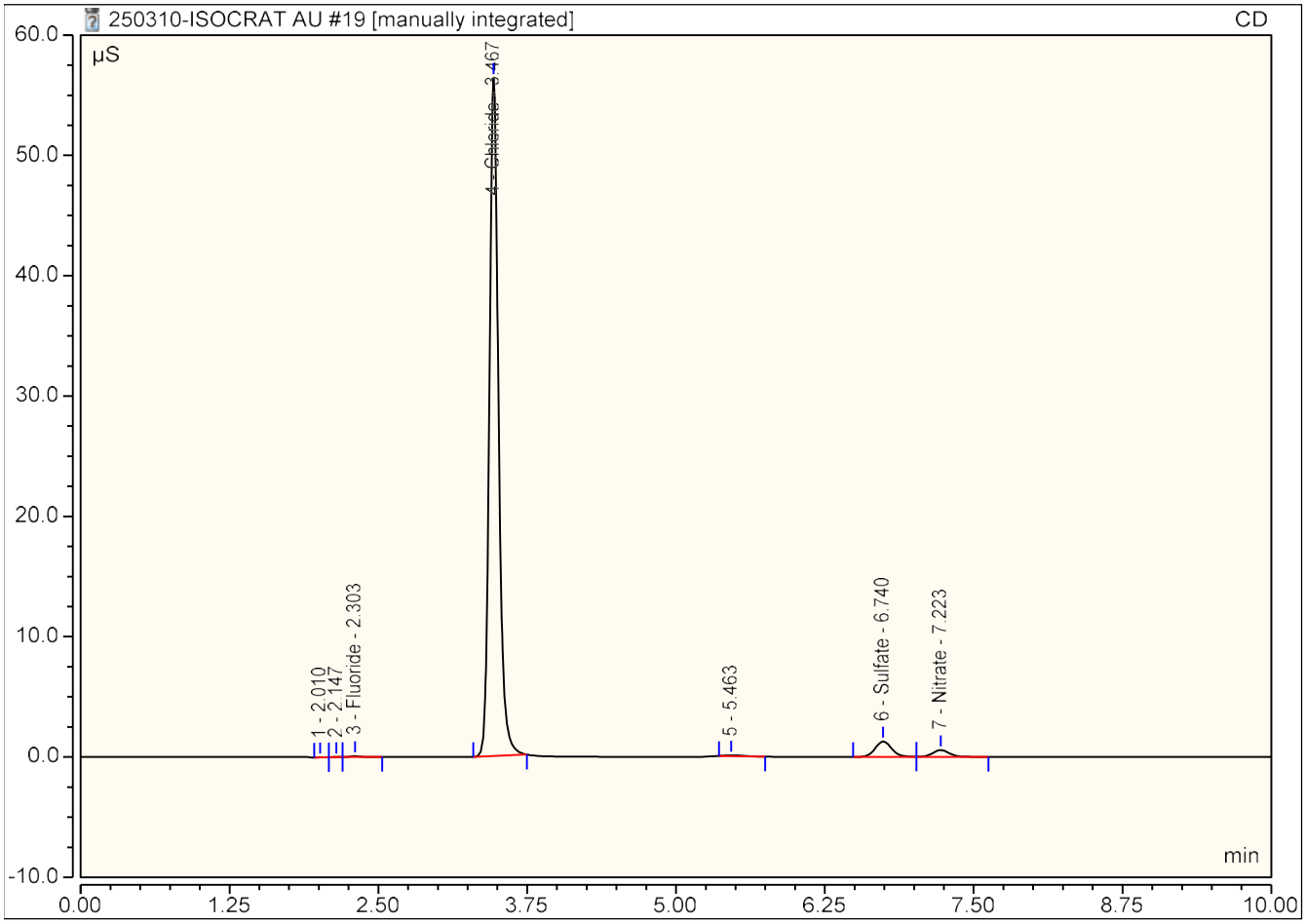
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.014	0.172	0.0524
3	3.43	**Chloride**	BMB	92.571	949.692	269.2638
5	5.98	**Bromide**	BMB	0.019	0.151	0.1842
6	6.53	**Sulfate**	BM *	8.137	37.511	31.9544
7	7.05	**Nitrate**	MB*	5.446	26.045	6.3922
TOTAL:				106.19	1013.57	307.85



Peak Integration Report

Sample Name:	**L2513130-01; 10X CL**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**10-Mar-2025 / 17:35**	*Run Time:*	**10.00**

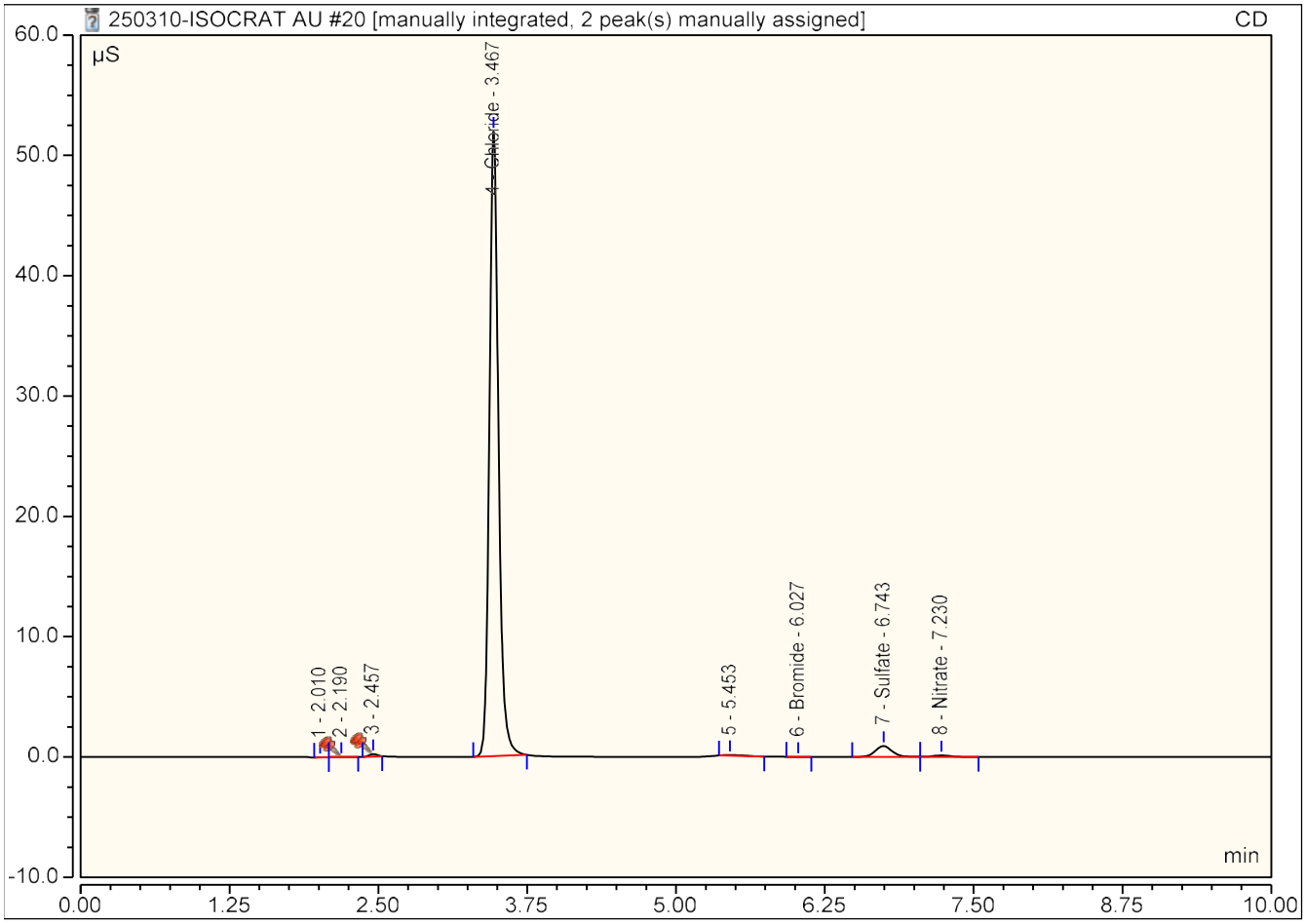
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	2.30	**Fluoride**	BMB	0.006	0.079	0.3687
4	3.47	**Chloride**	BMB	5.052	56.371	147.7753
6	6.74	**Sulfate**	BM *	0.210	1.293	10.2355
7	7.22	**Nitrate**	MB*	0.095	0.575	1.4072
TOTAL:				5.36	58.32	159.79



Peak Integration Report

Sample Name:	**L2513130-02; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**10-Mar-2025 / 17:47**	*Run Time:*	**10.00**

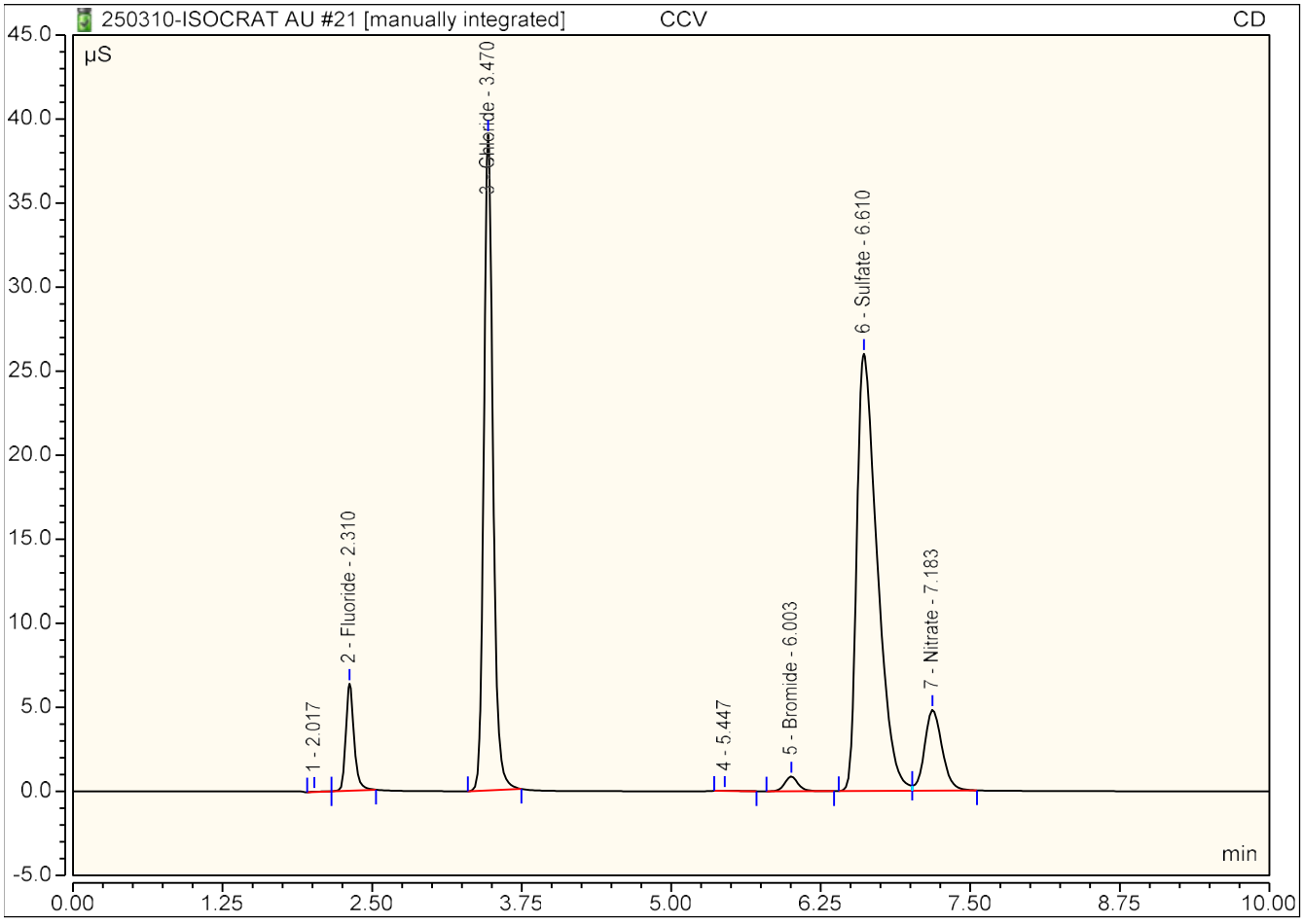
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
4	3.47	**Chloride**	BMB	4.645	51.914	135.9644
6	6.03	**Bromide**	BMB	0.000	0.001	0.3552
7	6.74	**Sulfate**	BM *	0.152	0.920	7.9633
8	7.23	**Nitrate**	MB*	0.022	0.127	0.5573
TOTAL:				4.82	52.96	144.84



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**10-Mar-2025 / 17:59**	*Run Time:*	**10.00**

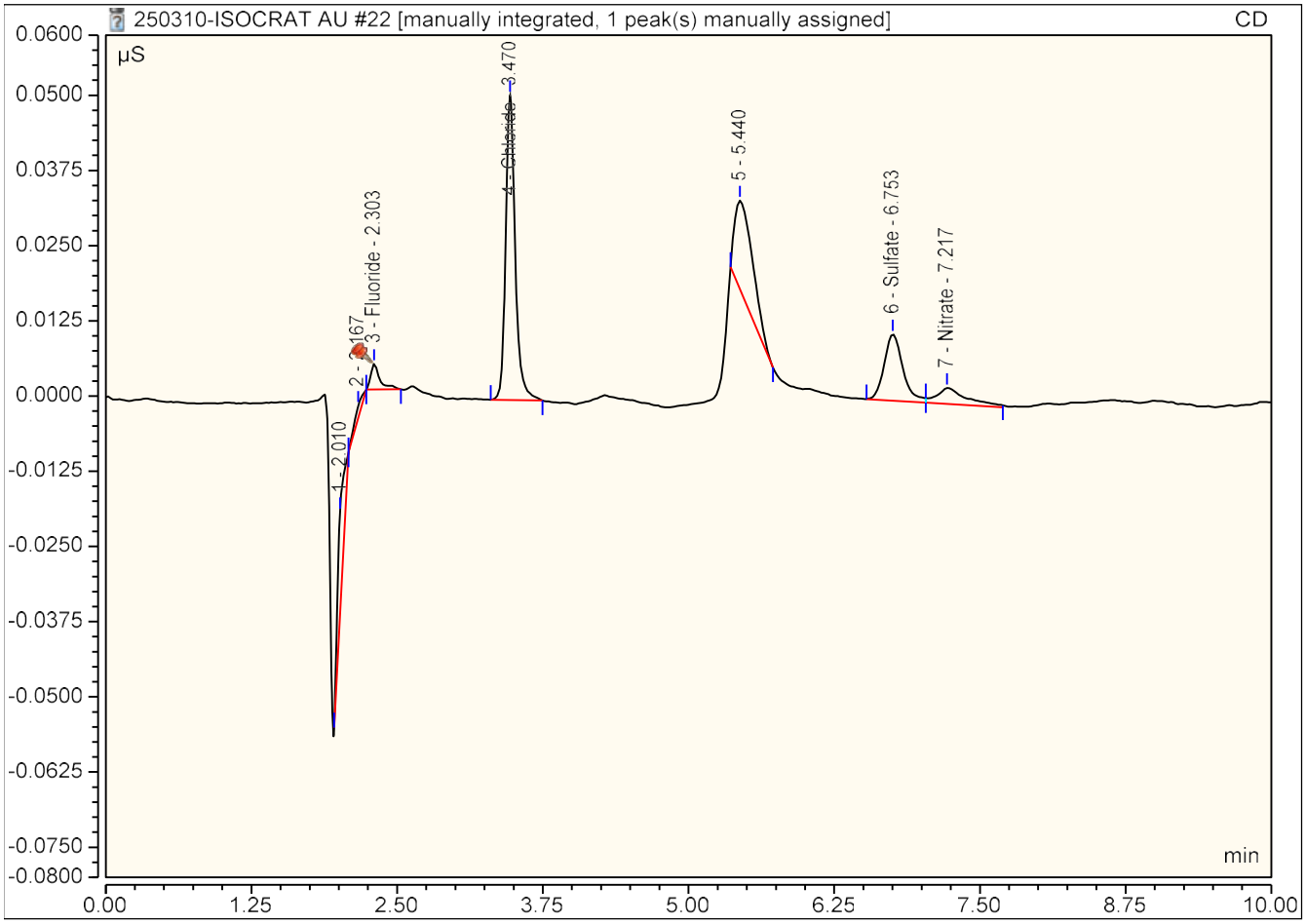
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.502	6.364	0.9881
3	3.47	**Chloride**	BMB	3.464	39.003	10.1627
5	6.00	**Bromide**	BMB	0.114	0.879	0.9476
6	6.61	**Sulfate**	BM *	5.156	26.014	20.3230
7	7.18	**Nitrate**	MB*	0.814	4.810	0.9812
TOTAL:				10.05	77.07	33.40



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**10-Mar-2025 / 18:11**	*Run Time:*	**10.00**

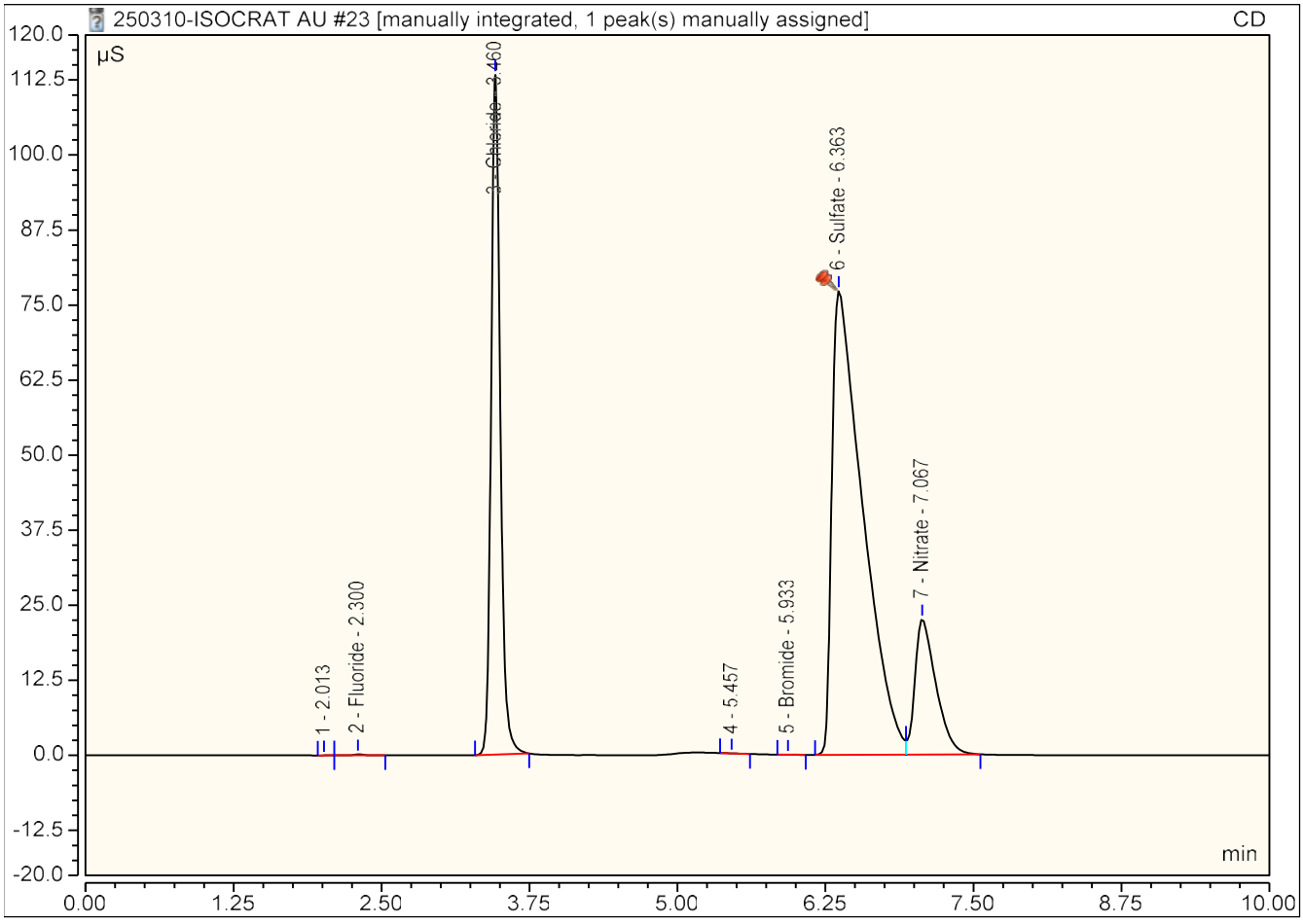
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	2.30	**Fluoride**	BMB^	0.000	0.004	0.0254
4	3.47	**Chloride**	BMB	0.005	0.051	0.1027
6	6.75	**Sulfate**	BM *	0.002	0.011	0.2103
7	7.22	**Nitrate**	M *	0.001	0.003	0.0307
TOTAL:				0.01	0.07	0.37



Peak Integration Report

Sample Name:	**L2512264-01 CL SO4 BR**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**10-Mar-2025 / 18:23**	*Run Time:*	**10.00**

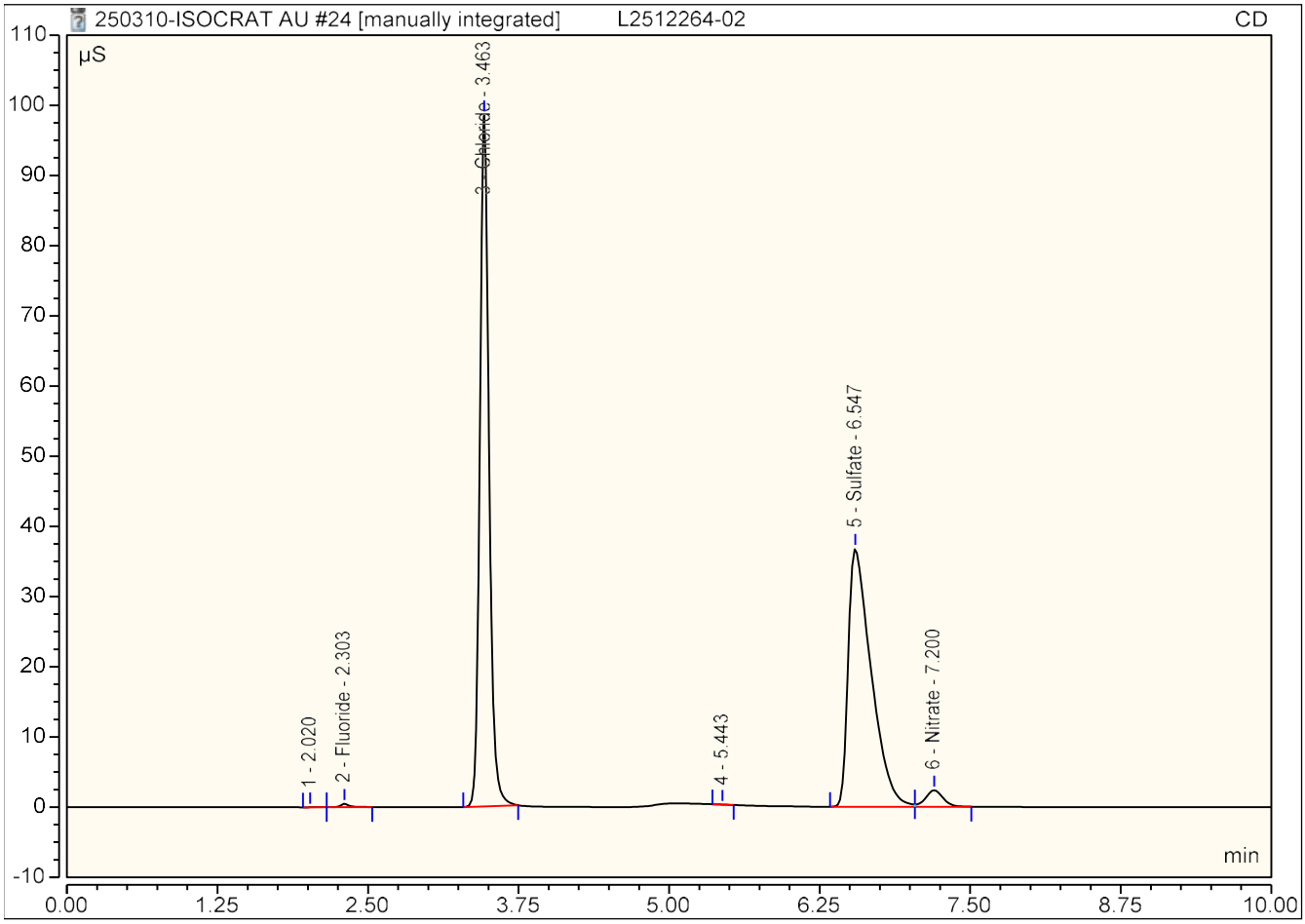
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.016	0.188	0.0550
3	3.46	**Chloride**	BMB	10.150	113.243	29.6021
5	5.93	**Bromide**	BMB	0.002	0.019	0.0528
6	6.36	**Sulfate**	BM *^	23.312	77.288	91.1746
7	7.07	**Nitrate**	MB*	4.633	22.554	5.4421
TOTAL:				38.11	213.29	126.33



Peak Integration Report

Sample Name:	**L2512264-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**10-Mar-2025 / 18:35**	*Run Time:*	**10.00**

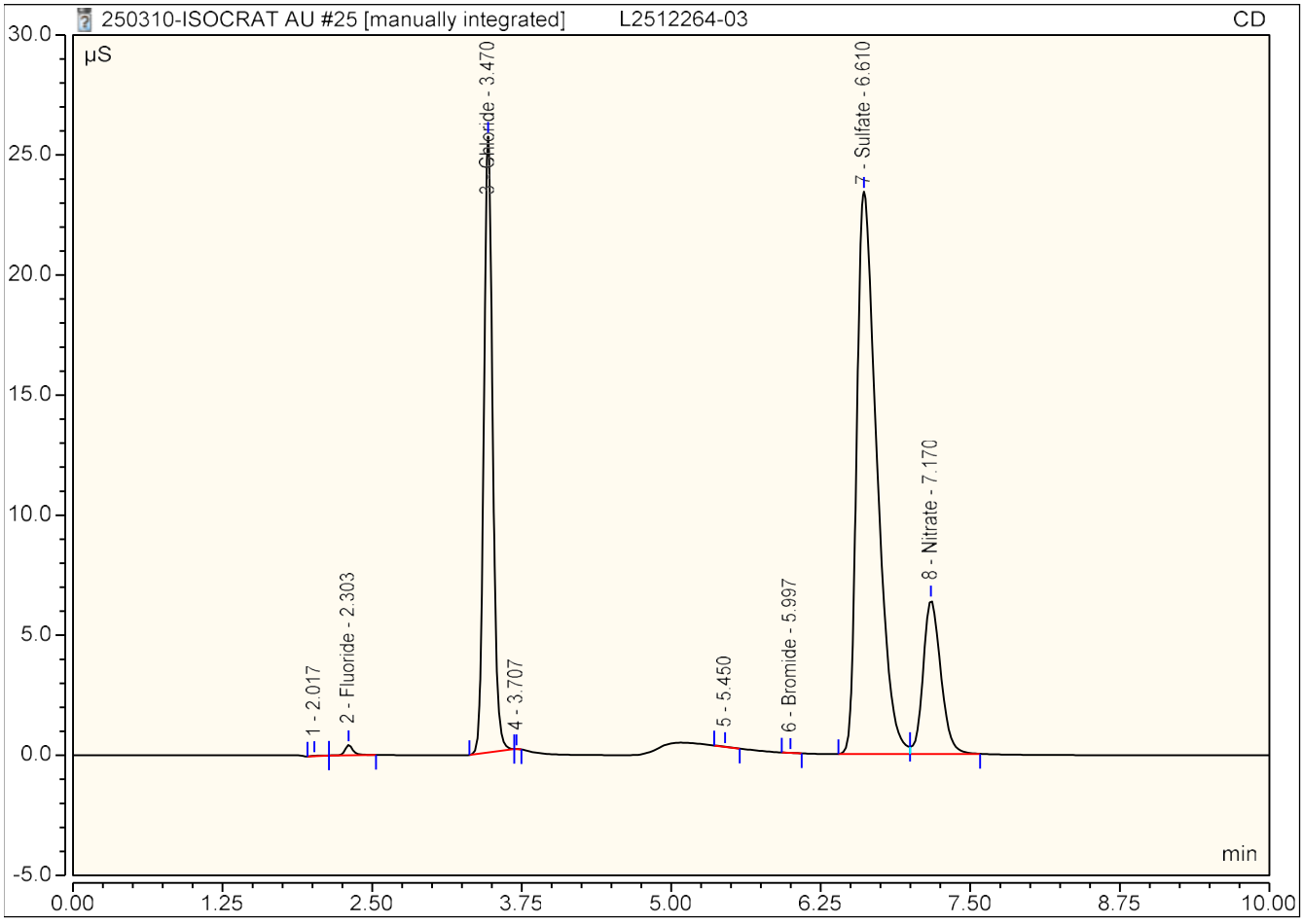
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.038	0.485	0.0972
3	3.46	**Chloride**	BMB	8.769	98.502	25.5874
5	6.55	**Sulfate**	BM *	8.136	36.794	31.9534
6	7.20	**Nitrate**	MB*	0.394	2.344	0.4903
TOTAL:				17.34	138.13	58.13



Peak Integration Report

Sample Name:	**L2512264-03**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**10-Mar-2025 / 18:47**	*Run Time:*	**10.00**

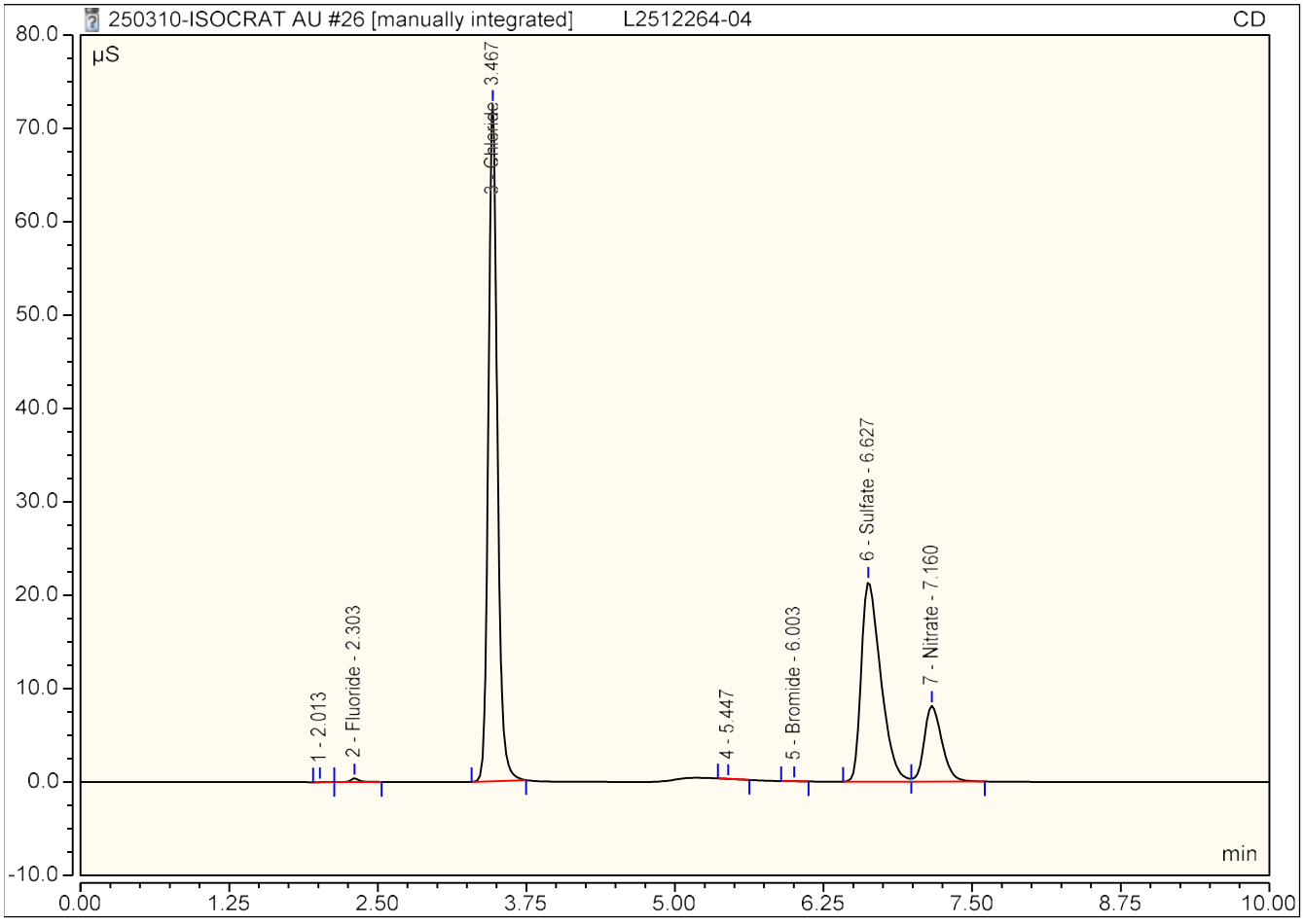
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.033	0.433	0.0888
3	3.47	**Chloride**	BMB	2.192	25.656	6.4640
6	6.00	**Bromide**	BMB	0.000	0.002	0.0360
7	6.61	**Sulfate**	BM *	4.551	23.420	17.9626
8	7.17	**Nitrate**	MB*	1.094	6.402	1.3078
TOTAL:				7.87	55.91	25.86



Peak Integration Report

Sample Name:	**L2512264-04**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**10-Mar-2025 / 19:00**	*Run Time:*	**10.00**

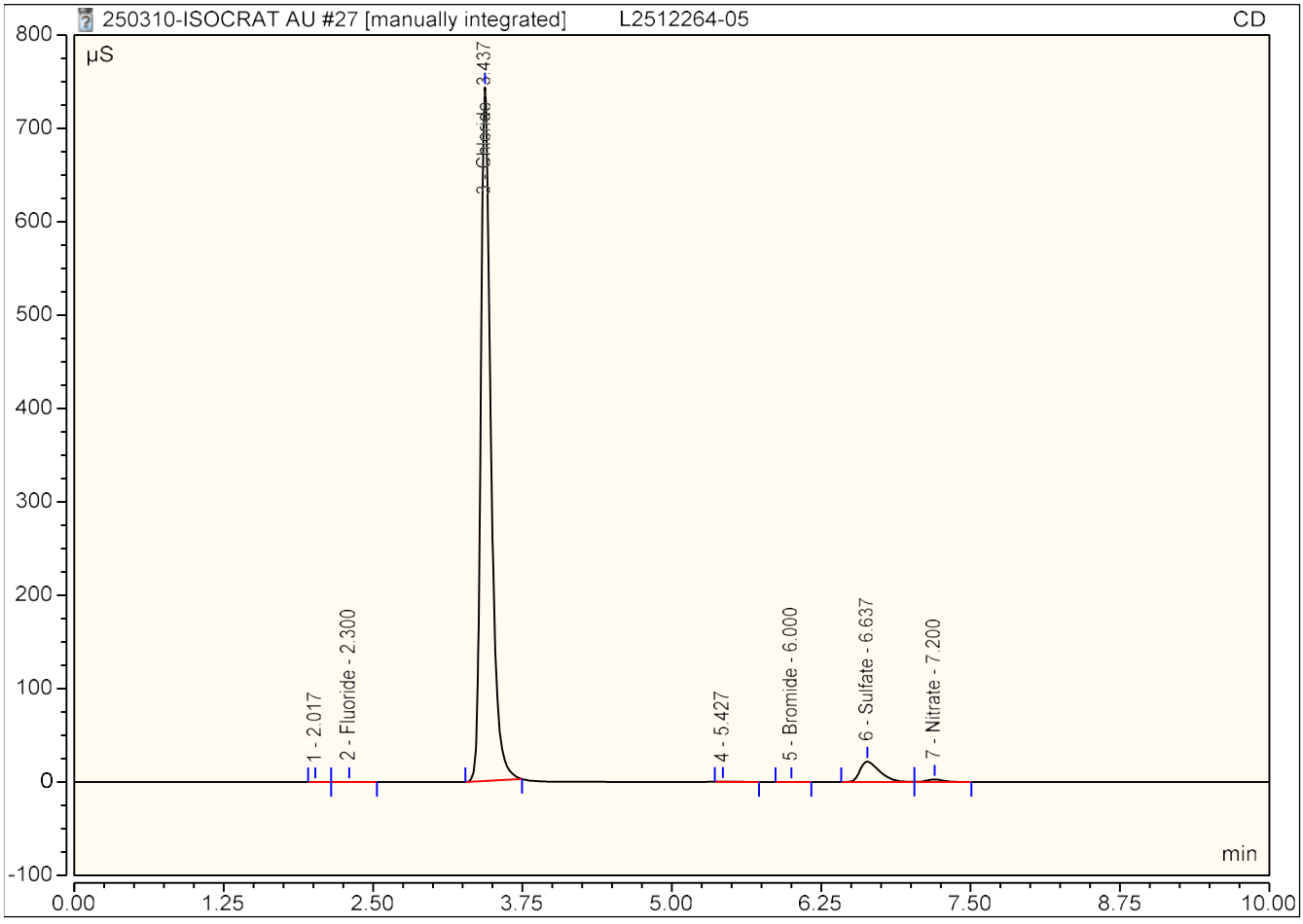
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.032	0.409	0.0865
3	3.47	**Chloride**	BMB	6.428	72.447	18.7790
5	6.00	**Bromide**	BMB	0.001	0.013	0.0451
6	6.63	**Sulfate**	BM *	4.068	21.414	16.0785
7	7.16	**Nitrate**	MB*	1.402	8.100	1.6671
TOTAL:				11.93	102.38	36.66



Peak Integration Report

Sample Name:	**L2512264-05**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**10-Mar-2025 / 19:12**	*Run Time:*	**10.00**

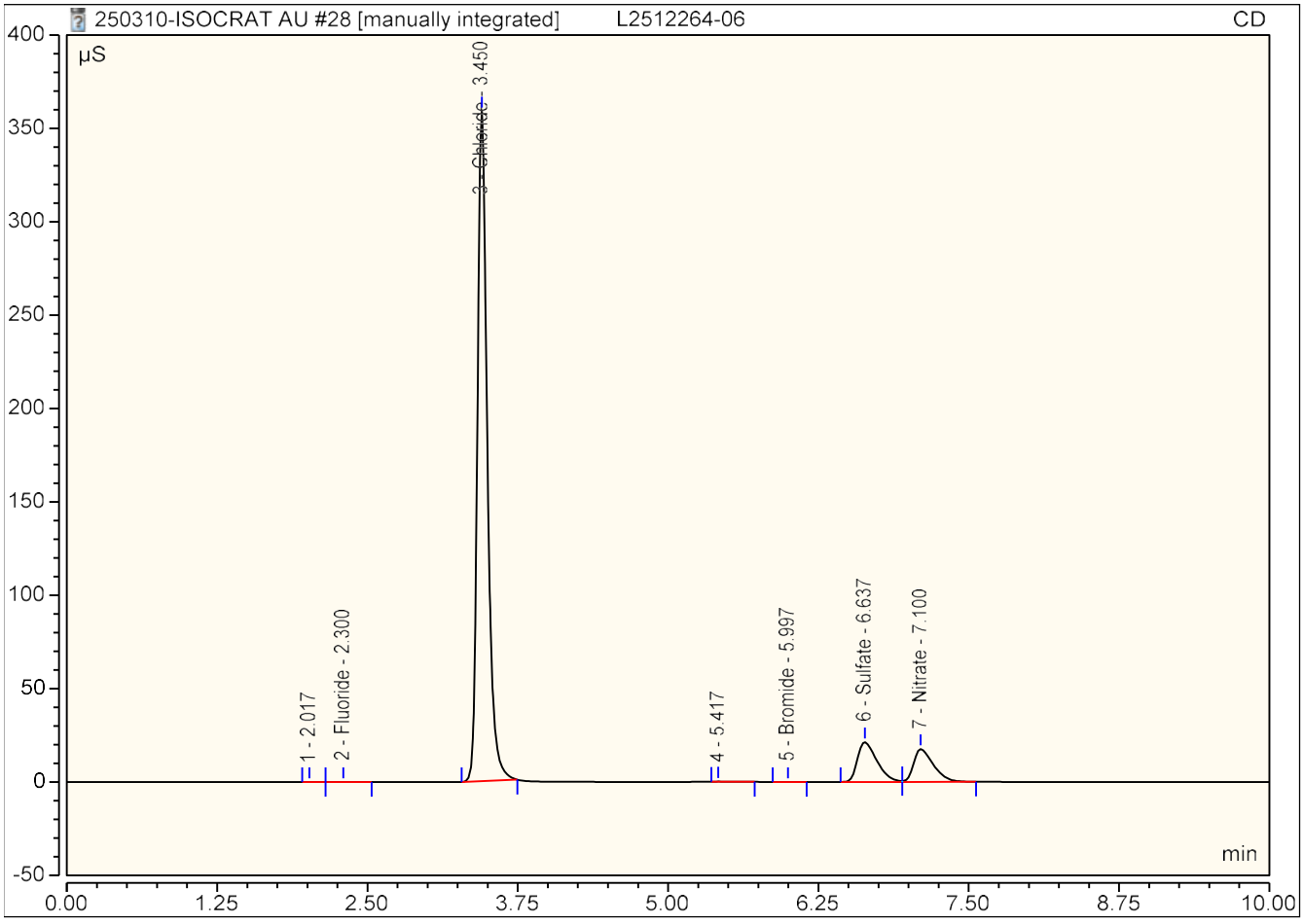
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.006	0.069	0.0367
3	3.44	**Chloride**	BMB	72.936	742.607	212.1711
5	6.00	**Bromide**	BMB	0.004	0.032	0.0657
6	6.64	**Sulfate**	BM *	4.176	21.856	16.4988
7	7.20	**Nitrate**	MB*	0.445	2.692	0.5493
TOTAL:				77.57	767.26	229.32



Peak Integration Report

Sample Name:	**L2512264-06**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**10-Mar-2025 / 19:24**	*Run Time:*	**10.00**

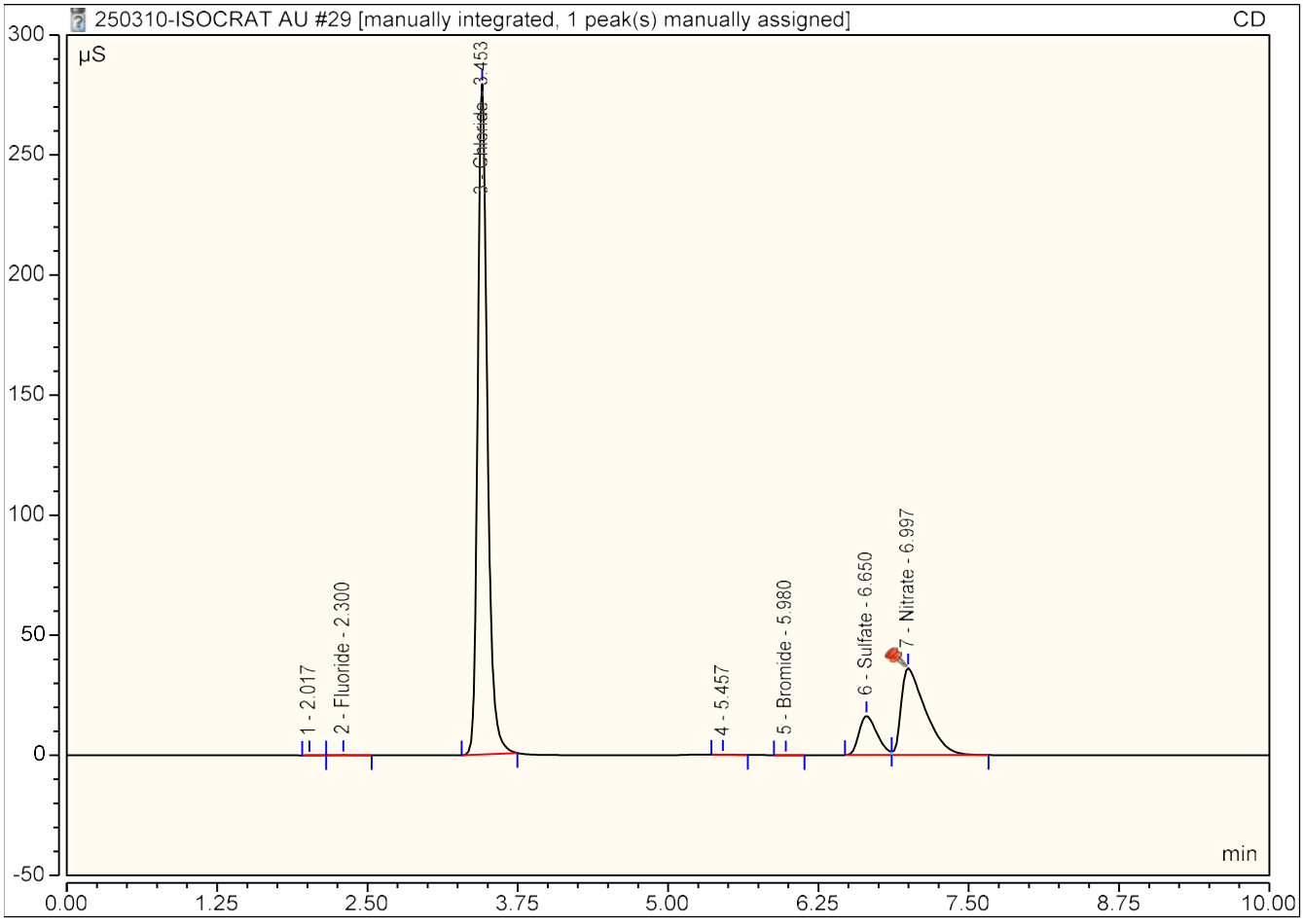
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.006	0.069	0.0365
3	3.45	**Chloride**	BMB	34.050	358.634	99.0999
5	6.00	**Bromide**	BMB	0.003	0.023	0.0566
6	6.64	**Sulfate**	BM *	3.992	21.323	15.7808
7	7.10	**Nitrate**	MB*	3.339	17.545	3.9300
TOTAL:				41.39	397.59	118.90



Peak Integration Report

Sample Name:	**L2512607-01 BR**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**10-Mar-2025 / 19:36**	*Run Time:*	**10.00**

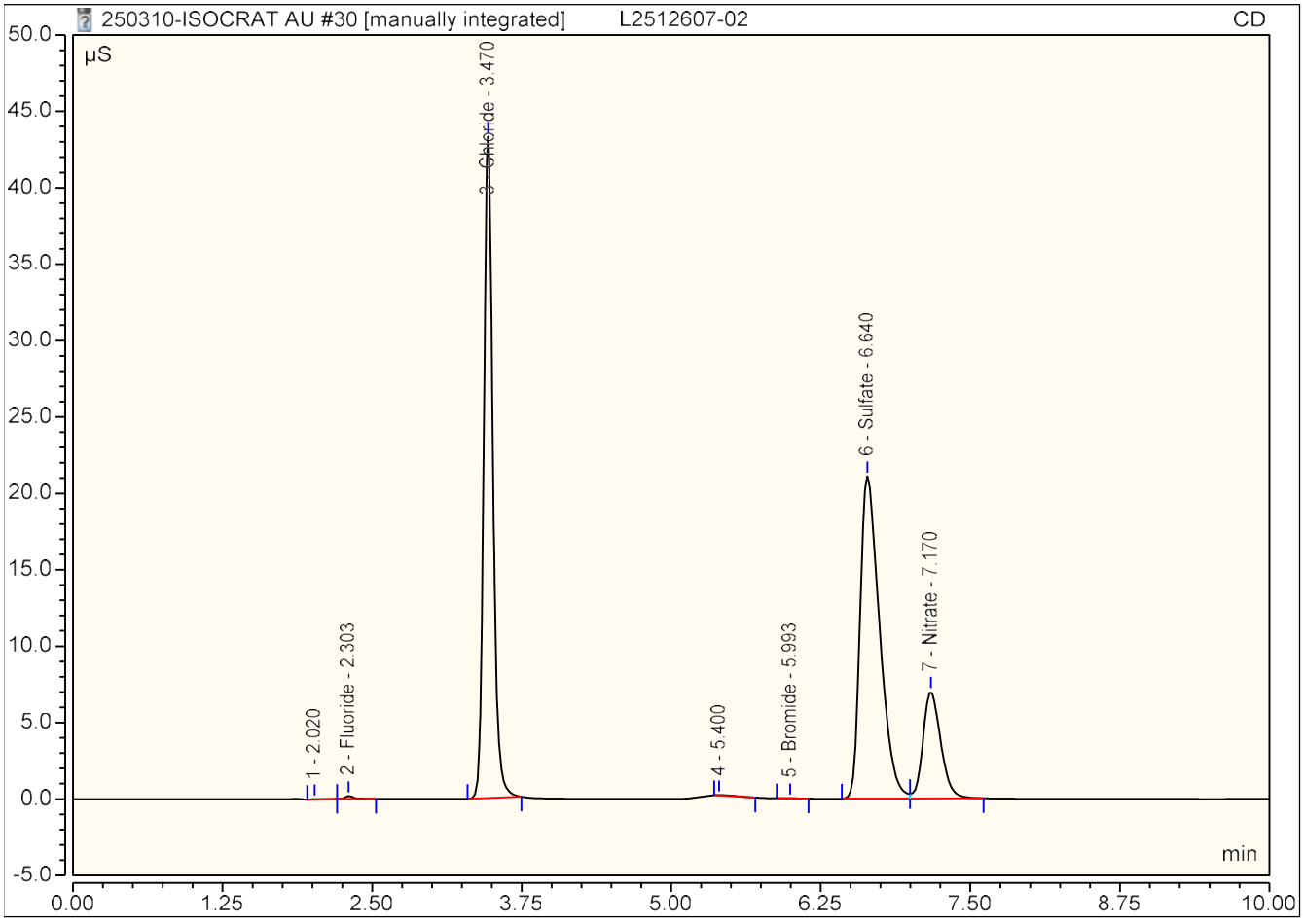
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.009	0.096	0.0411
3	3.45	**Chloride**	BMB	26.045	279.174	75.8218
5	5.98	**Bromide**	BMB	0.002	0.016	0.0501
6	6.65	**Sulfate**	BM *	2.827	16.315	11.2326
7	7.00	**Nitrate**	MB*^	8.458	36.226	9.9109
TOTAL:				37.34	331.83	97.06



Peak Integration Report

Sample Name:	**L2512607-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**10-Mar-2025 / 19:48**	*Run Time:*	**10.00**

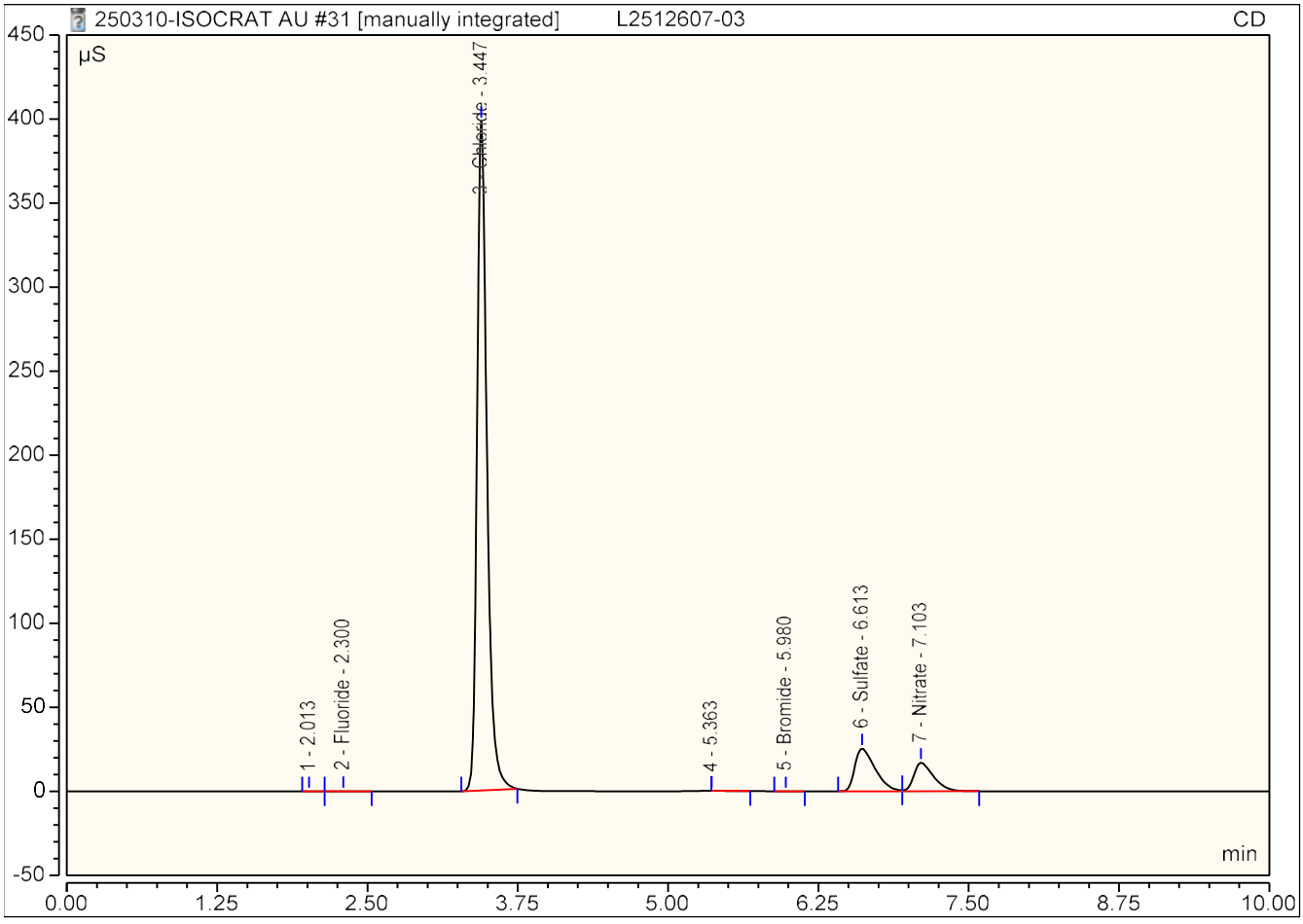
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.016	0.197	0.0552
3	3.47	**Chloride**	BMB	3.837	43.287	11.2464
5	5.99	**Bromide**	BMB	0.002	0.014	0.0481
6	6.64	**Sulfate**	BM *	3.976	21.097	15.7181
7	7.17	**Nitrate**	MB*	1.201	6.992	1.4331
TOTAL:				9.03	71.59	28.50



Peak Integration Report

Sample Name:	**L2512607-03**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**10-Mar-2025 / 20:00**	*Run Time:*	**10.00**

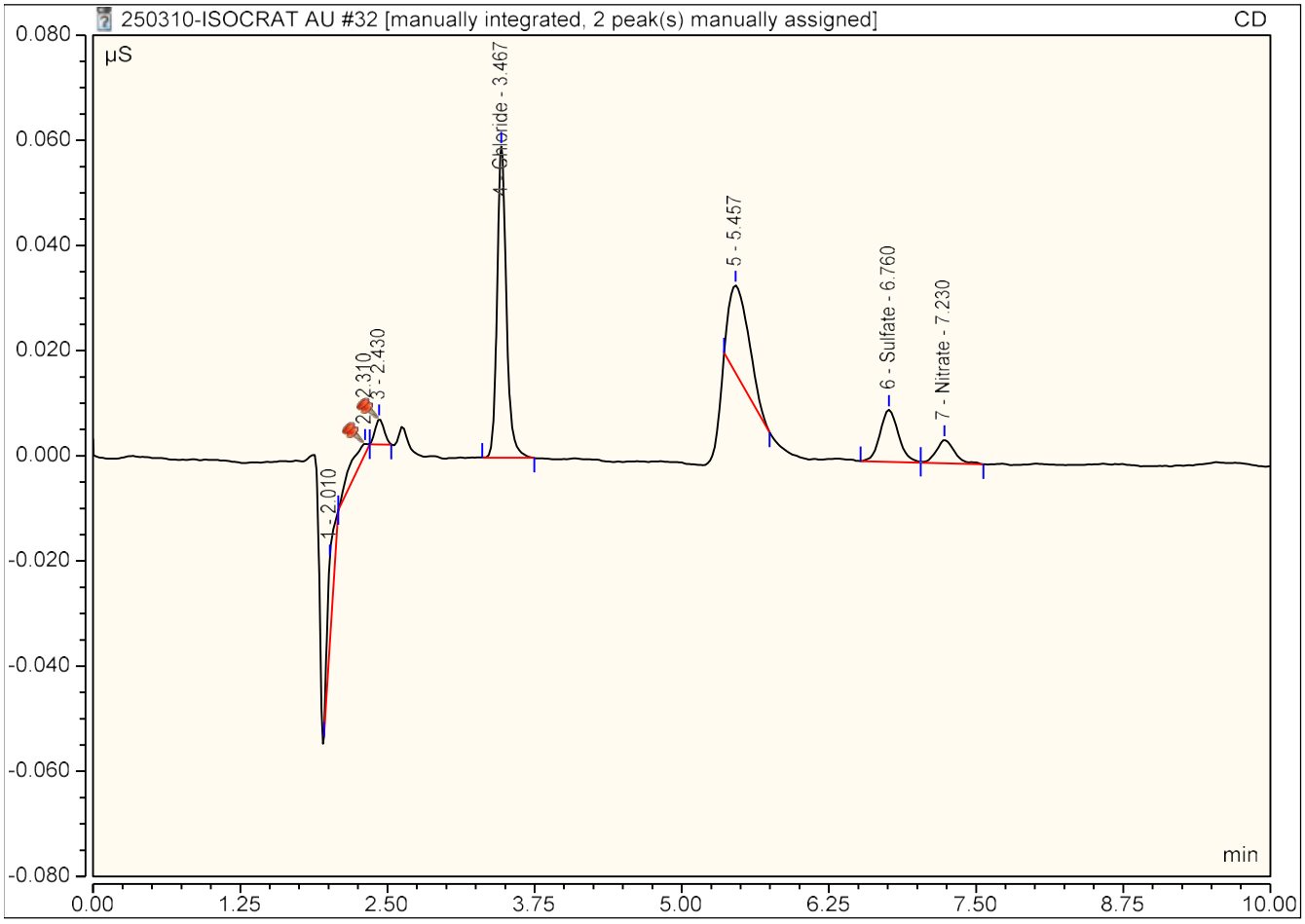
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.007	0.079	0.0383
3	3.45	**Chloride**	BMB	37.892	398.073	110.2698
5	5.98	**Bromide**	BMB	0.002	0.013	0.0472
6	6.61	**Sulfate**	BM *	4.947	25.409	19.5081
7	7.10	**Nitrate**	MB*	3.223	16.962	3.7949
TOTAL:				46.07	440.54	133.66



Peak Integration Report

Sample Name:	**L2512607-06**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**10-Mar-2025 / 20:12**	*Run Time:*	**10.00**

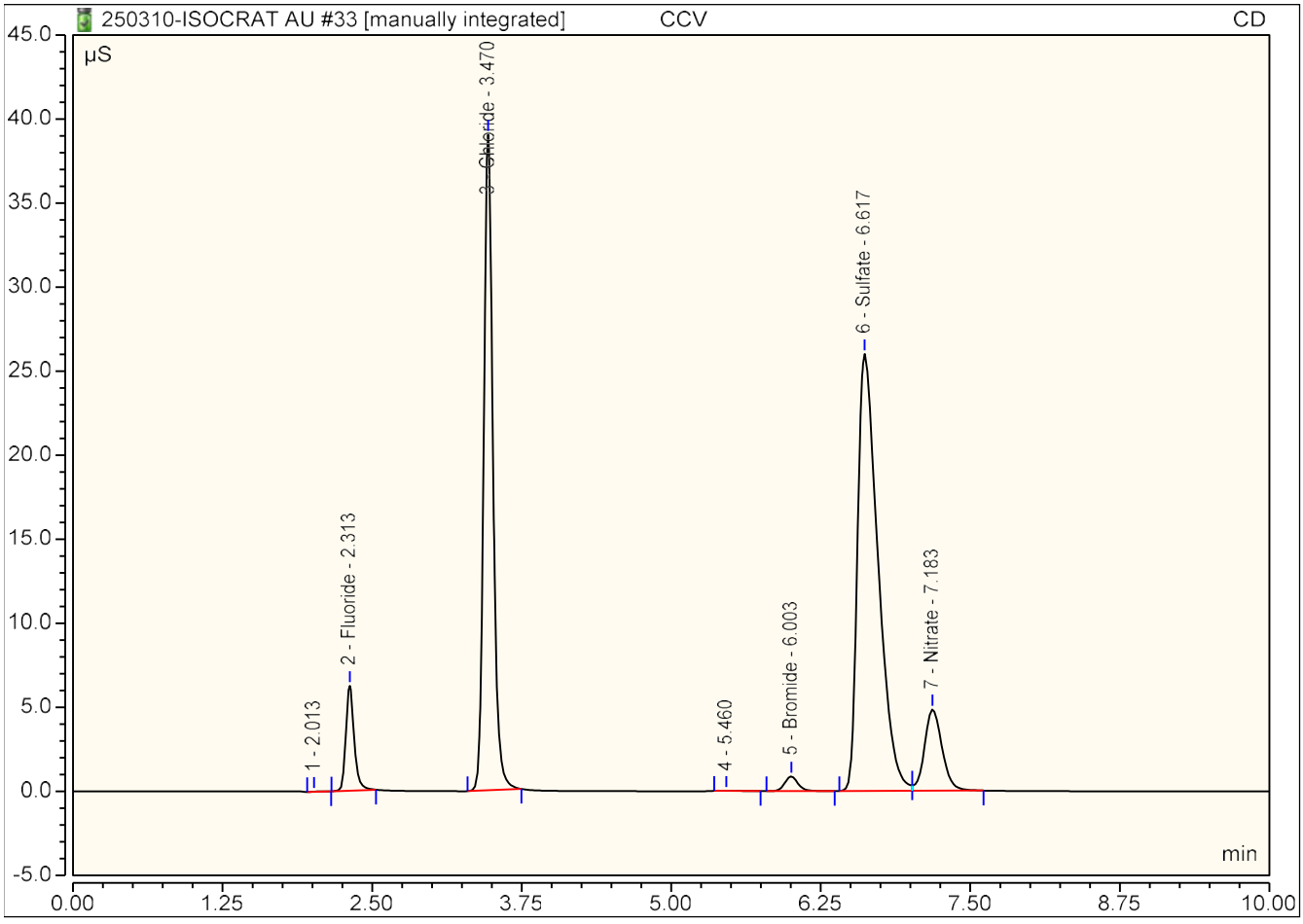
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
4	3.47	**Chloride**	BMB	0.005	0.059	0.1046
6	6.76	**Sulfate**	BM *	0.002	0.010	0.2092
7	7.23	**Nitrate**	MB*	0.001	0.004	0.0307
TOTAL:				0.01	0.07	0.34



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**10-Mar-2025 / 20:24**	*Run Time:*	**10.00**

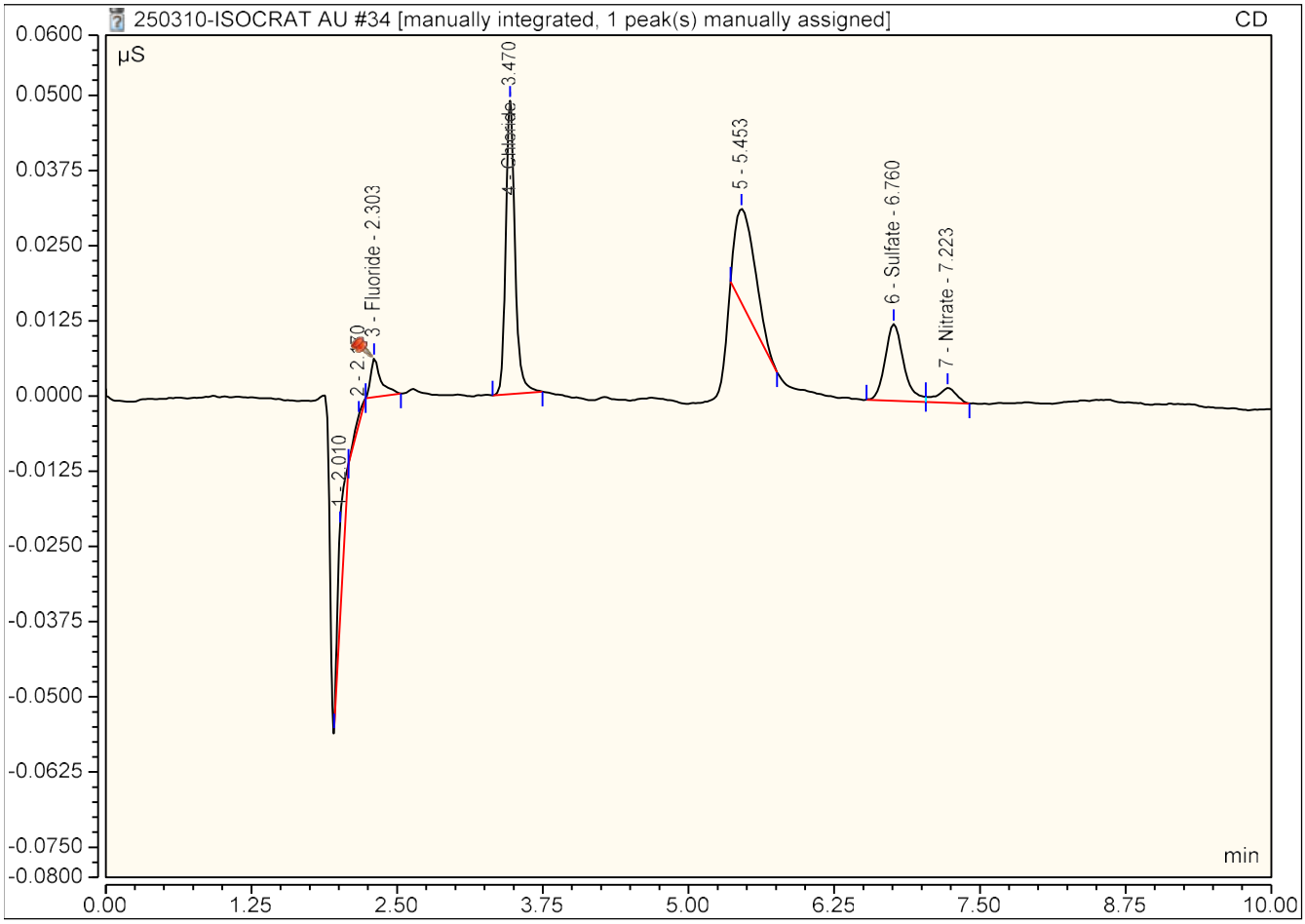
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.498	6.240	0.9799
3	3.47	**Chloride**	BMB	3.472	39.004	10.1855
5	6.00	**Bromide**	BMB	0.115	0.886	0.9520
6	6.62	**Sulfate**	BM *	5.149	25.997	20.2971
7	7.18	**Nitrate**	MB*	0.824	4.842	0.9920
TOTAL:				10.06	76.97	33.41



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**10-Mar-2025 / 20:36**	*Run Time:*	**10.00**

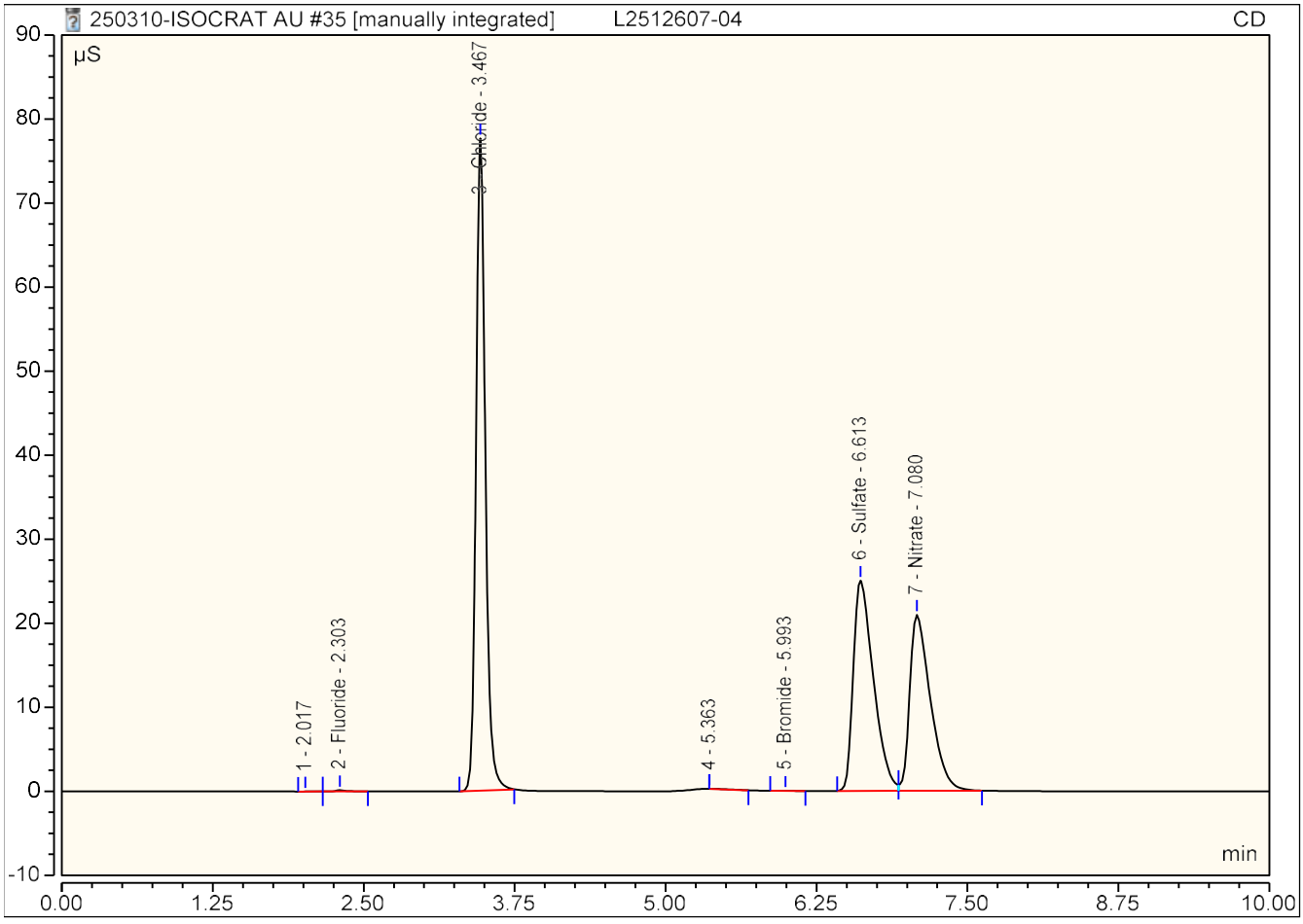
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	2.30	**Fluoride**	BMB^	0.001	0.006	0.0259
4	3.47	**Chloride**	BMB	0.004	0.049	0.1018
6	6.76	**Sulfate**	BM *	0.002	0.013	0.2114
7	7.22	**Nitrate**	MB*	0.000	0.002	0.0303
TOTAL:				0.01	0.07	0.37



Peak Integration Report

Sample Name:	**L2512607-04**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**10-Mar-2025 / 20:48**	*Run Time:*	**10.00**

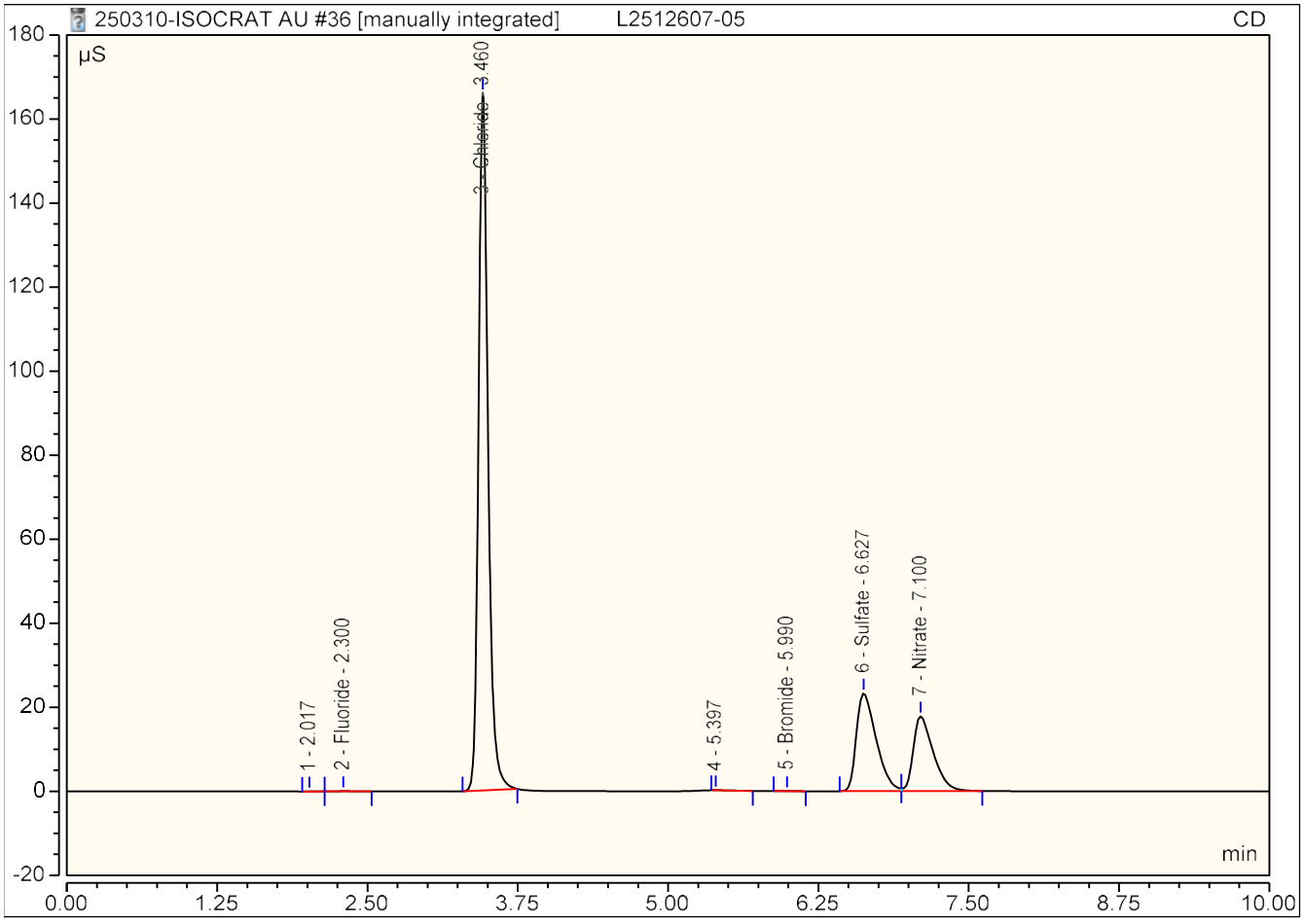
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.011	0.135	0.0466
3	3.47	**Chloride**	BMB	6.965	77.605	20.3421
5	5.99	**Bromide**	BMB	0.004	0.037	0.0703
6	6.61	**Sulfate**	BM *	4.840	25.028	19.0894
7	7.08	**Nitrate**	MB*	4.152	20.944	4.8808
TOTAL:				15.97	123.75	44.43



Peak Integration Report

Sample Name:	**L2512607-05**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**10-Mar-2025 / 21:00**	*Run Time:*	**10.00**

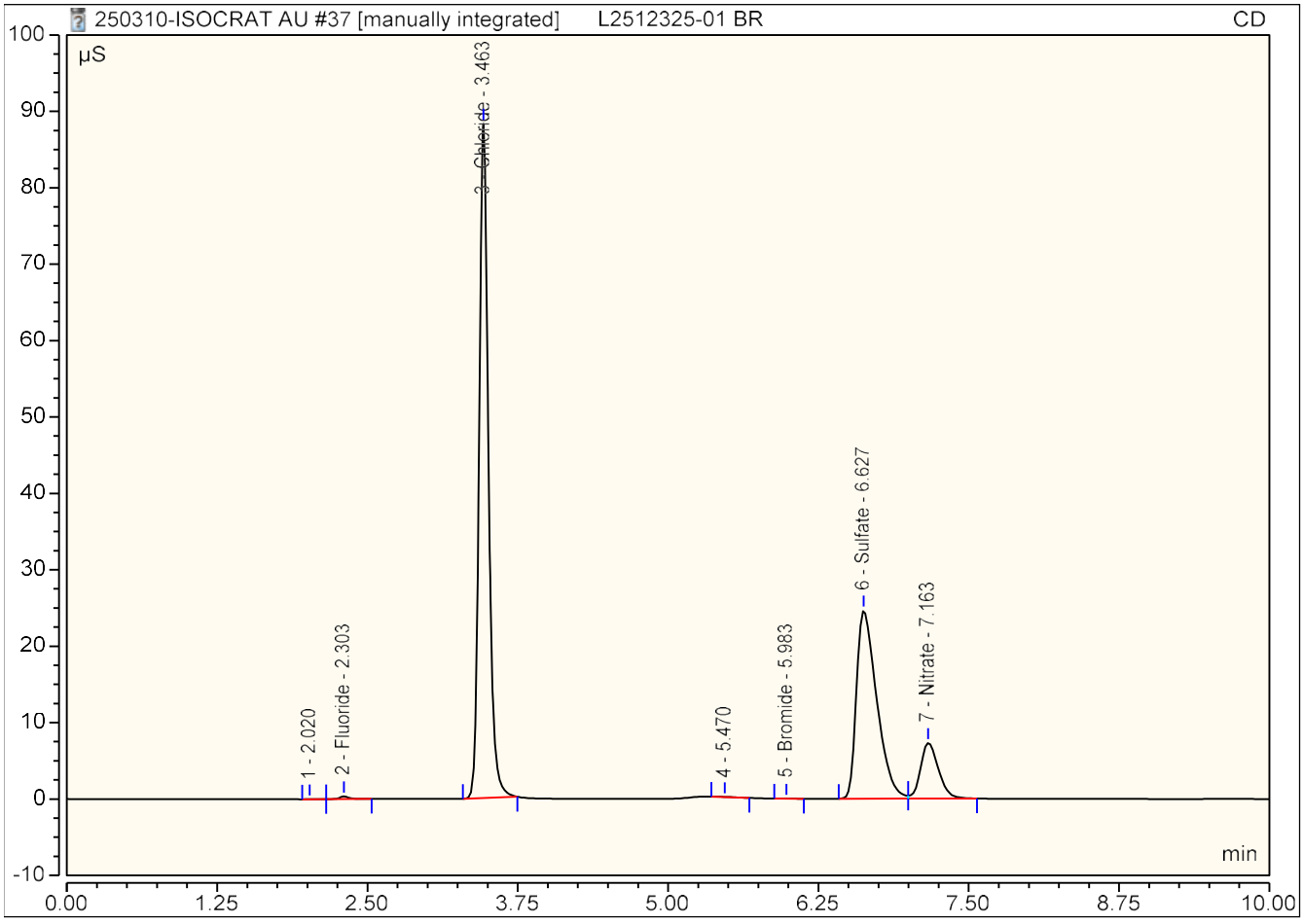
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.008	0.086	0.0398
3	3.46	**Chloride**	BMB	15.206	165.922	44.3040
5	5.99	**Bromide**	BMB	0.002	0.019	0.0521
6	6.63	**Sulfate**	BM *	4.434	23.312	17.5048
7	7.10	**Nitrate**	MB*	3.413	17.795	4.0164
TOTAL:				23.06	207.13	65.92



Peak Integration Report

Sample Name:	**L2512325-01 BR**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**10-Mar-2025 / 21:13**	*Run Time:*	**10.00**

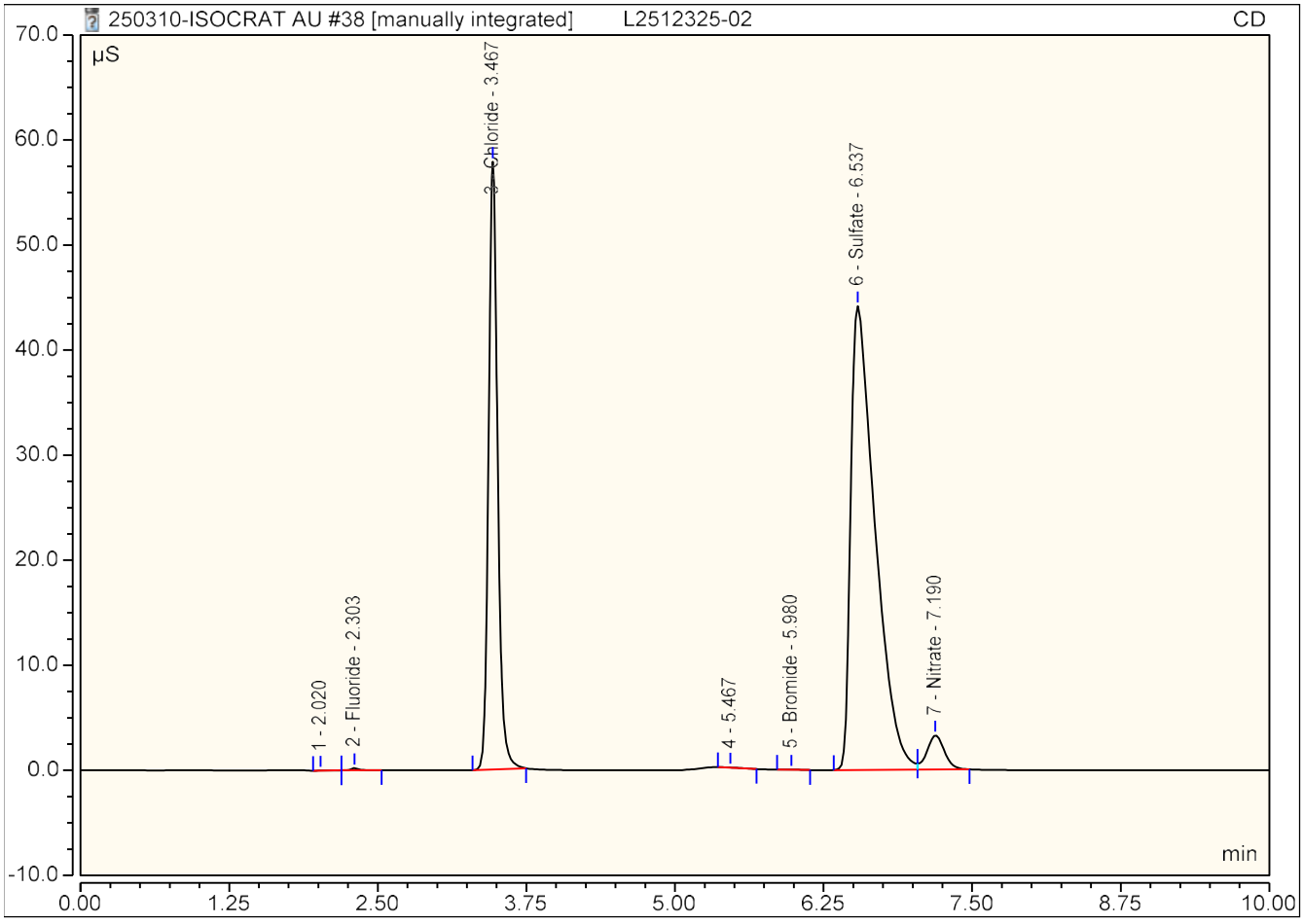
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.029	0.367	0.0803
3	3.46	**Chloride**	BMB	7.953	88.286	23.2144
5	5.98	**Bromide**	BMB	0.002	0.015	0.0489
6	6.63	**Sulfate**	BM *	4.815	24.674	18.9935
7	7.16	**Nitrate**	MB*	1.259	7.295	1.5007
TOTAL:				14.06	120.64	43.84



Peak Integration Report

Sample Name:	**L2512325-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**10-Mar-2025 / 21:25**	*Run Time:*	**10.00**

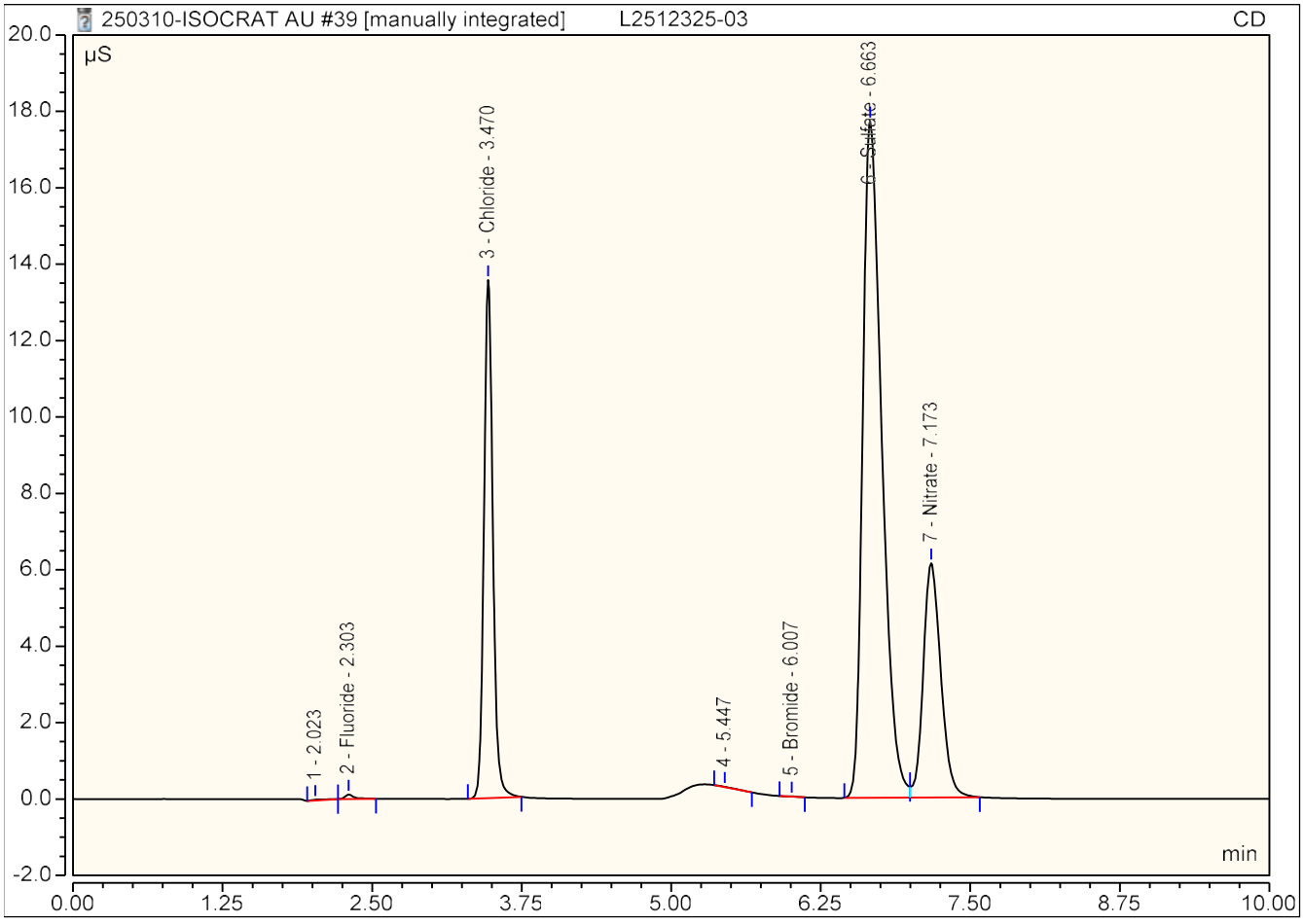
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.017	0.206	0.0568
3	3.47	**Chloride**	BMB	5.157	57.844	15.0830
5	5.98	**Bromide**	BMB	0.004	0.033	0.0659
6	6.54	**Sulfate**	BM *	10.437	44.139	40.9294
7	7.19	**Nitrate**	MB*	0.553	3.254	0.6757
TOTAL:				16.17	105.48	56.81



Peak Integration Report

Sample Name:	**L2512325-03**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**10-Mar-2025 / 21:37**	*Run Time:*	**10.00**

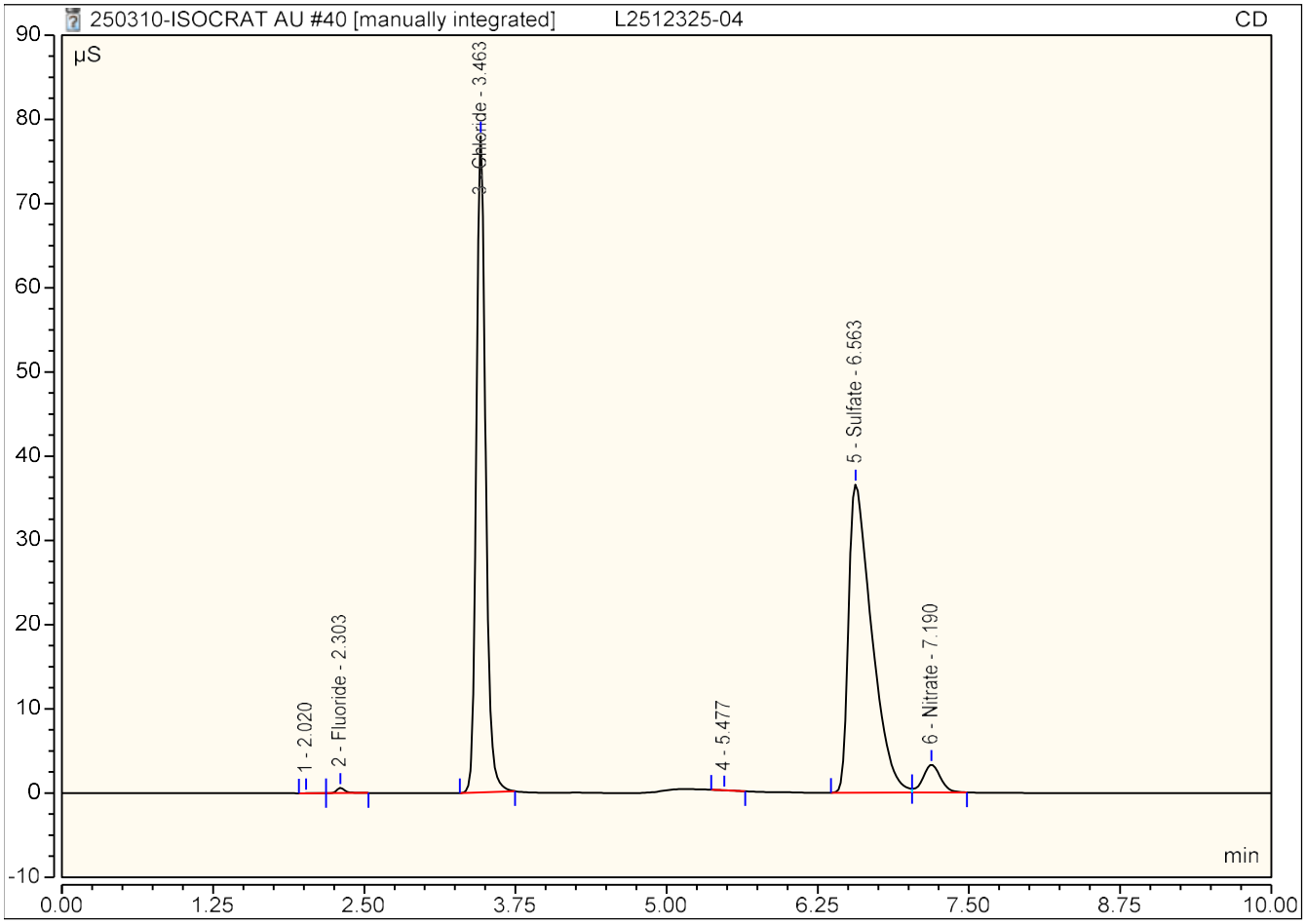
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.010	0.116	0.0439
3	3.47	**Chloride**	BMB	1.170	13.563	3.4901
5	6.01	**Bromide**	BMB	0.001	0.007	0.0402
6	6.66	**Sulfate**	BM *	3.259	17.706	12.9211
7	7.17	**Nitrate**	MB*	1.041	6.133	1.2462
TOTAL:				5.48	37.53	17.74



Peak Integration Report

Sample Name:	**L2512325-04**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**10-Mar-2025 / 21:49**	*Run Time:*	**10.00**

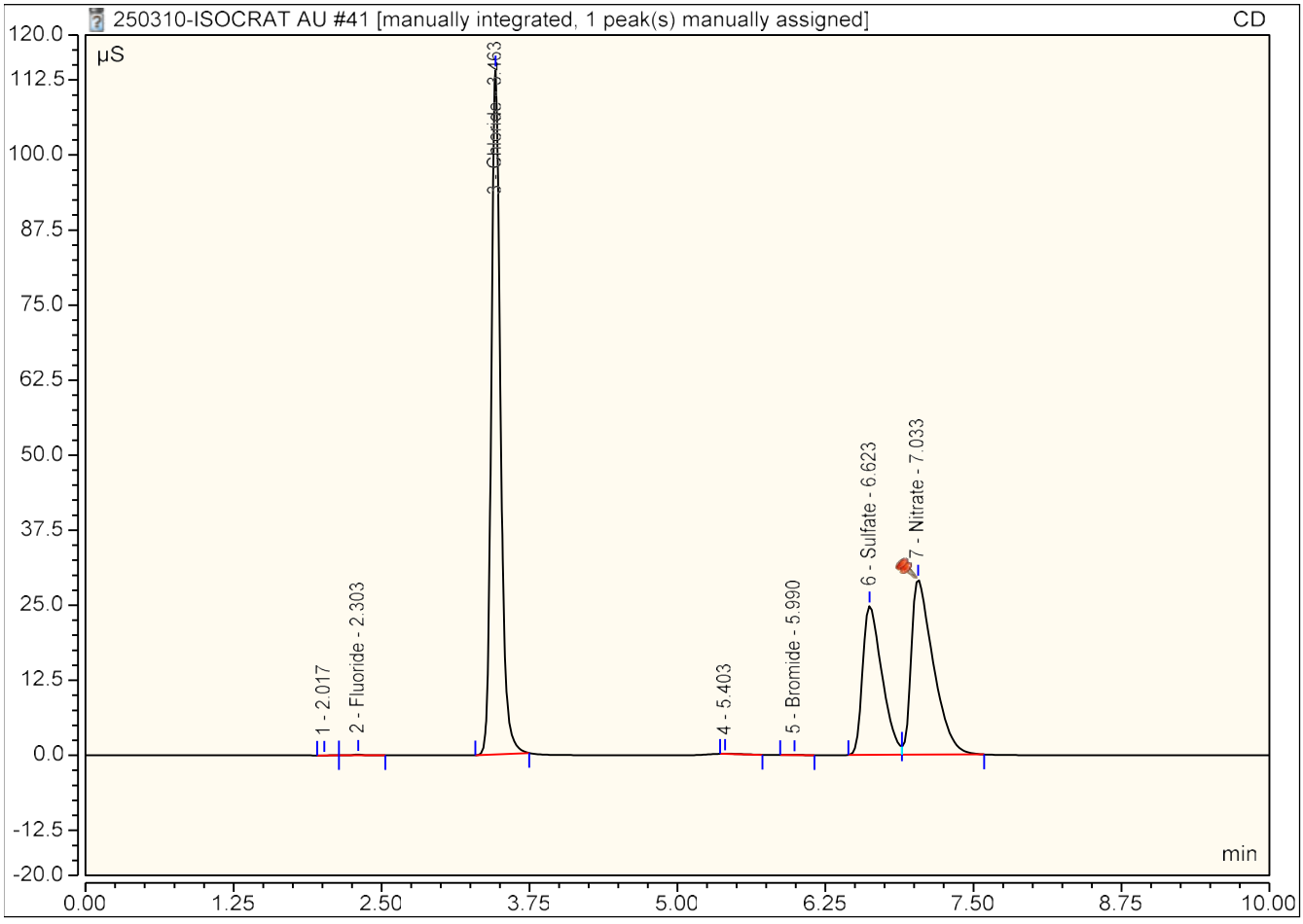
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.048	0.623	0.1171
3	3.46	**Chloride**	BMB	6.940	77.909	20.2694
5	6.56	**Sulfate**	BM *	8.112	36.620	31.8579
6	7.19	**Nitrate**	MB*	0.556	3.304	0.6794
TOTAL:				15.66	118.46	52.92



Peak Integration Report

Sample Name:	**L2512325-05**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**10-Mar-2025 / 22:01**	*Run Time:*	**10.00**

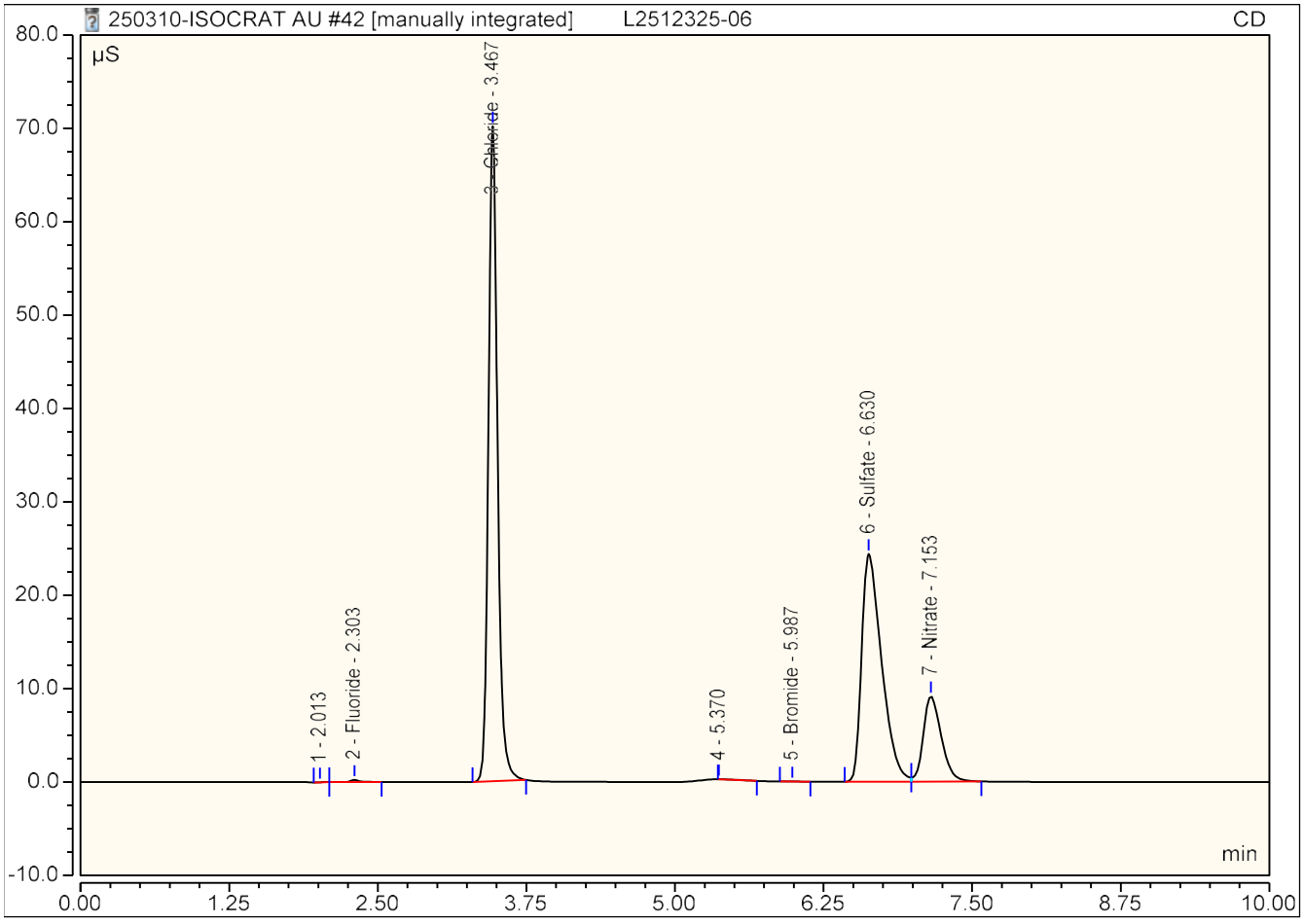
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.012	0.138	0.0481
3	3.46	**Chloride**	BMB	10.352	113.977	30.1901
5	5.99	**Bromide**	BMB	0.004	0.034	0.0673
6	6.62	**Sulfate**	BM *	4.710	24.775	18.5837
7	7.03	**Nitrate**	MB*^	6.329	29.205	7.4230
TOTAL:				21.41	168.13	56.31



Peak Integration Report

Sample Name:	**L2512325-06**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**10-Mar-2025 / 22:13**	*Run Time:*	**10.00**

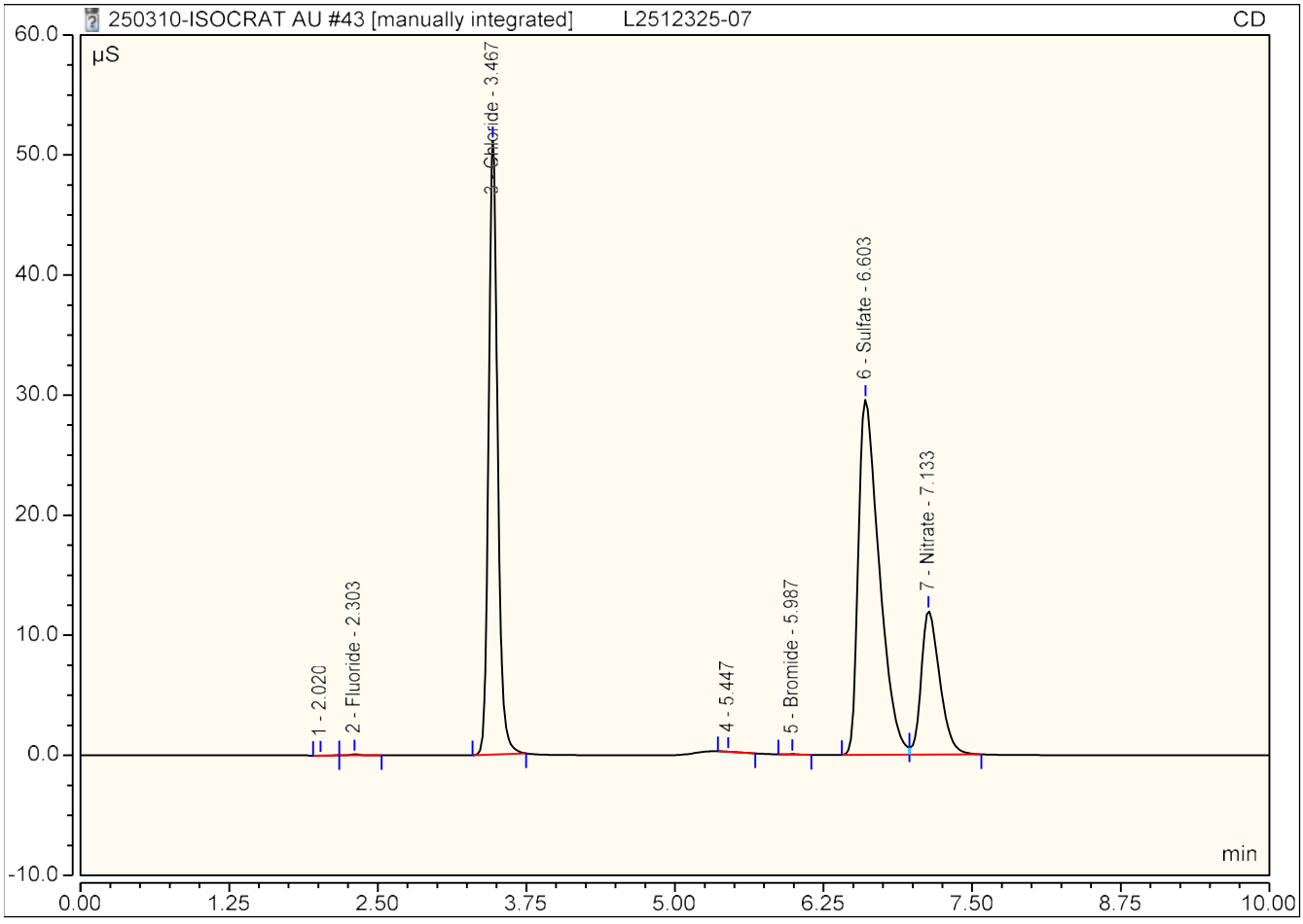
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.020	0.239	0.0631
3	3.47	**Chloride**	BMB	6.291	70.117	18.3804
5	5.99	**Bromide**	BMB	0.002	0.016	0.0496
6	6.63	**Sulfate**	BM *	4.745	24.381	18.7185
7	7.15	**Nitrate**	MB*	1.604	9.129	1.9041
TOTAL:				12.66	103.88	39.12



Peak Integration Report

Sample Name:	**L2512325-07**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**10-Mar-2025 / 22:25**	*Run Time:*	**10.00**

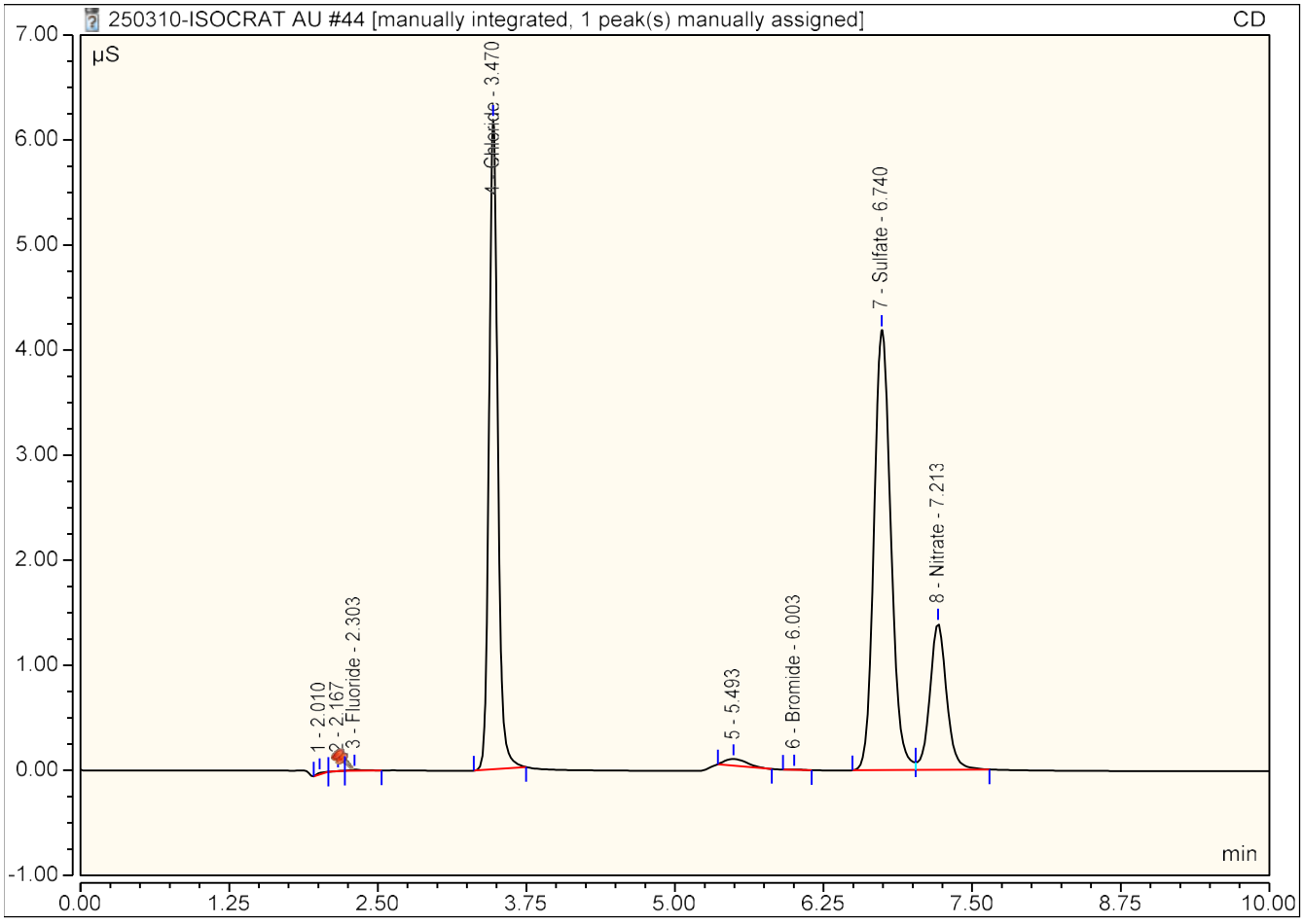
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.008	0.090	0.0398
3	3.47	**Chloride**	BMB	4.542	51.080	13.2952
5	5.99	**Bromide**	BMB	0.004	0.033	0.0663
6	6.60	**Sulfate**	BM *	6.036	29.555	23.7558
7	7.13	**Nitrate**	MB*	2.163	11.953	2.5570
TOTAL:				12.75	92.71	39.71



Peak Integration Report

Sample Name:	**XL2512325-07; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**10-Mar-2025 / 22:37**	*Run Time:*	**10.00**

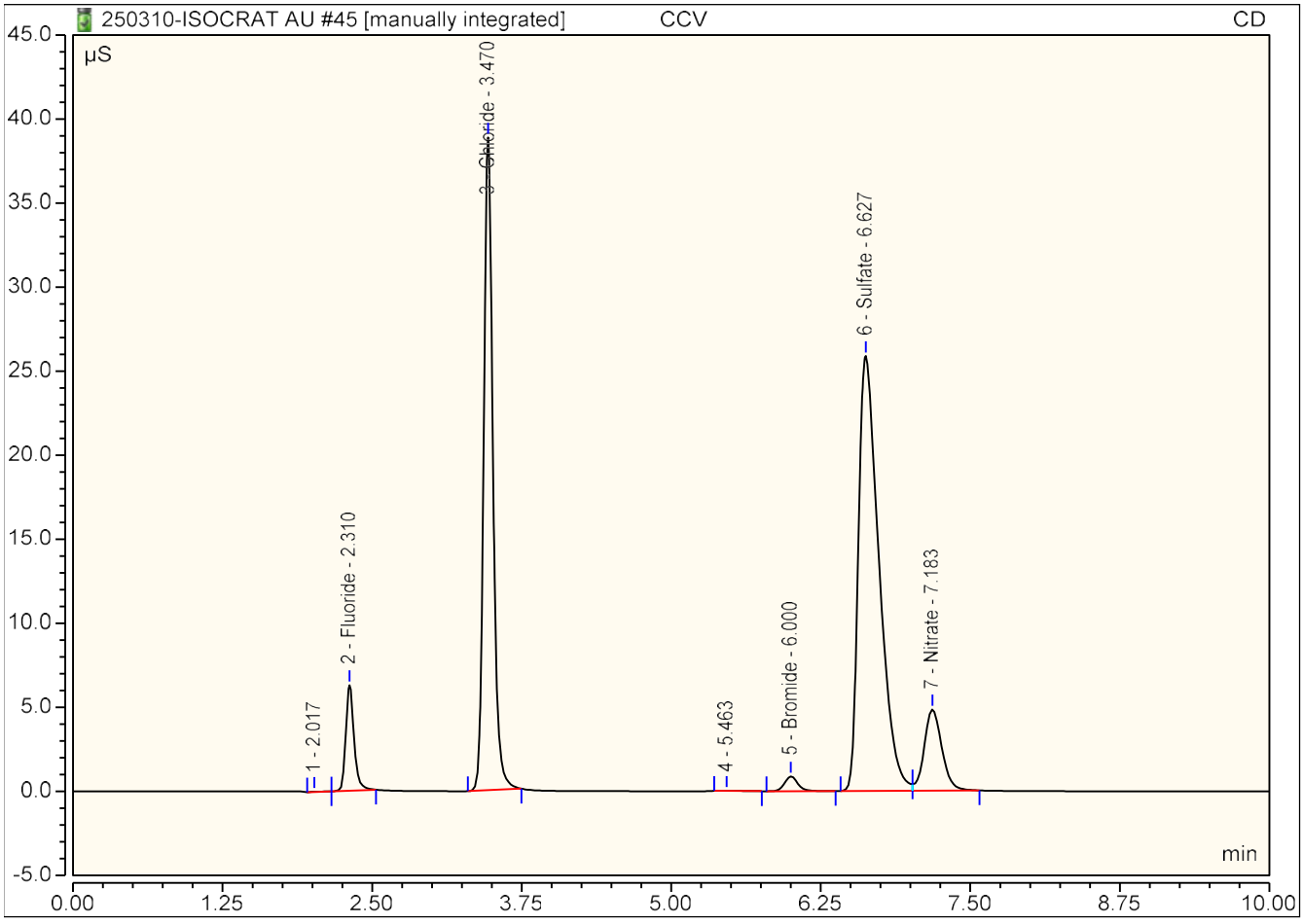
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	2.30	**Fluoride**	BMB^	0.001	0.012	0.2687
4	3.47	**Chloride**	BMB	0.530	6.183	16.2940
6	6.00	**Bromide**	BMB	0.000	0.004	0.3801
7	6.74	**Sulfate**	BM *	0.690	4.190	28.9567
8	7.21	**Nitrate**	MB*	0.227	1.392	2.9525
TOTAL:				1.45	11.78	48.85



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**10-Mar-2025 / 22:49**	*Run Time:*	**10.00**

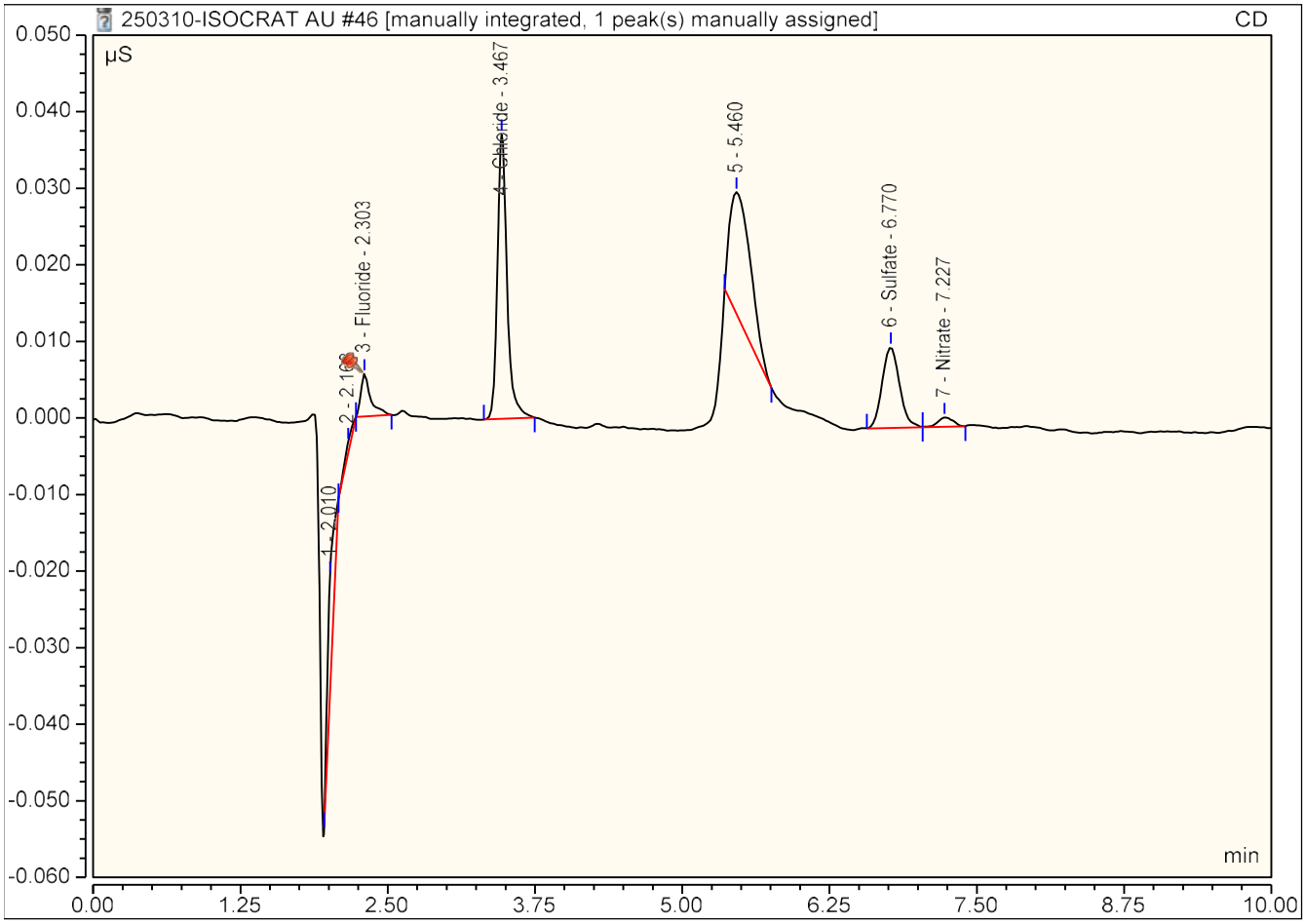
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.498	6.285	0.9800
3	3.47	**Chloride**	BMB	3.458	38.832	10.1440
5	6.00	**Bromide**	BMB	0.114	0.881	0.9482
6	6.63	**Sulfate**	BM *	5.142	25.872	20.2675
7	7.18	**Nitrate**	MB*	0.824	4.838	0.9920
TOTAL:				10.04	76.71	33.33



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**10-Mar-2025 / 23:01**	*Run Time:*	**10.00**

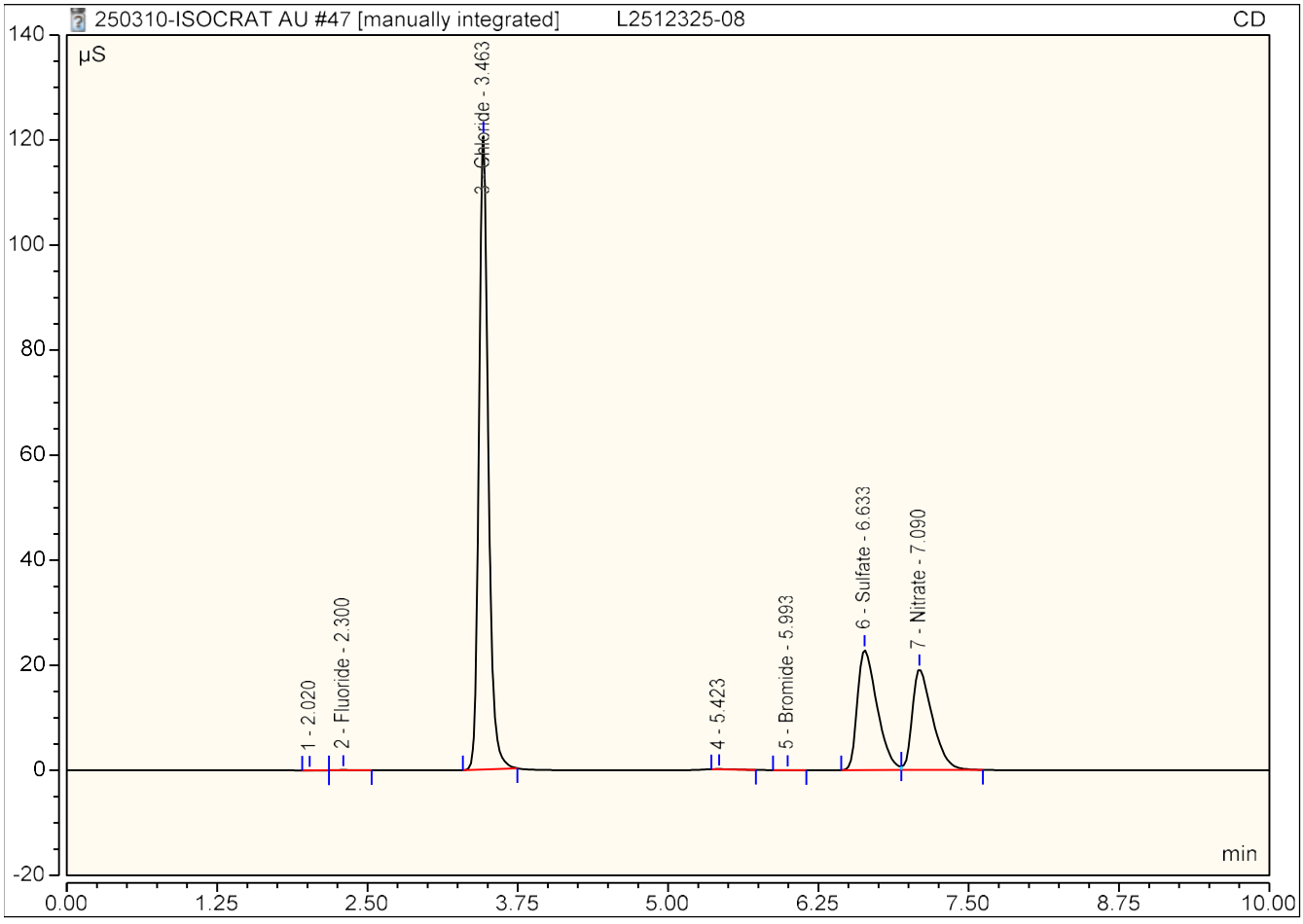
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	2.30	**Fluoride**	BMB^	0.001	0.006	0.0257
4	3.47	**Chloride**	BMB	0.003	0.037	0.0990
6	6.77	**Sulfate**	BM *	0.002	0.011	0.2092
7	7.23	**Nitrate**	MB*	0.000	0.001	0.0300
TOTAL:				0.01	0.05	0.36



Peak Integration Report

Sample Name:	**L2512325-08**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**10-Mar-2025 / 23:13**	*Run Time:*	**10.00**

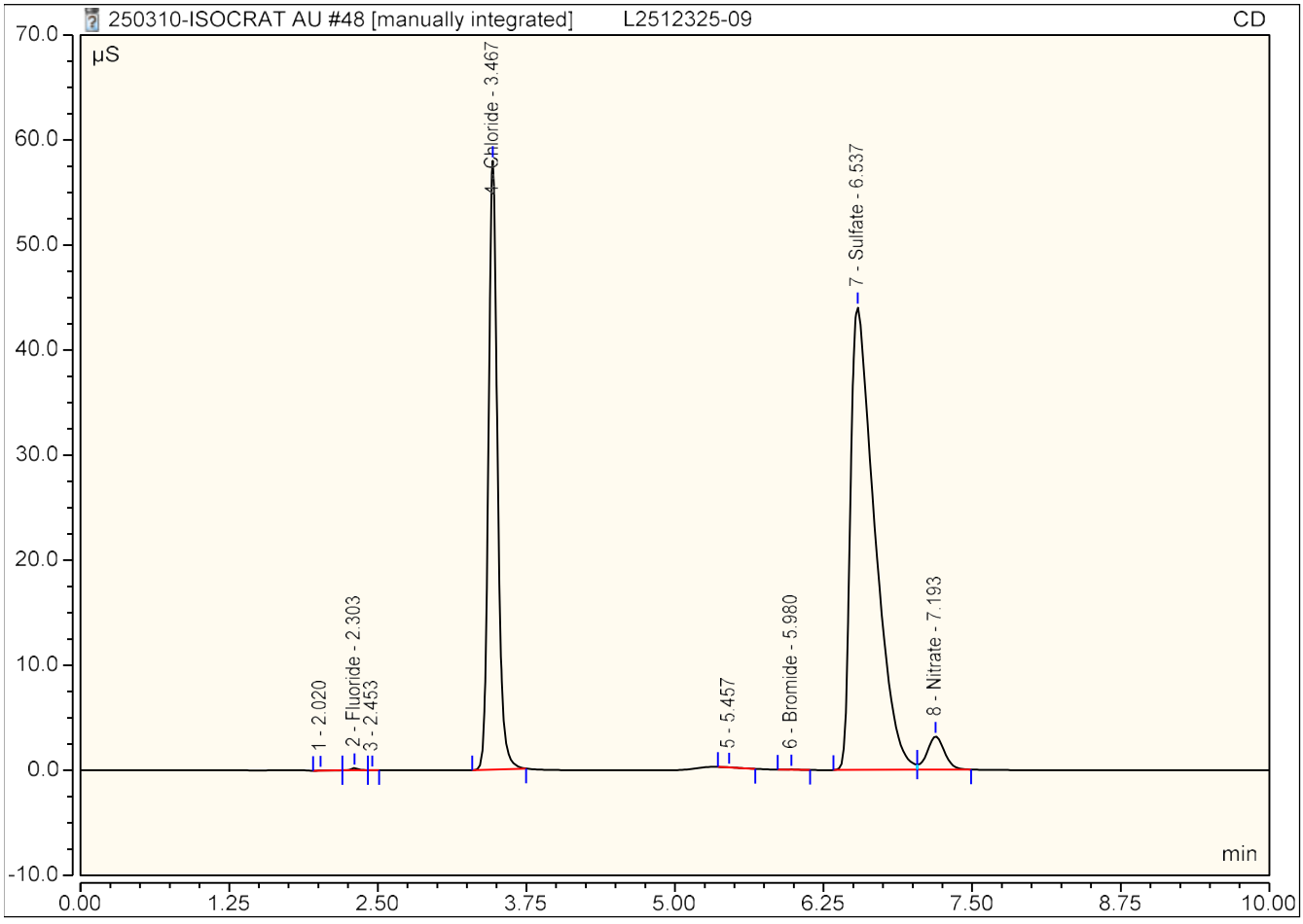
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.008	0.093	0.0406
3	3.46	**Chloride**	BMB	10.966	120.544	31.9748
5	5.99	**Bromide**	BMB	0.002	0.020	0.0536
6	6.63	**Sulfate**	BM *	4.334	22.894	17.1141
7	7.09	**Nitrate**	MB*	3.732	19.194	4.3901
TOTAL:				19.04	162.75	53.57



Peak Integration Report

Sample Name:	**L2512325-09**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**10-Mar-2025 / 23:26**	*Run Time:*	**10.00**

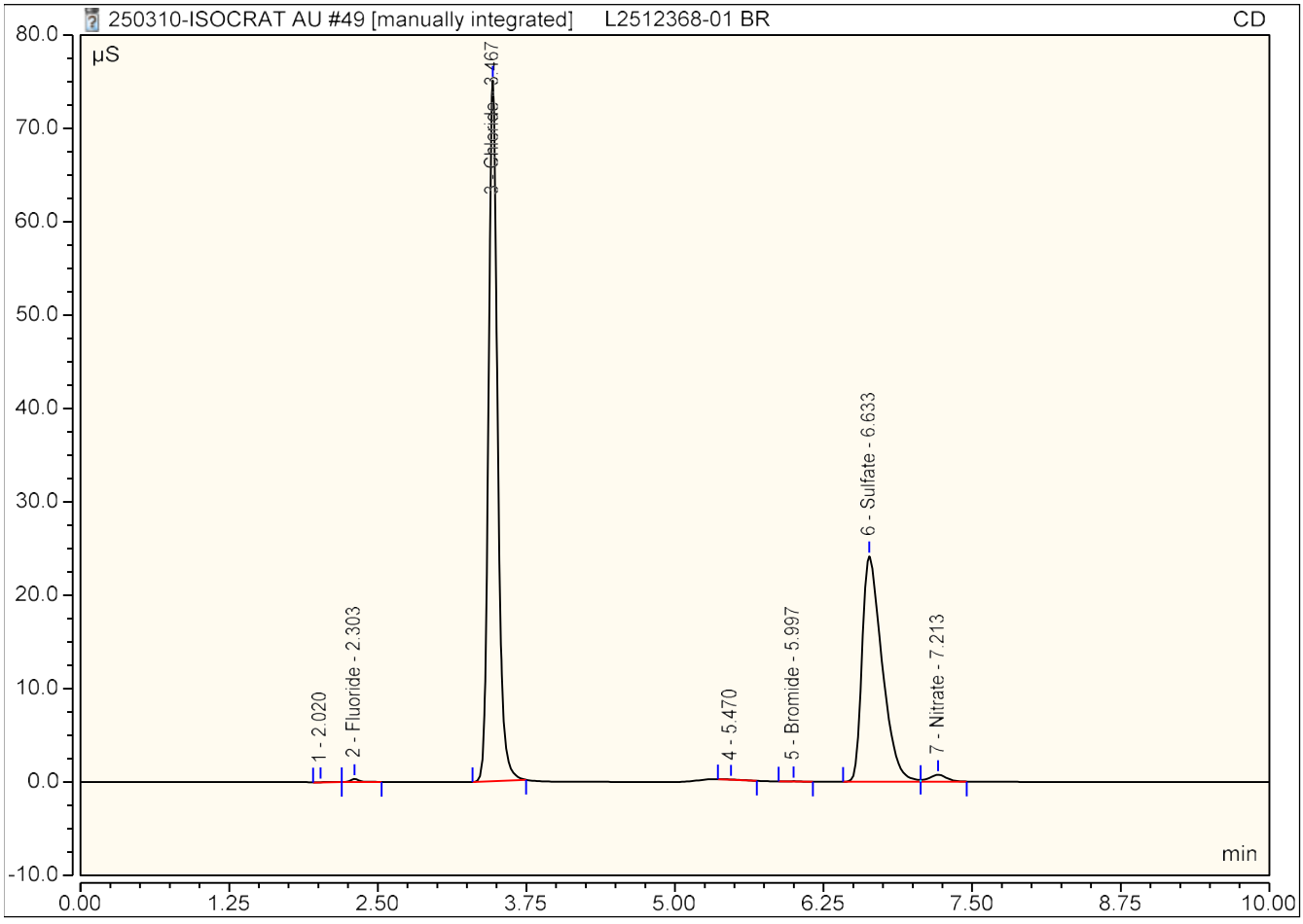
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.014	0.198	0.0512
4	3.47	**Chloride**	BMB	5.160	57.940	15.0919
6	5.98	**Bromide**	BMB	0.004	0.033	0.0657
7	6.54	**Sulfate**	BM *	10.384	44.050	40.7243
8	7.19	**Nitrate**	MB*	0.535	3.157	0.6552
TOTAL:				16.10	105.38	56.59



Peak Integration Report

Sample Name:	**L2512368-01 BR**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**10-Mar-2025 / 23:38**	*Run Time:*	**10.00**

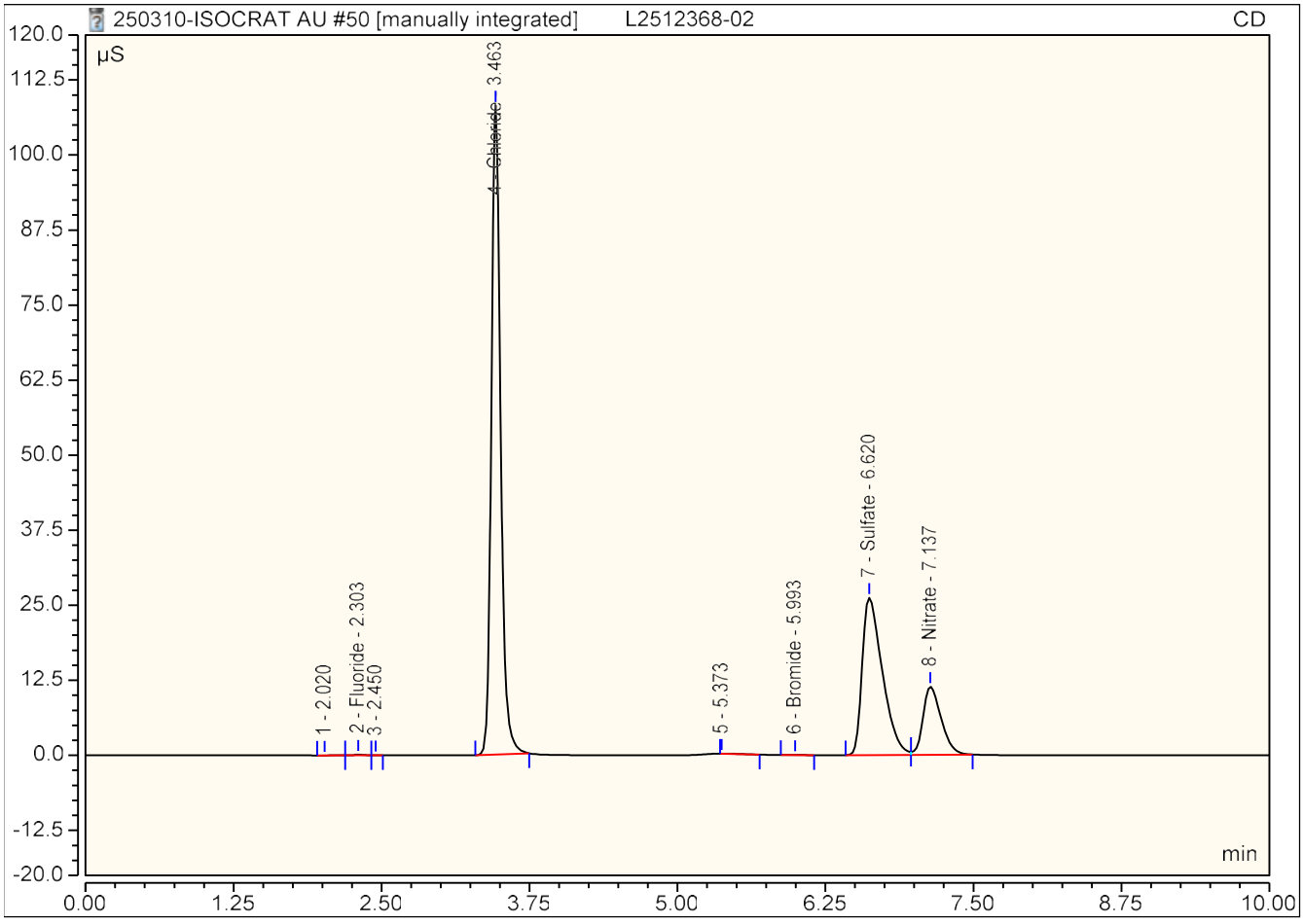
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.027	0.344	0.0765
3	3.47	**Chloride**	BMB	6.739	75.031	19.6842
5	6.00	**Bromide**	BMB	0.005	0.040	0.0728
6	6.63	**Sulfate**	BM *	4.726	24.154	18.6434
7	7.21	**Nitrate**	MB*	0.125	0.737	0.1756
TOTAL:				11.62	100.30	38.65



Peak Integration Report

Sample Name:	**L2512368-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**10-Mar-2025 / 23:50**	*Run Time:*	**10.00**

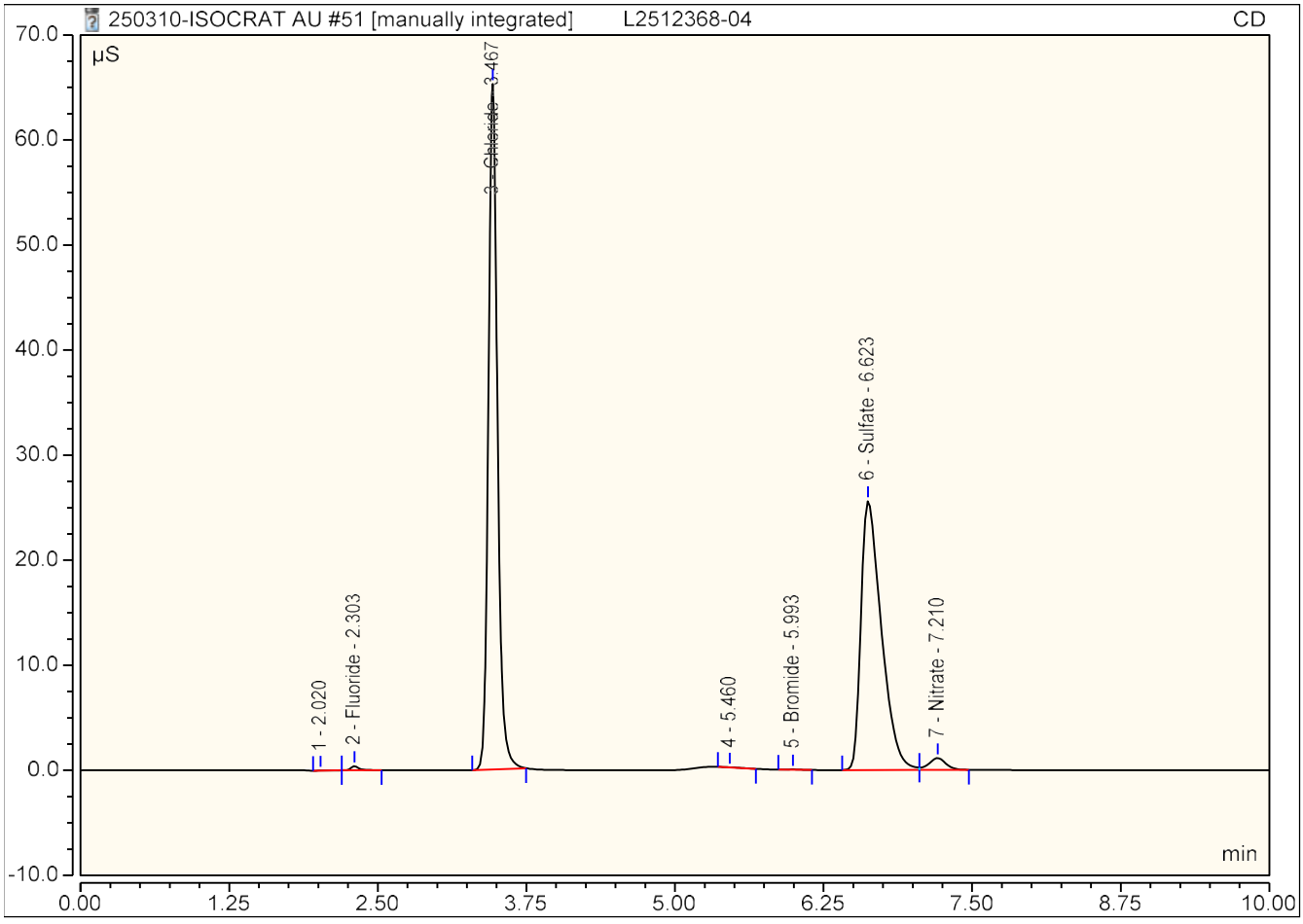
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.009	0.129	0.0424
4	3.46	**Chloride**	BMB	9.799	108.109	28.5818
6	5.99	**Bromide**	BMB	0.004	0.031	0.0636
7	6.62	**Sulfate**	BM *	5.175	26.209	20.3972
8	7.14	**Nitrate**	MB*	2.012	11.331	2.3804
TOTAL:				17.00	145.81	51.47



Peak Integration Report

Sample Name:	**L2512368-04**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**11-Mar-2025 / 00:02**	*Run Time:*	**10.00**

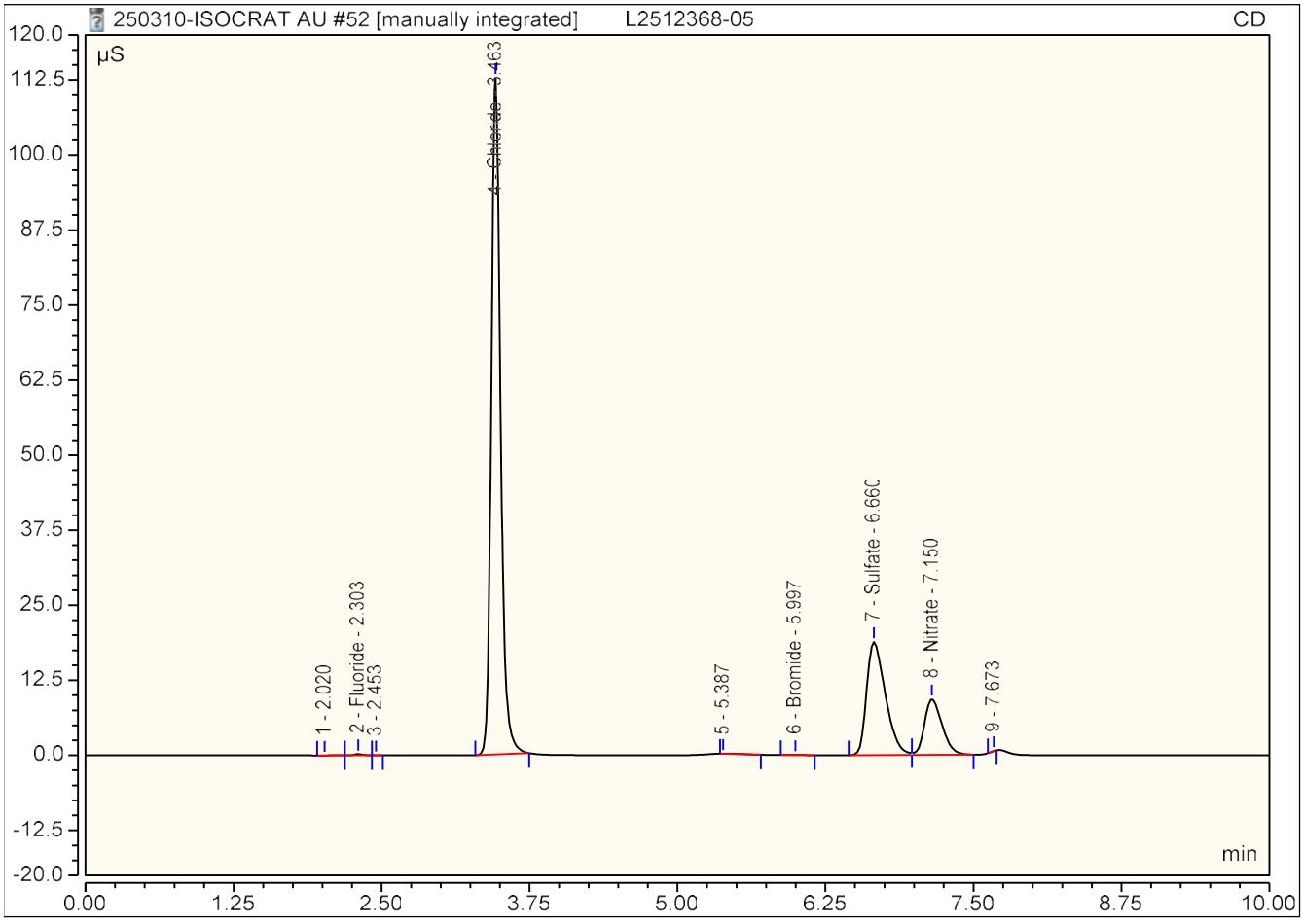
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.033	0.409	0.0876
3	3.47	**Chloride**	BMB	5.838	65.270	17.0634
5	5.99	**Bromide**	BMB	0.005	0.038	0.0704
6	6.62	**Sulfate**	BM *	5.099	25.622	20.1015
7	7.21	**Nitrate**	MB*	0.189	1.128	0.2502
TOTAL:				11.16	92.47	37.57



Peak Integration Report

Sample Name:	**L2512368-05**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**11-Mar-2025 / 00:14**	*Run Time:*	**10.00**

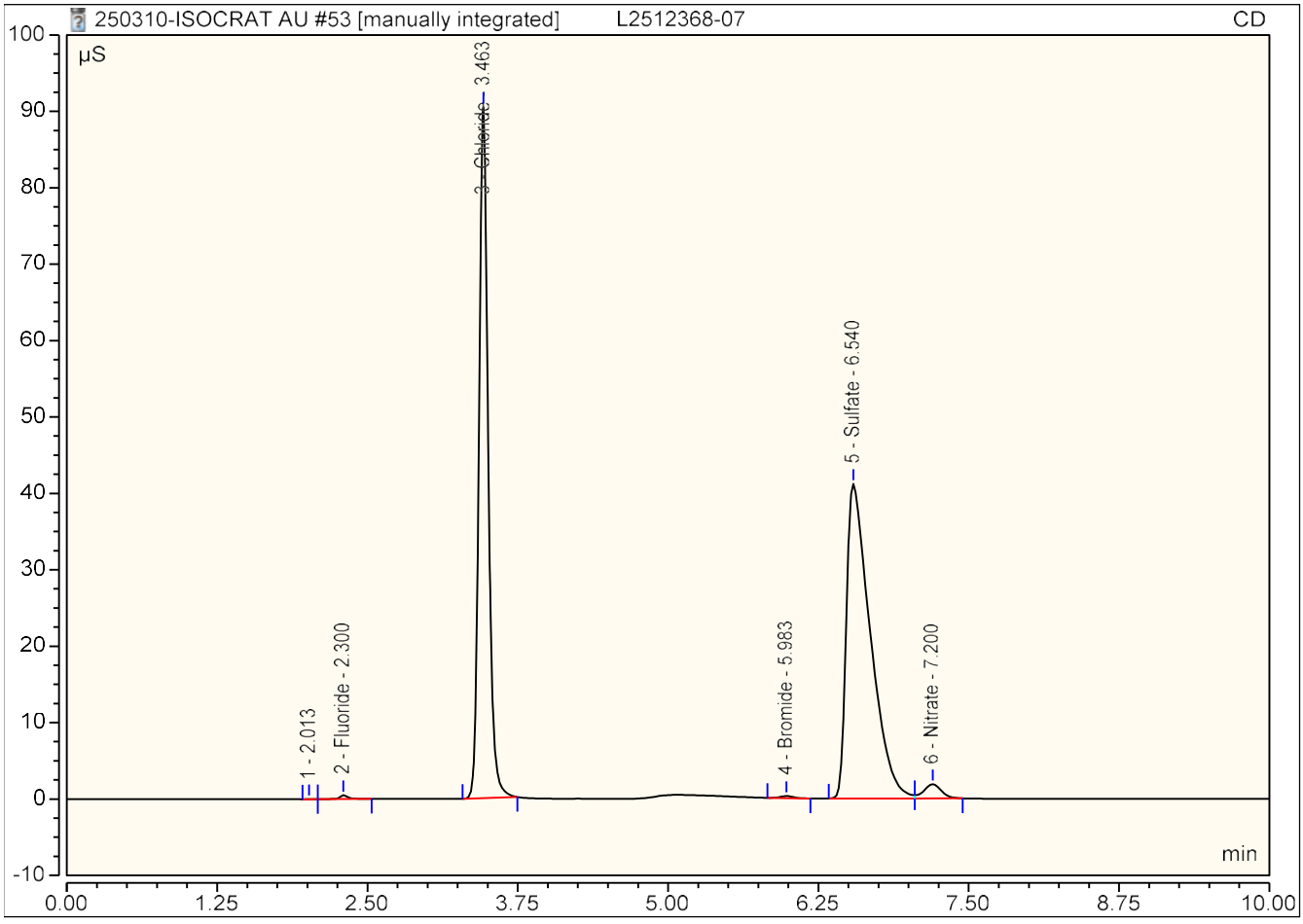
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.014	0.193	0.0509
4	3.46	**Chloride**	BMB	10.237	112.755	29.8547
6	6.00	**Bromide**	BMB	0.004	0.033	0.0661
7	6.66	**Sulfate**	BM *	3.463	18.839	13.7147
8	7.15	**Nitrate**	MB*	1.602	9.281	1.9007
TOTAL:				15.32	141.10	45.59



Peak Integration Report

Sample Name:	**L2512368-07**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**11-Mar-2025 / 00:26**	*Run Time:*	**10.00**

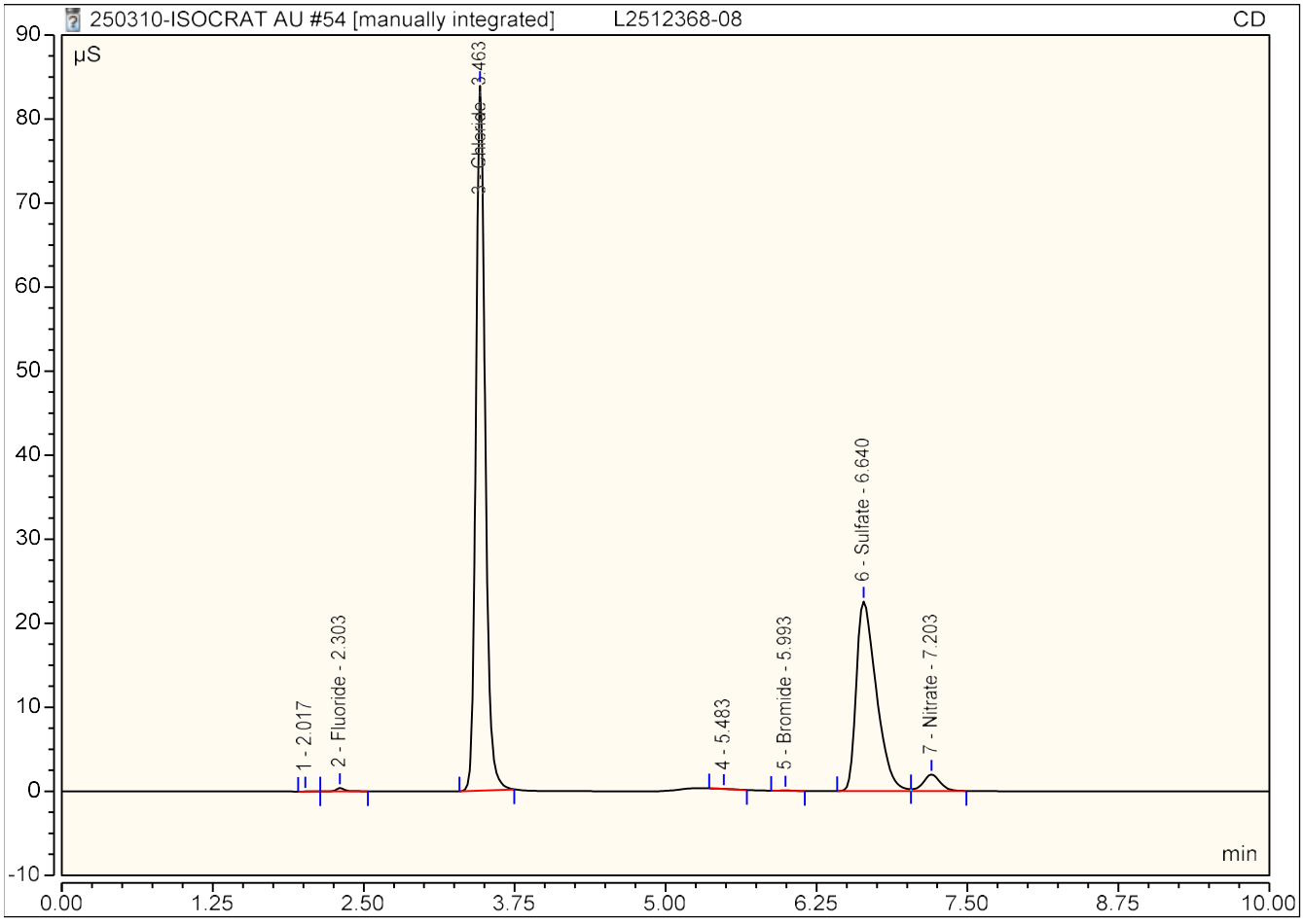
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.039	0.490	0.0989
3	3.46	**Chloride**	BMB	8.057	90.460	23.5176
4	5.98	**Bromide**	BMB	0.034	0.272	0.3073
5	6.54	**Sulfate**	BM *	9.507	41.187	37.3028
6	7.20	**Nitrate**	MB*	0.315	1.868	0.3978
TOTAL:				17.95	134.28	61.62



Peak Integration Report

Sample Name:	**L2512368-08**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**11-Mar-2025 / 00:38**	*Run Time:*	**10.00**

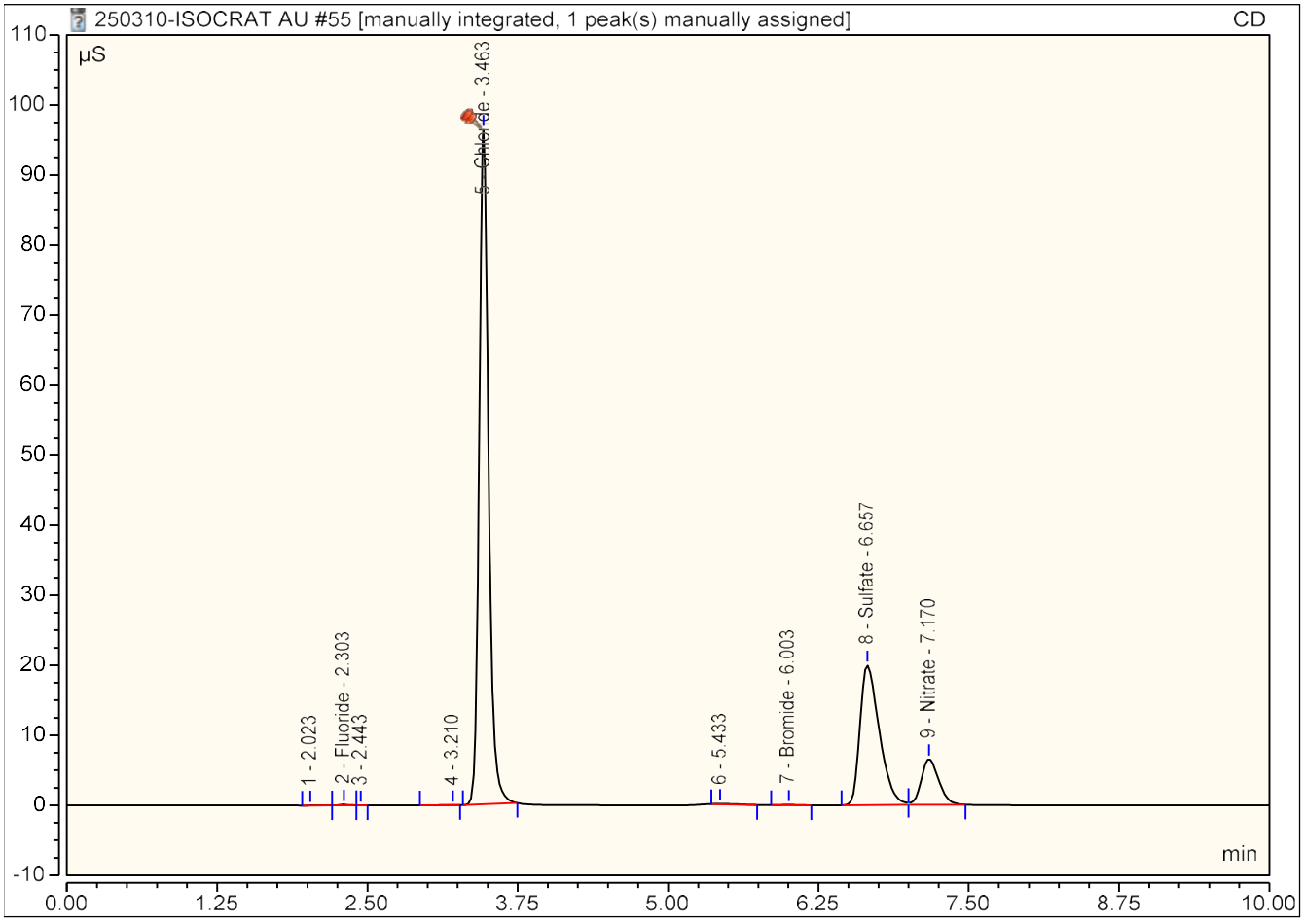
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.031	0.403	0.0850
3	3.46	**Chloride**	BMB	7.532	83.870	21.9893
5	5.99	**Bromide**	BMB	0.005	0.040	0.0729
6	6.64	**Sulfate**	BM *	4.345	22.561	17.1560
7	7.20	**Nitrate**	MB*	0.322	1.958	0.4058
TOTAL:				12.23	108.83	39.71



Peak Integration Report

Sample Name:	**L2512368-10**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**11-Mar-2025 / 00:50**	*Run Time:*	**10.00**

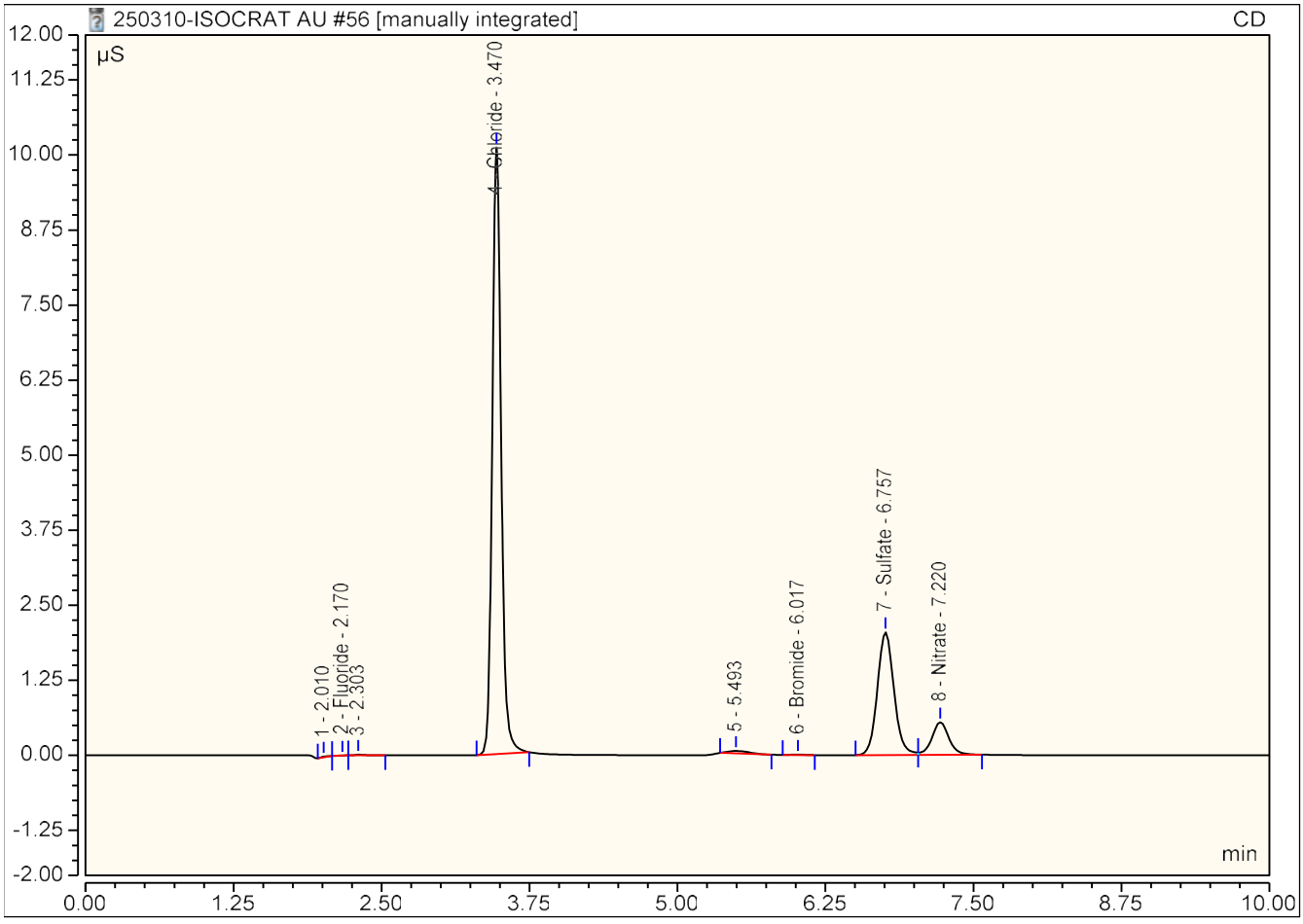
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.007	0.102	0.0384
5	3.46	**Chloride**	BMB^	8.750	96.320	25.5319
7	6.00	**Bromide**	BMB	0.008	0.064	0.0983
8	6.66	**Sulfate**	BM *	3.724	19.948	14.7331
9	7.17	**Nitrate**	MB*	1.099	6.525	1.3133
TOTAL:				13.59	122.96	41.72



Peak Integration Report

Sample Name:	**XL2512368-10; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**11-Mar-2025 / 01:02**	*Run Time:*	**10.00**

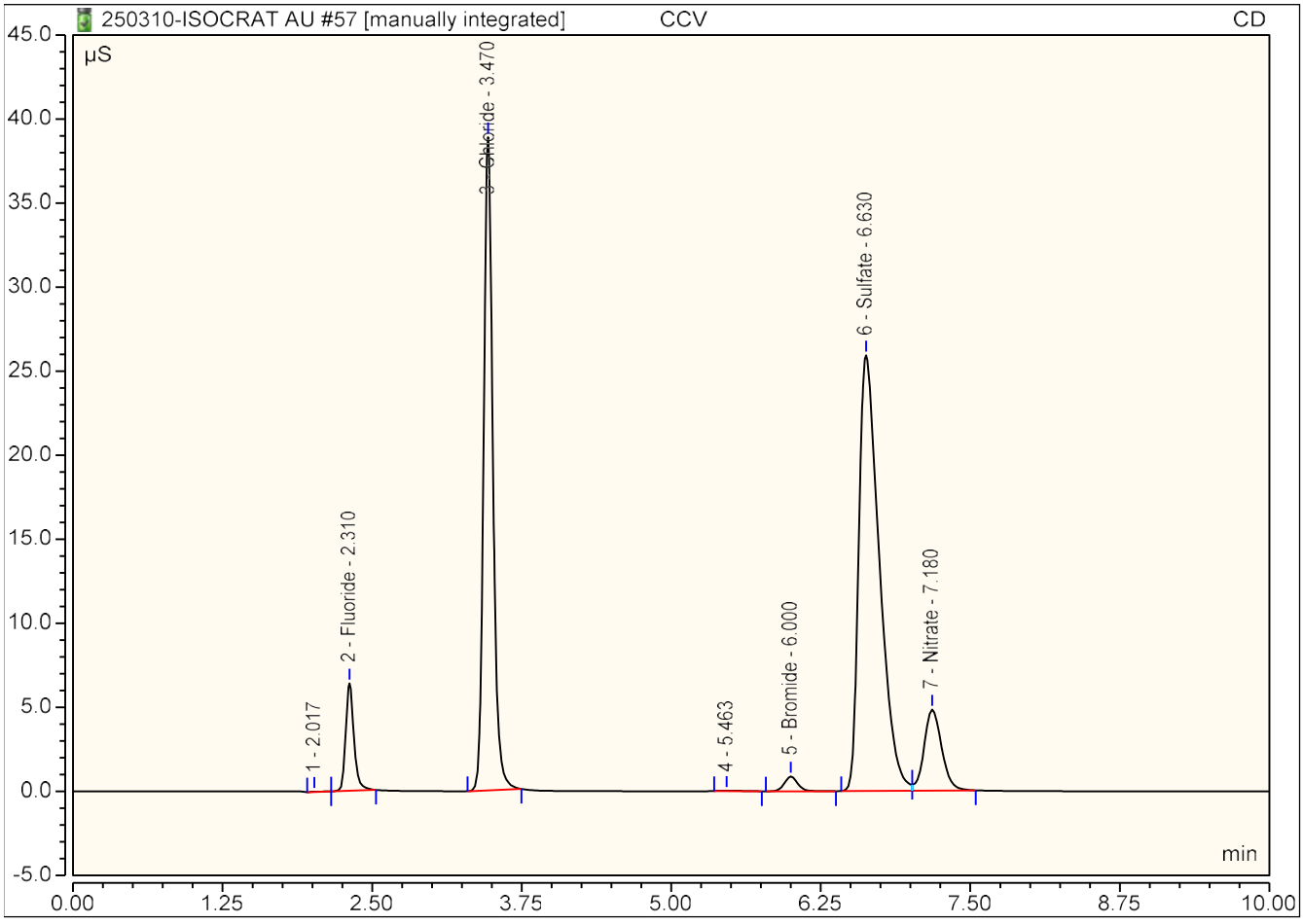
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.17	**Fluoride**	BMB	0.000	0.001	0.2482
4	3.47	**Chloride**	BMB	0.877	10.105	26.3838
6	6.02	**Bromide**	BMB	0.001	0.006	0.4044
7	6.76	**Sulfate**	BM *	0.333	2.047	15.0033
8	7.22	**Nitrate**	MB*	0.090	0.545	1.3520
TOTAL:				1.30	12.70	43.39



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**11-Mar-2025 / 01:14**	*Run Time:*	**10.00**

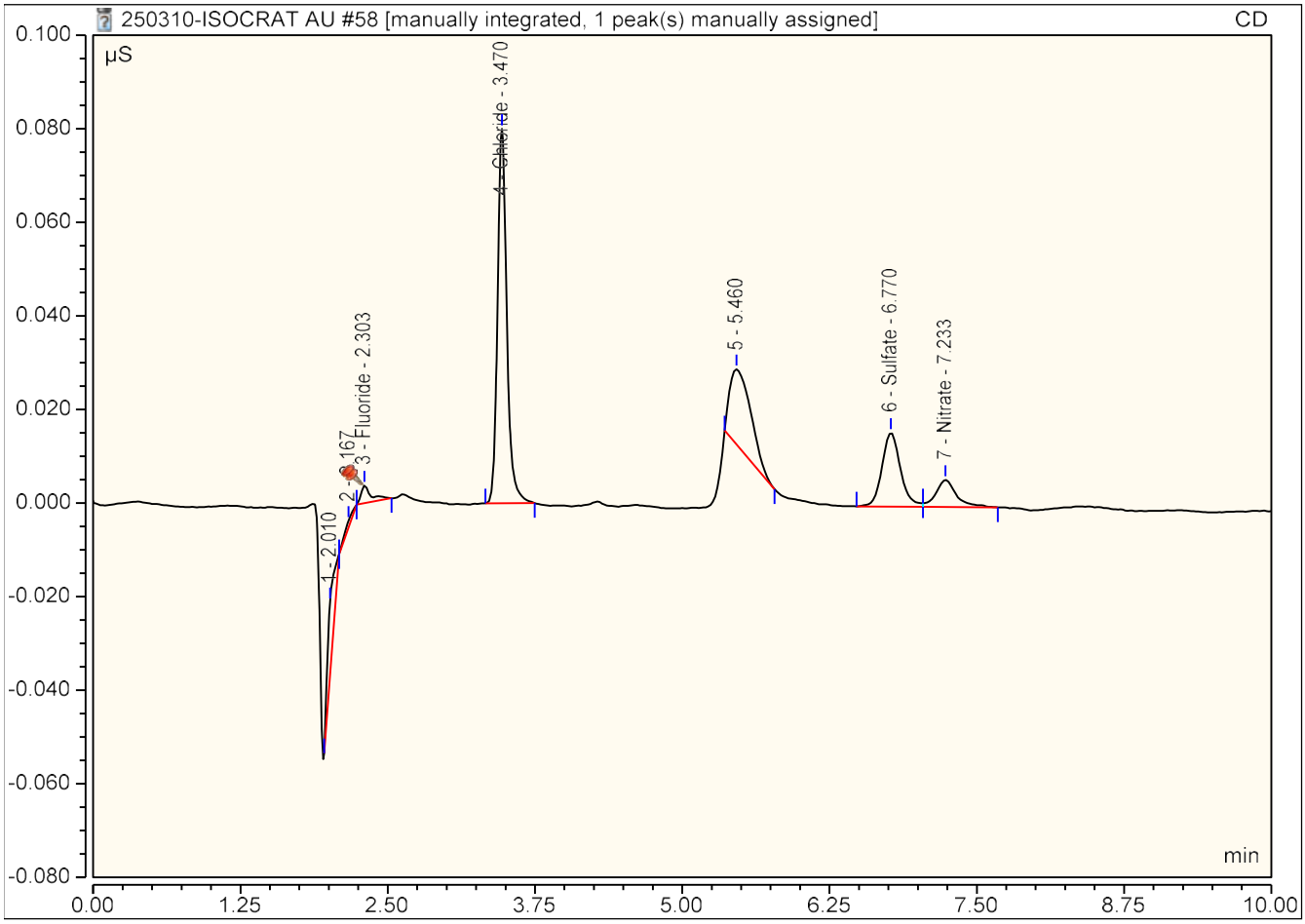
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.504	6.387	0.9917
3	3.47	**Chloride**	BMB	3.461	38.855	10.1540
5	6.00	**Bromide**	BMB	0.114	0.881	0.9456
6	6.63	**Sulfate**	BM *	5.144	25.911	20.2748
7	7.18	**Nitrate**	MB*	0.819	4.831	0.9864
TOTAL:				10.04	76.86	33.35



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**11-Mar-2025 / 01:26**	*Run Time:*	**10.00**

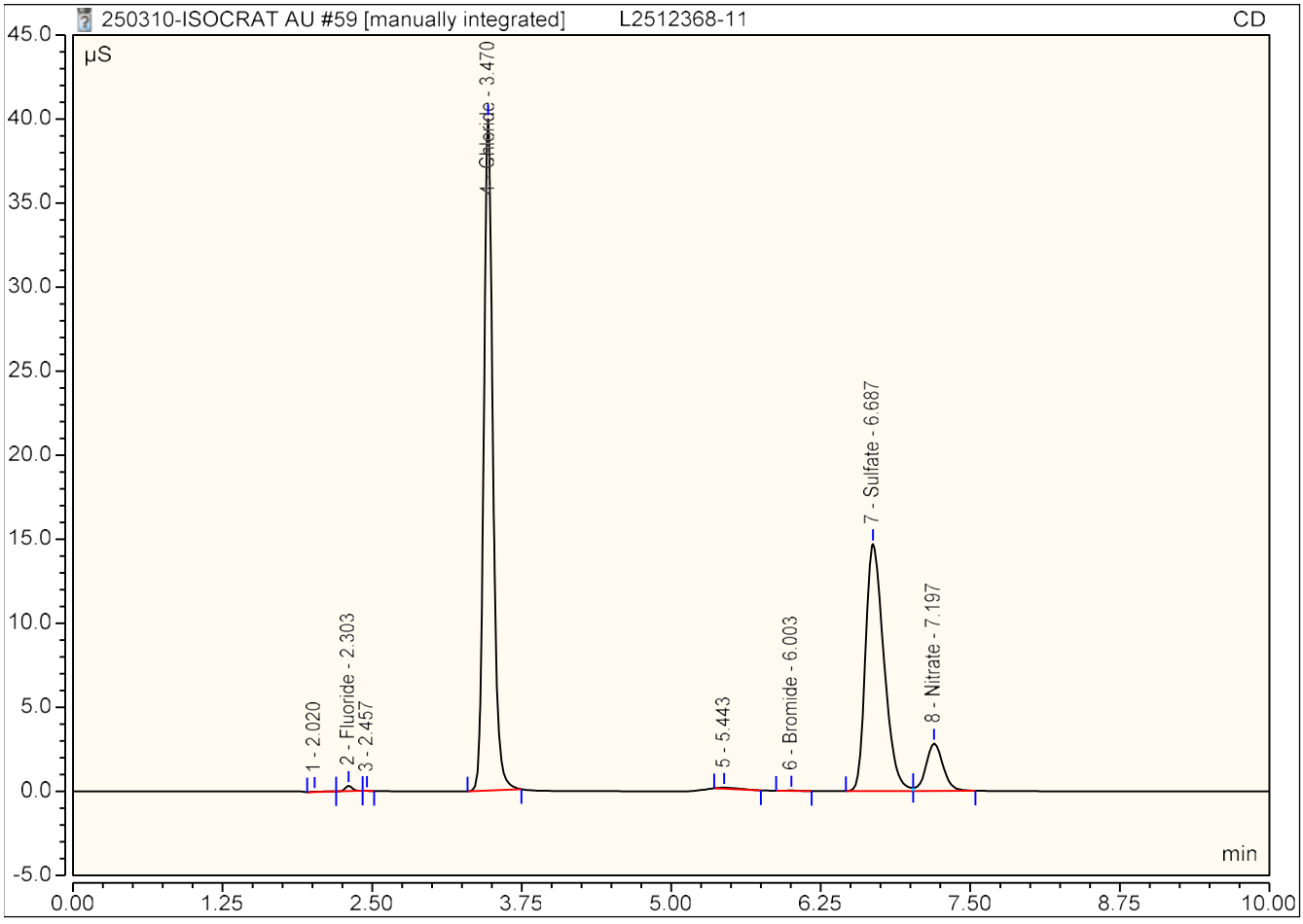
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	2.30	**Fluoride**	BMB^	0.000	0.004	0.0254
4	3.47	**Chloride**	BMB	0.007	0.080	0.1101
6	6.77	**Sulfate**	BM *	0.003	0.016	0.2134
7	7.23	**Nitrate**	MB*	0.001	0.006	0.0311
TOTAL:				0.01	0.11	0.38



Peak Integration Report

Sample Name:	**L2512368-11**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**11-Mar-2025 / 01:38**	*Run Time:*	**10.00**

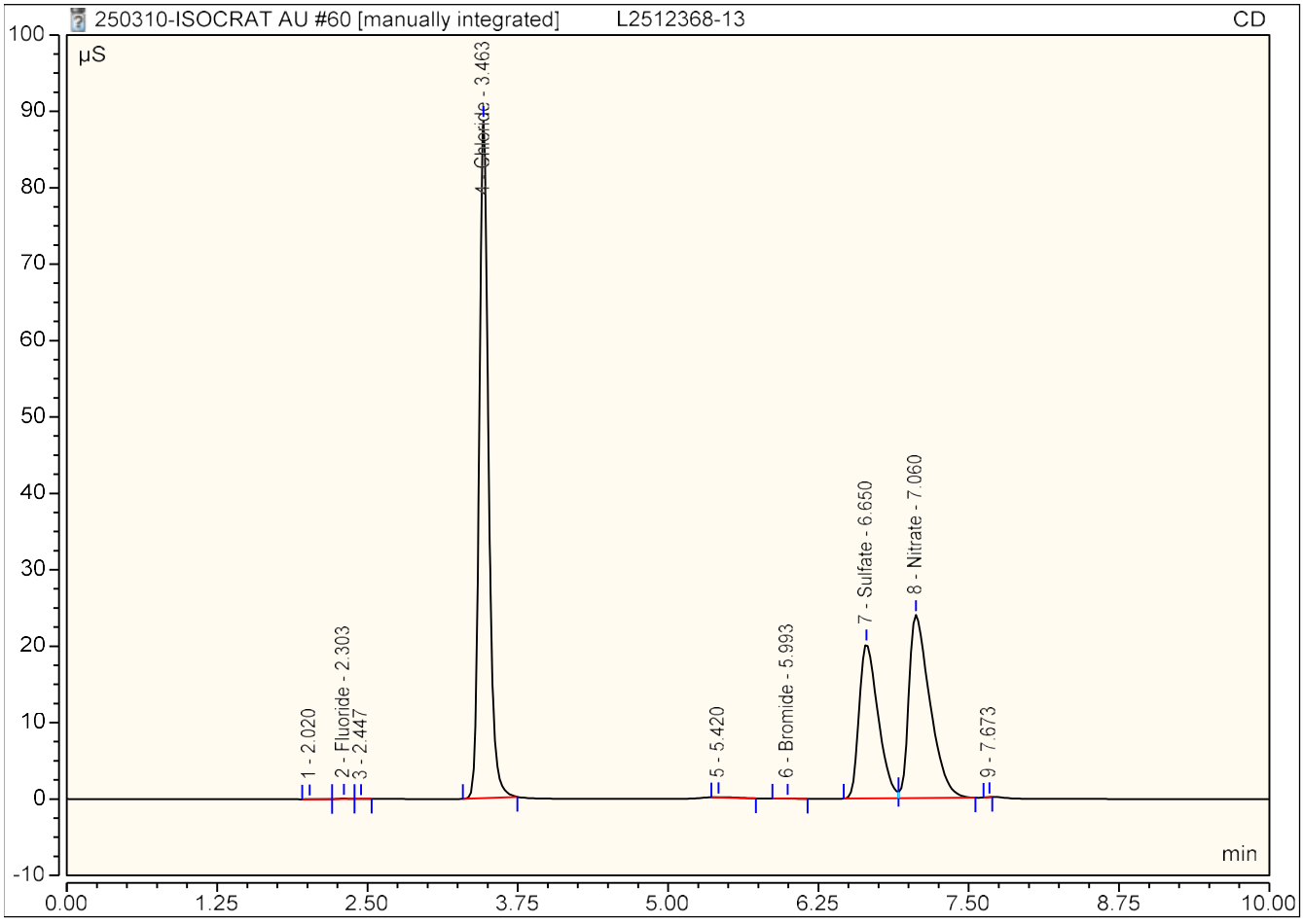
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.022	0.315	0.0665
4	3.47	**Chloride**	BMB	3.551	39.946	10.4134
6	6.00	**Bromide**	BMB	0.003	0.024	0.0573
7	6.69	**Sulfate**	BM *	2.620	14.694	10.4254
8	7.20	**Nitrate**	MB*	0.462	2.821	0.5693
TOTAL:				6.66	57.80	21.53



Peak Integration Report

Sample Name:	**L2512368-13**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**11-Mar-2025 / 01:50**	*Run Time:*	**10.00**

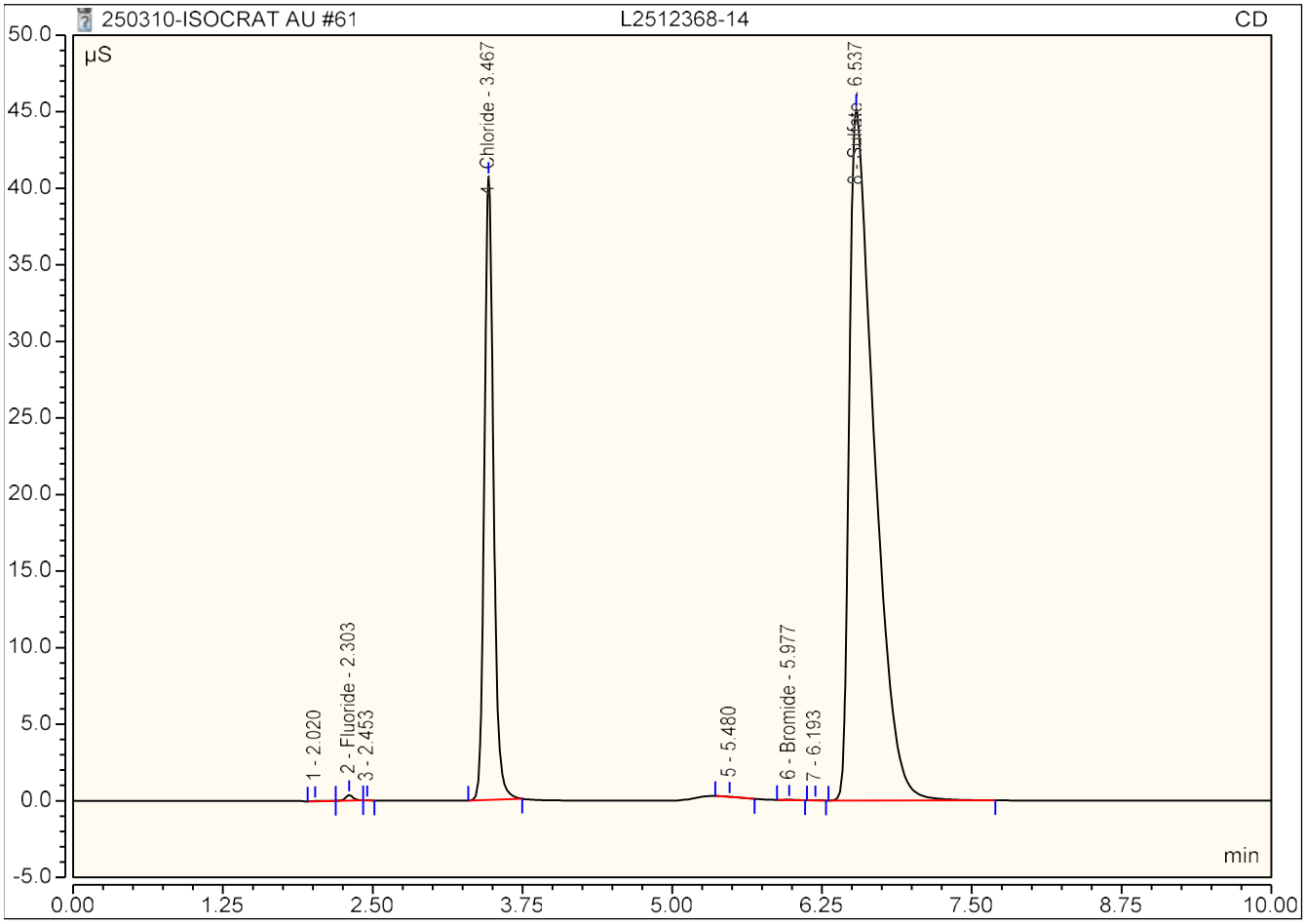
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.004	0.057	0.0322
4	3.46	**Chloride**	BMB	8.023	88.676	23.4188
6	5.99	**Bromide**	BMB	0.004	0.037	0.0695
7	6.65	**Sulfate**	BM *	3.691	20.187	14.6040
8	7.06	**Nitrate**	MB*	4.879	23.984	5.7294
TOTAL:				16.60	132.94	43.85



Peak Integration Report

Sample Name:	**L2512368-14**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**11-Mar-2025 / 02:03**	*Run Time:*	**10.00**

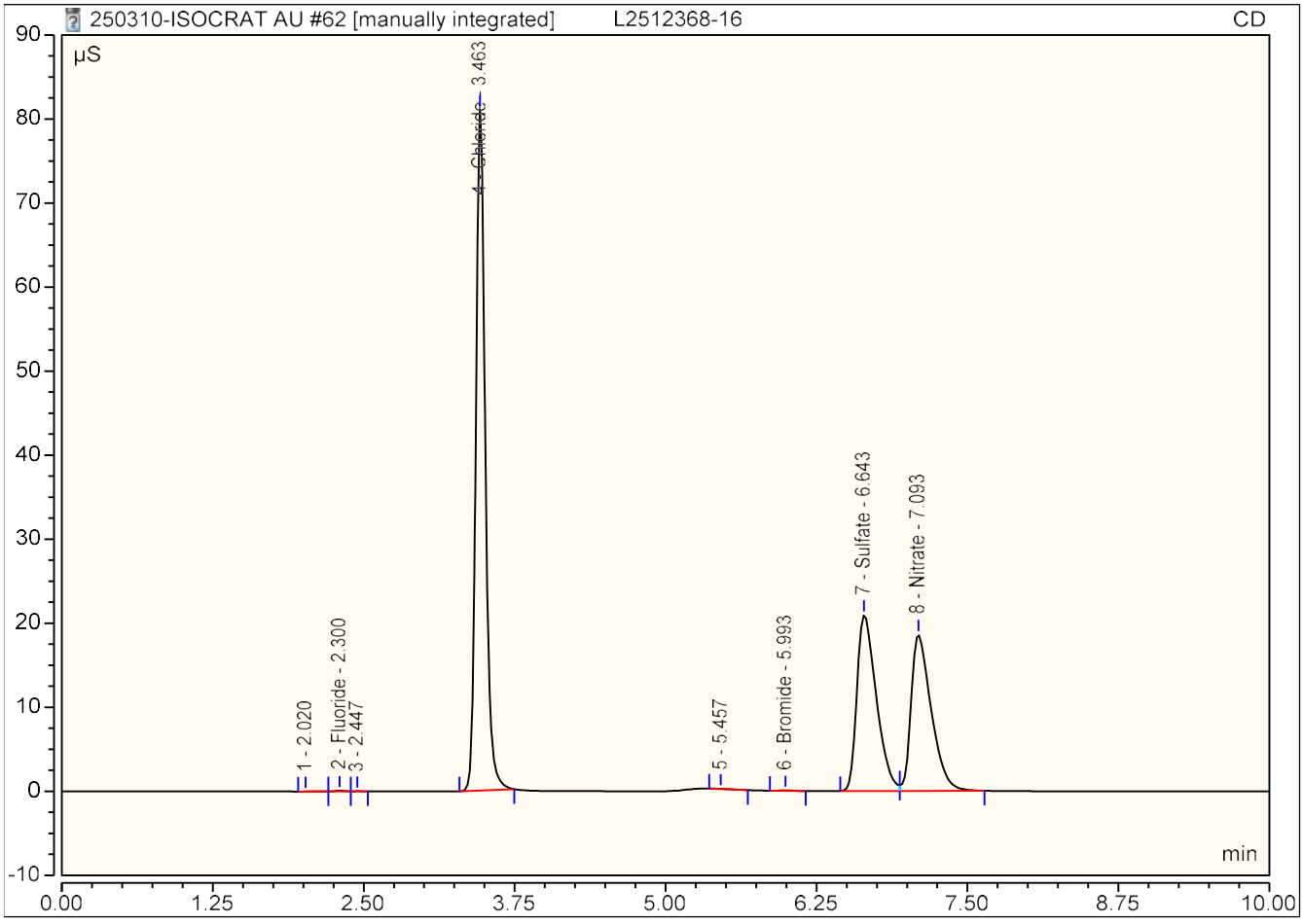
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.025	0.361	0.0725
4	3.47	**Chloride**	BMB	3.608	40.682	10.5797
6	5.98	**Bromide**	BMB	0.002	0.021	0.0531
8	6.54	**Sulfate**	BMB	10.856	45.136	42.5641
TOTAL:				14.49	86.20	53.27



Peak Integration Report

Sample Name:	**L2512368-16**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**11-Mar-2025 / 02:15**	*Run Time:*	**10.00**

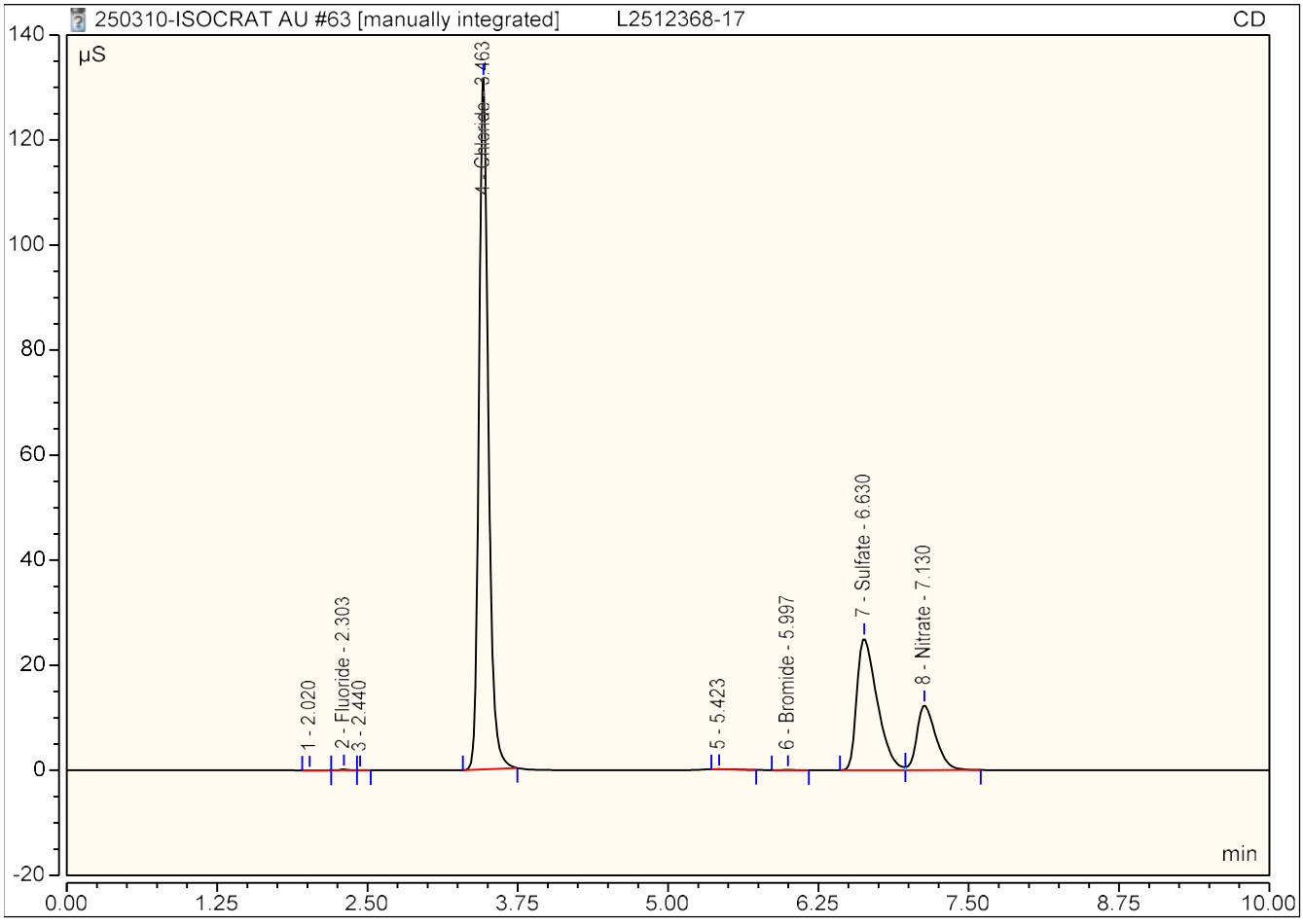
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.005	0.073	0.0342
4	3.46	**Chloride**	BMB	7.290	81.008	21.2861
6	5.99	**Bromide**	BMB	0.007	0.055	0.0876
7	6.64	**Sulfate**	BM *	3.904	20.932	15.4382
8	7.09	**Nitrate**	MB*	3.592	18.593	4.2260
TOTAL:				14.80	120.66	41.07



Peak Integration Report

Sample Name:	**L2512368-17**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**11-Mar-2025 / 02:27**	*Run Time:*	**10.00**

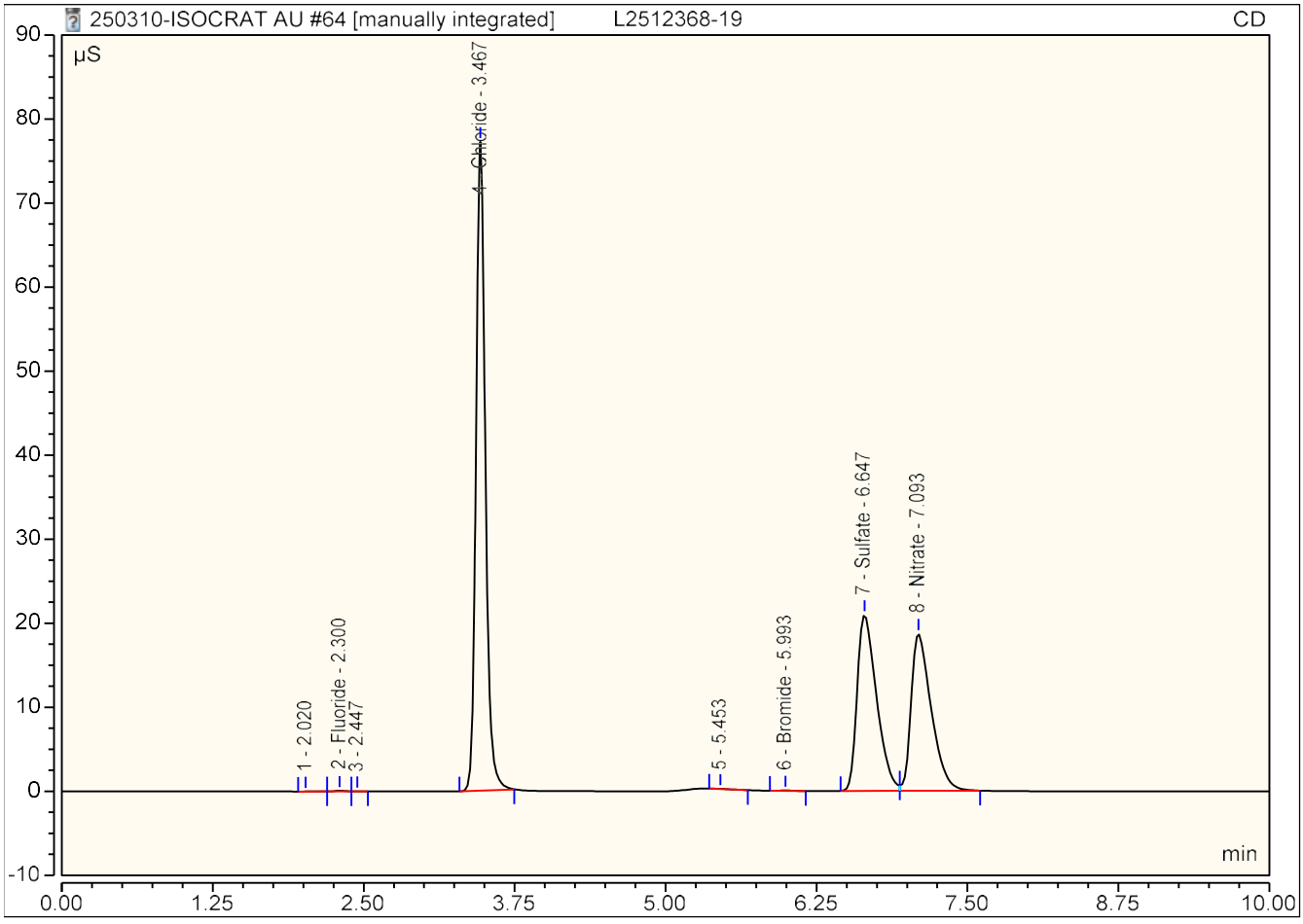
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.012	0.180	0.0485
4	3.46	**Chloride**	BMB	12.006	131.516	34.9995
6	6.00	**Bromide**	BMB	0.005	0.041	0.0748
7	6.63	**Sulfate**	BM *	4.905	25.144	19.3449
8	7.13	**Nitrate**	MB*	2.240	12.354	2.6463
TOTAL:				19.17	169.24	57.11



Peak Integration Report

Sample Name:	**L2512368-19**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**11-Mar-2025 / 02:39**	*Run Time:*	**10.00**

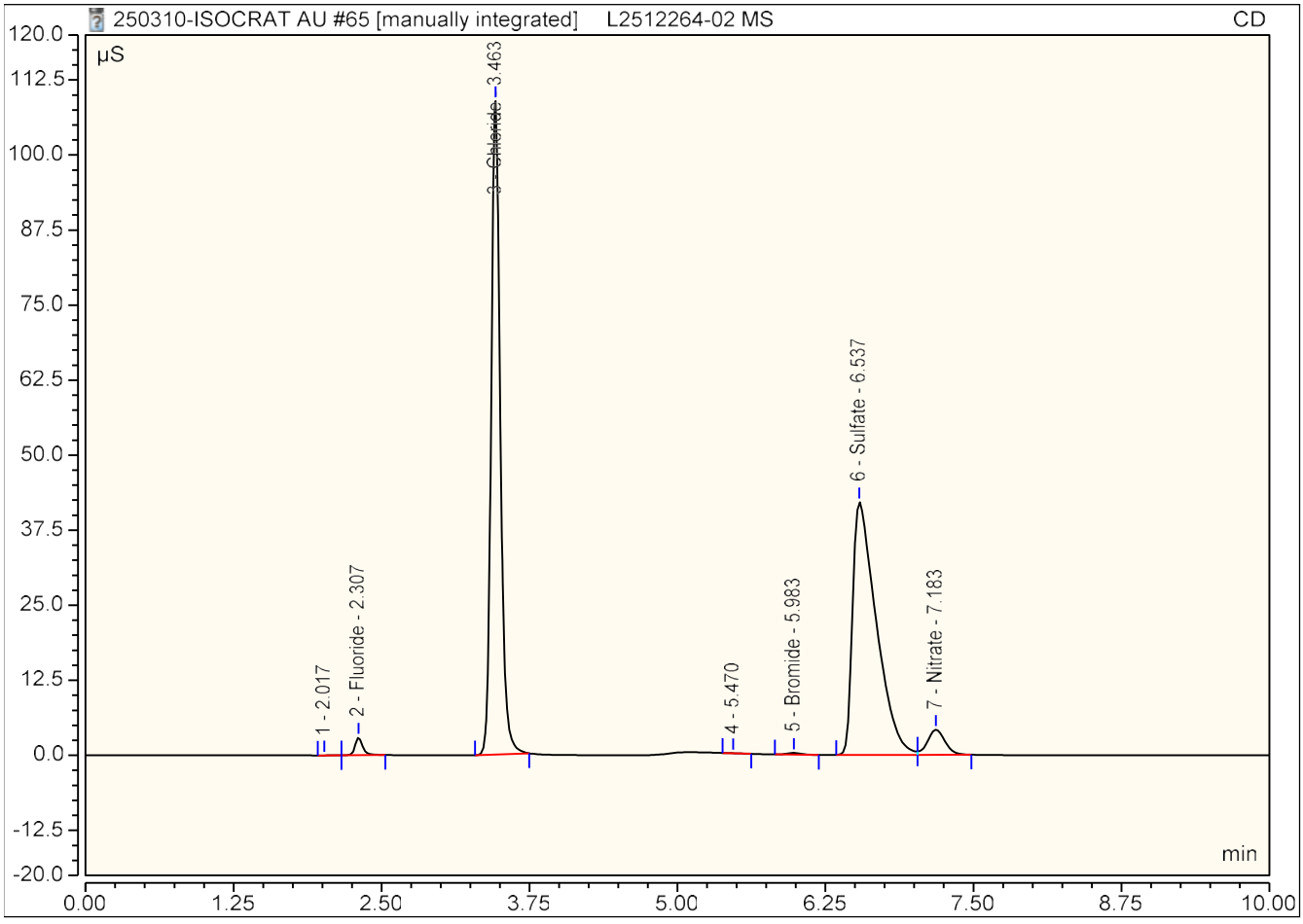
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.005	0.074	0.0344
4	3.47	**Chloride**	BMB	6.927	77.196	20.2318
6	5.99	**Bromide**	BMB	0.006	0.051	0.0840
7	6.65	**Sulfate**	BM *	3.899	20.942	15.4191
8	7.09	**Nitrate**	MB*	3.608	18.691	4.2450
TOTAL:				14.45	116.95	40.01



Peak Integration Report

Sample Name:	**L2512264-02 MS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**11-Mar-2025 / 02:51**	*Run Time:*	**10.00**

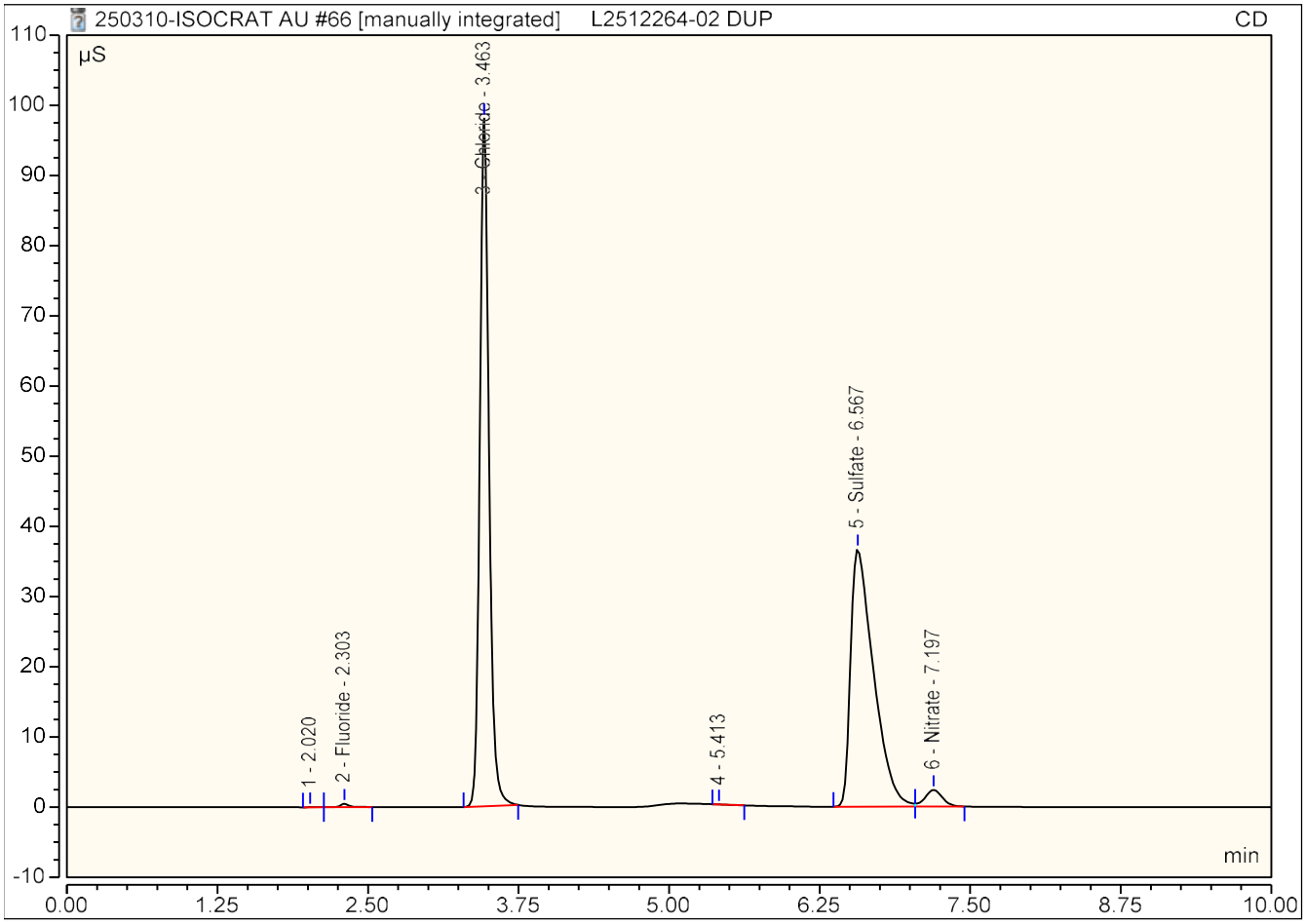
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.223	2.968	0.4528
3	3.46	**Chloride**	BMB	9.726	108.847	28.3707
5	5.98	**Bromide**	BMB	0.037	0.290	0.3261
6	6.54	**Sulfate**	BM *	9.770	42.110	38.3286
7	7.18	**Nitrate**	MB*	0.712	4.189	0.8612
TOTAL:				20.47	158.40	68.34



Peak Integration Report

Sample Name:	**L2512264-02 DUP**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**11-Mar-2025 / 03:03**	*Run Time:*	**10.00**

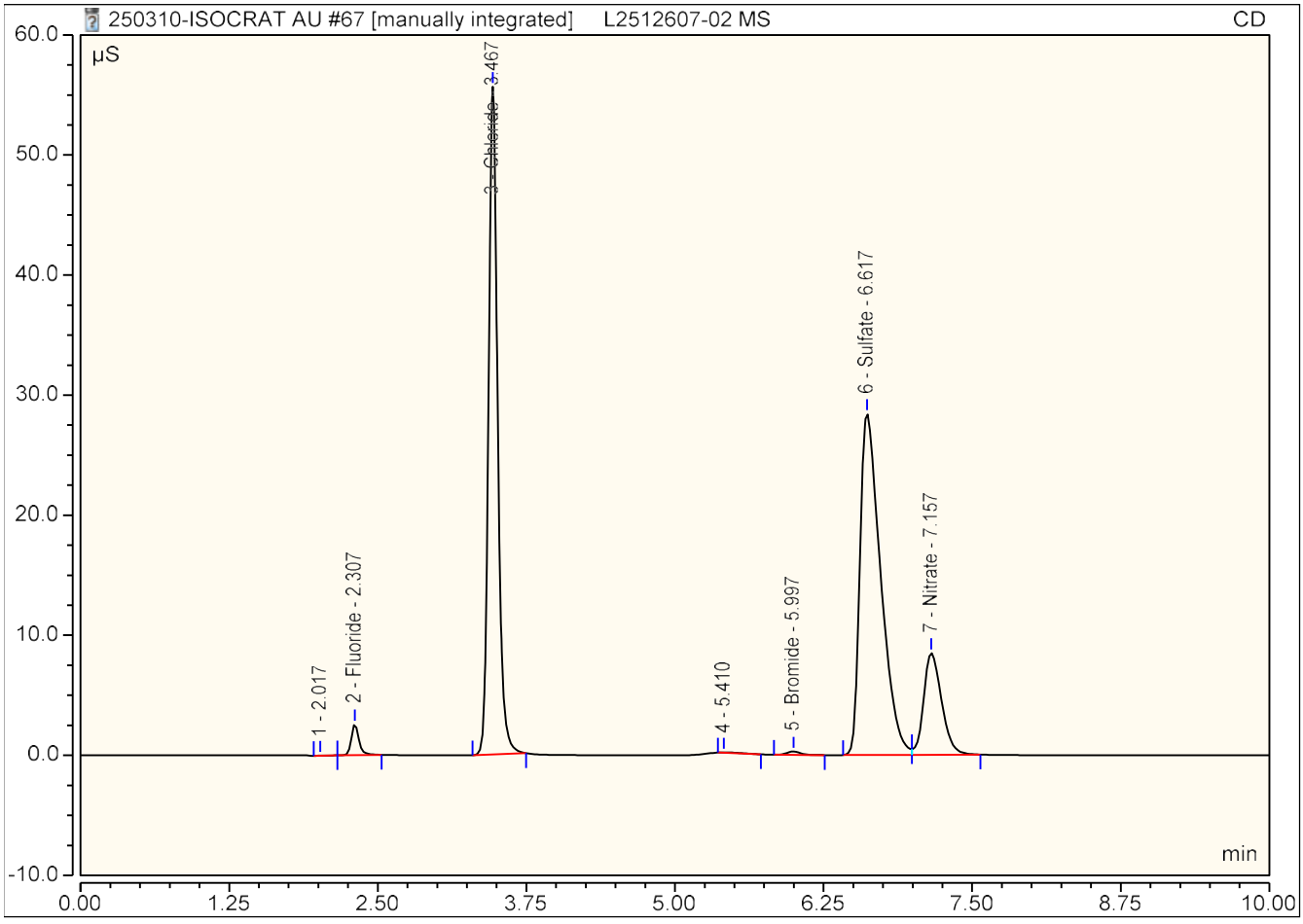
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.038	0.491	0.0976
3	3.46	**Chloride**	BMB	8.735	98.016	25.4880
5	6.57	**Sulfate**	BM *	8.104	36.705	31.8261
6	7.20	**Nitrate**	MB*	0.397	2.373	0.4937
TOTAL:				17.27	137.58	57.91



Peak Integration Report

Sample Name:	**L2512607-02 MS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**11-Mar-2025 / 03:15**	*Run Time:*	**10.00**

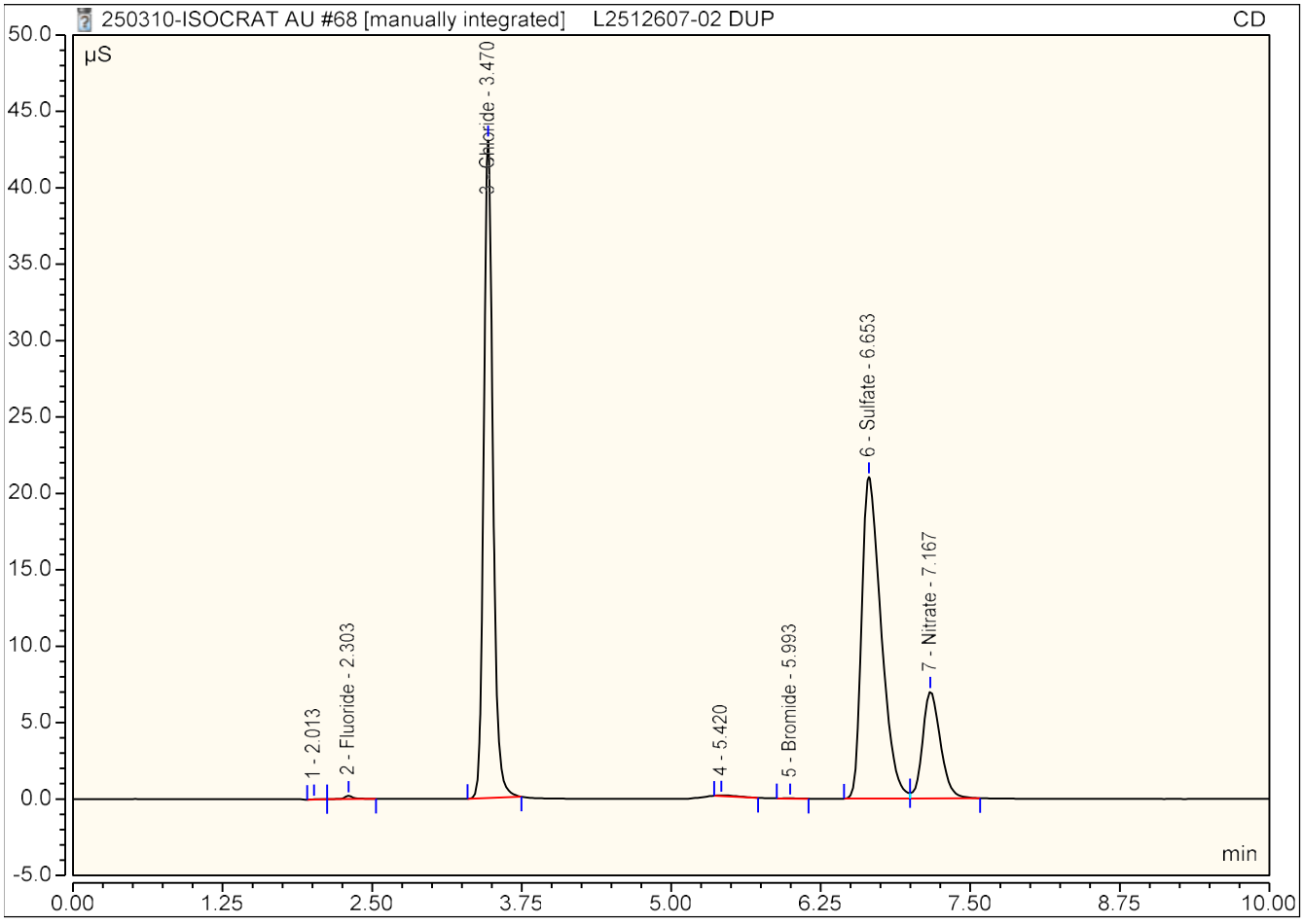
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.192	2.576	0.3929
3	3.47	**Chloride**	BMB	4.978	55.621	14.5625
5	6.00	**Bromide**	BMB	0.037	0.289	0.3302
6	6.62	**Sulfate**	BM *	5.746	28.418	22.6242
7	7.16	**Nitrate**	MB*	1.482	8.478	1.7606
TOTAL:				12.43	95.38	39.67



Peak Integration Report

Sample Name:	**L2512607-02 DUP**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**11-Mar-2025 / 03:27**	*Run Time:*	**10.00**

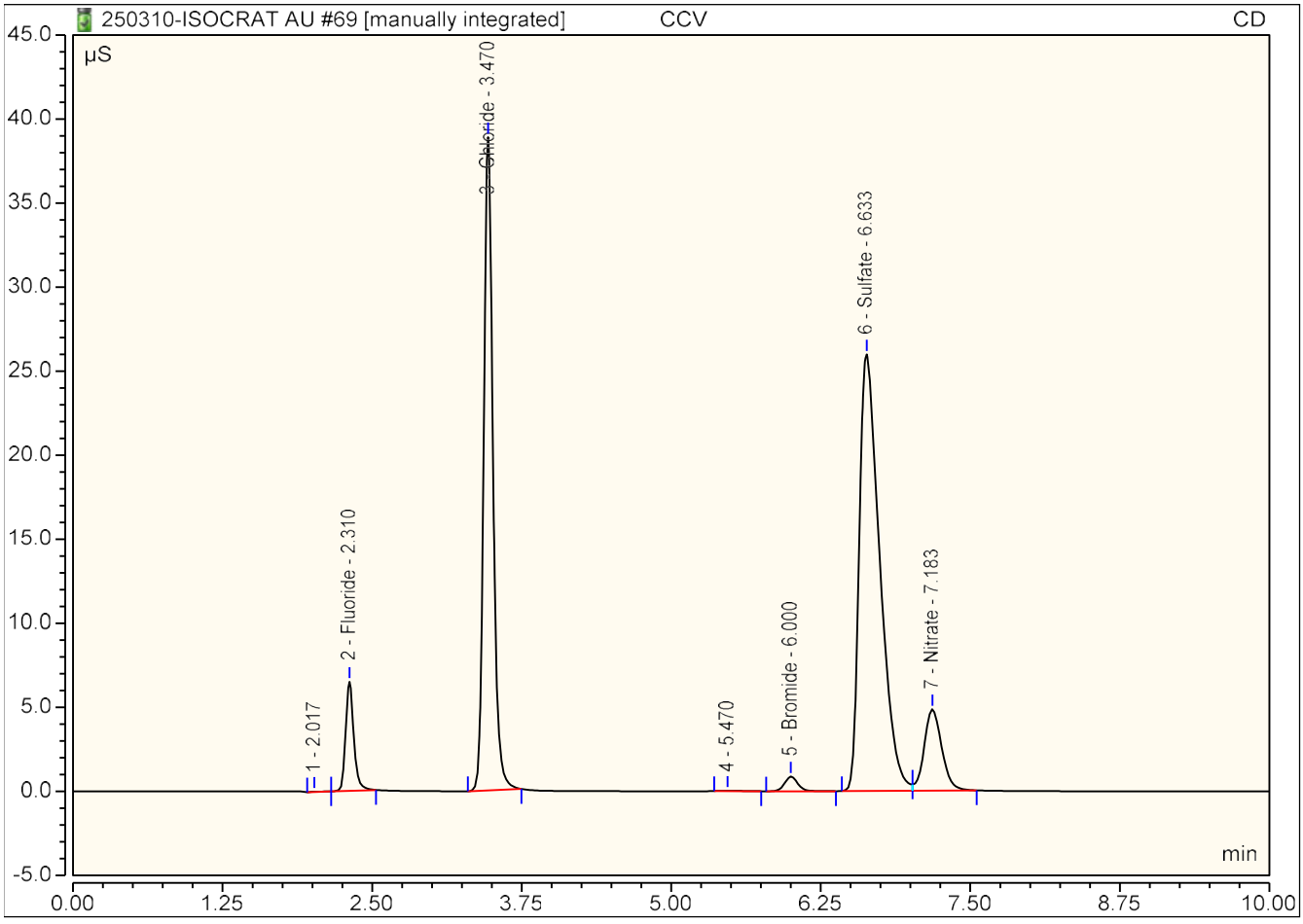
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.017	0.207	0.0581
3	3.47	**Chloride**	BMB	3.836	43.046	11.2425
5	5.99	**Bromide**	BMB	0.002	0.015	0.0482
6	6.65	**Sulfate**	BM *	3.969	21.048	15.6899
7	7.17	**Nitrate**	MB*	1.201	6.989	1.4325
TOTAL:				9.02	71.30	28.47



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**11-Mar-2025 / 03:39**	*Run Time:*	**10.00**

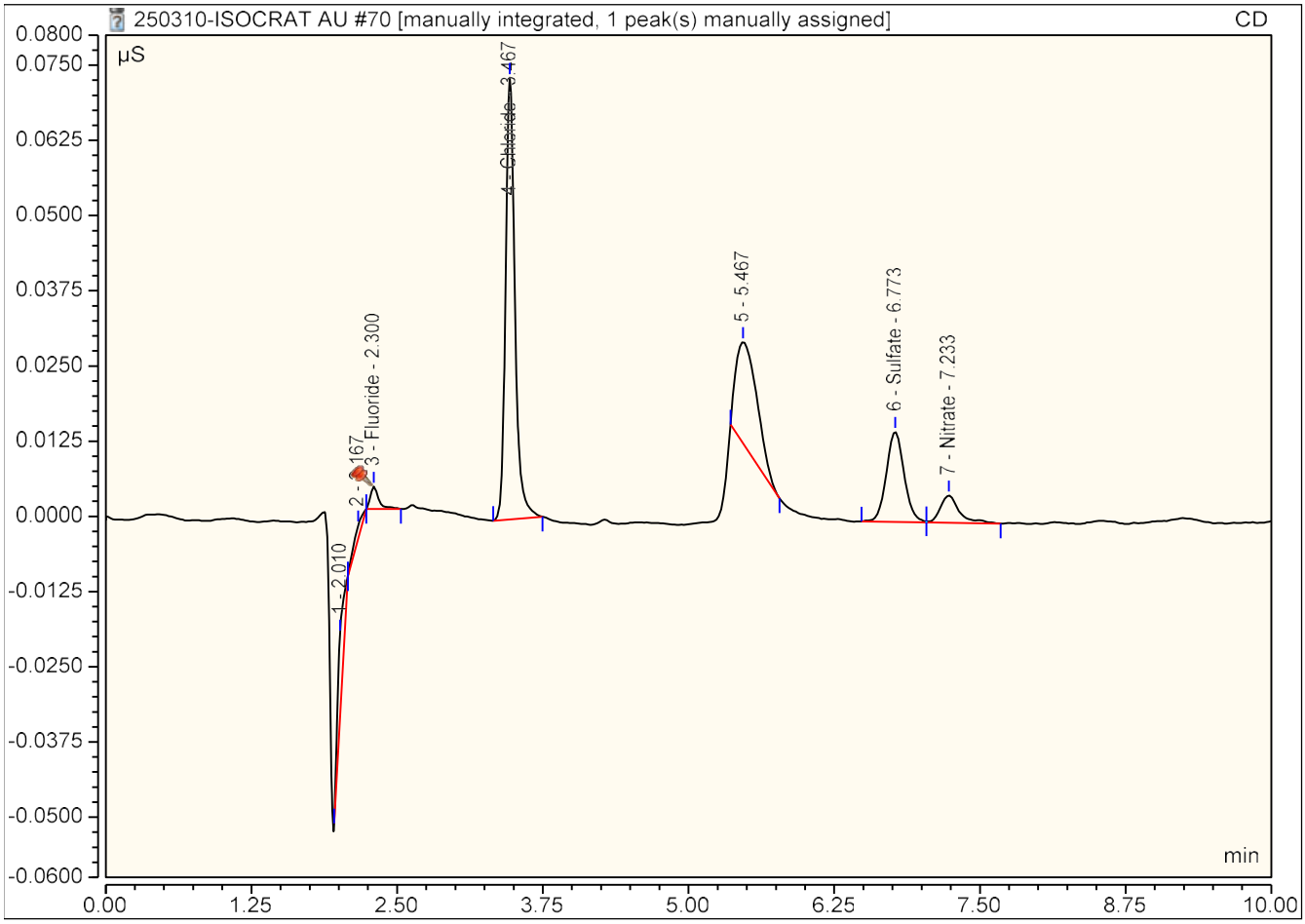
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.507	6.488	0.9985
3	3.47	**Chloride**	BMB	3.462	38.855	10.1565
5	6.00	**Bromide**	BMB	0.113	0.874	0.9401
6	6.63	**Sulfate**	BM *	5.144	25.965	20.2755
7	7.18	**Nitrate**	MB*	0.820	4.837	0.9874
TOTAL:				10.05	77.02	33.36



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**11-Mar-2025 / 03:51**	*Run Time:*	**10.00**

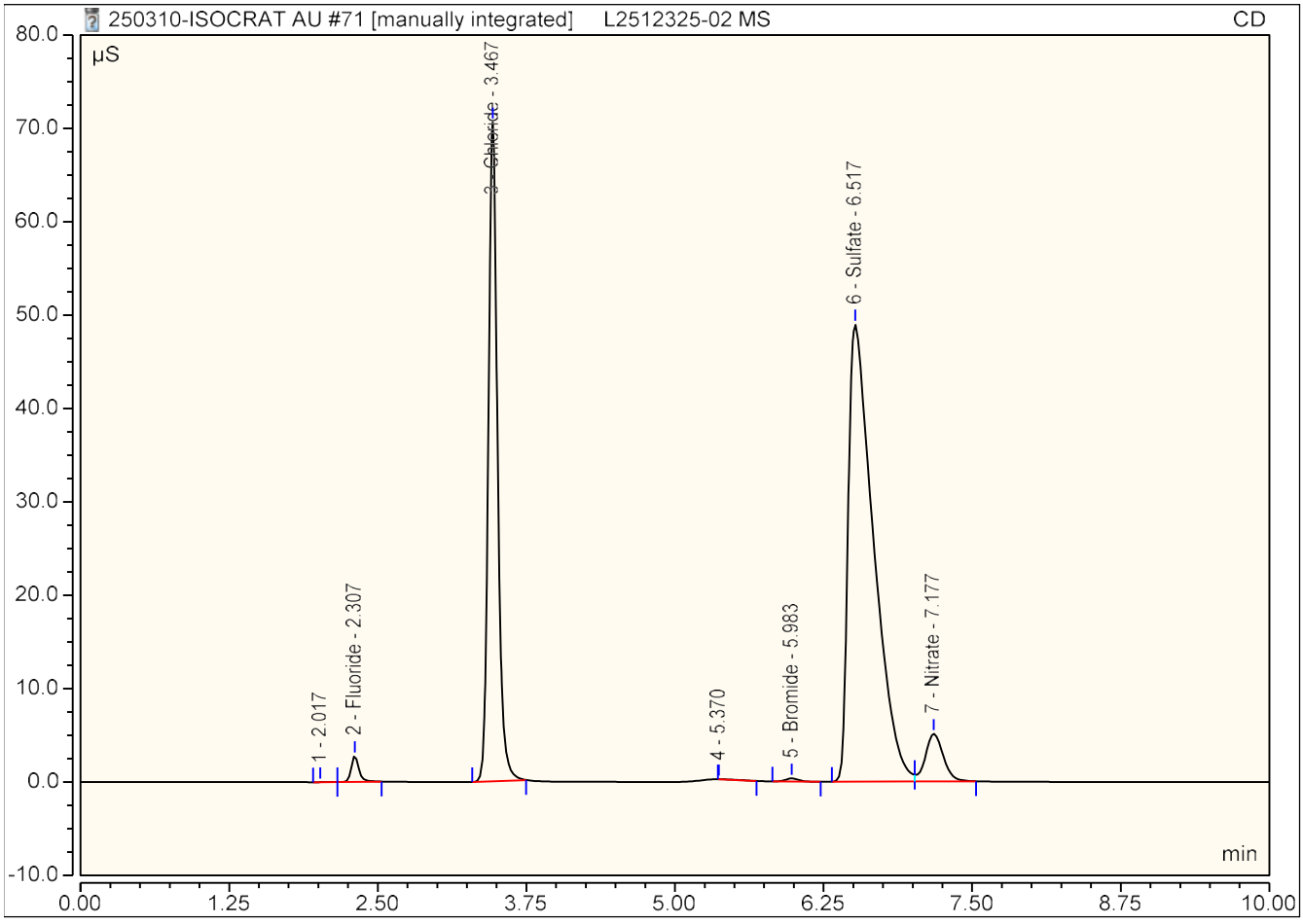
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	2.30	**Fluoride**	BMB^	0.000	0.004	0.0252
4	3.47	**Chloride**	BMB	0.007	0.073	0.1086
6	6.77	**Sulfate**	BM *	0.003	0.015	0.2126
7	7.23	**Nitrate**	MB*	0.001	0.005	0.0308
TOTAL:				0.01	0.10	0.38



Peak Integration Report

Sample Name:	**L2512325-02 MS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**11-Mar-2025 / 04:03**	*Run Time:*	**10.00**

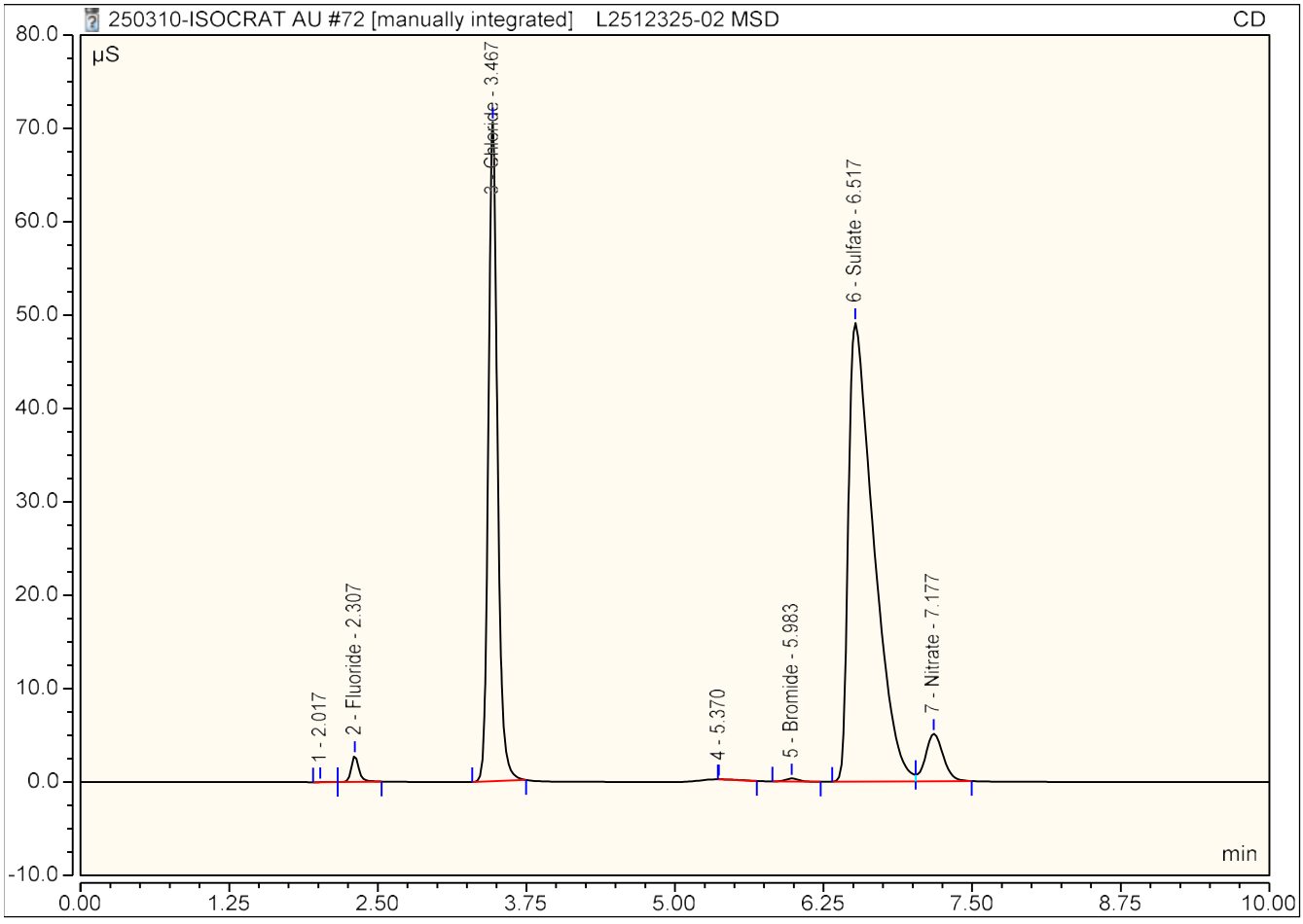
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.208	2.772	0.4243
3	3.47	**Chloride**	BMB	6.327	70.568	18.4867
5	5.98	**Bromide**	BMB	0.042	0.336	0.3728
6	6.52	**Sulfate**	BM *	12.078	48.975	47.3356
7	7.18	**Nitrate**	MB*	0.890	5.101	1.0695
TOTAL:				19.55	127.75	67.69



Peak Integration Report

Sample Name:	**L2512325-02 MSD**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**11-Mar-2025 / 04:15**	*Run Time:*	**10.00**

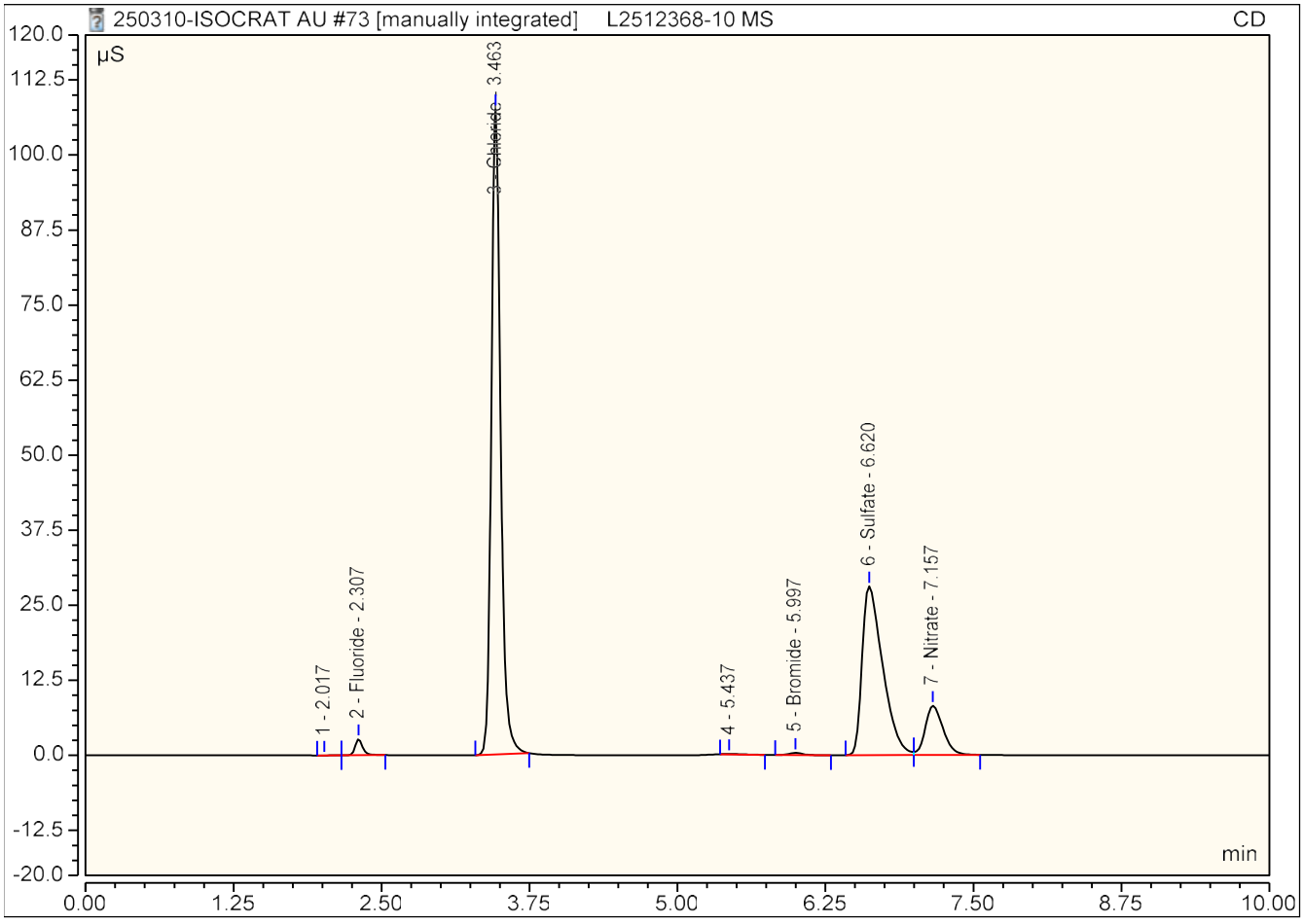
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.209	2.791	0.4252
3	3.47	**Chloride**	BMB	6.326	70.582	18.4842
5	5.98	**Bromide**	BMB	0.042	0.335	0.3723
6	6.52	**Sulfate**	BM *	12.081	49.115	47.3467
7	7.18	**Nitrate**	MB*	0.880	5.093	1.0576
TOTAL:				19.54	127.92	67.69



Peak Integration Report

Sample Name:	**L2512368-10 MS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**11-Mar-2025 / 04:28**	*Run Time:*	**10.00**

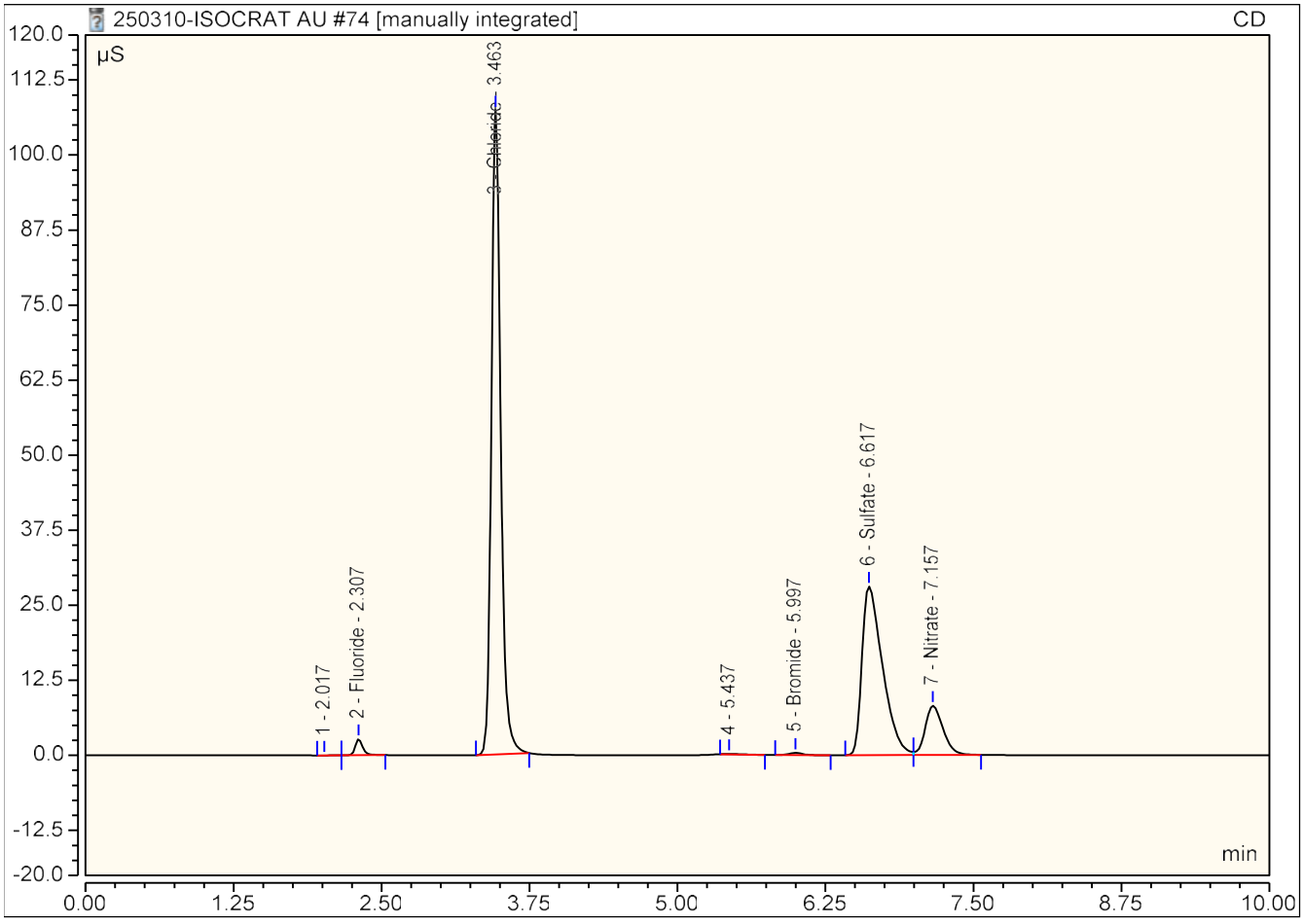
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.201	2.698	0.4110
3	3.46	**Chloride**	BMB	9.772	107.495	28.5048
5	6.00	**Bromide**	BMB	0.049	0.378	0.4216
6	6.62	**Sulfate**	BM *	5.671	28.112	22.3341
7	7.16	**Nitrate**	MB*	1.433	8.208	1.7034
TOTAL:				17.13	146.89	53.37



Peak Integration Report

Sample Name:	**L2512368-10 MSD**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**11-Mar-2025 / 04:40**	*Run Time:*	**10.00**

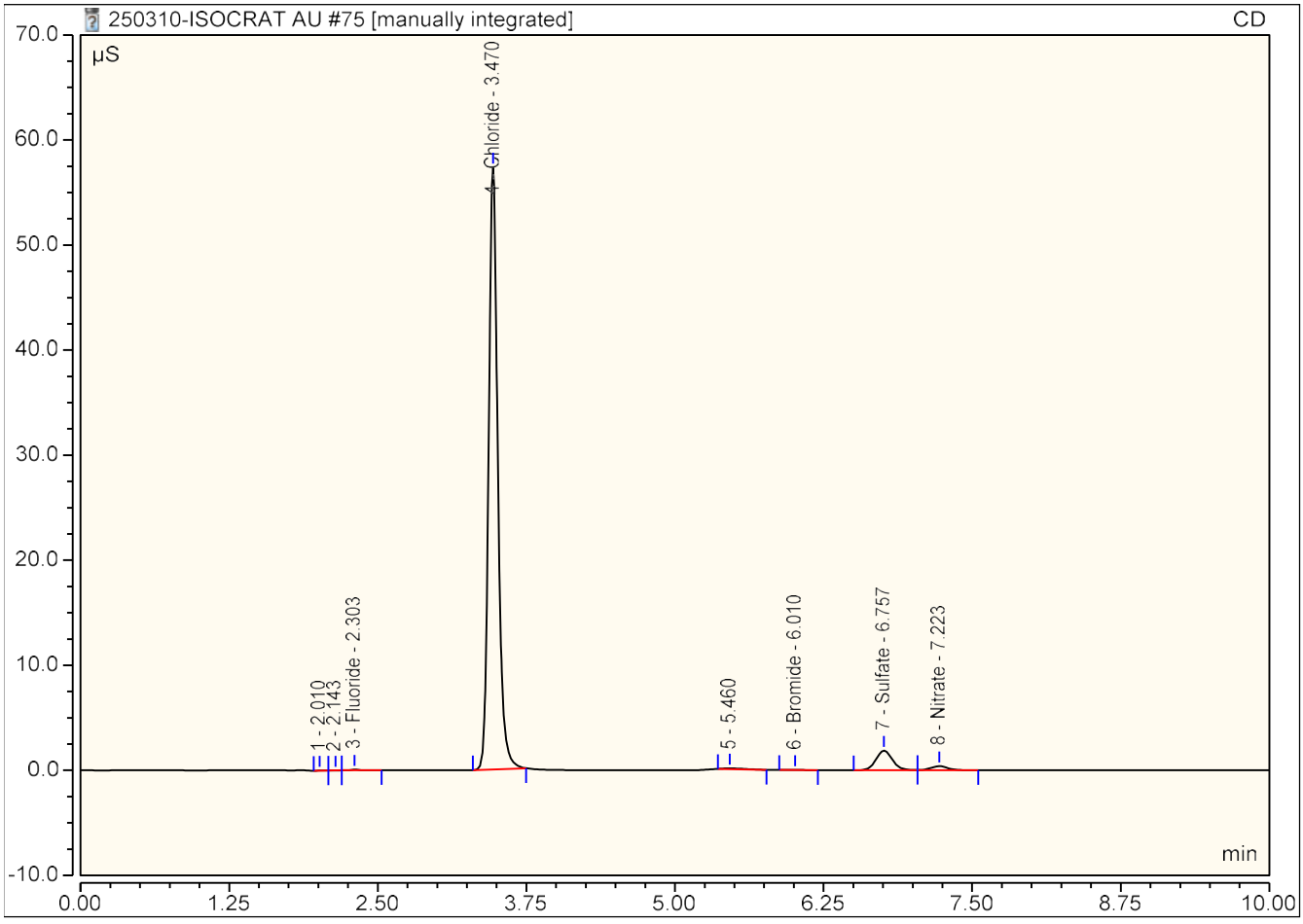
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.201	2.694	0.4101
3	3.46	**Chloride**	BMB	9.775	107.264	28.5126
5	6.00	**Bromide**	BMB	0.048	0.378	0.4212
6	6.62	**Sulfate**	BM *	5.669	28.093	22.3226
7	7.16	**Nitrate**	MB*	1.436	8.211	1.7075
TOTAL:				17.13	146.64	53.37



Peak Integration Report

Sample Name:	**L2511911-07; 10X CL**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**11-Mar-2025 / 04:52**	*Run Time:*	**10.00**

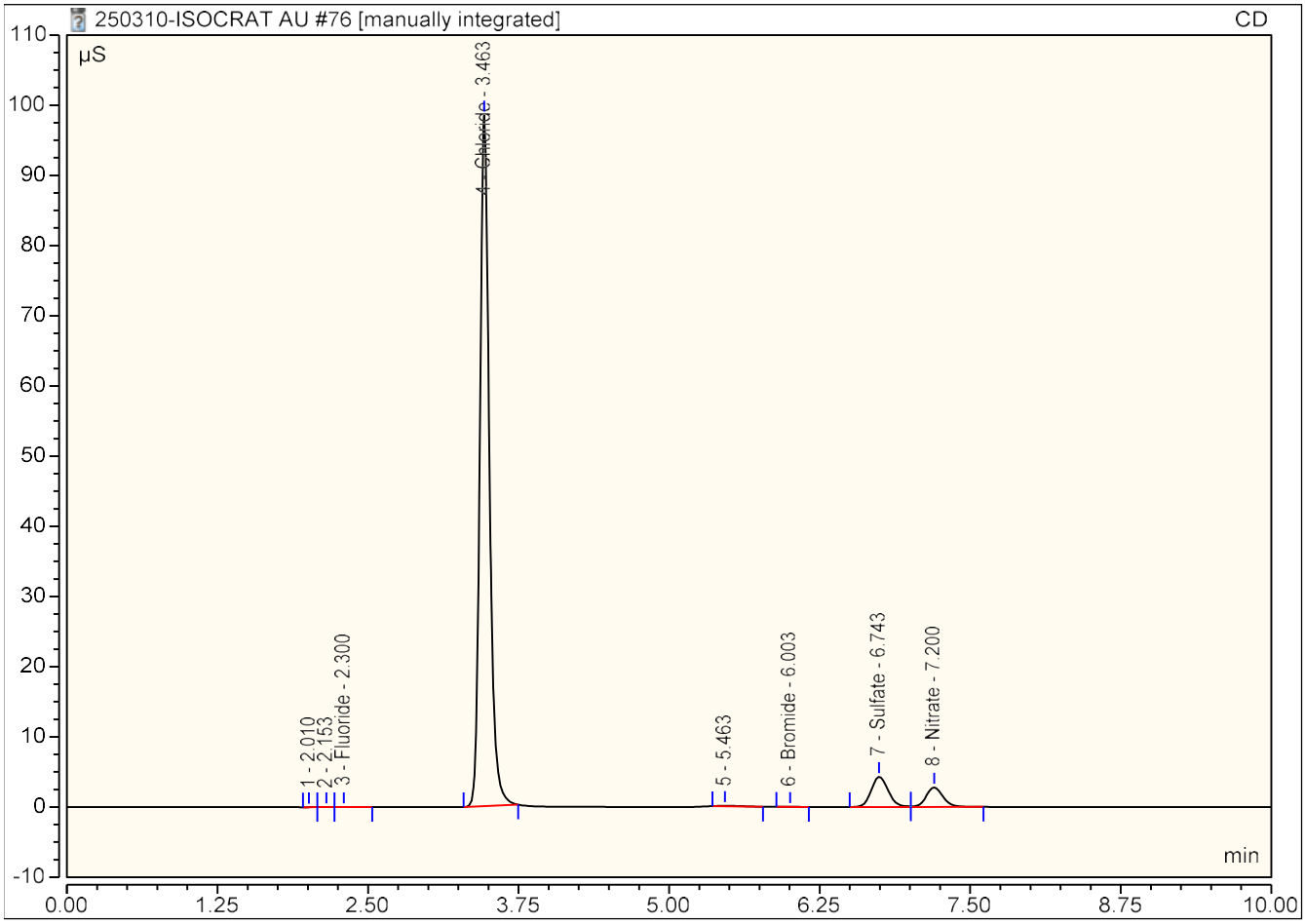
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	2.30	**Fluoride**	BMB	0.006	0.071	0.3632
4	3.47	**Chloride**	BMB	5.155	57.315	150.7808
6	6.01	**Bromide**	BMB	0.003	0.028	0.6213
7	6.76	**Sulfate**	BM *	0.303	1.871	13.8426
8	7.22	**Nitrate**	MB*	0.066	0.396	1.0708
TOTAL:				5.53	59.68	166.68



Peak Integration Report

Sample Name:	**L2511911-08; 10X CL**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**11-Mar-2025 / 05:04**	*Run Time:*	**10.00**

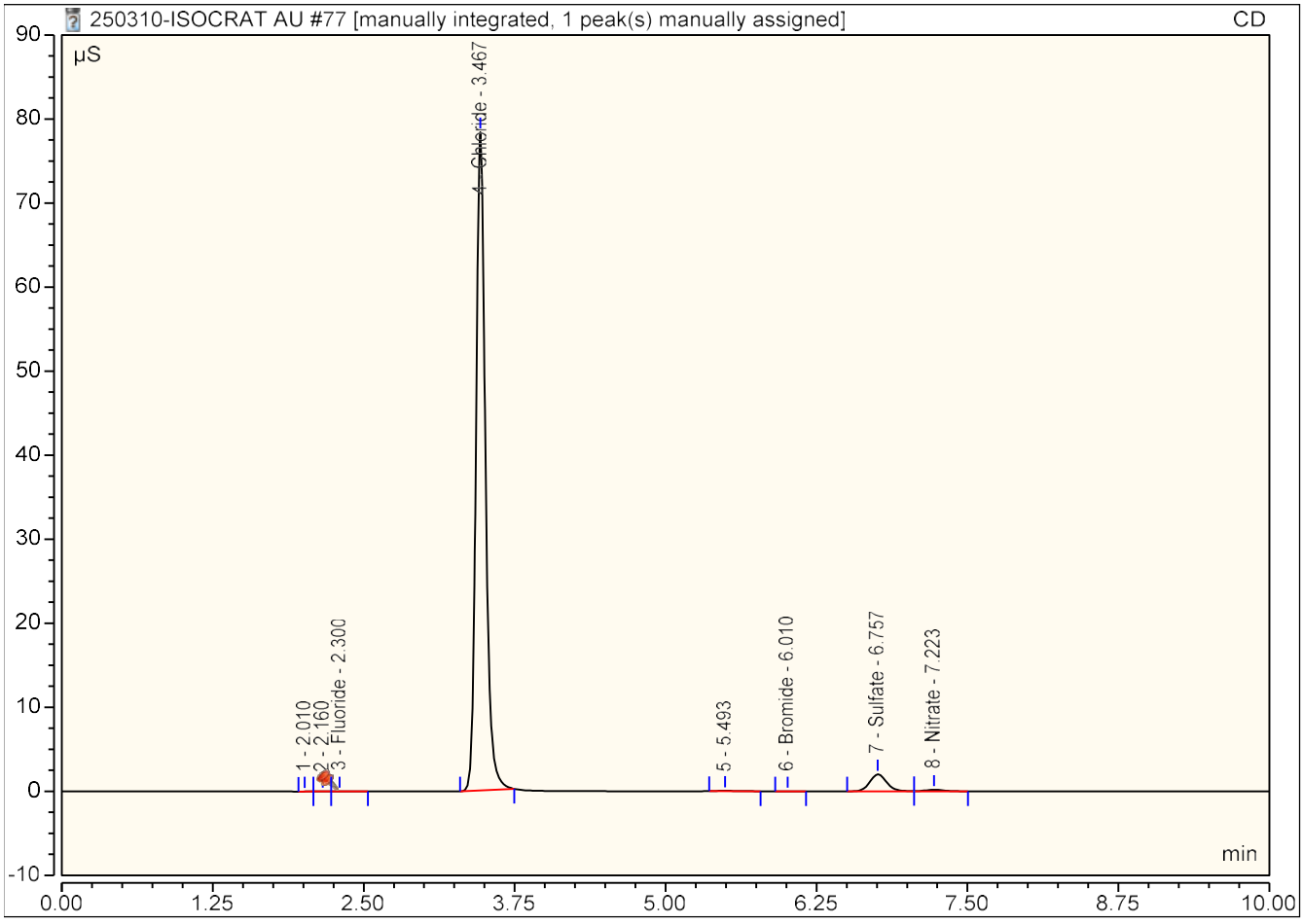
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	2.30	**Fluoride**	BMB	0.002	0.017	0.2756
4	3.46	**Chloride**	BMB	8.960	98.430	261.4338
6	6.00	**Bromide**	BMB	0.001	0.011	0.4525
7	6.74	**Sulfate**	BM *	0.704	4.291	29.4956
8	7.20	**Nitrate**	MB*	0.453	2.792	5.5874
TOTAL:				10.12	105.54	297.24



Peak Integration Report

Sample Name:	**L2512264-05; 10X CL**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**11-Mar-2025 / 05:16**	*Run Time:*	**10.00**

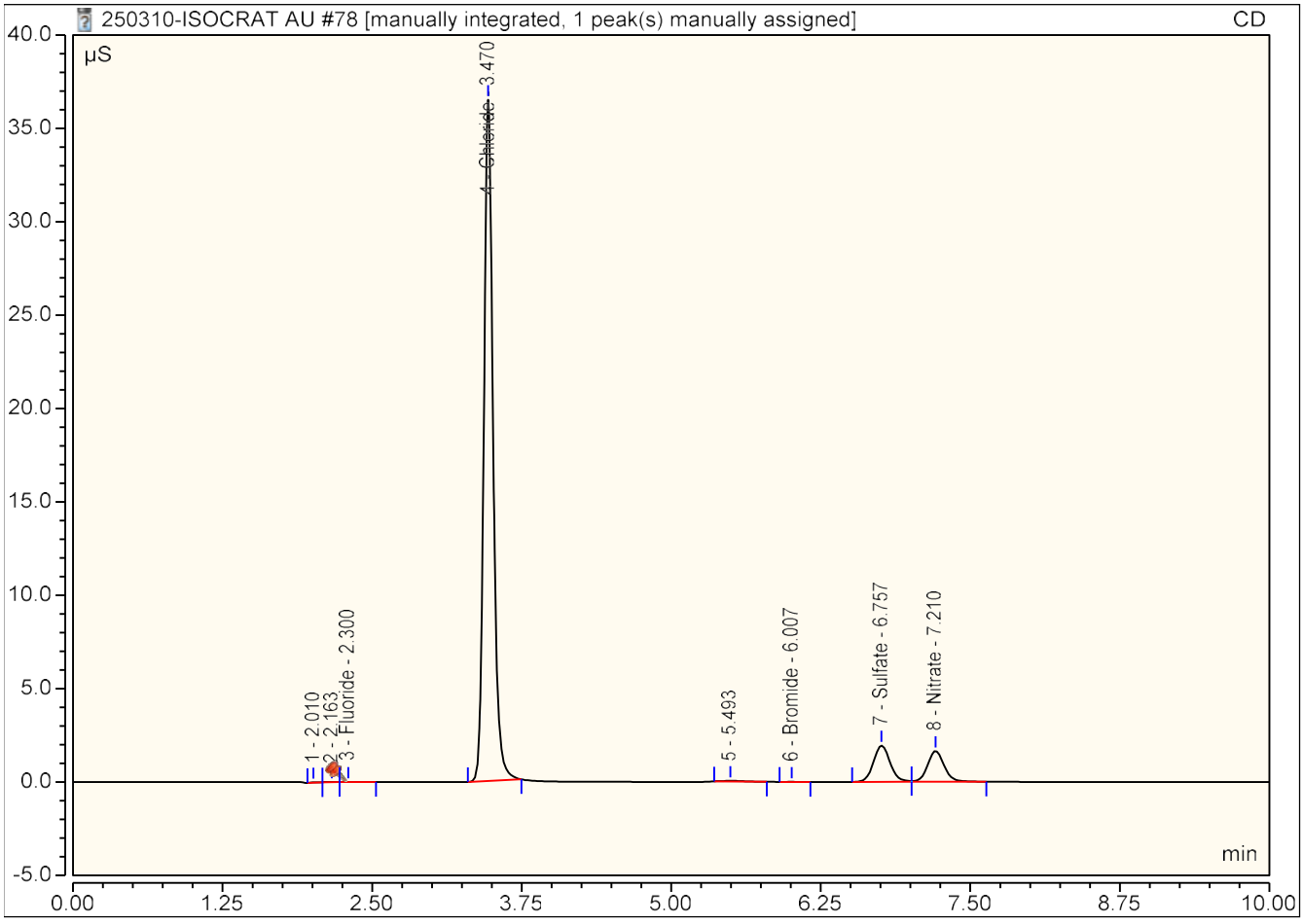
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	2.30	**Fluoride**	BMB^	0.001	0.007	0.2590
4	3.47	**Chloride**	BMB	7.093	78.311	207.1341
6	6.01	**Bromide**	BMB	0.000	0.002	0.3674
7	6.76	**Sulfate**	BM *	0.328	2.017	14.8207
8	7.22	**Nitrate**	MB*	0.033	0.189	0.6817
TOTAL:				7.45	80.53	223.26



Peak Integration Report

Sample Name:	**L2512264-06; 10X CL**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**11-Mar-2025 / 05:28**	*Run Time:*	**10.00**

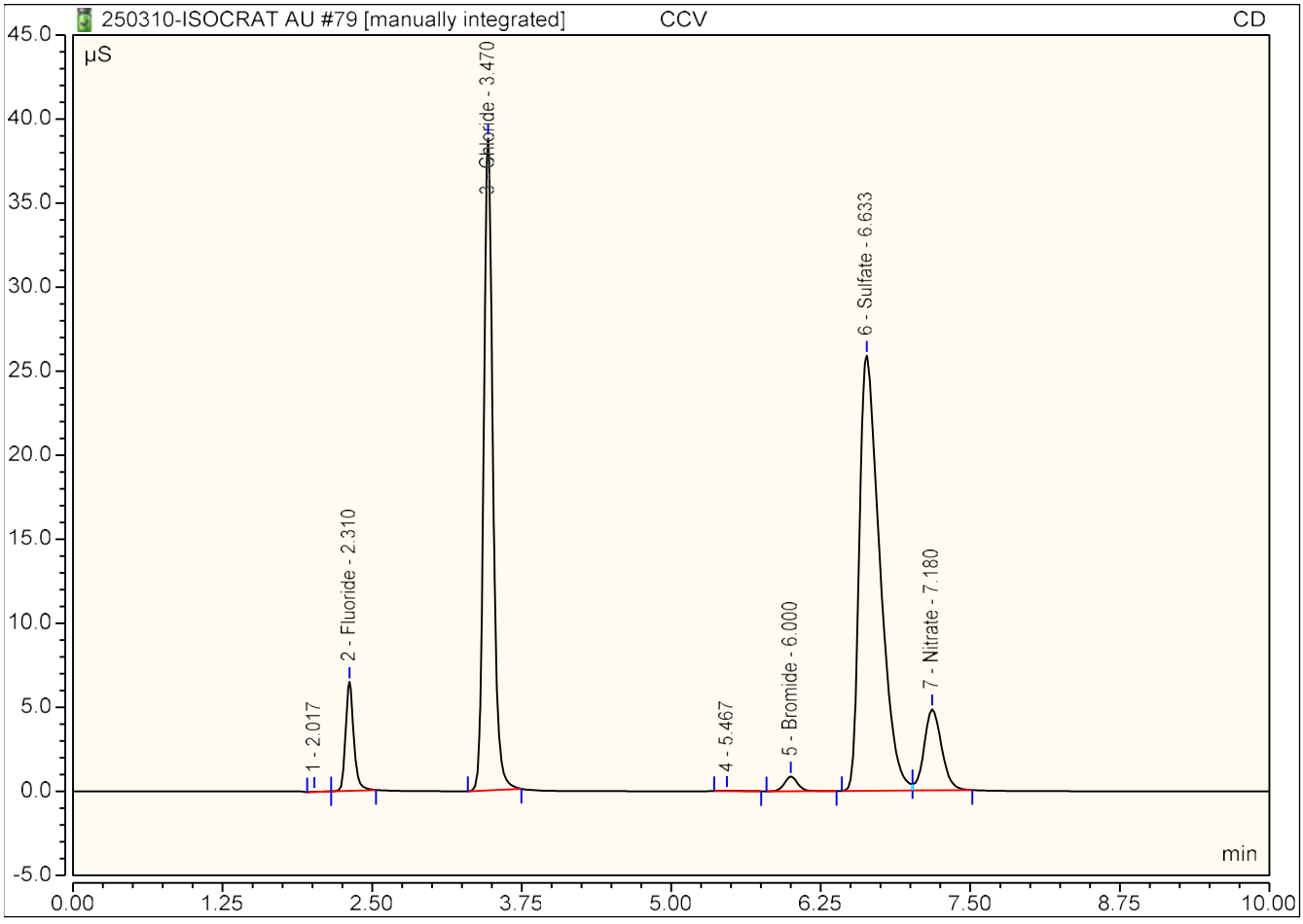
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	2.30	**Fluoride**	BMB^	0.001	0.007	0.2590
4	3.47	**Chloride**	BMB	3.247	36.469	95.2921
6	6.01	**Bromide**	BMB	0.000	0.002	0.3611
7	6.76	**Sulfate**	BM *	0.315	1.950	14.2961
8	7.21	**Nitrate**	MB*	0.265	1.647	3.3876
TOTAL:				3.83	40.07	113.60



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**11-Mar-2025 / 05:40**	*Run Time:*	**10.00**

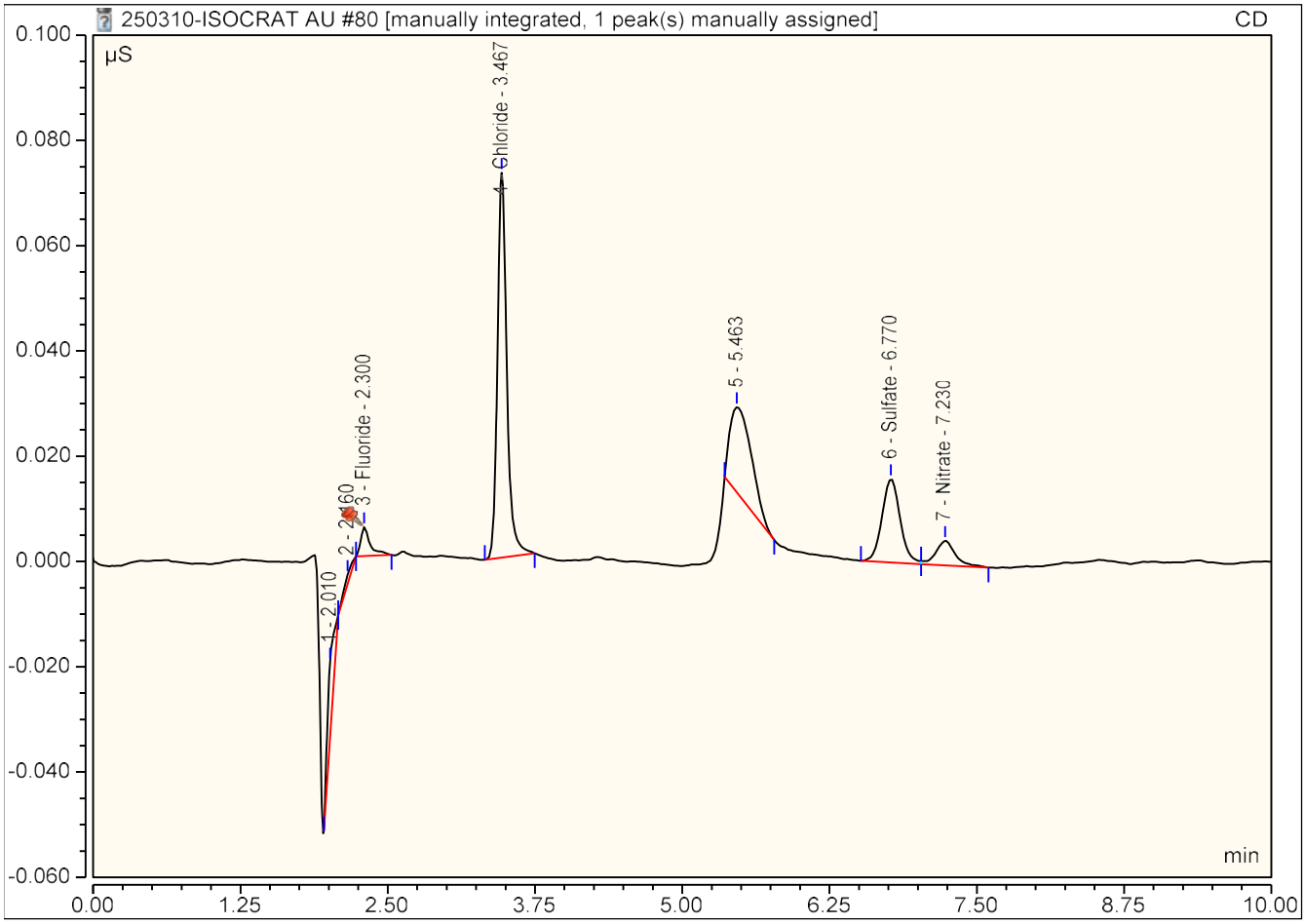
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.504	6.480	0.9922
3	3.47	**Chloride**	BMB	3.455	38.786	10.1340
5	6.00	**Bromide**	BMB	0.113	0.872	0.9389
6	6.63	**Sulfate**	BM *	5.127	25.888	20.2101
7	7.18	**Nitrate**	MB*	0.816	4.828	0.9826
TOTAL:				10.01	76.85	33.26



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**11-Mar-2025 / 05:52**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	2.30	**Fluoride**	BMB^	0.001	0.006	0.0257
4	3.47	**Chloride**	BMB	0.007	0.073	0.1084
6	6.77	**Sulfate**	BM *	0.003	0.016	0.2133
7	7.23	**Nitrate**	MB*	0.001	0.005	0.0308
TOTAL:				0.01	0.10	0.38



Anion Summary Report

No.	Name	Dilution	Amount CD Fluoride	Amount CD Chloride	Amount CD Nitrate	Amount CD Sulfate	Amount CD Bromide
1	BLANK	1.0	0.0293	0.0946	n.a.	0.2070	n.a.
2	STD 0.5	1.0	0.0395	0.2684	0.0463	0.5313	0.0514
3	STD 1.0	1.0	0.0573	0.4952	0.0651	0.9629	0.0721
4	STD 2.0	1.0	0.1825	1.9581	0.1855	3.8903	0.1900
5	STD 3.0	1.0	0.4771	4.9752	0.4697	9.9595	0.4486
6	STD 4.0	1.0	2.0262	20.0817	2.0084	40.2455	2.0130
7	STD 5.0	1.0	4.9924	49.9715	5.2029	99.9104	5.3987
8	RINSE	1.0	0.0731	0.0956	n.a.	0.2064	n.a.
9	CCV	1.0	1.0020	10.1605	0.9973	20.3383	0.9823
10	CCB	1.0	0.0260	0.1007	0.0306	0.2137	n.a.
11	ICV	1.0	0.8225	8.5868	0.8080	8.4191	0.7676
12	ICB	1.0	0.0262	0.1016	0.0306	0.2112	n.a.
13	BLK	1.0	0.0251	0.0945	n.a.	0.2058	n.a.
14	LCS	1.0	0.8170	8.5887	0.7914	8.3873	0.7598
15	BLK-2	1.0	0.0258	0.0948	n.a.	0.2077	n.a.
16	LCS-2	1.0	0.8169	8.5869	0.7895	8.3844	0.7576
17	L2511911-07 CL SO4 BR	1.0	0.1671	155.6392	1.1038	14.9309	0.3950
18	L2511911-08	1.0	0.0524	269.2638	6.3922	31.9544	0.1842
19	L2513130-01; 10X CL	10.0	0.3687	147.7753	1.4072	10.2355	n.a.
20	L2513130-02; 10X	10.0	n.a.	135.9644	0.5573	7.9633	0.3552
21	CCV	1.0	0.9881	10.1627	0.9812	20.3230	0.9476
22	CCB	1.0	0.0254	0.1027	0.0307	0.2103	n.a.
23	L2512264-01 CL SO4 BR	1.0	0.0550	29.6021	5.4421	91.1746	0.0528
24	L2512264-02	1.0	0.0972	25.5874	0.4903	31.9534	n.a.
25	L2512264-03	1.0	0.0888	6.4640	1.3078	17.9626	0.0360
26	L2512264-04	1.0	0.0865	18.7790	1.6671	16.0785	0.0451
27	L2512264-05	1.0	0.0367	212.1711	0.5493	16.4988	0.0657
28	L2512264-06	1.0	0.0365	99.0999	3.9300	15.7808	0.0566
29	L2512607-01 BR	1.0	0.0411	75.8218	9.9109	11.2326	0.0501
30	L2512607-02	1.0	0.0552	11.2464	1.4331	15.7181	0.0481
31	L2512607-03	1.0	0.0383	110.2698	3.7949	19.5081	0.0472
32	L2512607-06	1.0	n.a.	0.1046	0.0307	0.2092	n.a.
33	CCV	1.0	0.9799	10.1855	0.9920	20.2971	0.9520
34	CCB	1.0	0.0259	0.1018	0.0303	0.2114	n.a.
35	L2512607-04	1.0	0.0466	20.3421	4.8808	19.0894	0.0703
36	L2512607-05	1.0	0.0398	44.3040	4.0164	17.5048	0.0521
37	L2512325-01 BR	1.0	0.0803	23.2144	1.5007	18.9935	0.0489
38	L2512325-02	1.0	0.0568	15.0830	0.6757	40.9294	0.0659
39	L2512325-03	1.0	0.0439	3.4901	1.2462	12.9211	0.0402
40	L2512325-04	1.0	0.1171	20.2694	0.6794	31.8579	n.a.
41	L2512325-05	1.0	0.0481	30.1901	7.4230	18.5837	0.0673
42	L2512325-06	1.0	0.0631	18.3804	1.9041	18.7185	0.0496
43	L2512325-07	1.0	0.0398	13.2952	2.5570	23.7558	0.0663
44	XL2512325-07; 10X	10.0	0.2687	16.2940	2.9525	28.9567	0.3801
45	CCV	1.0	0.9800	10.1440	0.9920	20.2675	0.9482

46	CCB	1.0	0.0257	0.0990	0.0300	0.2092	n.a.
47	L2512325-08	1.0	0.0406	31.9748	4.3901	17.1141	0.0536
48	L2512325-09	1.0	0.0512	15.0919	0.6552	40.7243	0.0657
49	L2512368-01 BR	1.0	0.0765	19.6842	0.1756	18.6434	0.0728
50	L2512368-02	1.0	0.0424	28.5818	2.3804	20.3972	0.0636
51	L2512368-04	1.0	0.0876	17.0634	0.2502	20.1015	0.0704
52	L2512368-05	1.0	0.0509	29.8547	1.9007	13.7147	0.0661
53	L2512368-07	1.0	0.0989	23.5176	0.3978	37.3028	0.3073
54	L2512368-08	1.0	0.0850	21.9893	0.4058	17.1560	0.0729
55	L2512368-10	1.0	0.0384	25.5319	1.3133	14.7331	0.0983
56	XL2512368-10; 10X	10.0	0.2482	26.3838	1.3520	15.0033	0.4044
57	CCV	1.0	0.9917	10.1540	0.9864	20.2748	0.9456
58	CCB	1.0	0.0254	0.1101	0.0311	0.2134	n.a.
59	L2512368-11	1.0	0.0665	10.4134	0.5693	10.4254	0.0573
60	L2512368-13	1.0	0.0322	23.4188	5.7294	14.6040	0.0695
61	L2512368-14	1.0	0.0725	10.5797	n.a.	42.5641	0.0531
62	L2512368-16	1.0	0.0342	21.2861	4.2260	15.4382	0.0876
63	L2512368-17	1.0	0.0485	34.9995	2.6463	19.3449	0.0748
64	L2512368-19	1.0	0.0344	20.2318	4.2450	15.4191	0.0840
65	L2512264-02 MS	1.0	0.4528	28.3707	0.8612	38.3286	0.3261
66	L2512264-02 DUP	1.0	0.0976	25.4880	0.4937	31.8261	n.a.
67	L2512607-02 MS	1.0	0.3929	14.5625	1.7606	22.6242	0.3302
68	L2512607-02 DUP	1.0	0.0581	11.2425	1.4325	15.6899	0.0482
69	CCV	1.0	0.9985	10.1565	0.9874	20.2755	0.9401
70	CCB	1.0	0.0252	0.1086	0.0308	0.2126	n.a.
71	L2512325-02 MS	1.0	0.4243	18.4867	1.0695	47.3356	0.3728
72	L2512325-02 MSD	1.0	0.4252	18.4842	1.0576	47.3467	0.3723
73	L2512368-10 MS	1.0	0.4110	28.5048	1.7034	22.3341	0.4216
74	L2512368-10 MSD	1.0	0.4101	28.5126	1.7075	22.3226	0.4212
75	L2511911-07; 10X CL	10.0	0.3632	150.7808	1.0708	13.8426	0.6213
76	L2511911-08; 10X CL	10.0	0.2756	261.4338	5.5874	29.4956	0.4525
77	L2512264-05; 10X CL	10.0	0.2590	207.1341	0.6817	14.8207	0.3674
78	L2512264-06; 10X CL	10.0	0.2590	95.2921	3.3876	14.2961	0.3611
79	CCV	1.0	0.9922	10.1340	0.9826	20.2101	0.9389
80	CCB	1.0	0.0257	0.1084	0.0308	0.2133	n.a.
	Sum:	152.000	24.3872		134.8332	1510.6599	25.0864
	Average:	1.900	0.3127		1.7978	18.8832	0.3982
	Rel.Std.Dev:	143.002 %	2.0748		1.1069	0.9133	1.8616

Inject Time	Comment
06/Mar/2025 18:55	AU
06/Mar/2025 19:07	LOT#250306-0.5
06/Mar/2025 19:19	LOT#250306-1.0
06/Mar/2025 19:31	LOT#250306-2.0
06/Mar/2025 19:43	LOT#250306-3.0
06/Mar/2025 19:55	LOT#250306-4.0
06/Mar/2025 20:08	LOT#250306-5.0
10/Mar/2025 15:22	VG2038790-91-92-93
10/Mar/2025 15:34	LOT#250306-C
10/Mar/2025 15:46	AU
10/Mar/2025 15:58	LOT#250306-I
10/Mar/2025 16:10	AU
10/Mar/2025 16:22	AU
10/Mar/2025 16:34	LOT#250306-I
10/Mar/2025 16:46	AU
10/Mar/2025 16:59	LOT#250306-I
10/Mar/2025 17:11	AU
10/Mar/2025 17:23	AU
10/Mar/2025 17:35	AU
10/Mar/2025 17:47	AU
10/Mar/2025 17:59	LOT#250306-C
10/Mar/2025 18:11	AU
10/Mar/2025 18:23	AU
10/Mar/2025 18:35	AU
10/Mar/2025 18:47	AU
10/Mar/2025 19:00	AU
10/Mar/2025 19:12	AU
10/Mar/2025 19:24	AU
10/Mar/2025 19:36	AU
10/Mar/2025 19:48	AU
10/Mar/2025 20:00	AU
10/Mar/2025 20:12	AU
10/Mar/2025 20:24	LOT#250306-C
10/Mar/2025 20:36	AU
10/Mar/2025 20:48	AU
10/Mar/2025 21:00	AU
10/Mar/2025 21:13	AU
10/Mar/2025 21:25	AU
10/Mar/2025 21:37	AU
10/Mar/2025 21:49	AU
10/Mar/2025 22:01	AU
10/Mar/2025 22:13	AU
10/Mar/2025 22:25	AU
10/Mar/2025 22:37	AU
10/Mar/2025 22:49	LOT#250306-C

10/Mar/2025 23:01	AU
10/Mar/2025 23:13	AU
10/Mar/2025 23:26	AU
10/Mar/2025 23:38	AU
10/Mar/2025 23:50	AU
11/Mar/2025 00:02	AU
11/Mar/2025 00:14	AU
11/Mar/2025 00:26	AU
11/Mar/2025 00:38	AU
11/Mar/2025 00:50	AU
11/Mar/2025 01:02	AU
11/Mar/2025 01:14	LOT#250306-C
11/Mar/2025 01:26	AU
11/Mar/2025 01:38	AU
11/Mar/2025 01:50	AU
11/Mar/2025 02:03	AU
11/Mar/2025 02:15	AU
11/Mar/2025 02:27	AU
11/Mar/2025 02:39	AU
11/Mar/2025 02:51	AU
11/Mar/2025 03:03	AU
11/Mar/2025 03:15	AU
11/Mar/2025 03:27	AU
11/Mar/2025 03:39	LOT#250306-C
11/Mar/2025 03:51	AU
11/Mar/2025 04:03	AU
11/Mar/2025 04:15	AU
11/Mar/2025 04:28	AU
11/Mar/2025 04:40	AU
11/Mar/2025 04:52	AU
11/Mar/2025 05:04	AU
11/Mar/2025 05:16	AU
11/Mar/2025 05:28	AU
11/Mar/2025 05:40	LOT#250306-C
11/Mar/2025 05:52	AU
	0.000
	#DIV/0!
	#DIV/0!

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-4D2	**Matrix**	: WATER
Lab Sample ID	: L2512607-02		
Matrix Spike	: WG2038793-3	**MS Analysis Date**	: 03/11/25 03:15
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample				Matrix Spike Duplicate					
Parameter	**Sample Conc. (mg/l)**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**		**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Bromide	0.048J	0.4	0.330	82	Q					90-110	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-4D2	**Matrix**	: WATER
Lab Sample ID	: L2512607-02	**Analysis Date**	: 03/10/25 19:48
Dup Sample ID	: WG2038793-4	**DUP Analysis Date**	: 03/11/25 03:27

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Bromide	0.048J	0.048J	NC	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2512607
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG2038793-2	**LCS Analysis Date**	: 03/10/25 16:59
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/l)	(mg/l)		(mg/l)	(mg/l)			Limits	Limit
Bromide	0.800	0.758	95.					90-110	20

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Bromide	24959-67-9	0.05	0.0132	mg/l	90-110		90-110	20	20	300.0	28 days	1 - Plastic 250ml unpreserved
Chloride	16887-00-6	0.5	0.0839	mg/l	90-110		64-148	18	18	9056	28 days	1 - Plastic 250ml unpreserved
Chloride	16887-00-6	0.5	0.0839	mg/l	90-110		90-110	18	18	300.0	28 days	1 - Plastic 250ml unpreserved
Fluoride	16984-48-8	0.05	0.037	mg/l	90-110		81-124	15	15	9056	28 days	1 - Plastic 500ml unpreserved
Fluoride	16984-48-8	0.05	0.037	mg/l	90-110		90-110	15	15	300.0	28 days	1 - Plastic 500ml unpreserved
Nitrogen, Nitrate	14797-55-8	0.05	0.0128	mg/l	90-110		90-110	15	15	300.0	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrate	14797-55-8	0.05	0.0128	mg/l	90-110		80-120	15	15	9056	48 hours	1 - Plastic 250ml unpreserved
Sulfate	14808-79-8	1	0.454	mg/l	90-110		72-124	20	20	9056	28 days	1 - Plastic 500ml unpreserved
Sulfate	14808-79-8	1	0.454	mg/l	90-110		90-110	20	20	300.0	28 days	1 - Plastic 500ml unpreserved

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

Calculations of Anions by Ion Chromatography

Aqueous samples:

The Dionex calculates the area of the peaks produced by the instrument, compares them to the peak area of the calibration standard stored in its memory, and calculates result in mg/L.

If the sample was manually diluted prior to analysis, the calculated mean must be manually multiplied by the dilution factor. The Reported Detection Limit is also multiplied by the same dilution factor.

$$\text{Result, mg/L} = \frac{\text{area - y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$

Subcontracted Data

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

March 14, 2025

Jennifer Byrnes

,

RE: Project: L2512607
Pace Project No.: 70341590

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on March 06, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brianna D. Rivera
brianna.rivera@pacelabs.com
516-370-6007
Project Manager

Enclosures

cc: Reports, Alpha Analytical

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

CERTIFICATIONS

Project: L2512607
Pace Project No.: 70341590

Pace Analytical Services, LLC - Melville, NY

575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Texas Certification #: T104704582
Florida Certification #: E871198

REPORT OF LABORATORY ANALYSIS

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575 Broad Hollow Road
Melville, NY 11747
516-370-6000

SAMPLE SUMMARY

Project: L2512607
Pace Project No.: 70341590

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70341590001	**MW-4S**	Water	03/06/25 10:30	03/06/25 15:35
70341590002	**MW-4D2**	Water	03/06/25 10:24	03/06/25 15:35
70341590003	**MW-12S**	Water	03/06/25 09:13	03/06/25 15:35
70341590004	**MW-12D**	Water	03/06/25 08:46	03/06/25 15:35
70341590005	**SCDOHDR**	Water	03/06/25 11:51	03/06/25 15:35
70341590006	**EQUIPMENT BLANK**	Water	03/06/25 12:00	03/06/25 15:35

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SAMPLE ANALYTE COUNT

Project: L2512607
Pace Project No.: 70341590

Lab ID	Sample ID	Method	Analysts	Analytes Reported
70341590001	**MW-4S**	SM22 4500-S2 F	JWM	1
70341590002	**MW-4D2**	SM22 4500-S2 F	JWM	1
70341590003	**MW-12S**	SM22 4500-S2 F	JWM	1
70341590004	**MW-12D**	SM22 4500-S2 F	JWM	1
70341590005	**SCDOHDR**	SM22 4500-S2 F	JWM	1
70341590006	**EQUIPMENT BLANK**	SM22 4500-S2 F	JWM	1

PACE-MV = Pace Analytical Services - Melville

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PROJECT NARRATIVE

Project: L2512607
Pace Project No.: 70341590

Method: **SM22 4500-S2 F**
Description: 4500S2F W Sulfide Iodometric
Client: Alpha Analytical
Date: March 14, 2025

General Information:
6 samples were analyzed for SM22 4500-S2 F by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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Melville, NY 11747
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ANALYTICAL RESULTS

Project: L2512607
Pace Project No.: 70341590

Sample: MW-4S **Lab ID: 70341590001** Collected: 03/06/25 10:30 Received: 03/06/25 15:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		03/13/25 16:54		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: L2512607
Pace Project No.: 70341590

Sample: MW-4D2 **Lab ID: 70341590002** Collected: 03/06/25 10:24 Received: 03/06/25 15:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		03/13/25 16:57		

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ANALYTICAL RESULTS

Project: L2512607
Pace Project No.: 70341590

Sample: MW-12S **Lab ID: 70341590003** Collected: 03/06/25 09:13 Received: 03/06/25 15:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		03/13/25 17:00		

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ANALYTICAL RESULTS

Project: L2512607
Pace Project No.: 70341590

Sample: MW-12D **Lab ID: 70341590004** Collected: 03/06/25 08:46 Received: 03/06/25 15:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		03/13/25 17:03		

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Melville, NY 11747
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ANALYTICAL RESULTS

Project: L2512607
Pace Project No.: 70341590

Sample: SCDOHDR **Lab ID: 70341590005** Collected: 03/06/25 11:51 Received: 03/06/25 15:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		03/13/25 17:06		

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ANALYTICAL RESULTS

Project: L2512607
Pace Project No.: 70341590

Sample: EQUIPMENT BLANK **Lab ID: 70341590006** Collected: 03/06/25 12:00 Received: 03/06/25 15:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		03/13/25 17:09		

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516-370-6000

QUALITY CONTROL DATA

Project: L2512607
Pace Project No.: 70341590

QC Batch: 389069 | Analysis Method: SM22 4500-S2 F
QC Batch Method: SM22 4500-S2 F | Analysis Description: 4500S2F W Sulfide Iodometric
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70341590001, 70341590002, 70341590003, 70341590004, 70341590005, 70341590006

METHOD BLANK: 2044807 Matrix: Water
Associated Lab Samples: 70341590001, 70341590002, 70341590003, 70341590004, 70341590005, 70341590006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	<0.20	2.0	0.20	03/13/25 16:49	

LABORATORY CONTROL SAMPLE & LCSD: 2044808 2044809

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Sulfide	mg/L	14	14.0	14.0	100	100	85-115	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALIFIERS

Project: L2512607
Pace Project No.: 70341590

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2512607
Pace Project No.: 70341590

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70341590001	**MW-4S**	SM22 4500-S2 F	389069		
70341590002	**MW-4D2**	SM22 4500-S2 F	389069		
70341590003	**MW-12S**	SM22 4500-S2 F	389069		
70341590004	**MW-12D**	SM22 4500-S2 F	389069		
70341590005	**SCDOHDR**	SM22 4500-S2 F	389069		
70341590006	**EQUIPMENT BLANK**	SM22 4500-S2 F	389069		

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NEW YORK CHAIN OF CUSTODY

WO# : 70341590

70341590

ALPHA ANALYTICAL

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

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

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

Page 3 of 3

Date in

Client Information

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

Project Information

Project Name: CORAM MATERIALS
Project Location:
Project #: 2232.0006Y005
(Use Project name as Project #) ☐
Project Manager: Ashley Iervolino
ALPHAQuote #: 30343

Turn-Around Time

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

Deliverables

☐ ASP-A
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

PO #

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Sub SULFIDE courier to PACE MELVILLE

Please specify Metals or TAL.

ANALYSIS

SUB-SULFIDE

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Sample Specific Comments

Total Bottles

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	SUB-SULFIDE	Total Bottles
	MW-4S	3/5/25	1030	AQ	AI	X	15
	MW-4D2	"	1024	"	AI	X	15
	MW-12S	"	913	"	"	X	15
	MW-12D	"	846	"	"	X	15
	SCDOH DR.	"	1151	"	"	X	15
	Equipment blank	"	1200	"	"	X	15
	Trip blank	—	—	"	—		2

Container Type: P
Preservative: C

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	3/6/25 1350	[signature]	3/6/25 1350
[signature]	3/6/25 1535	[signature] PACE	3/6/25 1535

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

Form No: 01-25 (rev. 30-Sept-2013)

Client: ALPHA Profile #: 10678

Work ID: CORAM MATERIALS 3/6 COC Page ____ of ____

☐ Use Point Number Spreadsheet ☐ Multiday Project

☐ Add SCLOGFD to first sample for field charge

WO#: 70341590
PM: BDR Due Date: 03/18/25
CLIENT: ALPHA

COC Line Item	Matrix	VG9U	VG9C	VG9H	VG9S	VG9T	DG9Y	DG9P	DG9A	DG6T	DG9S	AG4U	AG3U	AG2U	AG1U	AG34	AG3S	AG4E	AG3T	AG2R	AG1T	AG1H	AG1A	AG5U	AG44	CG1U	WG9O	WG4O	BP4U	BP3U	BP2U	BP1U	BP3S	BP2S	BP4N	BP3N	BP2N	BP3C	BP3T	BP3S	BP3R	BP1Z	BP1N	BP1B	SP5T	R	WG2U	WGFU	WGKU	WGDU	ZPLC	GN	WP	TEDL	BGIH	LLHG	BG1N	IOC	SOC
1																																																															
2																																																																					
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12																																																																					

Container Codes

Glass				Plastic	
VG9U	40mL unpres clear vial	AG4U	125mL unpres amber glass	BP4U	125mL unpreserved plastic
VG9C	40mL Ascorbic-HCl clear vial	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2U	500mL unpreserved plastic
VG9S	40mL Sulfuirc clear vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic
VG9T	40mL Na Thiosulfate vial	AG34	Ammonium Cl 250mL bottle	BP4N	125mL HNO3 plastic
DG9Y	40mL Citrate-Na Thiosulfate	AG3S	250mL H2SO4 amber glass	BP3N	250mL HNO3 plastic
DG9P	40mL amber vial - TSP	AG4E	125mL EDA amber glass	BP2N	500mL HNO3 plastic
DG9A	Ascorbic/Maleic Acid 40mL	AG3T	250mL Na Thio amber glass	BP3S	250mL H2SO4 plastic
DG6T	Na Thio 60mL Vial	AG2R	Na Sulfite 500mL (blue Cap)	BP2S	500mL H2SO4 plastic
DG9S	Ammonium Cl/CuSO4 40mL	AG1T	Na Thiosulfate 1L bottle	BP3C	NaOH 250mL bottle
CG1U	1L Unpres Jar (Con Ed)	AG1H	1L HCl amber glass	BP3T	250mL Trizma
WG9O	8oz clear soil jar	AG1A	1L Ammonium Chloride	BP3S	250mL Ammonium Acetate
WG4O	4oz clear soil jar	AG5U	100mL unpres Amber Glass	BP3R	250mL NH4SO4-NH4OH
		AG44	Ammonium Cl 120mL bottle	BP1Z	1L NaOH, Zn Acetate
				BP1N	1L HNO3 plastic
				BP1B	Na Thiosulfate Amber Bottle

Misc.	
SP5T	120mL Coliform Na Thio
R	Terracore Kit
WG2U	2oz Unpreserved Jar
WGFU	4oz Unpreserved Jar
WGKU	8oz Unpreserved Jar
WGDU	16oz Unpreserved Jar
ZPLC	Ziplock Bag
TEDL	Tedlar Bag
BG1H	1L HCL Clear Glass
GN	General
WP	Wipe
LLHG	Low Level Hg Bottles
BG1N	1L HNO3 Clear Glass

IOC	
BP1U	1L unpreserved plastic
BP3N*	250mL HNO3 plastic
BP3C	250mL Sodium Hydroxide
AG2U	500mL unpres amber glass
BP3U	250mL unpreserved plastic

* Can also be a BP4N

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

SOC	
VG9T	40mL Na Thio amber vial
DG9A	40mL Ascorbic acid/ maleic Acid vials
DG9Y	Citrate/Na Thiosulfate 40mL
DG6T	Na Thiosulfate 60mL vial
DG6M	MonoClActetic/Na Thio 60mL
AG3U	250mL unpres amber glass
AG3T	Na Thiosulfate 250mL bottle
BP1B	Na Thiosulfate Amber bottle
AG1T	Na Thiosulfate 1L Amber
AG1A	525.3 Chemical Blend

Sender Initials: ____

Additional Comments

no trip blank sample

DC# Title: ENV-FRM-MELV-0024 v07_SCUR
Effective Date: 4/12/2024

WO#: 70341590
PM: BDR **Due Date: 03/18/25**
CLIENT: ALPHA

Client Name: ALPHA Project #

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐Yes ☑No Seals Intact: ☐Yes ☐No Temperature Blank Present: ☑Yes ☐No
Packing Material: ☐Bubble Wrap ☐ Bubble Bags ☐ Ziplock ☑ None ☐ Other Type of Ice: (Wet) Blue None

Thermometer Used: TH211 Correction Factor: +.2 Samples on ice, cooling process has begun
Cooler Temperature(°C): 3.2 Cooler Temperature Corrected(°C): 3.4 Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6°C

USDA Regulated Soil (☑ N/A, water sample)
Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check map)? ☐Yes ☐No

Did samples originate from a foreign source (including Hawaii and Puerto Rico)? ☐Yes ☐No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents: AD 8/6/25

				COMMENTS
Chain of Custody Present	☑Yes	☐No		1
Chain of Custody Filled Out	☑Yes	☐No		2
Chain of Custody Relinquished	☑Yes	☐No		3
Sampler Name & Signature on COC	☑Yes	☐No	☐N/A	4
Samples Arrived within Hold Time	☑Yes	☐No		5
Short Hold Time Analysis (<72hr)	☐Yes	☑No		6
Rush Turn Around Time Requested:	☐Yes	☑No		7
Sufficient Volume (Triple volume provided for MS/MSD)	☑Yes	☐No		8
Correct Containers Used	☑Yes	☐No		9
Pace Containers Used	☑Yes	☐No		
Containers Intact	☑Yes	☐No		10
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11 Note if sediment is visible in the dissolved container
Sample Labels match COC (includes date/time/ID/Analysis Matrix: S WP OIL OTHER)	☑Yes	☐No		12

Date and Initials of person checking preservation: AD 8/6/25

All containers needing preservation have been checked. pH paper Lot # 231224	☑Yes	☐No	☐N/A	13 ☐HNO3 ☐H2SO4 ☐NaOH ☐HCl Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO3, H2SO4, HCl, NaOH>9 Sulfide, NaOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water), Per Method, VOA pH is checked after analysis	☑Yes	☐No	☐N/A	Initial when completed / Lot # of added preservative / Date/Time preservative added
Samples checked for dechlorination: KI starch test strips Lot # Residual chlorine strips Lot #	☐Yes	☐No	☑N/A	14 Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sulfide? Lead Acetate Strips Lot #	☐Yes	☐No	☑N/A	15 Positive for Sulfide? Y N
Headspace in ALK Bottle (>6mm)	☐Yes	☐No	☑N/A	
Headspace in VOA Vials (>6mm)	☐Yes	☐No	☑N/A	16
Trip Blank Present	☐Yes	☐No	☑N/A	17
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	

Client Notification/ Resolution: Field Data Required? Y / N
Person Contacted: Date/Time:
Comments/ Resolution

PM (Project Manager) review (which includes the SCUR) is documented electronically in LIMS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

March 20, 2025

Jennifer Byrnes
Pace MA
Eight Walkup Drive
Westborough, MA 01581

RE: Project: L2512607
Pace Project No.: 50395811

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on March 11, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Sayer

Tina Sayer
tina.sayer@pacelabs.com
(317)228-3127
Project Manager

Enclosures

cc: Pace MA, Pace MA

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: L2512607
Pace Project No.: 50395811

Pace Analytical Services Indianapolis
7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Louisiana Certification #: 04076
Michigan Drinking Water Laboratory #9050
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: L2512607
Pace Project No.: 50395811

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50395811001	MW-4S	Water	03/06/25 10:30	03/11/25 08:40
50395811002	MW-4D2	Water	03/06/25 10:24	03/11/25 08:40
50395811003	MW-12S	Water	03/06/25 09:13	03/11/25 08:40
50395811004	MW-12D	Water	03/06/25 08:46	03/11/25 08:40
50395811005	SCDOH_DR	Water	03/06/25 11:51	03/11/25 08:40
50395811006	EQUIPMENT BLANK	Water	03/06/25 12:00	03/11/25 08:40

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SAMPLE ANALYTE COUNT

Project: L2512607
Pace Project No.: 50395811

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50395811001	MW-4S	EPA 9056	GLT	1
50395811002	MW-4D2	EPA 9056	GLT	1
50395811003	MW-12S	EPA 9056	GLT	1
50395811004	MW-12D	EPA 9056	GLT	1
50395811005	SCDOH_DR	EPA 9056	GLT	1
50395811006	EQUIPMENT BLANK	EPA 9056	GLT	1

PASI-I = Pace Analytical Services - Indianapolis

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ANALYTICAL RESULTS

Project: L2512607
Pace Project No.: 50395811

Sample: MW-4S Lab ID: 50395811001 Collected: 03/06/25 10:30 Received: 03/11/25 08:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		03/15/25 02:13		

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ANALYTICAL RESULTS

Project: L2512607
Pace Project No.: 50395811

Sample: MW-4D2 Lab ID: 50395811002 Collected: 03/06/25 10:24 Received: 03/11/25 08:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		03/15/25 02:32		

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(317)228-3100

ANALYTICAL RESULTS

Project: L2512607
Pace Project No.: 50395811

Sample: MW-12S Lab ID: 50395811003 Collected: 03/06/25 09:13 Received: 03/11/25 08:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		03/15/25 02:50		

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ANALYTICAL RESULTS

Project: L2512607
Pace Project No.: 50395811

Sample: MW-12D Lab ID: 50395811004 Collected: 03/06/25 08:46 Received: 03/11/25 08:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		03/15/25 03:45		

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ANALYTICAL RESULTS

Project: L2512607
Pace Project No.: 50395811

Sample: SCDOH_DR Lab ID: 50395811005 Collected: 03/06/25 11:51 Received: 03/11/25 08:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		03/15/25 04:03		

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ANALYTICAL RESULTS

Project: L2512607
Pace Project No.: 50395811

Sample: EQUIPMENT BLANK Lab ID: 50395811006 Collected: 03/06/25 12:00 Received: 03/11/25 08:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		03/15/25 04:22		

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Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: L2512607
Pace Project No.: 50395811

QC Batch: 833942
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 Iodide by IC
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50395811001, 50395811002, 50395811003, 50395811004, 50395811005, 50395811006

METHOD BLANK: 3815714 Matrix: Water
Associated Lab Samples: 50395811001, 50395811002, 50395811003, 50395811004, 50395811005, 50395811006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iodide	mg/L	ND	0.50	0.15	03/14/25 20:26	

LABORATORY CONTROL SAMPLE: 3815715

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iodide	mg/L	5	5.6	111	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3815716 3815717

Parameter	Units	50395809007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iodide	mg/L	ND	5	5	4.7	4.7	94	94	80-120	0	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Indianapolis, IN 46268
(317)228-3100

QUALIFIERS

Project: L2512607
Pace Project No.: 50395811

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2512607
Pace Project No.: 50395811

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50395811001	MW-4S	EPA 9056	833942		
50395811002	MW-4D2	EPA 9056	833942		
50395811003	MW-12S	EPA 9056	833942		
50395811004	MW-12D	EPA 9056	833942		
50395811005	SCDOH_DR	EPA 9056	833942		
50395811006	EQUIPMENT BLANK	EPA 9056	833942		

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WO# : 50395811

50395811

Subcontract Chain of Custody

Pace Analytical (Indianapolis, IN)
7726 Moller Road
Indianapolis, IN 46268

Pace Job Number
L2512607

Page 1

Client Information

Client: Pace Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Report To:west.subreports@pacelabs.com
Bill To:invoices@pacelabs.coupahost.com

Phone: 716.427.5228
Email: Jennifer.Byrnes@pacelabs.com

Project Information

Project Location: NY
Project Manager: Jennifer Byrnes

Turnaround & Deliverables Information

Due Date:
Deliverables: ASP Category B Deliverables

Regulatory Requirements/Report Limits

State/Federal Program:
Regulatory Criteria:

Report to MDL

Project Specific Requirements and/or Report Requirements

Reference following Pace Job Number on final report/deliverables: L2512607 Report to include Method and/or Regulatory required batch QC

Additional Comments: Profile # 11706: needs L4 and EDD 265 NY EQUIS on Iodide sub chain"

Lab ID	Pace ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Sample Level Comments	Sample Specific QC	Container Count
001	L2512607-01	MW-4S	03-06-25 10:30	WATER	Iodide			1
002	L2512607-02	MW-4D2	03-06-25 10:24	WATER	Iodide			1
003	L2512607-03	MW-12S	03-06-25 09:13	WATER	Iodide			1
004	L2512607-04	MW-12D	03-06-25 08:46	WATER	Iodide			1
005	L2512607-05	SCDOH_DR	03-06-25 11:51	WATER	Iodide			1
006	L2512607-06	EQUIPMENT BLANK	03-06-25 12:00	Equipment Blank	Iodide			1

	Relinquished By:	Date/Time:	Received By:	Date/Time:
	[signature] Walker	311025	Fedex	~~3-11-25~~ TRM
	Fedex	3-11-25 840	[signature]	3-11-25 840
Form No: AL_subcoc				

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: TRH 3-11-25 1156

1. Thermometer: 1 2 3 4 5 6 7 8 9 A B C D E F G H I

2. Cooler Temperature(s): 0.9 | 0.8 | | | |
(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

3. Courier: Fed Ex UPS Client Pace Now/Jett Other
Circle One

4. Custody Seal on Cooler/Box Present: ☑ Yes ☐ No

(If yes)Seals Intact: ☐ Yes ☐ No (leave blank if no seals were present)

5. Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other _____

6. Ice Type: ☑ Wet ☐ Blue ☐ None

7. Was the PM notified of out of temp cooler? ☐ Yes ☐ No
Cooler temp should be above freezing to 6°C
If the PM was contacted in the comments below please write how they instructed the project to proceed

All discrepancies will be written out in the comments section below.

	Yes	No
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓
Short Hold Time Analysis (48 hours or less)? Analysis:		✓
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:	
Rush TAT Requested (4 days or less):		✓
Custody Signatures Present?	✓	
Containers Intact?:	✓	
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓	
Extra labels on Terracore Vials? (soils only)		

	Yes	No	N/A
All containers needing acid/base preservation have been pH CHECKED?: **Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.** **Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9)** Any non-conformance to pH recommendations will be noted on the container count form			✓
Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A ✓
Residual Chlorine Check (Total/Amenable/Free Cyanide)			✓
Headspace in **VOA Vials** (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent ✓
Trip Blank Present?		✓	
Trip Blank Custody Seals?:			✓
Out Of Temp Instructions if applicable:			

COMMENTS:

COC PAGE ____ of ____

Sample Container Count

** Place a PINK dot on containers that are out of conformance **

Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ ZnAc
Red	Yellow	Green	Black
HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9

COC Line Item	WGFU	WGKU BG1U	MeOH (only) SBS DI R	AMBER GLASS: DG9H VG9H	VOA VIAL HS (>6mm)	VG9U DG9U	VG9T	AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit			Matrix
1																	1	1											
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	CG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	CG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
BG1S	1L H2SO4 clear glass	AG3B	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

Plastic

NT3U	Non Teflon 250mL unpreserved plastic
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

Laboratory Report

Report prepared for:
Jennifer Byrnes
Pace Analytical Services, LLC
8 Walkup Drive
Westborough, MA 01581
Email: jennifer.byrnes@pacelabs.com, west.subreports@pacelabs.com

Report prepared by:
Debbie S Robertson

Purchase Order:

For further assistance, contact:
Debbie S Robertson
Report Production Coordinator
PO Box 51610
Knoxville, TN 37950 -1610
(865) 546-1335
debbierobertson@galbraith.com

Sample: L2512607 MW-4S
Lab ID: 2025-V-6249 **Received:** 2025-03-11

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	205.46 mg	2025-03-17

Sample: L2512607 MW-4D2
Lab ID: 2025-V-6250 **Received:** 2025-03-11

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	206.04 mg	2025-03-17

Sample: L2512607 MW-12S
Lab ID: 2025-V-6251 **Received:** 2025-03-11

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	206.18 mg	2025-03-17

Sample: L2512607 MW-12D
Lab ID: 2025-V-6252 **Received:** 2025-03-11

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	206.24 mg	2025-03-17

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Sample: L2512607 SCDOH_DR
Lab ID: 2025-V-6253 **Received:** 2025-03-11

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	205.93 mg	2025-03-17

Sample: L2512607 EQUIPMENT BLANK
Lab ID: 2025-V-6254 **Received:** 2025-03-11

Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	205.60 mg	2025-03-17

Signatures:

Created By: Debbie.S.Robertson 2025-03-20T17:41:51.313-04:00
Published By: Debbie.S.Robertson 2025-03-20T17:42:22.31-04:00

- Physical signatures are on file.
- "Published By" signature indicates authorized release of data.

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

March 27, 2025

Jennifer Byrnes
Pace Westborough
Eight Walkup Drive
Westborough, MA 01581

RE: Project: L2512607
Pace Project No.: 30762406

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on March 10, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Skyler C. Richmond
skyler.richmond@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Customer Service, Alpha Analytical

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: L2512607
Pace Project No.: 30762406

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: L2512607
Pace Project No.: 30762406

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30762406001	**L2512607-08 MW-4S_R**	Water	03/06/25 10:30	03/10/25 09:10

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Greensburg, PA 15601
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SAMPLE ANALYTE COUNT

Project: L2512607
Pace Project No.: 30762406

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30762406001	**L2512607-08 MW-4S_R**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		HSL-300	JJY	6	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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Greensburg, PA 15601
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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: L2512607
Pace Project No.: 30762406

Sample: L2512607-08 MW-4S_R **Lab ID: 30762406001** Collected: 03/06/25 10:30 Received: 03/10/25 09:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.000 ± 0.394 (0.819) C:NA T:93%**	pCi/L	03/24/25 14:52	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.634 ± 0.569 (1.17) C:71% T:85%**	pCi/L	03/26/25 15:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Thorium-228	HSL-300	**0.333 ± 0.258 (0.426) C:NA T:86%**	pCi/L	03/18/25 09:02	14274-82-9	
Thorium-230	HSL-300	**0.147 ± 0.131 (0.080) C:NA T:86%**	pCi/L	03/18/25 09:02	14269-63-7	
Thorium-232	HSL-300	**0.118 ± 0.117 (0.080) C:NA T:86%**	pCi/L	03/18/25 09:02	7440-29-1	
Uranium-234	HSL-300	**0.020 ± 0.096 (0.133) C:NA T:98%**	pCi/L	03/19/25 09:27	13966-29-5	
Uranium-235	HSL-300	**0.070 ± 0.125 (0.094) C:NA T:98%**	pCi/L	03/19/25 09:27	15117-96-1	
Uranium-238	HSL-300	**0.053 ± 0.096 (0.072) C:NA T:98%**	pCi/L	03/19/25 09:27		

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: L2512607
Pace Project No.: 30762406

QC Batch: 732237
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30762406001

METHOD BLANK: 3564669 Matrix: Water
Associated Lab Samples: 30762406001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.182 ± 0.334 (0.597) C:NA T:89%	pCi/L	03/24/25 14:52	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: L2512607
Pace Project No.: 30762406

QC Batch: 732238
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30762406001

METHOD BLANK: 3564670 Matrix: Water
Associated Lab Samples: 30762406001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.451 ± 0.355 (0.696) C:70% T:93%	pCi/L	03/26/25 15:11	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
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QUALITY CONTROL - RADIOCHEMISTRY

Project: L2512607
Pace Project No.: 30762406

QC Batch: 732476
QC Batch Method: HSL-300
Analysis Method: HSL-300
Analysis Description: HSL300(AS) Actinides
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30762406001

METHOD BLANK: 3566158 Matrix: Water
Associated Lab Samples: 30762406001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Thorium-228	0.064 ± 0.114 (0.229) C:NA T:82%	pCi/L	03/18/25 09:02	
Thorium-230	0.024 ± 0.113 (0.157) C:NA T:82%	pCi/L	03/18/25 09:02	
Thorium-232	0.000 ± 0.113 (0.086) C:NA T:82%	pCi/L	03/18/25 09:02	
Uranium-234	0.159 ± 0.135 (0.138) C:NA T:95%	pCi/L	03/19/25 09:27	
Uranium-235	0.108 ± 0.131 (0.098) C:NA T:95%	pCi/L	03/19/25 09:27	
Uranium-238	0.104 ± 0.110 (0.138) C:NA T:95%	pCi/L	03/19/25 09:27	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: L2512607
Pace Project No.: 30762406

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. Is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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Greensburg, PA 15601
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2512607
Pace Project No.: 30762406

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30762406001	**L2512607-08 MW-4S_R**	EPA 903.1	732237		
30762406001	**L2512607-08 MW-4S_R**	EPA 904.0	732238		
30762406001	**L2512607-08 MW-4S_R**	HSL-300	732476		

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Updated CoC received on 3-11-25 Via email

WO# : 30762406

30762406

Pace

Subcontract Chain

Pace Analytical (Green
1638 Roseytown Rd, Suite 2
Greensburg, PA 15601

Pace Job Number
L2512607

Page 1

Client Information	Project Information	Regulatory Requirements/Report Limits
Client: Pace Analytical Labs Address: Eight Walkup Drive Westborough, MA 01581-1019 Report To:west.subreports@pacelabs.com Bill To:invoices@pacelabs.coupahost.com Phone: 716.427.5228 Email: Jennifer.Byrnes@pacelabs.com	Project Location: NY Project Manager: Jennifer Byrnes **Turnaround & Deliverables Information** Due Date: Deliverables: ASP Category B Deliverables	State/Federal Program: Regulatory Criteria: Report to MDL

Project Specific Requirements and/or Report Requirements

Reference following Pace Job Number on final report/deliverables: L2512607 Report to include Method and/or Regulatory required batch QC

Additional Comments: Report to MDL, ASPB package,NYSDEC EDD

Lab ID	Pace ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Sample Level Comments	Sample Specific QC	Container Count
	L2512607-08	MW-4S_R	03-06-25 10:30	WATER WATER WATER WATER	Isotopic Uranium Radium 226 Radium 228 Thorium	Uranium HASL 300 Radium 226 903.1 Radium 228 904.0 Thorium HASL300		0 0 0 0

Received by Pace Greensburg
Therm ID 19 Corr Factor +/-0.4
Receipt Temp 5.3
Corrected Temp 4.9
Correct Preservation Y/N

	Relinquished By:	Date/Time:	Received By:	Date/Time:
			Amy Rose	3-10-25 9:10
Form No: AL_subcoc				

DC#_Title: ENV-FRM-GBUR-0088 v07_Sampl
Greensburg

Effective Date: 01/04/2024

WO# : 30762406

PM: SCR Due Date: 03/31/25
CLIENT: ALPHA ANALYT

Client Name: Alpha Analytical

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other

Tracking Number: Drop-off

Initial / Date

Examined By: VB 3-11-25
Labeled By: VB 3-11-25
Temped By: VB 3-11-25

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No **Seals Intact:** ☐ Yes ☒ No
Thermometer Used: 19 **Type of Ice:** (Wet) Blue None

Cooler Temperature: Observed Temp 5.3 °C Correction Factor: -0.4 °C Final Temp: 4.9 °C

Temp should be above freezing to 6°C

pH paper Lot# 10032401 **D.P.D. Residual Chlorine Lot #**

Comments:	Yes	No	NA	
Chain of Custody Present	X			1. Updated CoC received on 3-11-25 via Email
Chain of Custody Filled Out:	X			2.
-Were client corrections present on COC		X		
Chain of Custody Relinquished		X		3. Original CoC only
Sampler Name & Signature on COC:		X		4.
Sample Labels match COC:	X			5. MW-45-R on bottle, L2512667-08 not present on bottles
-Includes date/time/ID Matrix: WT				
Samples Arrived within Hold Time:	X			6.
Short Hold Time Analysis (<72hr remaining):		X		7.
Rush Turn Around Time Requested:		X		8.
Sufficient Volume:	X			9.
Correct Containers Used:	X			10.
-Pace Containers Used		X		
Containers Intact:	X			11.
Orthophosphate field filtered:			X	12.
Hex Cr Aqueous samples field filtered:			X	13.
Organic Samples checked for dichlorination			X	14:
Filtered volume received for dissolved tests:			X	15:
All containers checked for preservation: exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix	X			16. pH<2
All containers meet method preservation requirements:	X			Initial when completed: VB Date/Time of Preservation: Lot# of added Preservative:
8260C/D: Headspace in VOA Vials (> 6mm)			X	17.
624.1: Headspace in VOA Vials (0mm)			X	18.
Radon: Headspace in RAD Vials (0mm)			X	19.
Trip Blank Present:			X	Trip blank custody seal present? YES or NO
Rad Samples Screened <.05 mrem/hr.	X			Initial when completed: LB Date: 3-10-25 Survey Meter SN: 25014980

Comments: Original CoC with signatures attached.

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office.
PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.
Qualtrax ID: 55680

Client _____

Site L2512607

Page 1 of 1

Profile/EZ Login Number 21500

Notes _____

Sample Line Item	Matrix	Amber Glass					Plastic								Vials					Other									
		AG1H	AG3S	AG3U	AG5U	AG5T	BP1N	BP1U	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	DG9S	VG9H	VG9T	VG9U	VOAK	WGFU	WGKU	ZPLC	GCUB	GJN	12GN	AG1U	BG1U	BP2N	
001	WT						1																						

Container Codes

Glass

GJN	1 Gallon Jug with HNO3	DG9S	40mL amber VOA vial H2SO4
AG5U	100mL amber glass unpreserved	VG9U	40mL clear VOA vial
AG5T	100mL amber glass Na Thiosulfate	VG9T	40mL clear VOA vial Na Thiosulfate
GJN	1 Gallon Jug	VG9H	40mL clear VOA vial HCl
AG1S	1L amber glass H2SO4	JGFU	4oz amber wide jar
AG1H	1L amber glass HCl	WGFU	4oz wide jar unpreserved
AG1T	1L amber glass NA Thiosulfate	BG2U	500mL clear glass unpreserved
BG1U	1L clear glass unpreserved	AG2U	500mL amber g
AG3S	250mL amber glass H2SO4	WGKU	8oz wide jar un
AG3U	250mL amber glass unpreserved	GN	General

Plastic/Misc.

GCUB	1 gallon cubitainer
12GN	1/2 gallon cubitainer
SP5T	120mL coliform Na Thiosulfate
BP1N	1L plastic HNO3
BP1U	1L plastic unpreserved
BP3S	250mL plastic H2SO4
	mL plastic HNO3
	nL plastic unpreserved
	nL plastic NAOH
	nL plastic H2SO4
	nL plastic unpreserved

EZI	5g Encore
VOAK	Kit Volatile Solid
I	Wipe/Swab
ZPLC	Siploc Bag

WT	Water
SL	Solid
OL	Non-Aq Liquid
WP	Wipe

WO#: 30762406

PM: SCR Due Date: 03/31/25

CLIENT: ALPHA ANALYT

Qualtrax ID: 55678

NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date R... in La...

WO#: 30762406

PM: SCR Due Date: 03/31/25

CLIENT: ALPHA ANALYT

Client Information

Client: ROUX Env.Eng.&Geology, DPC
Address: 209 Shafter Street
Islandia, NY 11749-5074
Phone: 631-232-2600
Fax:
Email: aiervolino@rouxinc.com

Project Information

Project Name: CORAM MATERIALS
Project Location:
Project # 2232.0006Y005
(Use Project name as Project #) ☐
Project Manager: Ashley Iervolino
ALPHAQuote #: 30343

Turn-Around Time

Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☐ ASP-B ☐ Same as Client info
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

PO #

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

SUB Uranium/Thorium/RA226/RA228 Send to PACE Greensburg

Please specify Metals or TAL.

ANALYSIS

Sub-Uranium: HASL 300
Sub-Thorium: HASL 300
Sub-Ra228: 904.0
Sub-RA226: 903.1

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Sample Specific Comments

Total Bottles

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Sub-Uranium	Sub-Thorium	Sub-Ra228	Sub-RA226	Total Bottles
	MW-4S_R	3/6/24	1030	AQ	AI	X	X	X	X	4

Received by Pace Greensburg
Therm ID 19 Corr Factor +0.4
Receipt Temp 5.3
Corrected Temp 5.4
Correct Preservation Y/N

Container Type: P P P P
Preservative: C C C C

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	3/6/25 1350	[signature]	3/6/25 17:50
[signature]	3/6/25 18:10	NJSC	3/6/25 18:10
~~[signature]~~	~~3/7~~	[signature]	3/7 12:30
[signature]	3/7 16:40	[signature]	3/7 1400
[signature] Fine Cooke	3/7 3.10.25 9:18	[signature] Fine Cooke	3.10.25 7:00

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

Pace® Location Requested (City/State):

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

WO# : 30762406

PM: SCR Due Date: 03/31/25

CLIENT: ALPHA ANALYT

Company Name: Alpha Analytical

Street Address:

Contact/Report To:

Phone #:

E-Mail:

Cc E-Mail:

Customer Project #:

Invoice to:

Project Name:

Invoice E-mail:

Site Collection Info/Facility ID (as applicable):

Purchase Order # (if applicable):

Quote #:

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s):

Data Deliverables:

[ ] Level II [ ] Level III [ ] Level IV

[ ] EQUIS

[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Reportable [ ] Yes [ ] No

Rush (Pre-approval required):

[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day Other _____

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Residual Chlorine Result	Residual Chlorine Units

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr:

AcctNum / Client ID:

Table #:

Profile / Template:

Prelog / Bottle Ord. ID:

Sample Comment

Preservation non-conformance identified for sample.

Additional Instructions from Pace® :

Collected By:

Printed Name

Signature

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C):	Corrected Temp. (°C):	[ ] On Ice

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
		Jay Ben Pace	3-10-25 9:10	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 2 of 2

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v02_110123 ©

Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 70341590

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

March 14, 2025

Jennifer Byrnes

,

RE: Project: L2512607
Pace Project No.: 70341590

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on March 06, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brianna D. Rivera
brianna.rivera@pacelabs.com
516-370-6007
Project Manager

Enclosures

cc: Reports, Alpha Analytical

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

CERTIFICATIONS

Project: L2512607
Pace Project No.: 70341590

Pace Analytical Services, LLC - Melville, NY

575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Texas Certification #: T104704582
Florida Certification #: E871198

REPORT OF LABORATORY ANALYSIS

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575 Broad Hollow Road
Melville, NY 11747
516-370-6000

SAMPLE SUMMARY

Project: L2512607
Pace Project No.: 70341590

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70341590001	**MW-4S**	Water	03/06/25 10:30	03/06/25 15:35
70341590002	**MW-4D2**	Water	03/06/25 10:24	03/06/25 15:35
70341590003	**MW-12S**	Water	03/06/25 09:13	03/06/25 15:35
70341590004	**MW-12D**	Water	03/06/25 08:46	03/06/25 15:35
70341590005	**SCDOHDR**	Water	03/06/25 11:51	03/06/25 15:35
70341590006	**EQUIPMENT BLANK**	Water	03/06/25 12:00	03/06/25 15:35

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Melville, NY 11747
516-370-6000

SAMPLE ANALYTE COUNT

Project: L2512607
Pace Project No.: 70341590

Lab ID	Sample ID	Method	Analysts	Analytes Reported
70341590001	**MW-4S**	SM22 4500-S2 F	JWM	1
70341590002	**MW-4D2**	SM22 4500-S2 F	JWM	1
70341590003	**MW-12S**	SM22 4500-S2 F	JWM	1
70341590004	**MW-12D**	SM22 4500-S2 F	JWM	1
70341590005	**SCDOHDR**	SM22 4500-S2 F	JWM	1
70341590006	**EQUIPMENT BLANK**	SM22 4500-S2 F	JWM	1

PACE-MV = Pace Analytical Services - Melville

REPORT OF LABORATORY ANALYSIS

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575 Broad Hollow Road
Melville, NY 11747
516-370-6000

PROJECT NARRATIVE

Project: L2512607
Pace Project No.: 70341590

Method: **SM22 4500-S2 F**
Description: 4500S2F W Sulfide Iodometric
Client: Alpha Analytical
Date: March 14, 2025

General Information:
6 samples were analyzed for SM22 4500-S2 F by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: L2512607
Pace Project No.: 70341590

Sample: MW-4S **Lab ID: 70341590001** Collected: 03/06/25 10:30 Received: 03/06/25 15:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		03/13/25 16:54		

REPORT OF LABORATORY ANALYSIS

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575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: L2512607
Pace Project No.: 70341590

Sample: MW-4D2 **Lab ID: 70341590002** Collected: 03/06/25 10:24 Received: 03/06/25 15:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		03/13/25 16:57		

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575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: L2512607
Pace Project No.: 70341590

Sample: MW-12S **Lab ID: 70341590003** Collected: 03/06/25 09:13 Received: 03/06/25 15:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		03/13/25 17:00		

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575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: L2512607
Pace Project No.: 70341590

Sample: MW-12D **Lab ID: 70341590004** Collected: 03/06/25 08:46 Received: 03/06/25 15:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		03/13/25 17:03		

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Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: L2512607
Pace Project No.: 70341590

Sample: SCDOHDR **Lab ID: 70341590005** Collected: 03/06/25 11:51 Received: 03/06/25 15:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		03/13/25 17:06		

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575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: L2512607
Pace Project No.: 70341590

Sample: EQUIPMENT BLANK **Lab ID: 70341590006** Collected: 03/06/25 12:00 Received: 03/06/25 15:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<0.20**	mg/L	2.0	0.20	1		03/13/25 17:09		

REPORT OF LABORATORY ANALYSIS

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575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: L2512607
Pace Project No.: 70341590

QC Batch: 389069 | Analysis Method: SM22 4500-S2 F
QC Batch Method: SM22 4500-S2 F | Analysis Description: 4500S2F W Sulfide Iodometric
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70341590001, 70341590002, 70341590003, 70341590004, 70341590005, 70341590006

METHOD BLANK: 2044807 Matrix: Water
Associated Lab Samples: 70341590001, 70341590002, 70341590003, 70341590004, 70341590005, 70341590006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	<0.20	2.0	0.20	03/13/25 16:49	

LABORATORY CONTROL SAMPLE & LCSD: 2044808 2044809

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Sulfide	mg/L	14	14.0	14.0	100	100	85-115	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALIFIERS

Project: L2512607
Pace Project No.: 70341590

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2512607
Pace Project No.: 70341590

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70341590001	**MW-4S**	SM22 4500-S2 F	389069		
70341590002	**MW-4D2**	SM22 4500-S2 F	389069		
70341590003	**MW-12S**	SM22 4500-S2 F	389069		
70341590004	**MW-12D**	SM22 4500-S2 F	389069		
70341590005	**SCDOHDR**	SM22 4500-S2 F	389069		
70341590006	**EQUIPMENT BLANK**	SM22 4500-S2 F	389069		

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NEW YORK CHAIN OF CUSTODY

WO# : 70341590

70341590

Page 3 of 3

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Date in

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: ROUX Env.Eng.&Geology, DPC
Address: 209 Shafter Street
Islandia, NY 11749-5074
Phone: 631-232-2600
Fax:
Email: aiervolino@rouxinc.com

Project Information

Project Name: CORAM MATERIALS
Project Location:
Project # 2232.0006Y005
(Use Project name as Project #) ☐
Project Manager: Ashley Iervolino
ALPHAQuote #: 30343

Turn-Around Time

Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

ASP-A
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

PO #

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Sub SULFIDE courier to PACE MELVILLE

Please specify Metals or TAL.

ANALYSIS

SUB-SULFIDE

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	SUB-SULFIDE	Sample Specific Comments	Total Bottles
	MW-4S	3/5/25	1030	AQ	AI	X		15
	MW-4D2	"	1024	"	AI	X		15
	MW-12S	"	913	"	"	X		15
	MW-12D	"	846	"	"	X		15
	SCDOH_DR	"	1151	"	"	X		15
	Equipment blank	"	1200	"	"	X		15
	Trip blank	—	—	"	—			2

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/L = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	P											
Preservative	C											

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	3/6/25 [illegible]	[signature]	3/6/25 1330
[signature]	3/6/25 1535	[signature] PACE	3/6/25 1536

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

Client: ALPHA Profile #: 10678

Work ID: CORAM MATERIALS 3/6 COC Page _____ of _____

☐ Use Point Number Spreadsheet ☐ Multiday Project

☐ Add SCLOGFD to first sample for field charge

COC Line Item	Matrix	VG9U	VG9C	VG9H	VG9S	VG9T	DG9Y	DG9P	DG9A	DG6T	DG9S	AG4U	AG3U	AG2U	AG1U	AG34	AG3S	AG4E	AG3T	AG2R	AG1T	AG1H	AG1A	AG5U	AG44	CG1U	WG9O	WG4O	BP4U	BP3U	BP2U	BP1U	BP3S	BP2S	BP4N	BP3N	BP2N	BP3C	BP3T	BP35	BP3R	BP1Z	BP1N	BP1B	SP5T	R	WG2U	WGFU	WGKU	WGDU	ZPLC	GN	WP	TEDL	BGIH	LLHG	BG1N	IOC	SOC
1																																										1																						
2																																										1																						
3																																										1																						
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WO#: 70341590
PM: BDR Due Date: 03/18/25
CLIENT: ALPHA

Container Codes

Glass				Plastic	
VG9U	40mL unpres clear vial	AG4U	125mL unpres amber glass	BP4U	125mL unpreserved plastic
VG9C	40mL Ascorbic-HCl clear vial	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic
VG9H	40mL HCl clear vial	AG2U	500mL unpres amber glass	BP2U	500mL unpreserved plastic
VG9S	40mL Sulfuirc clear vial	AG1U	1liter unpres amber glass	BP1U	1L unpreserved plastic
VG9T	40mL Na Thiosulfate vial	AG34	Ammonium Cl 250mL bottle	BP4N	125mL HNO3 plastic
DG9Y	40mL Citrate-Na Thiosulfate	AG3S	250mL H2SO4 amber glass	BP3N	250mL HNO3 plastic
DG9P	40mL amber vial + TSP	AG4E	125mL EDA amber glass	BP2N	500mL HNO3 plastic
DG9A	Ascorbic/Maleic Acid 40mL	AG3T	250mL Na Thio amber glass	BP3S	250mL H2SO4 plastic
DG6T	Na Thio 60mL Vial	AG2R	Na Sulfite 500mL (blue Cap)	BP2S	500mL H2SO4 plastic
DG9S	Ammonium Cl/CuSO4 40mL	AG1T	Na Thiosulfate 1L bottle	BP4C	NaOH 250mL bottle
CG1U	1L Unpres Jar (Con Ed)	AG1H	1L HCl amber glass	BP3T	250mL Trizma
WG9O	8oz clear soil jar	AG1A	1L Ammonium Chloride	BP35	250mL Ammonium Acetate
WG4O	4oz clear soil jar	AG5U	100mL unpres Amber Glass	BP3R	250mL NH4SO4-NH4OH
		AG44	Ammonium Cl 120mL bottle	BP1Z	1L NaOH, Zn Acetate
				BP1N	1L HNO3 plastic
				BP1B	Na Thiosulfate Amber Bottle

Misc.	
SP5T	120mL Coliform Na Thio
R	Terracore Kit
WG2U	2oz Unpreserved Jar
WGFU	4oz Unpreserved Jar
WGKU	8oz Unpreserved Jar
WGDU	16oz Unpreserved Jar
ZPLC	Ziplock Bag
TEDL	Tedlar Bag
BG1H	1L HCL Clear Glass
GN	General
WP	Wipe
LLHG	Low Level Hg Bottles
BG1N	1L HNO3 Clear Glass

IOC	
BP1U	1L unpreserved plastic
BP3N*	250mL HNO3 plastic
BP3C	250mL Sodium Hydroxide
AG2U	500mL unpres amber glass
BP3U	250mL unpreserved plastic

* Can also be a BP4N

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

SOC	
VG9T	40mL Na Thio amber vial
DG9A	40mL Ascorbic acid/ maleic Acid vials
DG9Y	Citrate/Na Thiosulfate 40mL
DG6T	Na Thiosulfate 60mL vial
DG6M	MonoClAcetetic/Na Thio 60mL
AG3U	250mL unpres amber glass
AG3T	Na Thiosulfate 250mL bottle
BP1B	Na Thiosulfate Amber bottle
AG1T	Na Thiosulfate 1L Amber
AG1A	525.3 Chemical Blend

Sender Initials: AD

Additional Comments

no trip blank sample

DC# Title: ENV-FRM-MELV-0024 v07_SCUR
Effective Date: 4/12/2024

WO#: 70341590
PM: BDR Due Date: 03/18/25
CLIENT: ALPHA

Client Name: ALPHA Project:

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☐ Yes ☐ No Temperature Blank Present: ☐ Yes ☐ No
Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziplock ☐ None ☐ Other Type of Ice: (Wet) Blue None

Thermometer Used: T#211 Correction Factor: +.2 ☐ Samples on ice, cooling process has begun
Cooler Temperature(°C): 3.2 Cooler Temperature Corrected(°C): 3.4 Date/Time 5035A kits placed in freezer:
Temp should be above freezing to 6.0°C

USDA Regulated Soil (☑ N/A, water sample)
Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check map)? ☐ Yes ☐ No
Did samples originate from a foreign source (including Hawaii and Puerto Rico)? ☐ Yes ☐ No
If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents: AD 8/6/25

				COMMENTS
Chain of Custody Present	☑Yes	☐No		1
Chain of Custody Filled Out	☑Yes	☐No		2
Chain of Custody Relinquished	☑Yes	☐No		3
Sampler Name & Signature on COC	☑Yes	☐No	☐N/A	4
Samples Arrived within Hold Time	☑Yes	☐No		5
Short Hold Time Analysis (<72hr)	☐Yes	☑No		6
Rush Turn Around Time Requested:	☐Yes	☑No		7
Sufficient Volume (Triple volume provided for MS/MSD)	☑Yes	☐No		8
Correct Containers Used	☑Yes	☐No		9
Pace Containers Used	☑Yes	☐No		
Containers Intact	☑Yes	☐No		10
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11 Note if sediment is visible in the dissolved container
Sample Labels match COC (includes date/time/ID/Analysis Matrix: S W OIL OTHER)	☑Yes	☐No		12

Date and Initials of person checking preservation: AD 8/6/25

All containers needing preservation have been checked. pH paper Lot # 231224	☑Yes	☐No	☐N/A	13 ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NaOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water) Per Method, VOA pH is checked after analysis	☑Yes	☐No	☐N/A	Initial when completed / Lot # of added preservative / Date/Time preservative added
Samples checked for dechlorination: Kl starch test strips Lot # Residual chlorine strips Lot #	☐Yes	☐No	☑N/A	14 Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sulf: Lead Acetate Strips Lot #	☐Yes	☐No	☑N/A	15 Positive for Sulfide? Y N
Headspace in ALK Bottle (>6mm)	☐Yes	☐No	☑N/A	
Headspace in VOA Vials (>6mm)	☐Yes	☐No	☑N/A	16
Trip Blank Present	☐Yes	☐No	☑N/A	17
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	

Client Notification/ Resolution: Field Data Required? Y / N
Person Contacted: Date/Time:
Comments/ Resolution:

* PM (Project Manager) review (which includes the SCUR) is documented electronically in LIMS

SAMPLE NO.

MW-4S

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - New York SDG No. : 70341590 Contract: L2512607

Lab Sample ID: 70341590001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Sulfide	<0.20	U	mg/L	1	03/13/2025 16:54

SAMPLE NO.

MW-4D2

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - New York SDG No. : 70341590 Contract: L2512607

Lab Sample ID: 70341590002 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Sulfide	<0.20	U	mg/L	1	03/13/2025 16:57

SAMPLE NO.

MW-12S

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - New York SDG No. : 70341590 Contract: L2512607

Lab Sample ID: 70341590003 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Sulfide	<0.20	U	mg/L	1	03/13/2025 17:00

SAMPLE NO.

MW-12D

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - New York SDG No. : 70341590 Contract: L2512607

Lab Sample ID: 70341590004 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Sulfide	<0.20	U	mg/L	1	03/13/2025 17:03

SAMPLE NO.

SCDOHDR

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - New York SDG No. : 70341590 Contract: L2512607

Lab Sample ID: 70341590005 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Sulfide	<0.20	U	mg/L	1	03/13/2025 17:06

SAMPLE NO.

EQUIPMENT BLANK

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - New York SDG No. : 70341590 Contract: L2512607

Lab Sample ID: 70341590006 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Sulfide	<0.20	U	mg/L	1	03/13/2025 17:09

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - New York SDG No. : 70341590 Contract : L2512607

Method Blank Matrix: Water Instrument ID: 70WET0

Method Blank Concentration Units: mg/L

Analyte	Initial Calibration Blank		Continuing Calibration Blank						Method Blank	
		C		C		C		C	2044807	C
Sulfide									<0.20	U

SAMPLE NO.

2044809LCSD

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - New York SDG No. : 70341590 Contract: L2512607

Matrix: Water Concentration Units: mg/L

Percent Moisture: Basis: Wet

Analyte	RPD Control Limit	Sample	Duplicate	RPD
Sulfide	20	14.0	14.0	0

SAMPLE NO.

2044808LCS

FORM VII INORGANIC-1
LABORATORY CONTROL SAMPLE

Lab Name: Pace Analytical - New York SDG No. : 70341590 Contract: L2512607

Matrix: Water

Analyte	Units	True	Found	%R	Limits	
Sulfide	mg/L	14.0	14.0	100	85	115

SAMPLE NO.

2044809LCSD

FORM VII INORGANIC-2
LABORATORY CONTROL SAMPLE

Lab Name: Pace Analytical - New York SDG No. : 70341590 Contract: L2512607

Matrix: Water

Analyte	Units	True	Found	%R	Limits	
Sulfide	mg/L	14.0	14.0	100	85	115

FORM XII INORGANIC-1
PREPARATION LOG

Lab Name: Pace Analytical - New York SDG No. : 70341590 Contract: L2512607

Preparation Method: SM22 4500-S2 F Batch: WET 89162

Lab Sample ID	Sample Name	Preparation Date	Initial Volume (mL)	Final Volume (mL)
2044807	2044807BLANK	03/13/2025	200	200
2044808	2044808LCS	03/13/2025	200	200
2044809	2044809LCSD	03/13/2025	200	200
70341590001	MW-4S	03/13/2025	1000	1000
70341590002	MW-4D2	03/13/2025	1000	1000
70341590003	MW-12S	03/13/2025	1000	1000
70341590004	MW-12D	03/13/2025	1000	1000
70341590005	SCDOHDR	03/13/2025	1000	1000
70341590006	EQUIPMENT BLANK	03/13/2025	1000	1000

FORM XIII INORGANIC-1
ANALYSIS RUN LOG

Lab Name: Pace Analytical - New York SDG No. : 70341590 Contract: L2512607

Instrument ID: 70WET0 Analysis Method: SM22 4500-S2 F

Start Date: 03/13/2025 16:49 End Date: 03/13/2025 17:09

Sample Name	Lab Sample ID	D/F	Date	Time	sulf
2044807BLANK	2044807	1	03/13/2025	16:49	X
2044808LCS	2044808	1	03/13/2025	16:50	X
2044809LCSD	2044809	1	03/13/2025	16:51	X
MW-4S	70341590001	1	03/13/2025	16:54	X
MW-4D2	70341590002	1	03/13/2025	16:57	X
MW-12S	70341590003	1	03/13/2025	17:00	X
MW-12D	70341590004	1	03/13/2025	17:03	X
SCDOHDR	70341590005	1	03/13/2025	17:06	X
EQUIPMENT BLANK	70341590006	1	03/13/2025	17:09	X

Prep Log Report

Batch Information: WET_SULFIDE_89162_3/13/25

4500S2F | Sulfide

Analysis Method	SM22 4500-S2 F	Instrument	70WET0	Analyzed By	JWM	1:1 HCl	204762
Starch Indicator Solution	204544	Reviewed By	SDO	Reviewed By Date	03/14/2025 09:04	Batch Notes	

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Select	Initial Volume (mL)	Iodine 0.025N (mL)	Thio Start (mL)	Thio End (mL)	Sodium Thiosulfate 0.025N (mL)	Sulfide	Units	Run Date/Time	Filtered	Glass Fiber Filters ()	Sample Notes
4500S2F W	BLANK	**2044807**	Y	200	201492 (5)	12	17	204828 (5.00)	0.00	mg/L	03/13/2025 16:49:02	Yes	188807 ()	
4500S2F W	LCS	**2044808**	Y	200	201492 (10)	17	20	204828 (3.00)	14.00	mg/L	03/13/2025 16:50:03	Yes	188807 ()	
4500S2F W	LCSD	**2044809**	Y	200	201492 (10)	20	23	204828 (3.00)	14.00	mg/L	03/13/2025 16:51:05	Yes	188807 ()	
4500S2F W	PS	**70341590001**	Y	1000	201492 (5)	23	28	204828 (5.00)	0.00	mg/L	03/13/2025 16:54:08	Yes	188807 ()	
4500S2F W	PS	**70341590002**	Y	1000	201492 (5)	28	33	204828 (5.00)	0.00	mg/L	03/13/2025 16:57:11	Yes	188807 ()	
4500S2F W	PS	**70341590003**	Y	1000	201492 (5)	33	38	204828 (5.00)	0.00	mg/L	03/13/2025 17:00:12	Yes	188807 ()	
4500S2F W	PS	**70341590004**	Y	1000	201492 (5)	38	43	204828 (5.00)	0.00	mg/L	03/13/2025 17:03:13	Yes	188807 ()	
4500S2F W	PS	**70341590005**	Y	1000	201492 (5)	43	48	204828 (5.00)	0.00	mg/L	03/13/2025 17:06:17	Yes	188807 ()	
4500S2F W	PS	**70341590006**	Y	1000	201492 (5)	19.6	24.5	204828 (4.90)	0.04	mg/L	03/13/2025 17:09:21	Yes	188807 ()	
4500S2F W	PS	**70341609001**	Y	1000	201492 (5)	24.5	29.5	204828 (5.00)	0.00	mg/L	03/13/2025 17:12:24	Yes	188807 ()	
4500S2F W	PS	**70341609002**	Y	1000	201492 (5)	29.5	34.5	204828 (5.00)	0.00	mg/L	03/13/2025 17:15:30	Yes	188807 ()	
4500S2F W	PS	**70341789001**	Y	1000	201492 (5)	34.5	39.1	204828 (4.60)	0.16	mg/L	03/13/2025 17:19:36	Yes	188807 ()	
4500S2F W	PS	**70341795001**	Y	1000	201492 (5)	39.1	43.7	204828 (4.60)	0.16	mg/L	03/13/2025 17:23:39	Yes	188807 ()	

QC Rule	Sample Type	Lab Sample ID	S-SPK (mL)
4500S2F W	BLANK	**2044807**	

Prep Log Report

QC Rule	Sample Type	Lab Sample ID	S-SPK (mL)
4500S2F W	LCS	**2044808**	203485 (1)
4500S2F W	LCSD	**2044809**	203485 (1)
4500S2F W	PS	**70341590001**	
4500S2F W	PS	**70341590002**	
4500S2F W	PS	**70341590003**	
4500S2F W	PS	**70341590004**	
4500S2F W	PS	**70341590005**	
4500S2F W	PS	**70341590006**	
4500S2F W	PS	**70341609001**	
4500S2F W	PS	**70341609002**	
4500S2F W	PS	**70341789001**	
4500S2F W	PS	**70341795001**	

Standard Notes:

203485: Wet Sulfide LCS/ Second Source 5mL

Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 50395811

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

March 20, 2025

Jennifer Byrnes
Pace MA
Eight Walkup Drive
Westborough, MA 01581

RE: Project: L2512607
Pace Project No.: 50395811

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on March 11, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Sayer

Tina Sayer
tina.sayer@pacelabs.com
(317)228-3127
Project Manager

Enclosures

cc: Pace MA, Pace MA

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: L2512607
Pace Project No.: 50395811

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Louisiana Certification #: 04076
Michigan Drinking Water Laboratory #9050
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE SUMMARY

Project: L2512607
Pace Project No.: 50395811

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50395811001	**MW-4S**	Water	03/06/25 10:30	03/11/25 08:40
50395811002	**MW-4D2**	Water	03/06/25 10:24	03/11/25 08:40
50395811003	**MW-12S**	Water	03/06/25 09:13	03/11/25 08:40
50395811004	**MW-12D**	Water	03/06/25 08:46	03/11/25 08:40
50395811005	**SCDOH_DR**	Water	03/06/25 11:51	03/11/25 08:40
50395811006	**EQUIPMENT BLANK**	Water	03/06/25 12:00	03/11/25 08:40

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SAMPLE ANALYTE COUNT

Project: L2512607
Pace Project No.: 50395811

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50395811001	**MW-4S**	EPA 9056	GLT	1
50395811002	**MW-4D2**	EPA 9056	GLT	1
50395811003	**MW-12S**	EPA 9056	GLT	1
50395811004	**MW-12D**	EPA 9056	GLT	1
50395811005	**SCDOH_DR**	EPA 9056	GLT	1
50395811006	**EQUIPMENT BLANK**	EPA 9056	GLT	1

PASI-I = Pace Analytical Services - Indianapolis

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(317)228-3100

ANALYTICAL RESULTS

Project: L2512607
Pace Project No.: 50395811

Sample: MW-4S **Lab ID: 50395811001** Collected: 03/06/25 10:30 Received: 03/11/25 08:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		03/15/25 02:13		

REPORT OF LABORATORY ANALYSIS

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Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: L2512607
Pace Project No.: 50395811

Sample: MW-4D2 **Lab ID: 50395811002** Collected: 03/06/25 10:24 Received: 03/11/25 08:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		03/15/25 02:32		

REPORT OF LABORATORY ANALYSIS

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Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: L2512607
Pace Project No.: 50395811

Sample: MW-12S **Lab ID: 50395811003** Collected: 03/06/25 09:13 Received: 03/11/25 08:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		03/15/25 02:50		

REPORT OF LABORATORY ANALYSIS

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Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: L2512607
Pace Project No.: 50395811

Sample: MW-12D **Lab ID: 50395811004** Collected: 03/06/25 08:46 Received: 03/11/25 08:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		03/15/25 03:45		

REPORT OF LABORATORY ANALYSIS

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Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: L2512607
Pace Project No.: 50395811

Sample: SCDOH_DR **Lab ID: 50395811005** Collected: 03/06/25 11:51 Received: 03/11/25 08:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		03/15/25 04:03		

REPORT OF LABORATORY ANALYSIS

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Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: L2512607
Pace Project No.: 50395811

Sample: EQUIPMENT BLANK **Lab ID: 50395811006** Collected: 03/06/25 12:00 Received: 03/11/25 08:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis								
Iodide	ND	mg/L	0.50	0.15	1		03/15/25 04:22		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: L2512607
Pace Project No.: 50395811

QC Batch: 833942 | Analysis Method: EPA 9056
QC Batch Method: EPA 9056 | Analysis Description: 9056 Iodide by IC
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50395811001, 50395811002, 50395811003, 50395811004, 50395811005, 50395811006

METHOD BLANK: 3815714 Matrix: Water
Associated Lab Samples: 50395811001, 50395811002, 50395811003, 50395811004, 50395811005, 50395811006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iodide	mg/L	ND	0.50	0.15	03/14/25 20:26	

LABORATORY CONTROL SAMPLE: 3815715

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iodide	mg/L	5	5.6	111	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3815716 3815717

Parameter	Units	50395809007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iodide	mg/L	ND	5	5	4.7	4.7	94	94	80-120	0	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: L2512607
Pace Project No.: 50395811

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2512607
Pace Project No.: 50395811

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50395811001	**MW-4S**	EPA 9056	833942		
50395811002	**MW-4D2**	EPA 9056	833942		
50395811003	**MW-12S**	EPA 9056	833942		
50395811004	**MW-12D**	EPA 9056	833942		
50395811005	**SCDOH_DR**	EPA 9056	833942		
50395811006	**EQUIPMENT BLANK**	EPA 9056	833942		

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WO# : 50395811

50395811

Pace

Subcontract Chain of Custody

Pace Analytical (Indianapolis, IN)
7726 Moller Road
Indianapolis, IN 46268

Pace Job Number
L2512607

Page 1

Client Information	Project Information	Regulatory Requirements/Report Limits
Client: Pace Analytical Labs Address: Eight Walkup Drive Westborough, MA 01581-1019 Report To:west.subreports@pacelabs.com Bill To:invoices@pacelabs.coupahost.com Phone: 716.427.5228 Email: Jennifer.Byrnes@pacelabs.com	Project Location: NY Project Manager: Jennifer Byrnes **Turnaround & Deliverables Information** Due Date: Deliverables: ASP Category B Deliverables	State/Federal Program: Regulatory Criteria: Report to MDL

Project Specific Requirements and/or Report Requirements

Reference following Pace Job Number on final report/deliverables: L2512607 Report to include Method and/or Regulatory required batch QC

Additional Comments: Profile # 11706: needs L4 and EDD 265 NY EQUIS on Iodide sub chain"

Lab ID	Pace ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Sample Level Comments	Sample Specific QC	Container Count
001	L2512607-01	MW-4S	03-06-25 10:30	WATER	Iodide			1
002	L2512607-02	MW-4D2	03-06-25 10:24	WATER	Iodide			1
003	L2512607-03	MW-12S	03-06-25 09:13	WATER	Iodide			1
004	L2512607-04	MW-12D	03-06-25 08:46	WATER	Iodide			1
005	L2512607-05	SCDOH_DR	03-06-25 11:51	WATER	Iodide			1
006	L2512607-06	EQUIPMENT BLANK	03-06-25 12:00	Equipment Blank	Iodide			1

	Relinquished By:	Date/Time:	Received By:	Date/Time:
	[signature] Fedex	311025	Fedex	3-11-25 TRM
	Fedex	3-11-25 840	[signature]	3-11-25 840
Form No: AL_subcoc				

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: TRH 3-11-25 1156

1. Thermometer: 1 2 3 4 5 6 7 8 9 A B (C) D E F G H I

2. Cooler Temperature(s): 0.9 | 0.8 | | | |
(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

3. Courier: (Fed Ex) UPS Client Pace Now/Jett Other
Circle One

4. Custody Seal on Cooler/Box Present: ☑ Yes ☐ No

(If yes)Seals Intact: ☐ Yes ☐ No (leave blank if no seals were present)

5. Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other _____

6. Ice Type: ☑ Wet ☐ Blue ☐ None

7. Was the PM notified of out of temp cooler? ☐ Yes ☐ No
Cooler temp should be above freezing to 6°C
If the PM was contacted in the comments below please write how they instructed the project to proceed

All discrepancies will be written out in the comments section below.

	Yes	No
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓
Short Hold Time Analysis (48 hours or less)? **Analysis:**		✓
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:	
Rush TAT Requested (4 days or less):		✓
Custody Signatures Present?	✓	
Containers Intact?:	✓	
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓	
Extra labels on Terracore Vials? (soils only)		

	Yes	No	N/A
All containers needing acid/base preservation have been pH CHECKED?: **Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.** **Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9)** Any non-conformance to pH recommendations will be noted on the container count form			✓
Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	~~N/A~~
Residual Chlorine Check (Total/Amenable/Free Cyanide)			✓
Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent ✓
Trip Blank Present?		✓	
Trip Blank Custody Seals?:			✓
Out Of Temp Instructions if applicable:			

COMMENTS:

COC PAGE ____ of ____

Sample Container Count

** Place a PINK dot on containers that are out of conformance **

COC Line Item	WGFU	WGKU BG1U	MeOH (only) / SBS / DI / R	DG9H VG9H	VOA VIAL HS (>6mm)	VG9U DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit			Matrix
1																													
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ ZnAc
Red	Yellow	Green	Black
HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	CG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	CG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
BG1S	1L H2SO4 clear glass	AG3B	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

Plastic

NT3U	Non Teflon 250mL unpreserved plastic
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

SAMPLE NO.

MW-4S

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50395811 Contract: L2512607

Lab Sample ID: 50395811001 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	03/15/2025 02:13

SAMPLE NO.

MW-4D2

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50395811 Contract: L2512607

Lab Sample ID: 50395811002 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	03/15/2025 02:32

SAMPLE NO.

MW-12S

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50395811 Contract: L2512607

Lab Sample ID: 50395811003 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	03/15/2025 02:50

SAMPLE NO.

MW-12D

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50395811 Contract: L2512607

Lab Sample ID: 50395811004 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	03/15/2025 03:45

SAMPLE NO.

SCDOH_DR

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50395811 Contract: L2512607

Lab Sample ID: 50395811005 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	03/15/2025 04:03

SAMPLE NO.

EQUIPMENT BLANK

FORM I INORGANIC-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: Pace Analytical - Indiana SDG No. : 50395811 Contract: L2512607

Lab Sample ID: 50395811006 Percent Moisture:

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	03/15/2025 04:22

FORM II INORGANIC-1

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50395811 Contract: L2512607

Initial Calibration Verification Source: 399113

Continuing Calibration Verification Source: 407366

Concentration Units: mg/L Instrument ID: 50IC05

	Initial Calibration Verification				Continuing Calibration Verification						
	01/10/2025 14:21				03/14/2025 19:49			03/14/2025 23:29			Control Limit
Analyte	True	Found	%R	Control Limit	True	Found	%R	True	Found	%R	
Iodide	5.0	5.5	110.0	90-110	1.0	0.97	96.6	1.0	0.95	94.9	90-110

FORM II INORGANIC-2

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50395811 Contract: L2512607

Initial Calibration Verification Source:

Continuing Calibration Verification Source: 407366

Concentration Units: mg/L Instrument ID: 50IC05

	Continuing Calibration Verification						
	03/15/2025 03:08			03/15/2025 05:35			Control Limit
Analyte	True	Found	%R	True	Found	%R	
Iodide	1.0	0.95	95.0	1.0	0.91	91.3	90-110

FORM III INORGANIC-1

BLANKS

Lab Name: Pace Analytical - Indiana SDG No. : 50395811 Contract : L2512607

Method Blank Matrix: Water Instrument ID: 50IC05

Method Blank Concentration Units: mg/L

Analyte	Initial Calibration Blank (mg/L)		Continuing Calibration Blank (mg/L)						Method Blank	
	01/10/2025 14:40	C	03/14/2025 20:08	C	03/14/2025 23:47	C	03/15/2025 03:27	C	3815714	C
Iodide	0.068	U	0.068	U	0.068	U	0.068	U	ND	U

FORM III INORGANIC-2

BLANKS

Lab Name: Pace Analytical - Indiana SDG No. : 50395811 Contract : L2512607

Method Blank Matrix: Instrument ID: 50IC05

Method Blank Concentration Units:

Analyte	Initial Calibration Blank		Continuing Calibration Blank (mg/L)					
		C	03/15/2025 05:53	C		C		C
Iodide			0.068	U				

SAMPLE NO.

3815716MS

FORM V INORGANIC-1

MATRIX SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No. : 50395811 Contract: L2512607

Matrix: Water Basis: Wet Parent Sample ID: 50395809007

Percent Moisture:

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Iodide	mg/L	80-120	4.7	ND	5.0	94

SAMPLE NO.

3815717MSD

FORM V INORGANIC-2

MATRIX SPIKE SAMPLE RECOVERY

Lab Name: Pace Analytical - Indiana SDG No. : 50395811 Contract: L2512607

Matrix: Water Basis: Wet Parent Sample ID: 50395809007

Percent Moisture:

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Iodide	mg/L	80-120	4.7	ND	5.0	94

SAMPLE NO.

3815717MSD

FORM VI INORGANIC-1
DUPLICATES

Lab Name: Pace Analytical - Indiana SDG No. : 50395811 Contract: L2512607

Matrix: Water Concentration Units: mg/L

Percent Moisture: Basis: Wet

Analyte	RPD Control Limit	Sample	Duplicate	RPD
Iodide	15	4.7	4.7	0

SAMPLE NO.

3815715LCS

FORM VII INORGANIC-1
LABORATORY CONTROL SAMPLE

Lab Name: Pace Analytical - Indiana SDG No. : 50395811 Contract: L2512607

Matrix: Water

Analyte	Units	True	Found	%R	Limits	
Iodide	mg/L	5.0	5.6	111	80	120

FORM XII INORGANIC-1
PREPARATION LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50395811 Contract: L2512607

Preparation Method: EPA 9056 Batch: GCSV 59571

Lab Sample ID	Sample Name	Preparation Date	Initial Volume (mL)	Final Volume (mL)
3815714	3815714BLANK	03/14/2025	10	10
3815715	3815715LCS	03/14/2025	10	10
3815716	3815716MS	03/14/2025	10	10
3815717	3815717MSD	03/15/2025	10	10
50395811001	MW-4S	03/15/2025	10	10
50395811002	MW-4D2	03/15/2025	10	10
50395811003	MW-12S	03/15/2025	10	10
50395811004	MW-12D	03/15/2025	10	10
50395811005	SCDOH_DR	03/15/2025	10	10
50395811006	EQUIPMENT BLANK	03/15/2025	10	10

FORM XIII INORGANIC-1
ANALYSIS RUN LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50395811 Contract: L2512607

Instrument ID: 50IC05 Analysis Method: EPA 9056

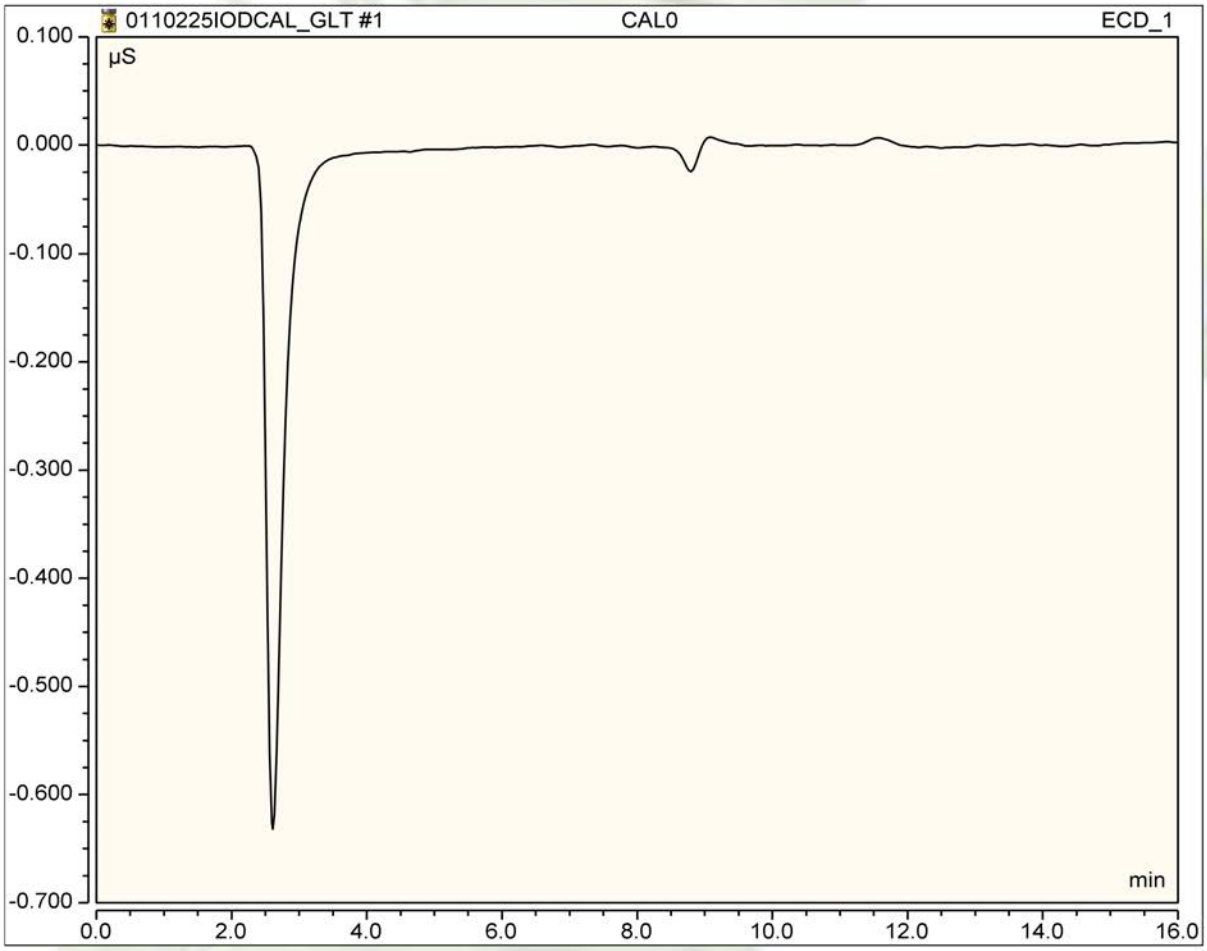
Start Date: 01/10/2025 12:30 End Date: 03/15/2025 05:53

Sample Name	Lab Sample ID	D/F	Date	Time	iodi
26259305CAL0	26259305CAL0	1	01/10/2025	12:30	X
26259306CAL1	26259306CAL1	1	01/10/2025	12:48	X
26259307CAL2	26259307CAL2	1	01/10/2025	13:06	X
26259308CAL3	26259308CAL3	1	01/10/2025	13:24	X
26259309CAL4	26259309CAL4	1	01/10/2025	13:43	X
26259310CAL5	26259310CAL5	1	01/10/2025	14:02	X
26259311ICV	26259311ICV	1	01/10/2025	14:21	X
26259312ICB	26259312ICB	1	01/10/2025	14:40	X
26553376CCV	26553376CCV	1	03/14/2025	19:49	X
26553377CCB	26553377CCB	1	03/14/2025	20:08	X
3815714BLANK	3815714	1	03/14/2025	20:26	X
3815715LCS	3815715	1	03/14/2025	20:44	X
50395809007	50395809007	1	03/14/2025	22:52	X
3815716MS	3815716	1	03/14/2025	23:11	X
26553378CCV	26553378CCV	1	03/14/2025	23:29	X
26553379CCB	26553379CCB	1	03/14/2025	23:47	X
3815717MSD	3815717	1	03/15/2025	00:06	X
MW-4S	50395811001	1	03/15/2025	02:13	X
MW-4D2	50395811002	1	03/15/2025	02:32	X
MW-12S	50395811003	1	03/15/2025	02:50	X
26553380CCV	26553380CCV	1	03/15/2025	03:08	X
26553381CCB	26553381CCB	1	03/15/2025	03:27	X
MW-12D	50395811004	1	03/15/2025	03:45	X
SCDOH_DR	50395811005	1	03/15/2025	04:03	X
EQUIPMENT BLANK	50395811006	1	03/15/2025	04:22	X
26553383CCV	26553383CCV	1	03/15/2025	05:35	X
26553384CCB	26553384CCB	1	03/15/2025	05:53	X

CAL0
396047

Sample Name:	**CAL0**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RA1*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**402456**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**01/10/2025 12:30**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

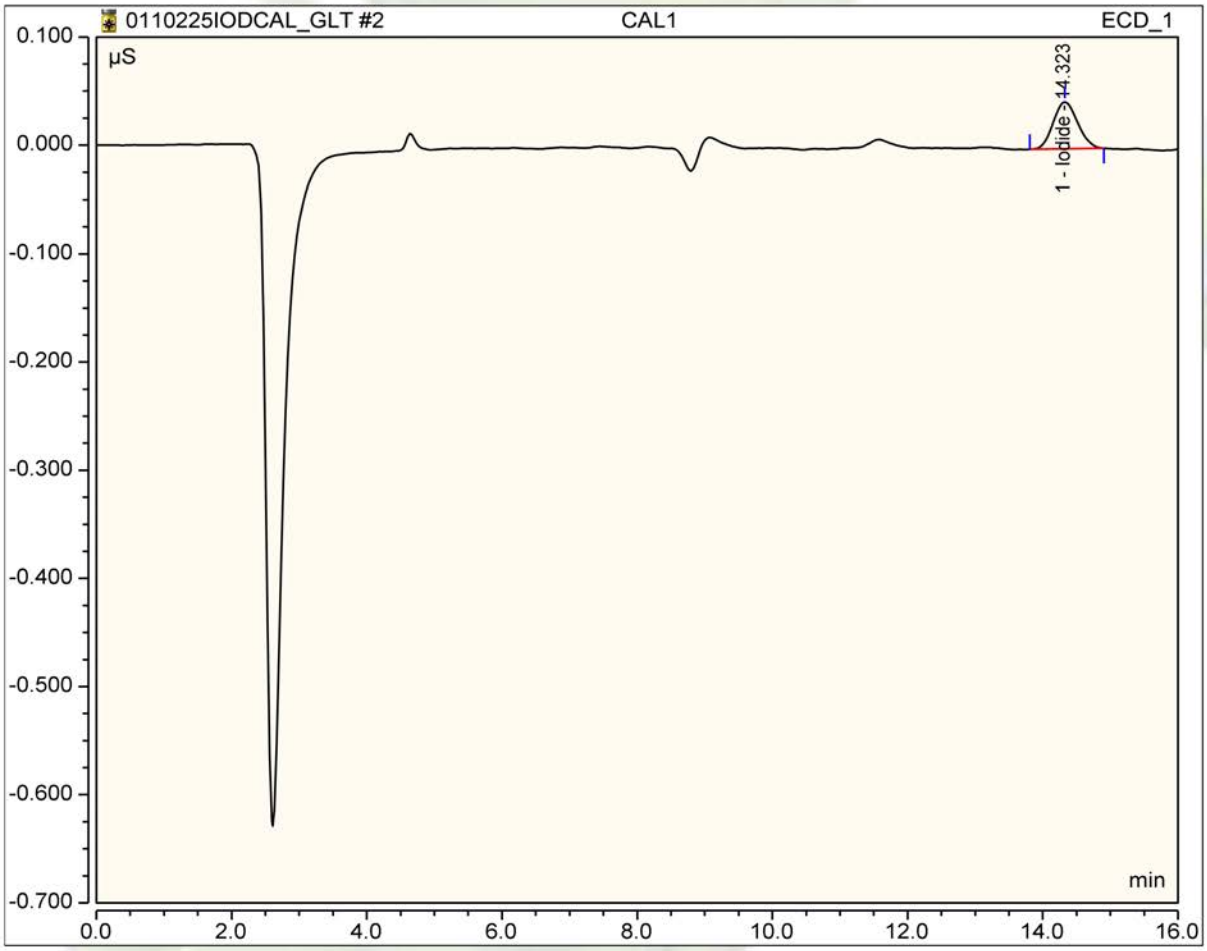
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



CAL1
396046

Sample Name:	**CAL1**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RA2*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**402456**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**01/10/2025 12:48**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

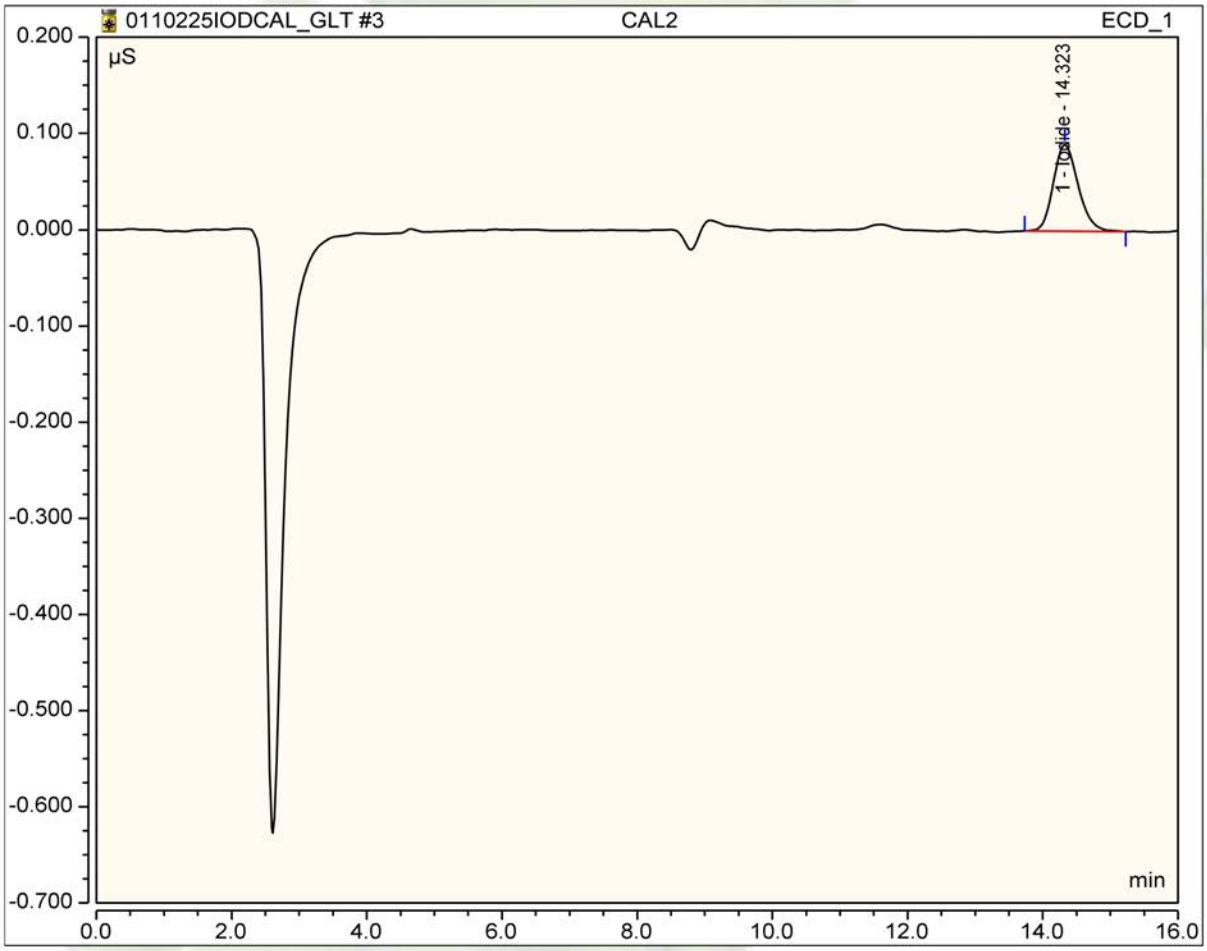
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.32	**Iodide**	0.4779	0.018	0.043	BMB



CAL2
396045

Sample Name:	**CAL2**	*Injection Volume (uL):*	**25.00**
Vial Number:	*B2*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**402456**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**01/10/2025 13:06**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

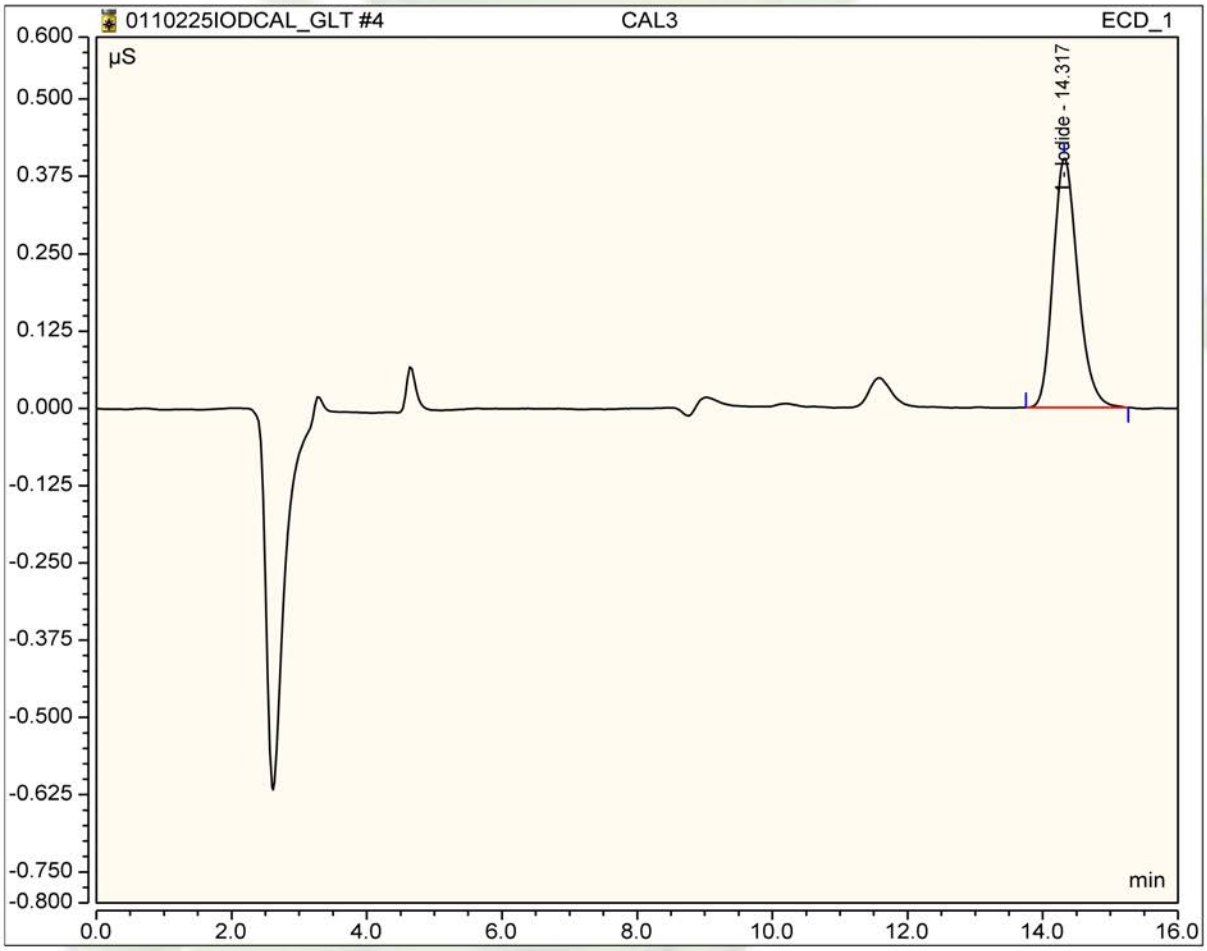
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.32	**Iodide**	1.0549	0.038	0.089	BMB



CAL3
396044

Sample Name:	**CAL3**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RA3*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**402456**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**01/10/2025 13:24**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

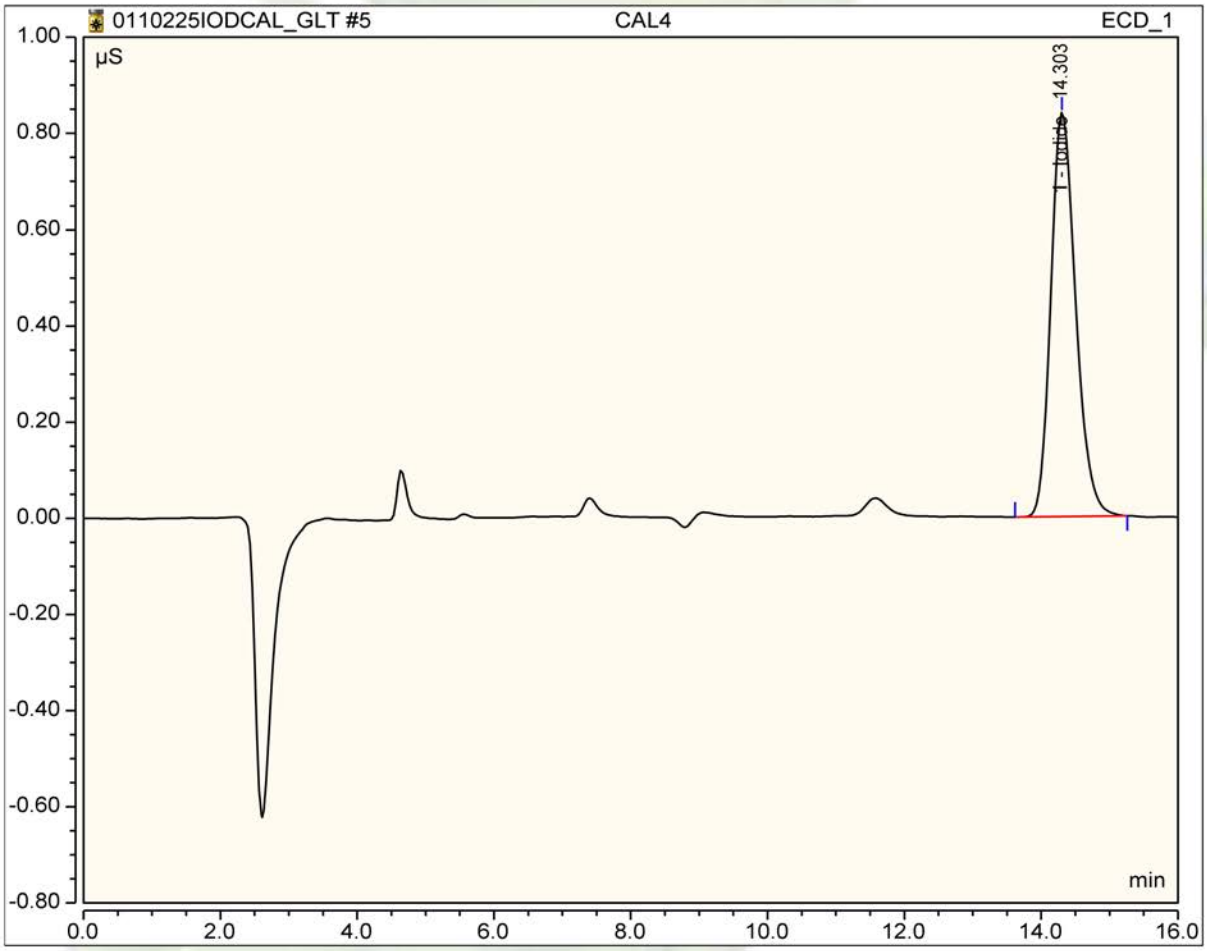
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.32	**Iodide**	4.8737	0.170	0.404	BMB



CAL4
404450

Sample Name:	**CAL4**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RA4*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**402456**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**01/10/2025 13:43**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

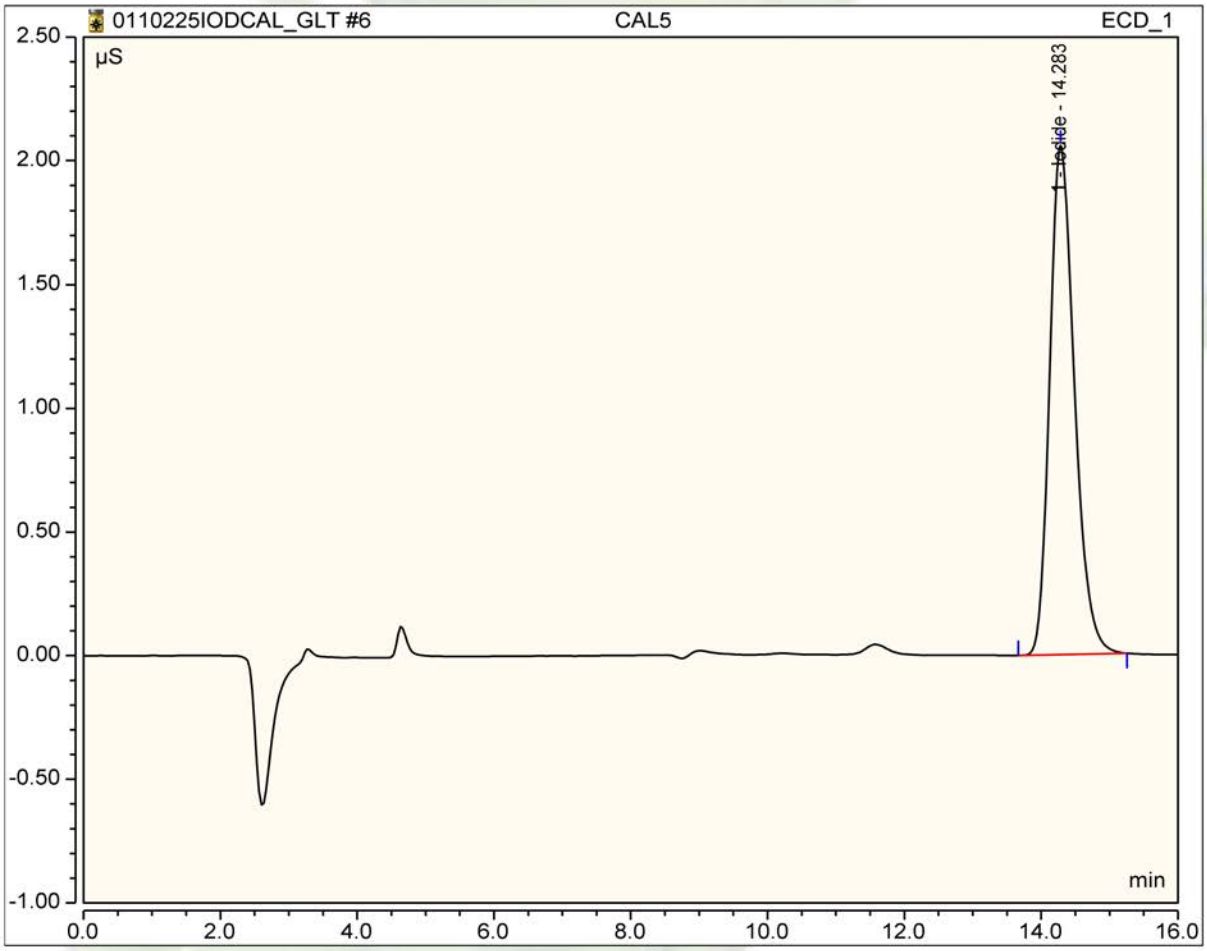
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.30	**Iodide**	10.1795	0.354	0.840	BMB



CAL5
396042

Sample Name:	**CAL5**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RA5*	*Channel:*	**ECD_1**
Sample Type:	*Calibration Standard*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**402456**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**01/10/2025 14:02**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

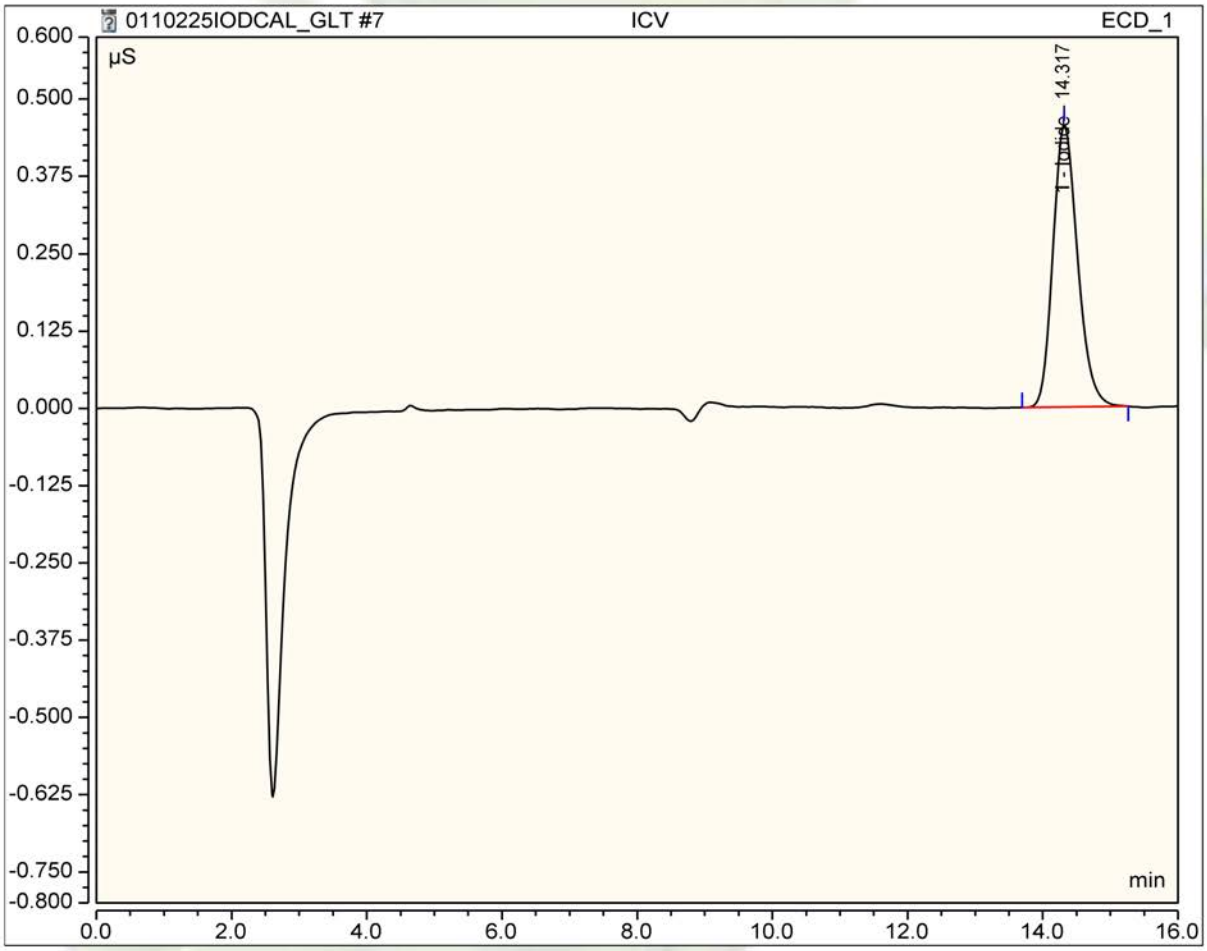
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.28	**Iodide**	24.9140	0.863	2.058	BMB



ICV
399113

Sample Name:	**ICV**	*Injection Volume (uL):*	**25.00**
Vial Number:	*B3*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**402456**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**01/10/2025 14:21**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

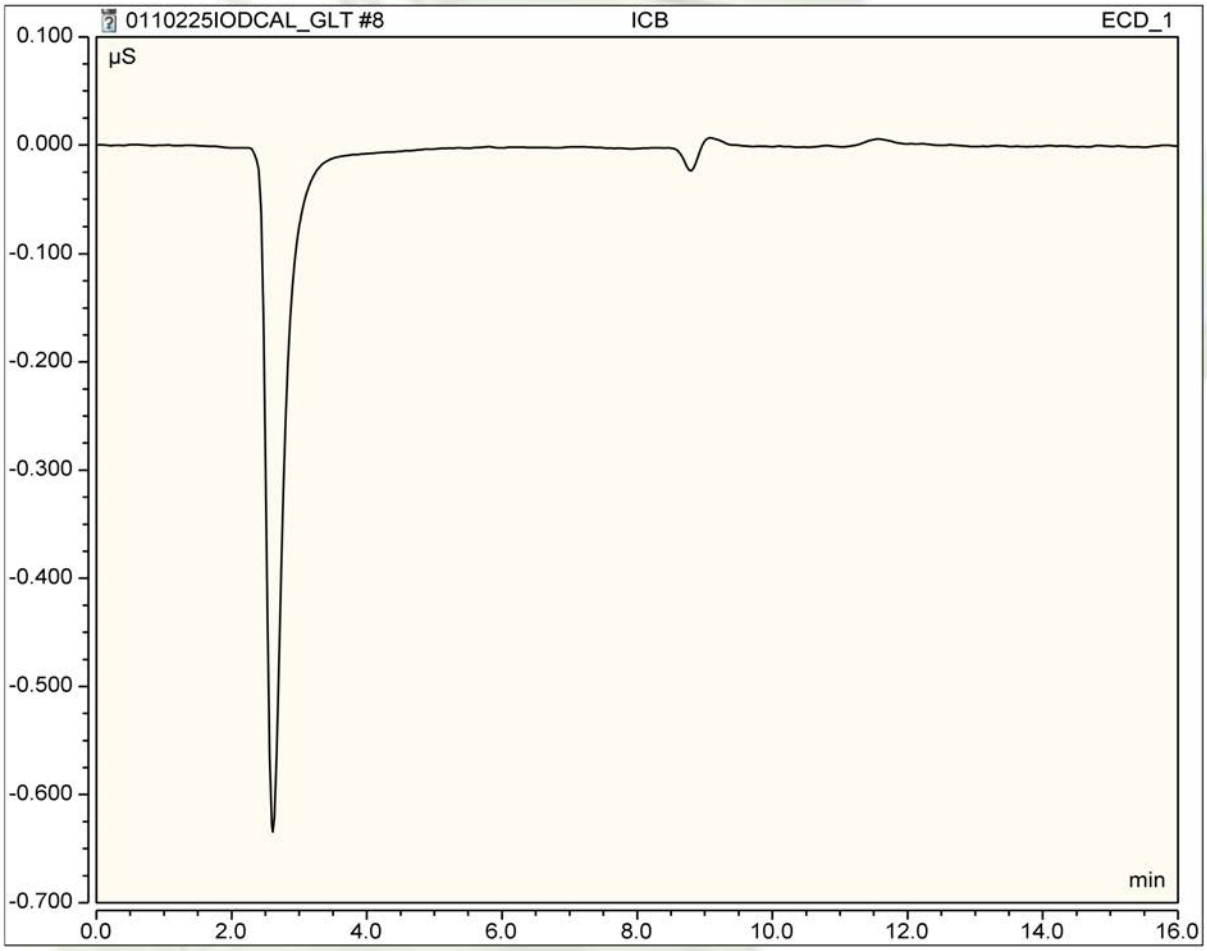
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.32	**Iodide**	5.4995	0.192	0.456	BMB



ICB
340111

Sample Name:	**ICB**	*Injection Volume (uL):*	**25.00**
Vial Number:	*B1*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**402456**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**01/10/2025 14:40**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

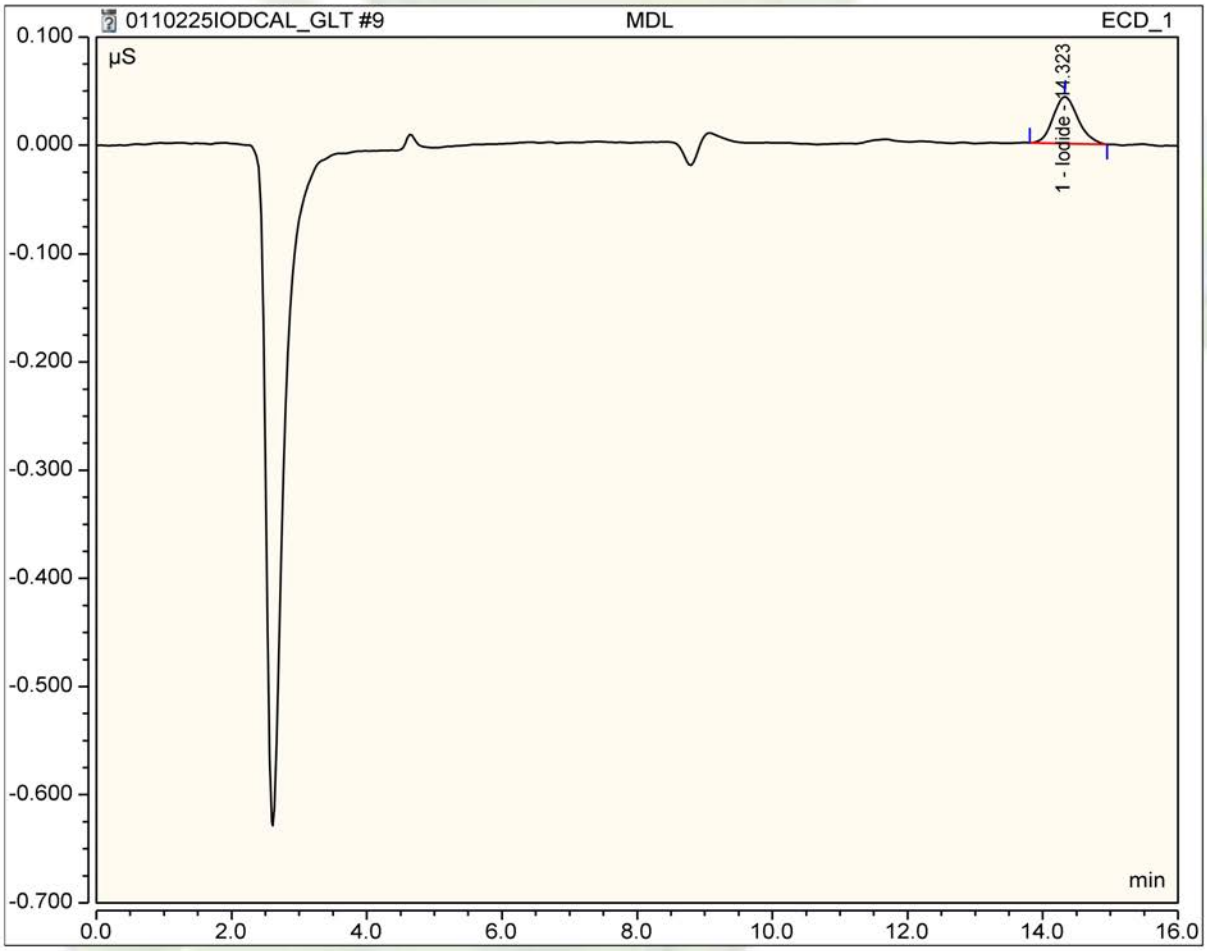
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



MDL

Sample Name:	**MDL**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RA6*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**402456**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**01/10/2025 14:59**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

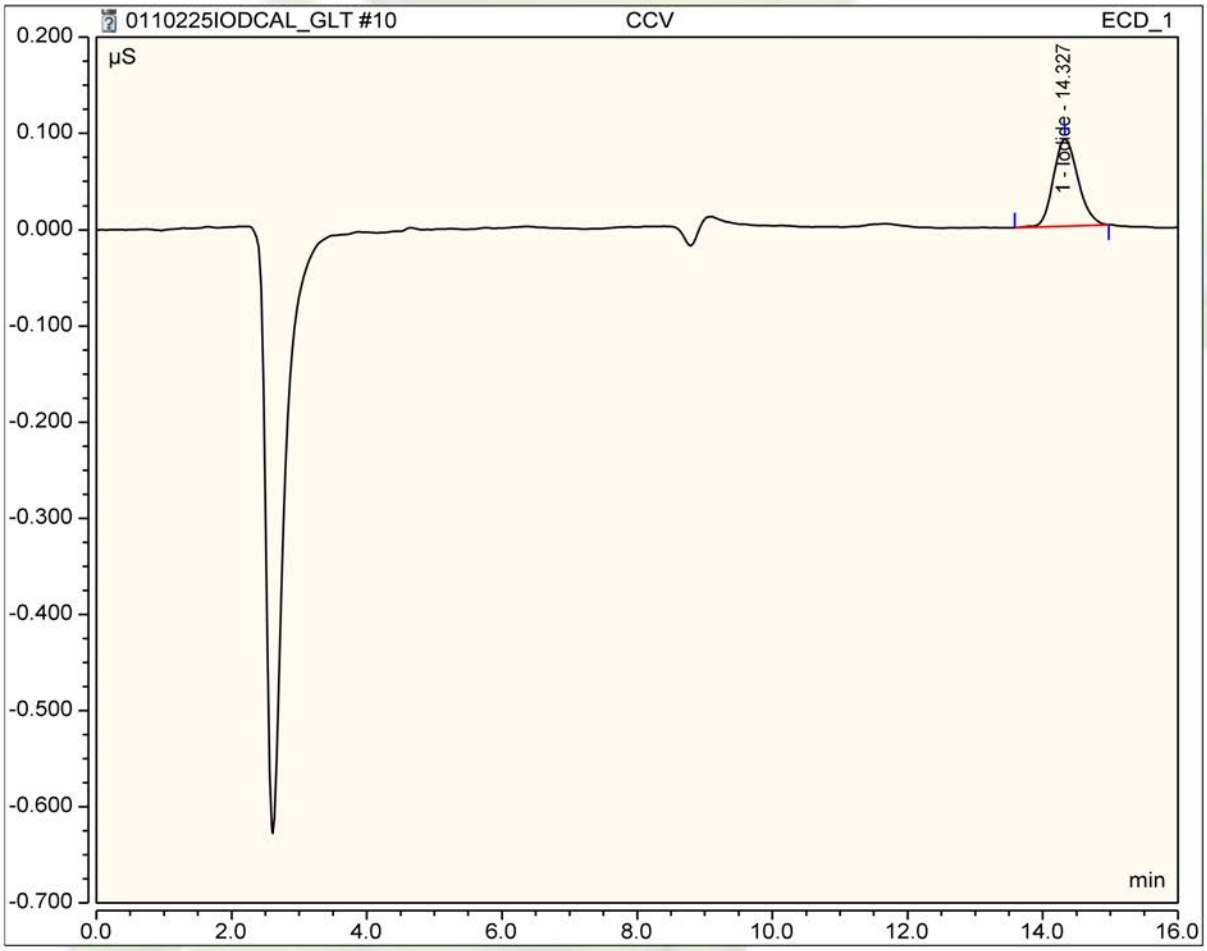
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.32	**Iodide**	0.4888	0.018	0.043	BMB



CCV
389128

Sample Name:	**CCV**	*Injection Volume (uL):*	**25.00**
Vial Number:	*B2*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**402456**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**01/10/2025 15:18**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

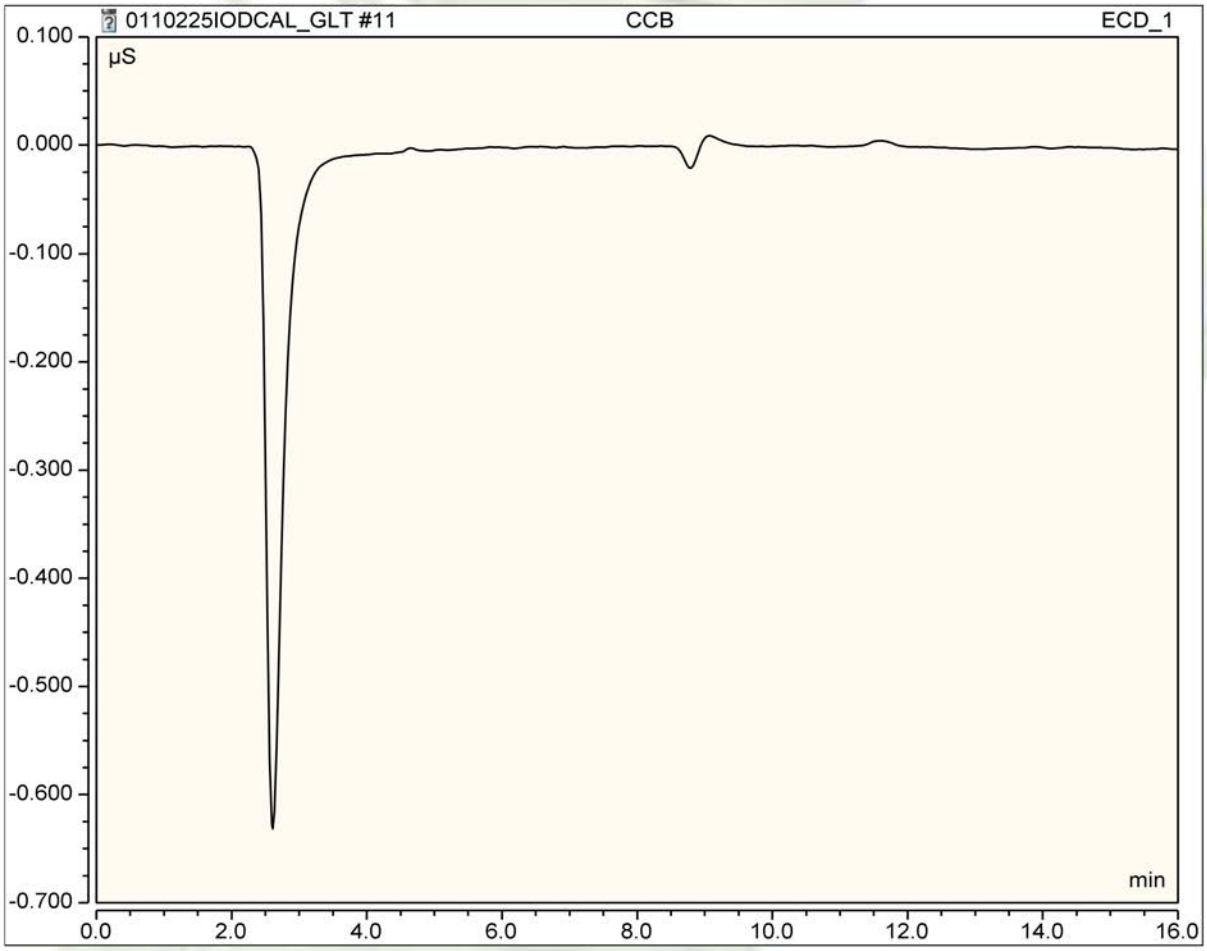
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.33	**Iodide**	1.0462	0.038	0.090	BMB



CCB
340111

Sample Name:	**CCB**	*Injection Volume (uL):*	**25.00**
Vial Number:	*B4*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**402456**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**01/10/2025 15:36**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

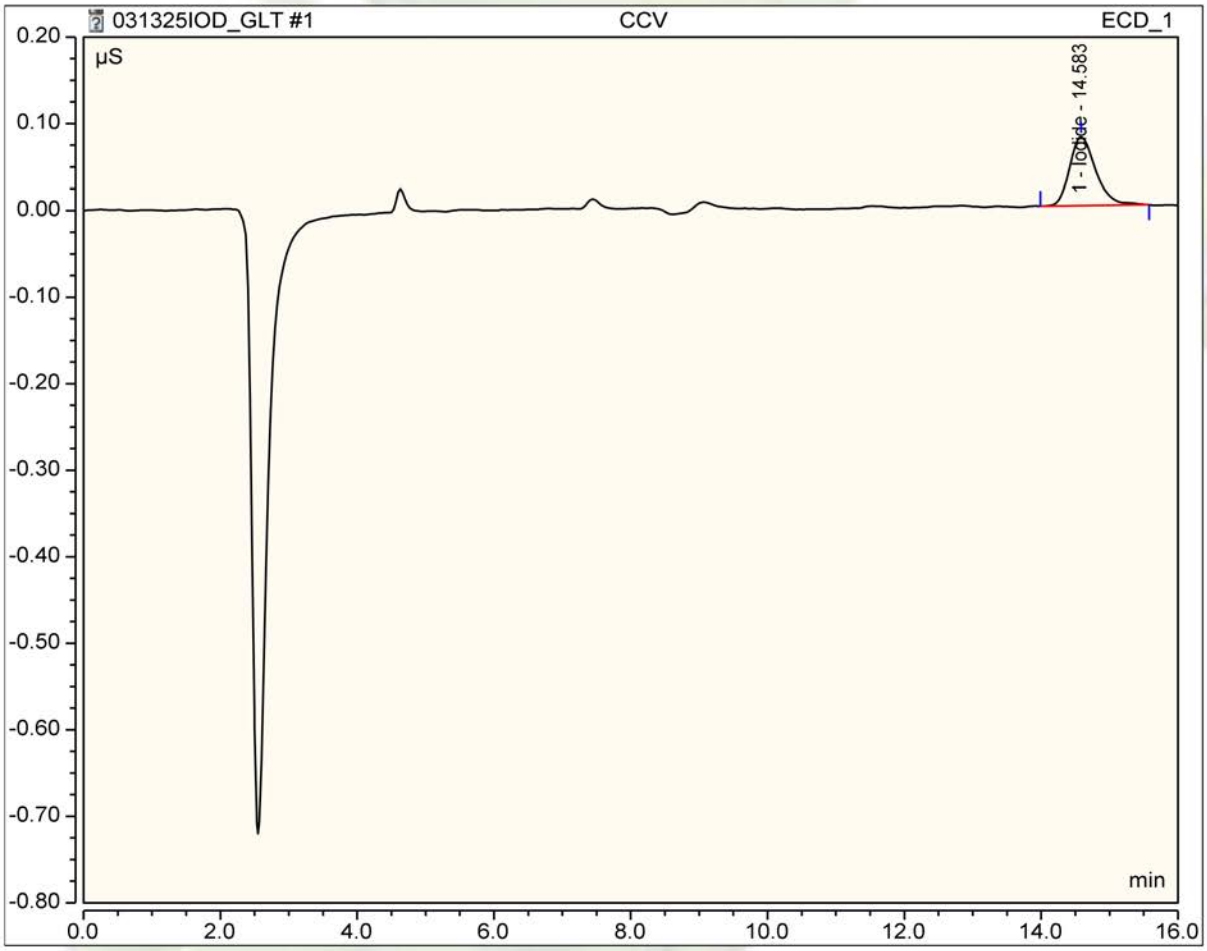
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



CCV
407366

Sample Name:	**CCV**	*Injection Volume (uL):*	**25.00**
Vial Number:	*B2*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**407501**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/14/2025 19:49**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

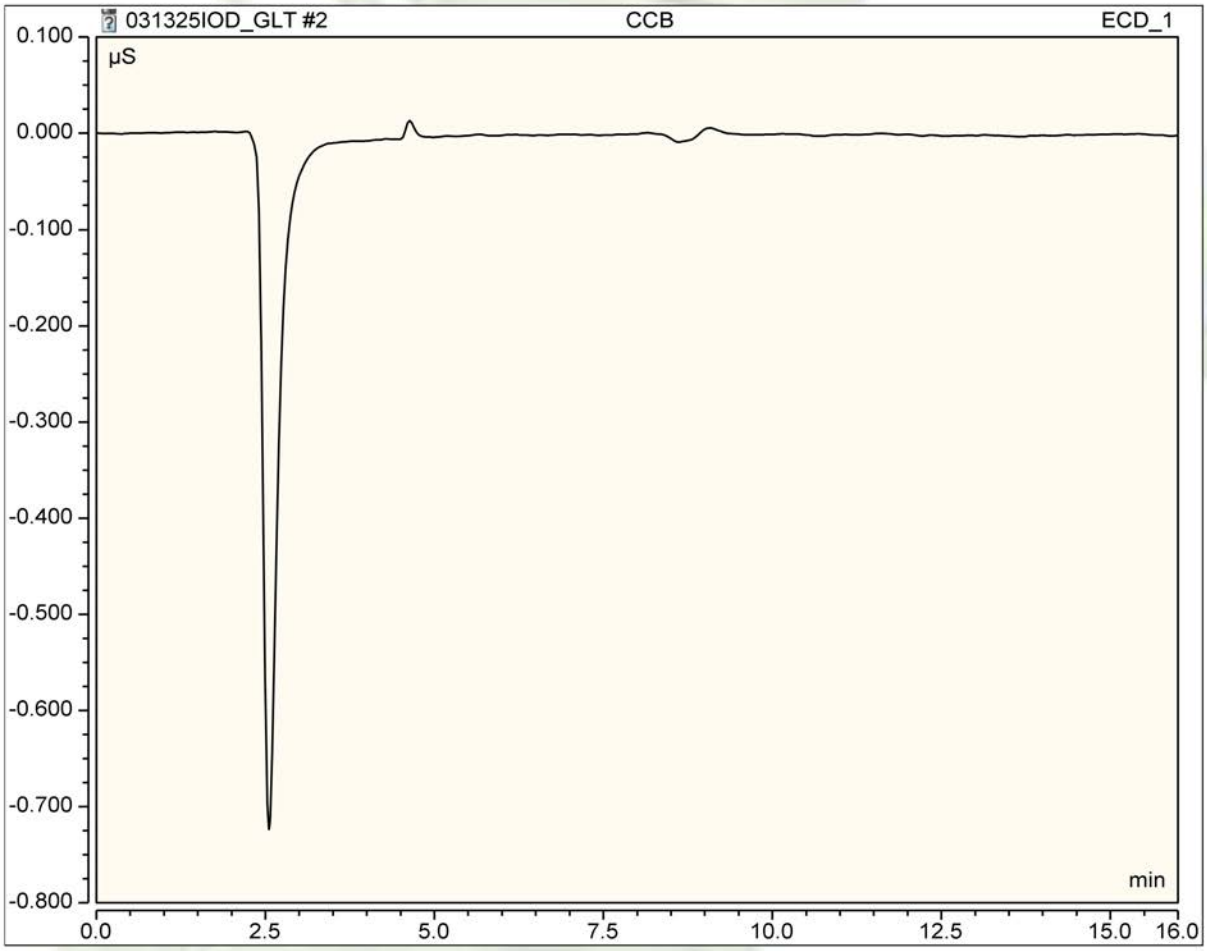
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.58	**Iodide**	0.9656	0.035	0.079	BMB



CCB
340111

Sample Name:	**CCB**	*Injection Volume (uL):*	**25.00**
Vial Number:	*B1*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**407501**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/14/2025 20:08**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

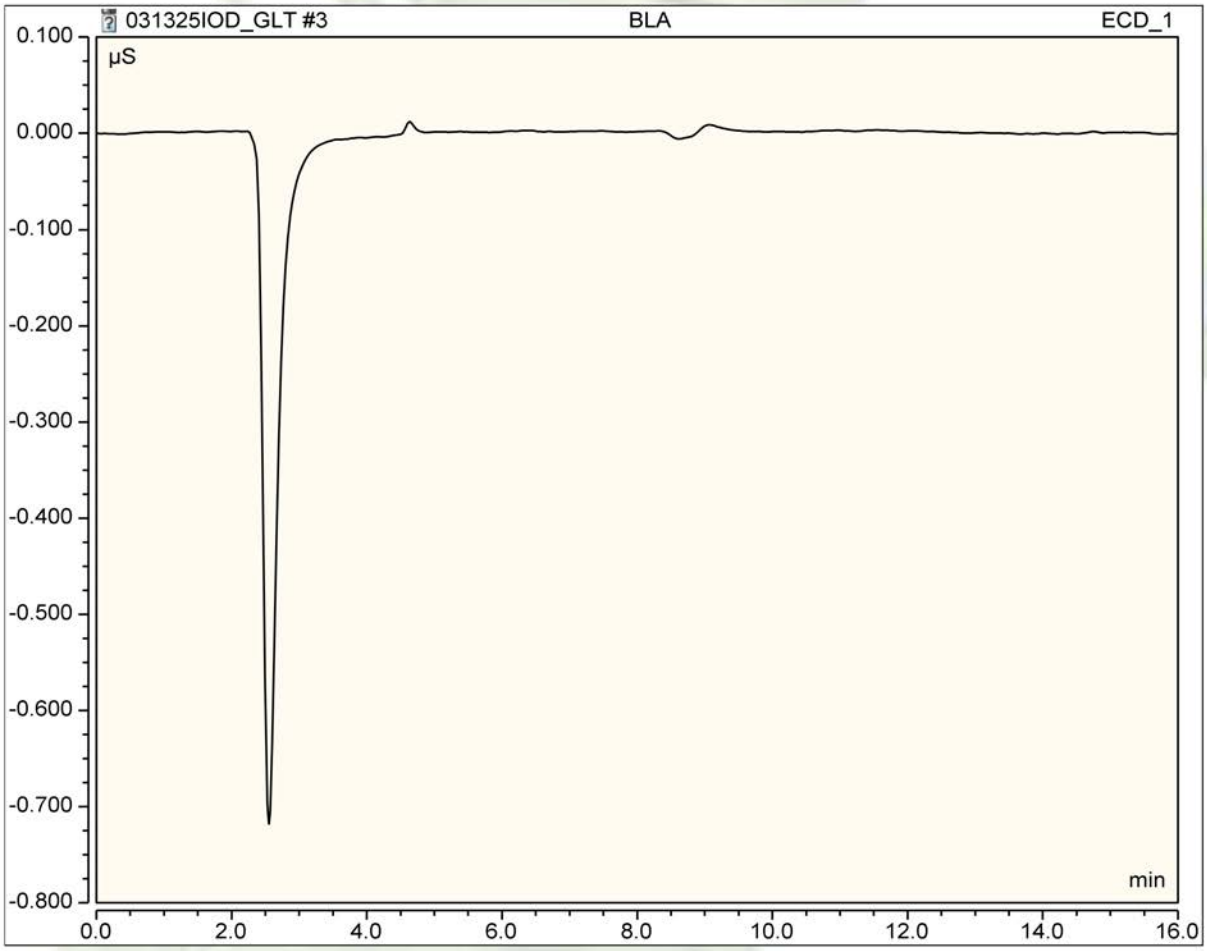
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



BLA
340111

Sample Name:	**BLA**	*Injection Volume (uL):*	**25.00**
Vial Number:	*B1*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**407501**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/14/2025 20:26**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

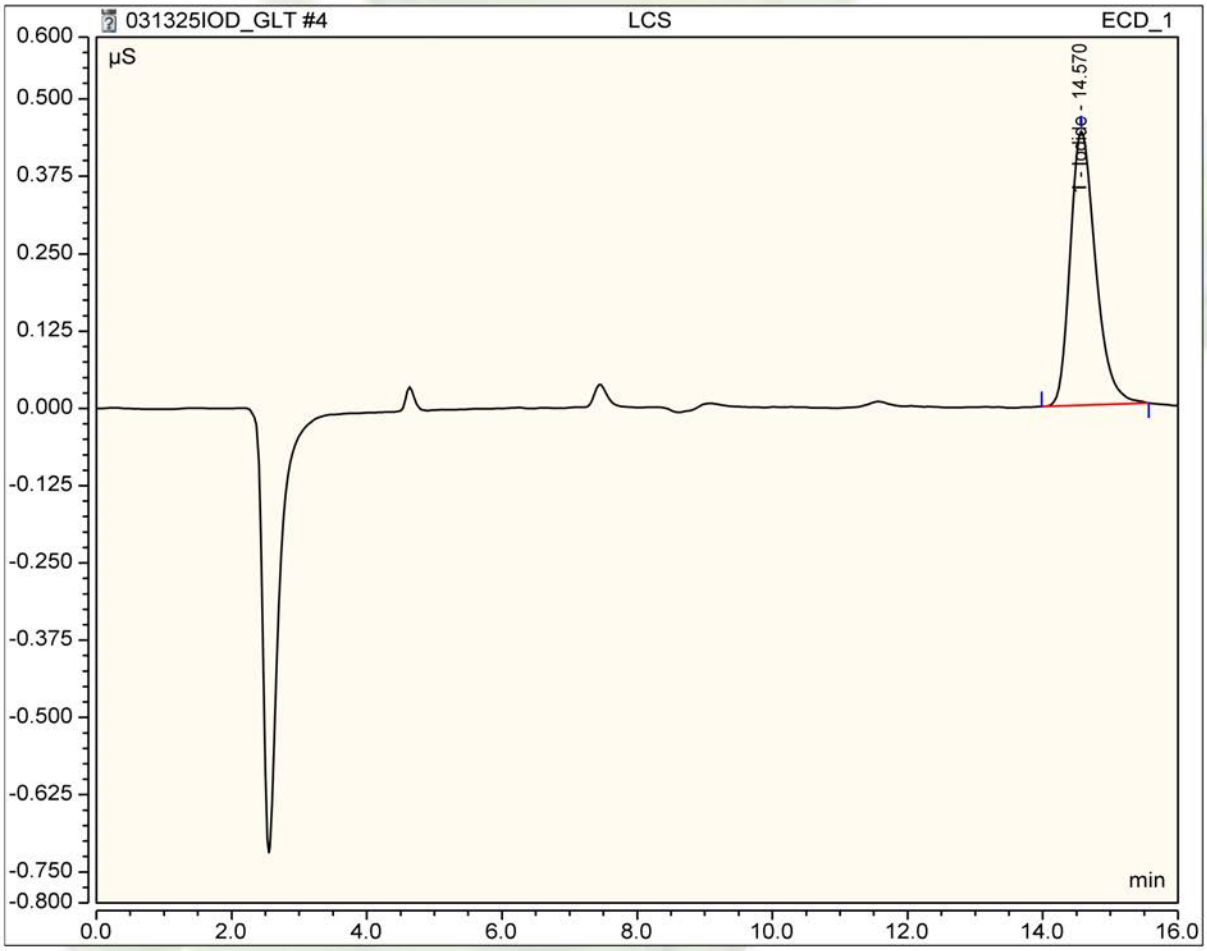
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



LCS
377680

Sample Name:	**LCS**	*Injection Volume (uL):*	**25.00**
Vial Number:	*B3*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**407501**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/14/2025 20:44**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

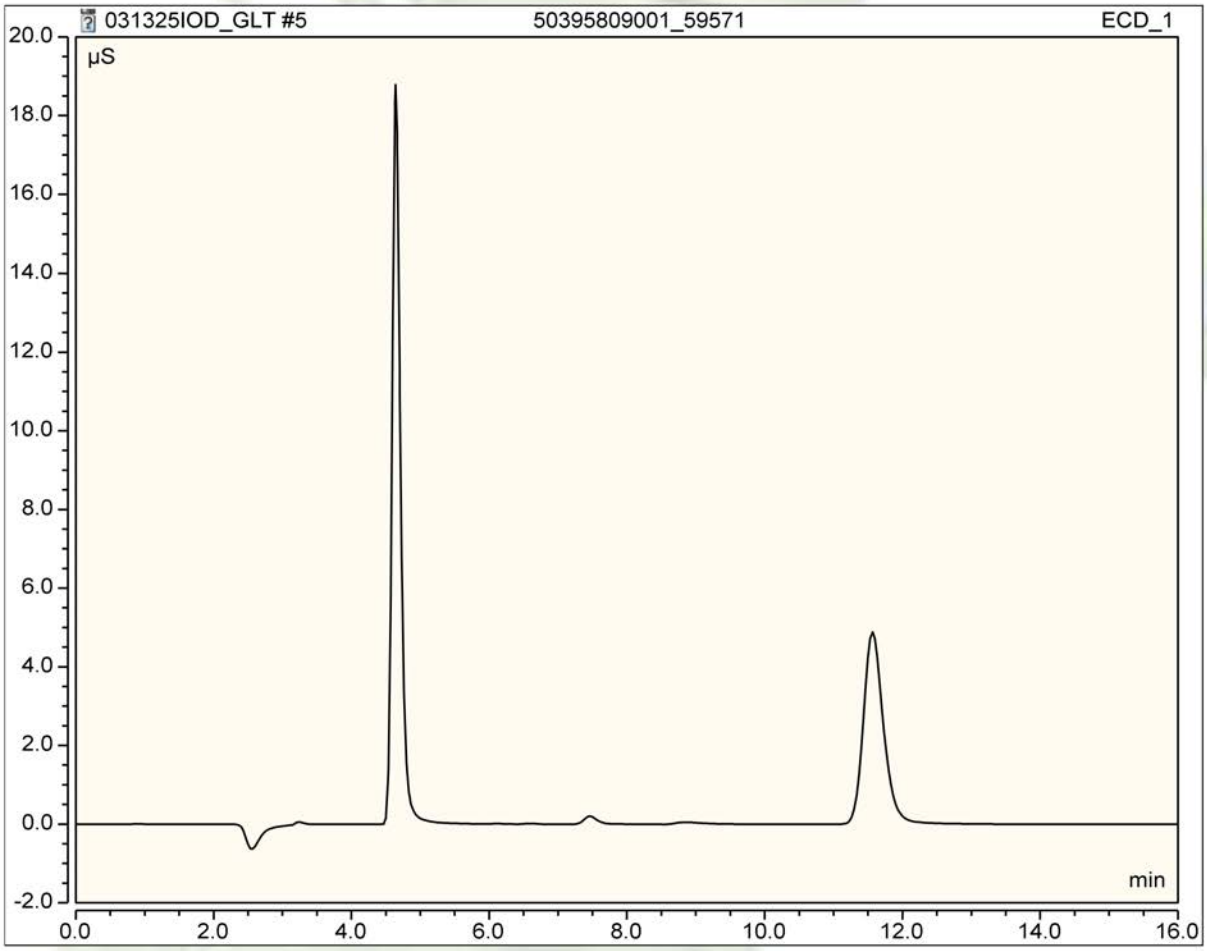
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.57	**Iodide**	5.5553	0.194	0.443	BMB



50395809001_59571

Sample Name:	**50395809001_59571**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RA1*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**407501**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/14/2025 21:03**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

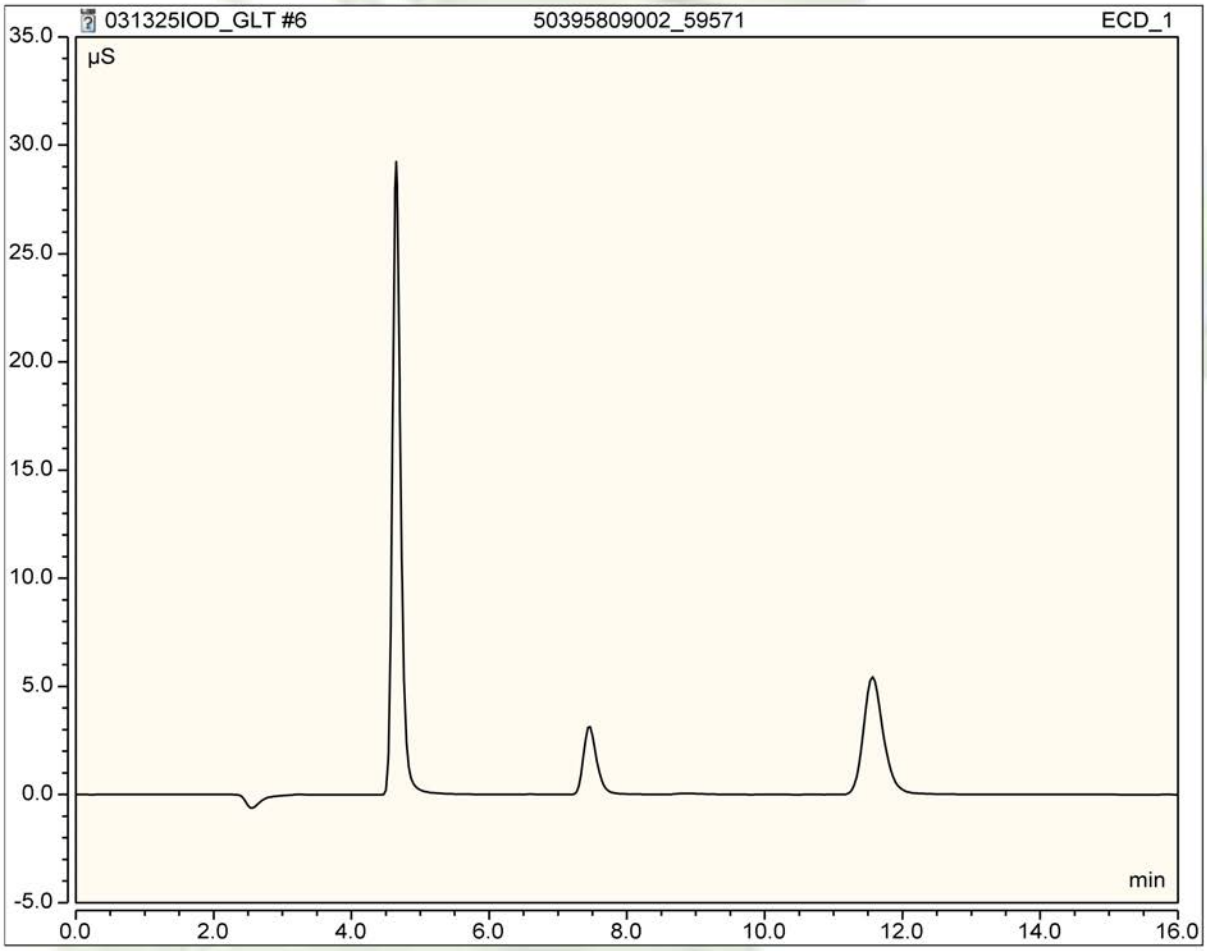
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50395809002_59571

Sample Name:	**50395809002_59571**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RA2*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**407501**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/14/2025 21:21**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

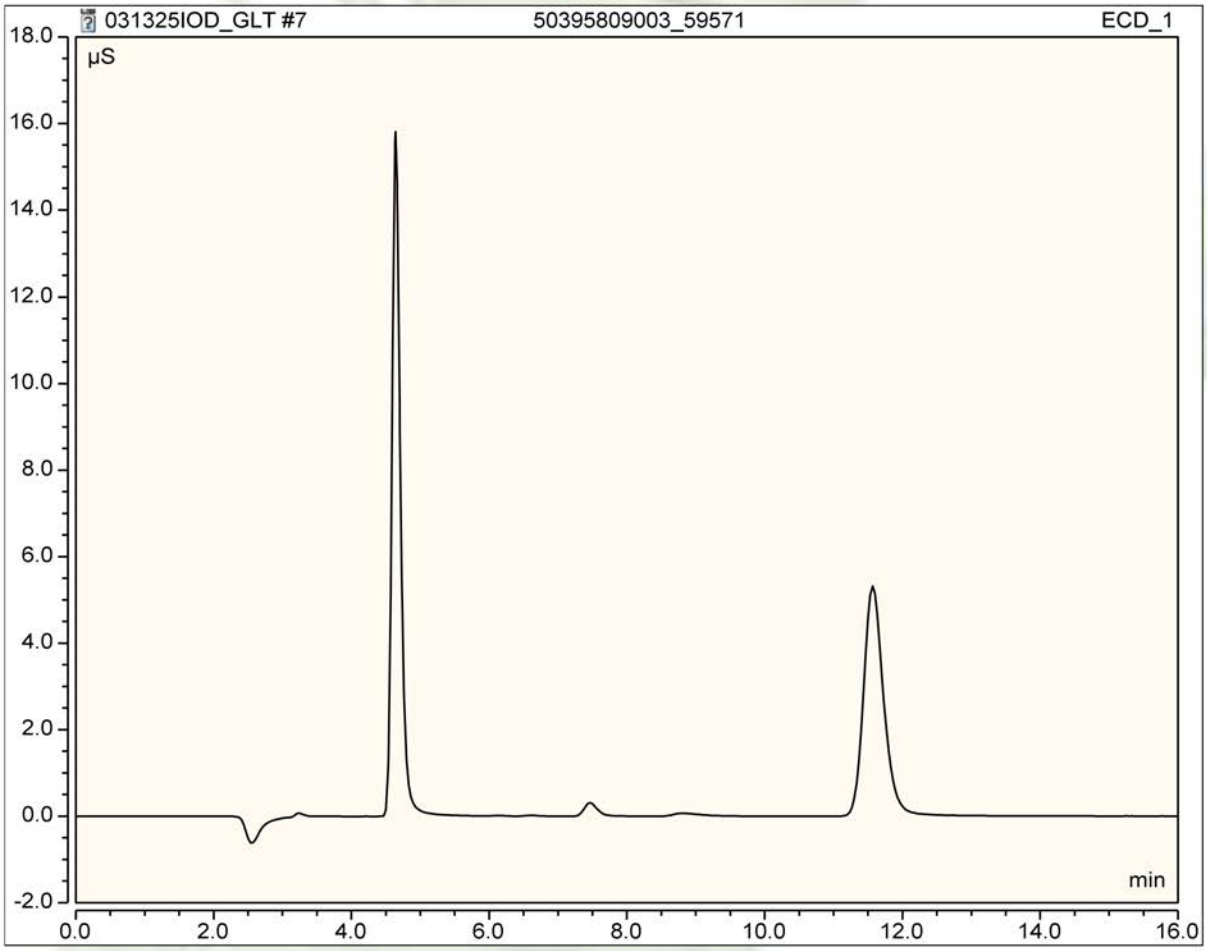
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50395809003_59571

Sample Name:	**50395809003_59571**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RA3*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**407501**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/14/2025 21:39**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

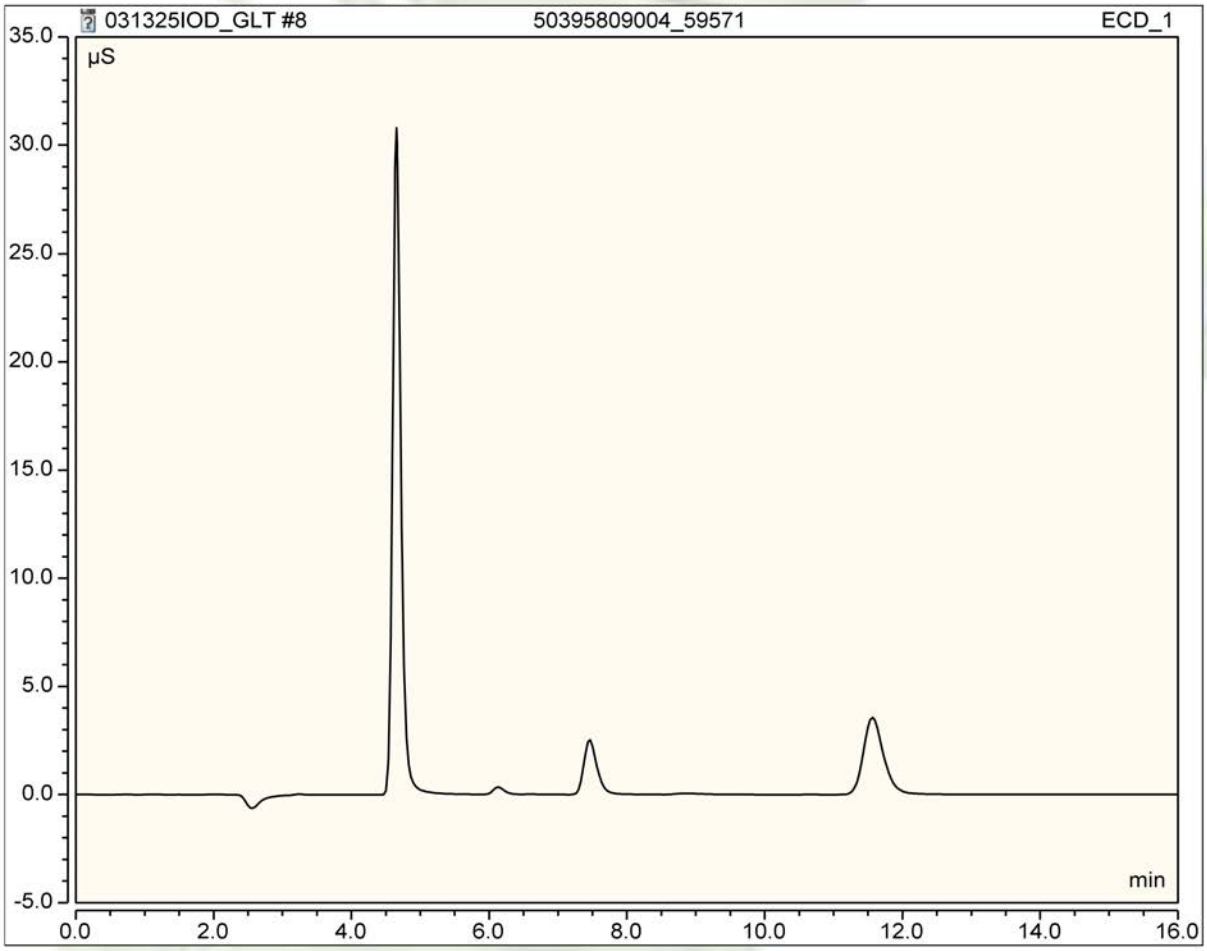
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50395809004_59571
377680

Sample Name:	**50395809004_59571**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RA4*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**407501**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/14/2025 21:57**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

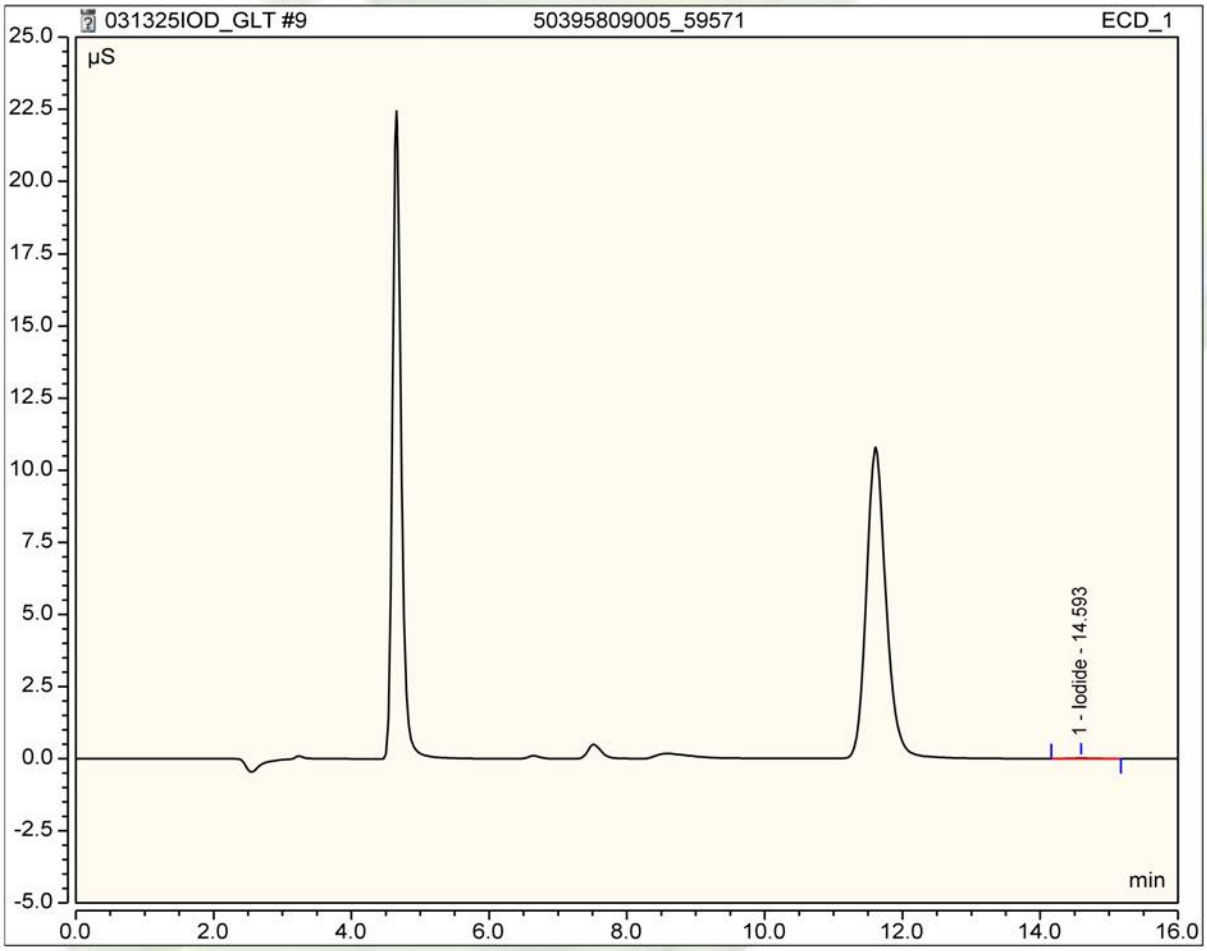
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50395809005_59571
377680

Sample Name:	**50395809005_59571**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RA5*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**407501**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/14/2025 22:16**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

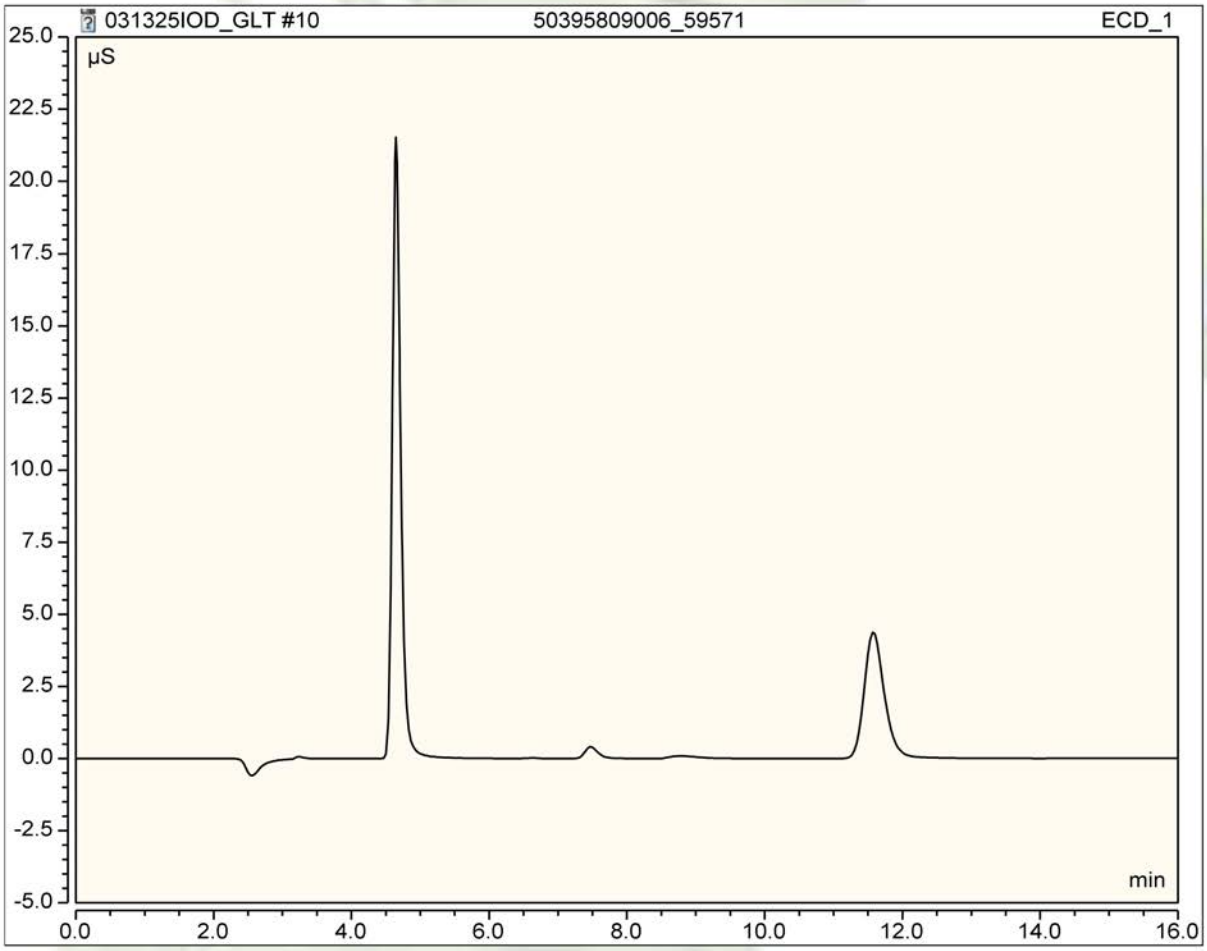
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.59	**Iodide**	0.1703	0.007	0.018	BMB



50395809006_59571

Sample Name:	**50395809006_59571**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RA6*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**407501**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/14/2025 22:34**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

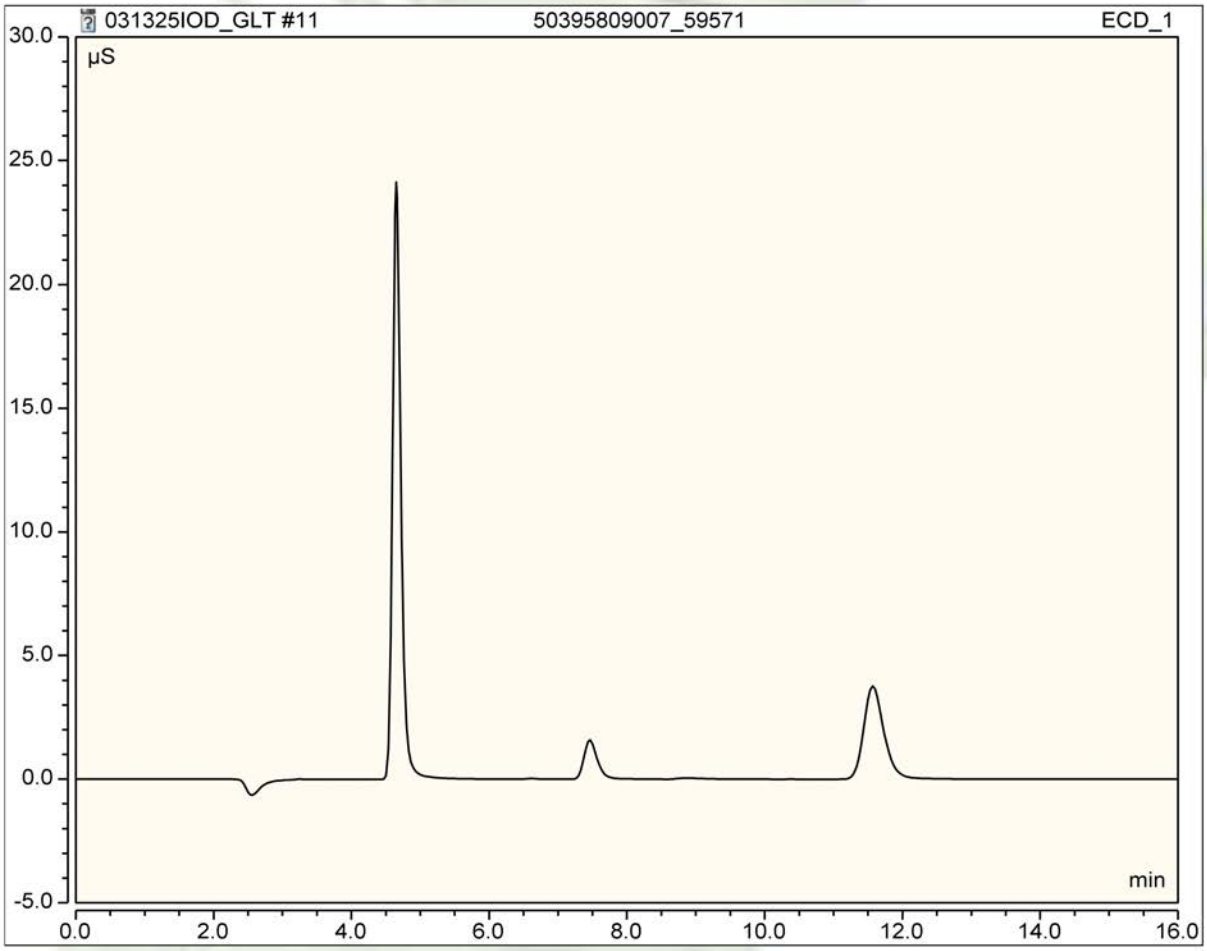
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50395809007_59571

Sample Name:	**50395809007_59571**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RA7*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**407501**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/14/2025 22:52**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

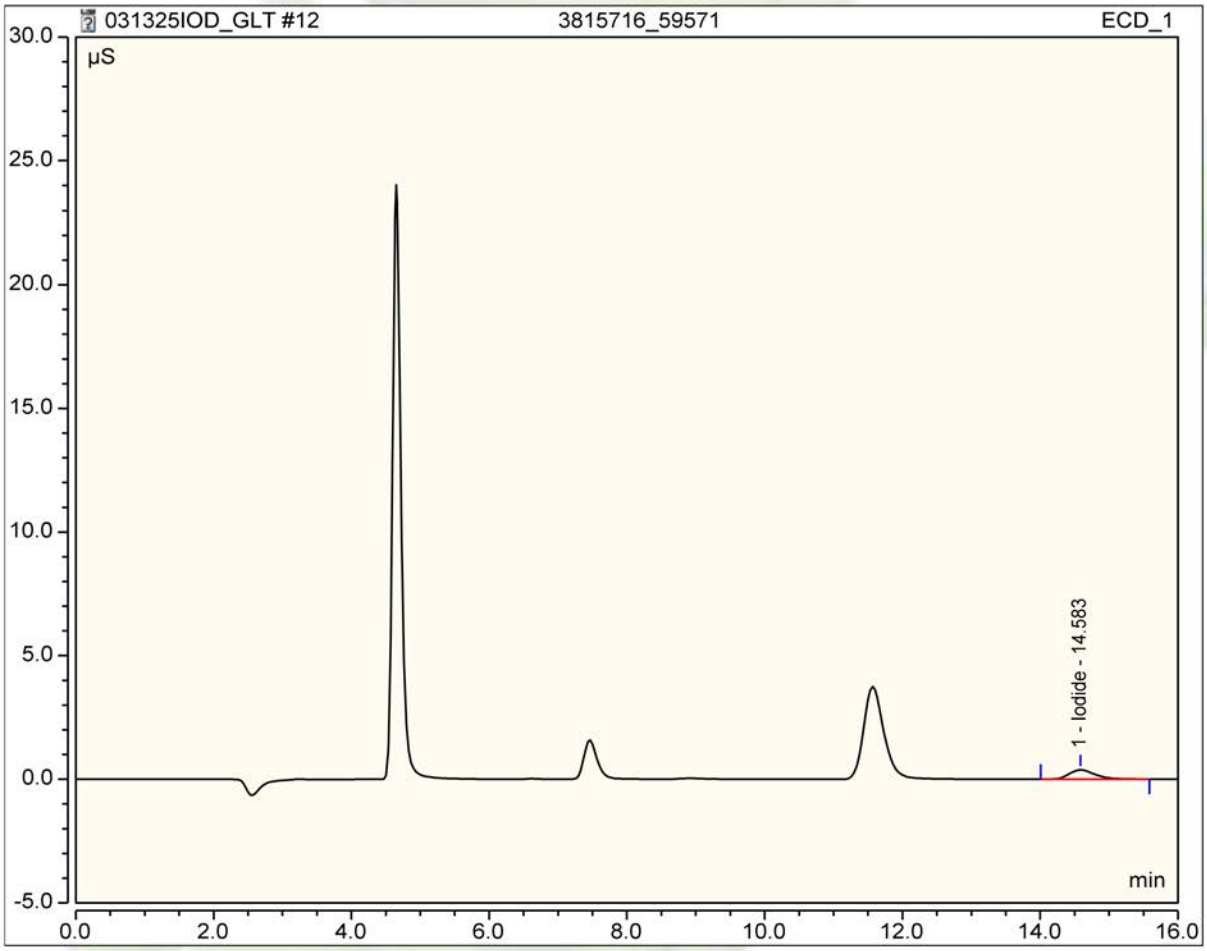
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



3815716_59571

Sample Name:	**3815716_59571**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RA8*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**407501**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/14/2025 23:11**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

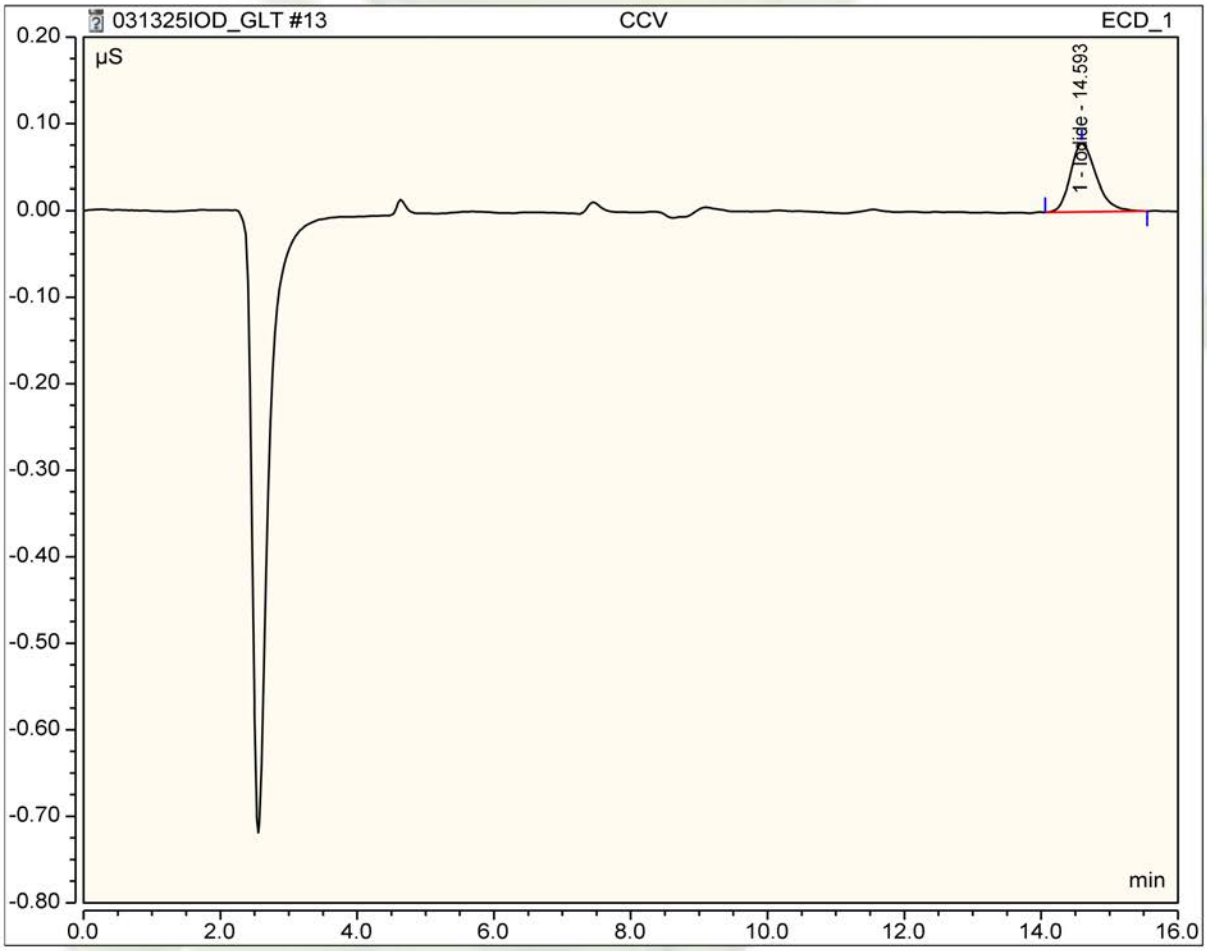
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.58	**Iodide**	4.6979	0.164	0.375	BMB



CCV
407366

Sample Name:	**CCV**	*Injection Volume (uL):*	**25.00**
Vial Number:	*B2*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**407501**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/14/2025 23:29**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

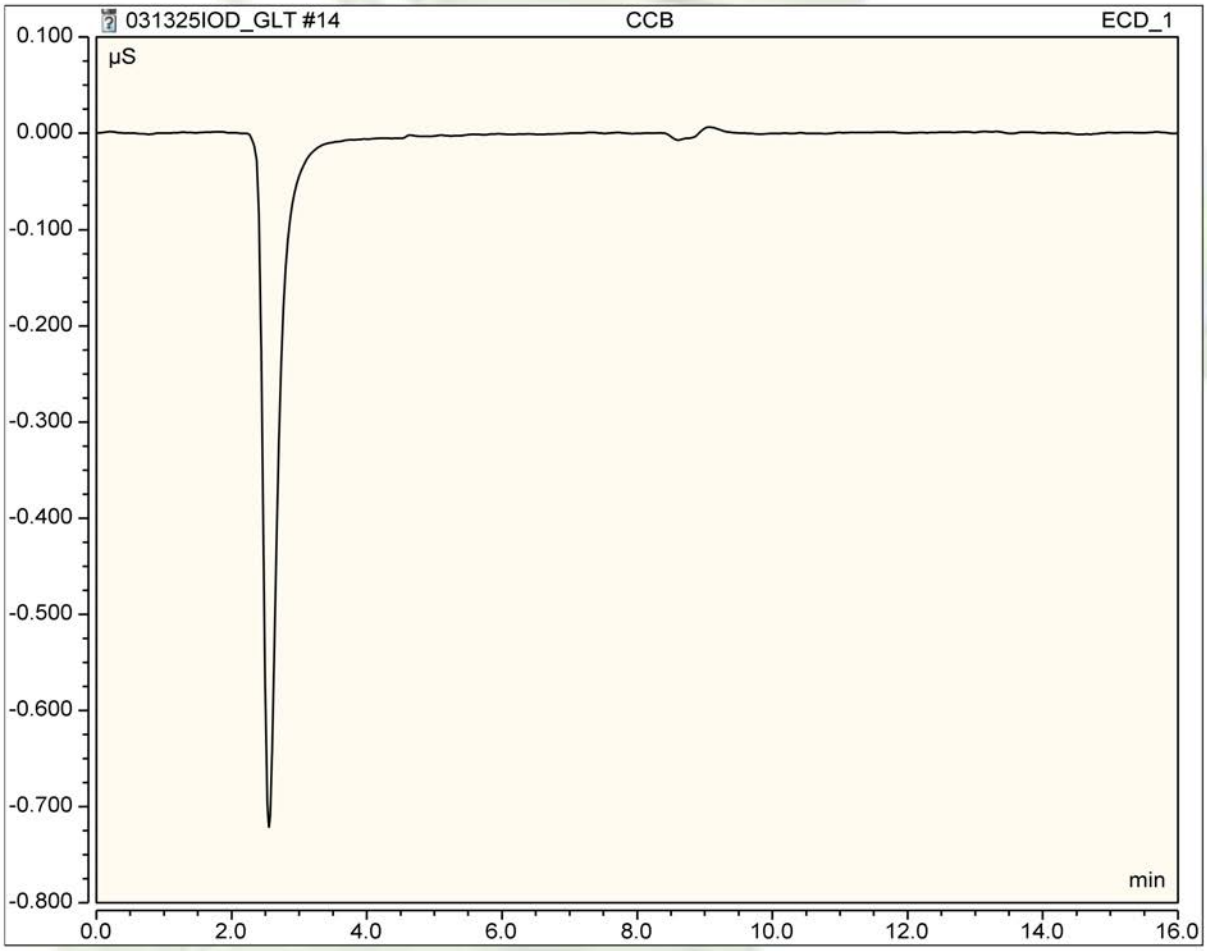
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.59	**Iodide**	0.9491	0.034	0.078	BMB



CCB
340111

Sample Name:	**CCB**	*Injection Volume (uL):*	**25.00**
Vial Number:	*B1*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**407501**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/14/2025 23:47**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

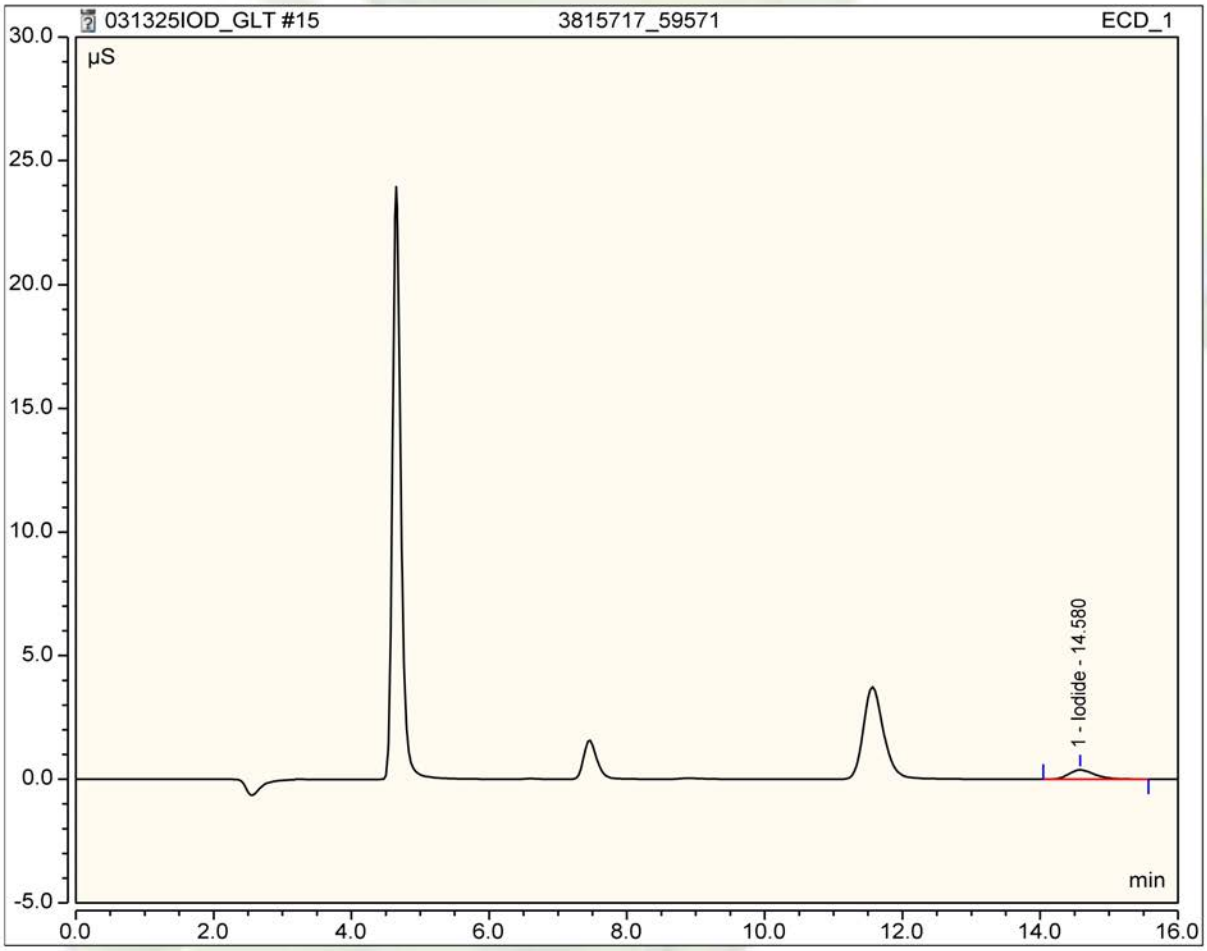
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



3815717_59571

Sample Name:	**3815717_59571**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RA8*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**407501**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/15/2025 00:06**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

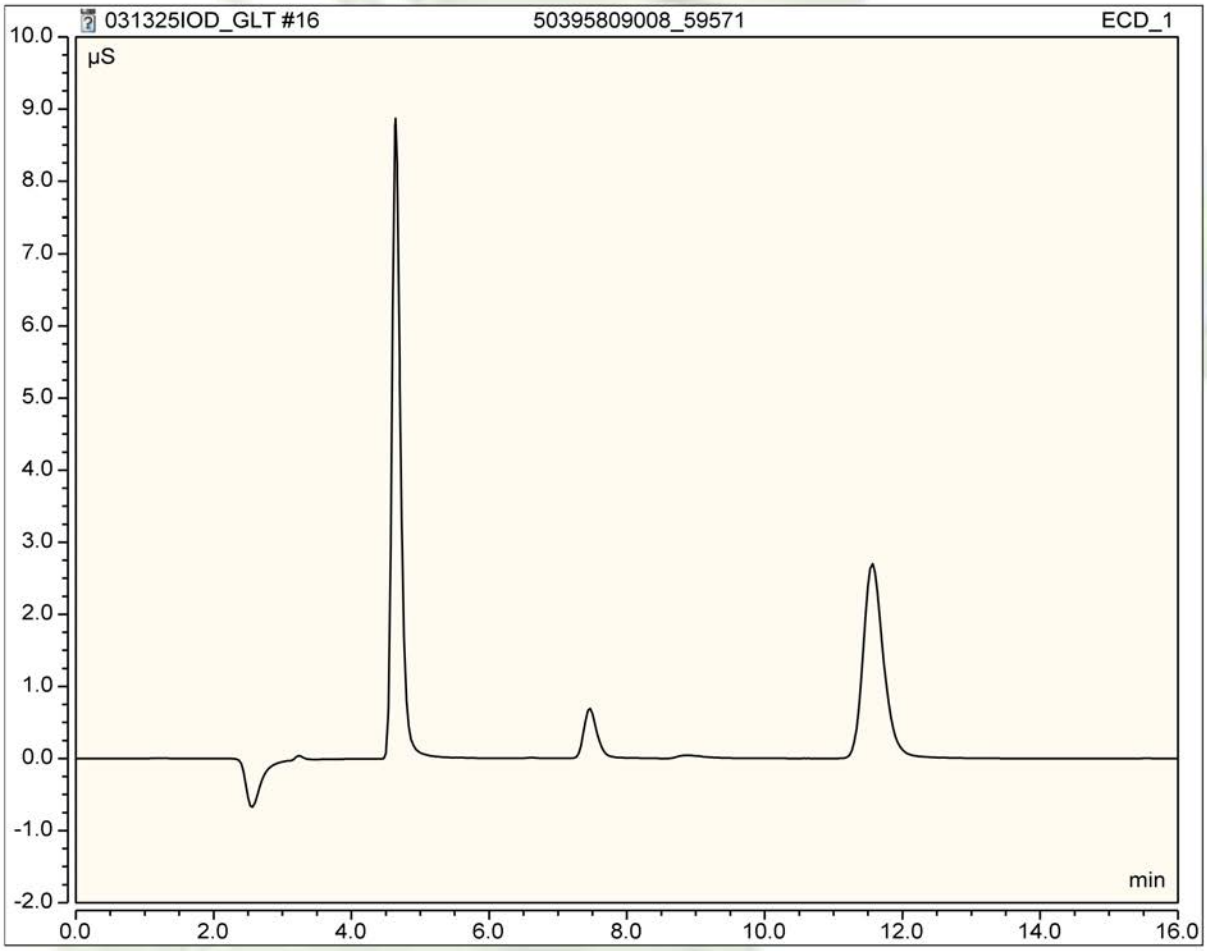
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.58	**Iodide**	4.6893	0.164	0.374	BMB



50395809008_59571

Sample Name:	**50395809008_59571**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RB1*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**407501**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/15/2025 00:24**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

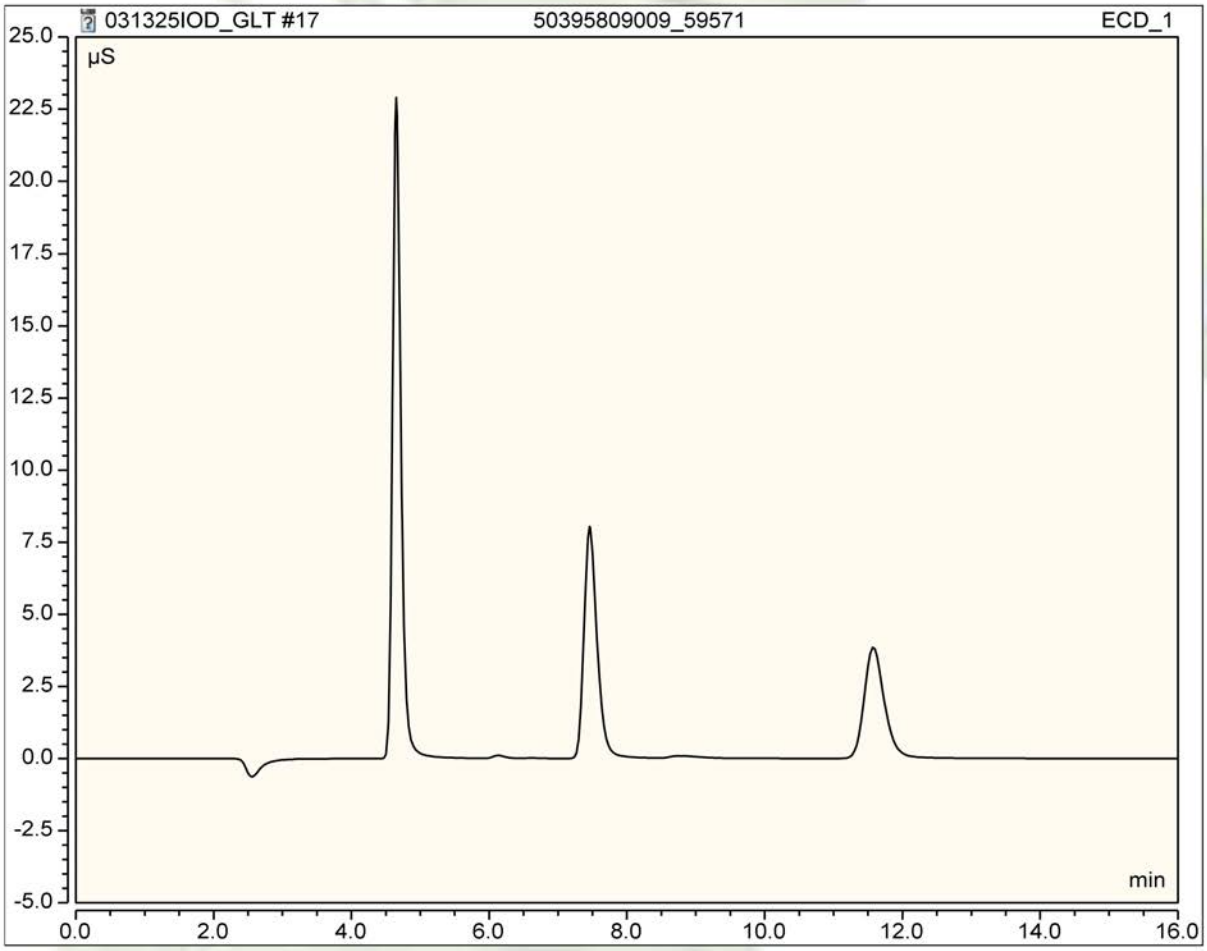
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50395809009_59571

Sample Name:	**50395809009_59571**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RB2*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**407501**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/15/2025 00:42**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

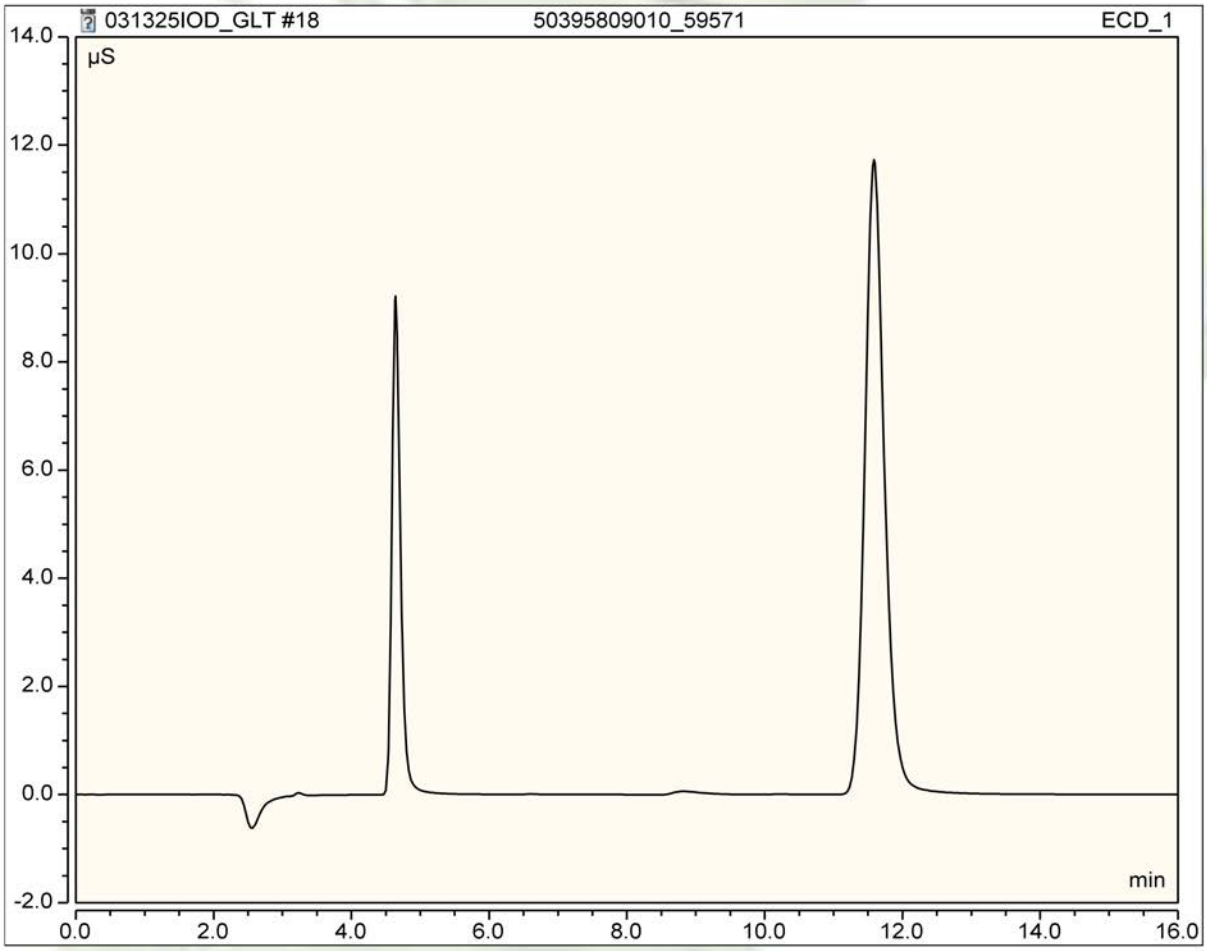
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50395809010_59571

Sample Name:	**50395809010_59571**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RB3*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**407501**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/15/2025 01:00**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

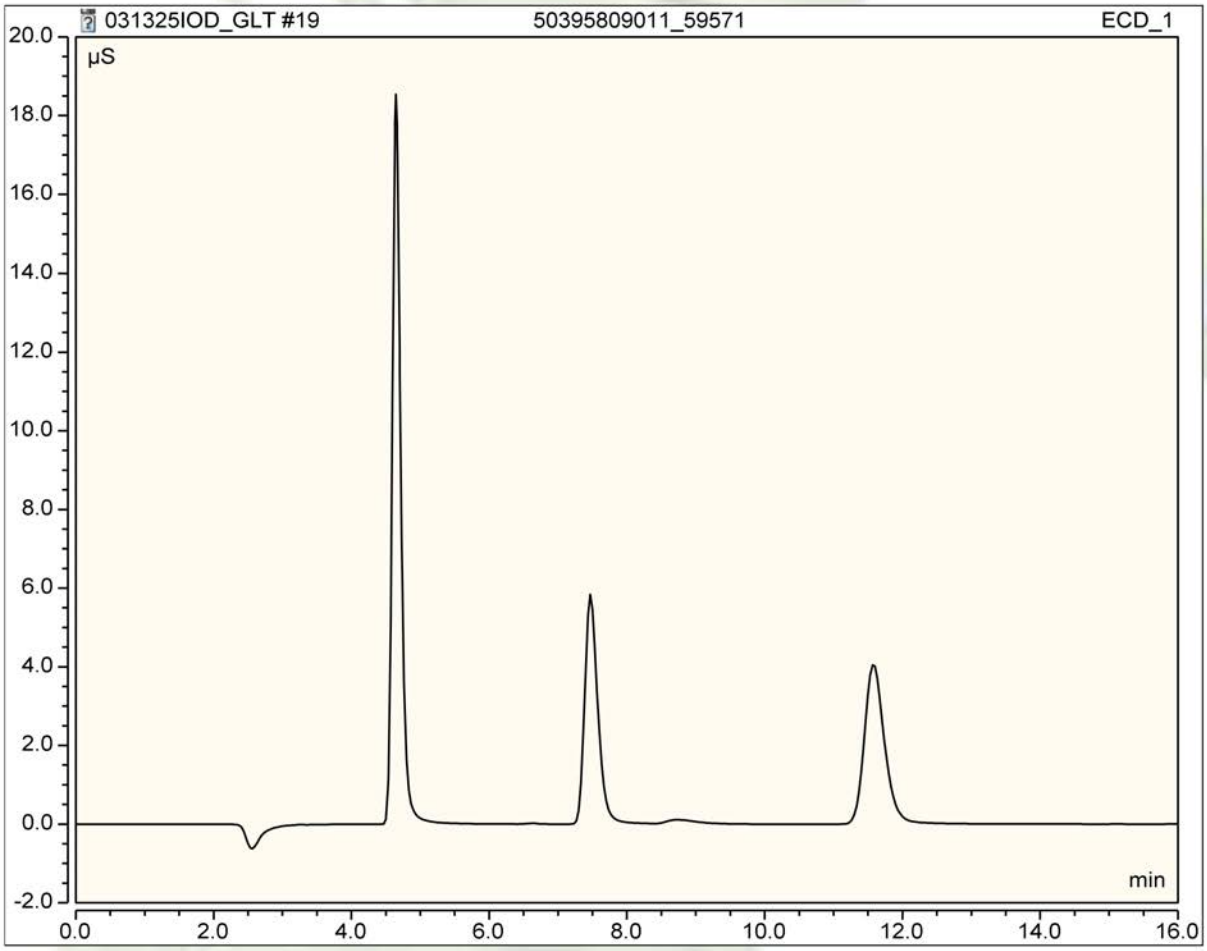
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50395809011_59571

Sample Name:	**50395809011_59571**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RB4*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**407501**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/15/2025 01:19**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

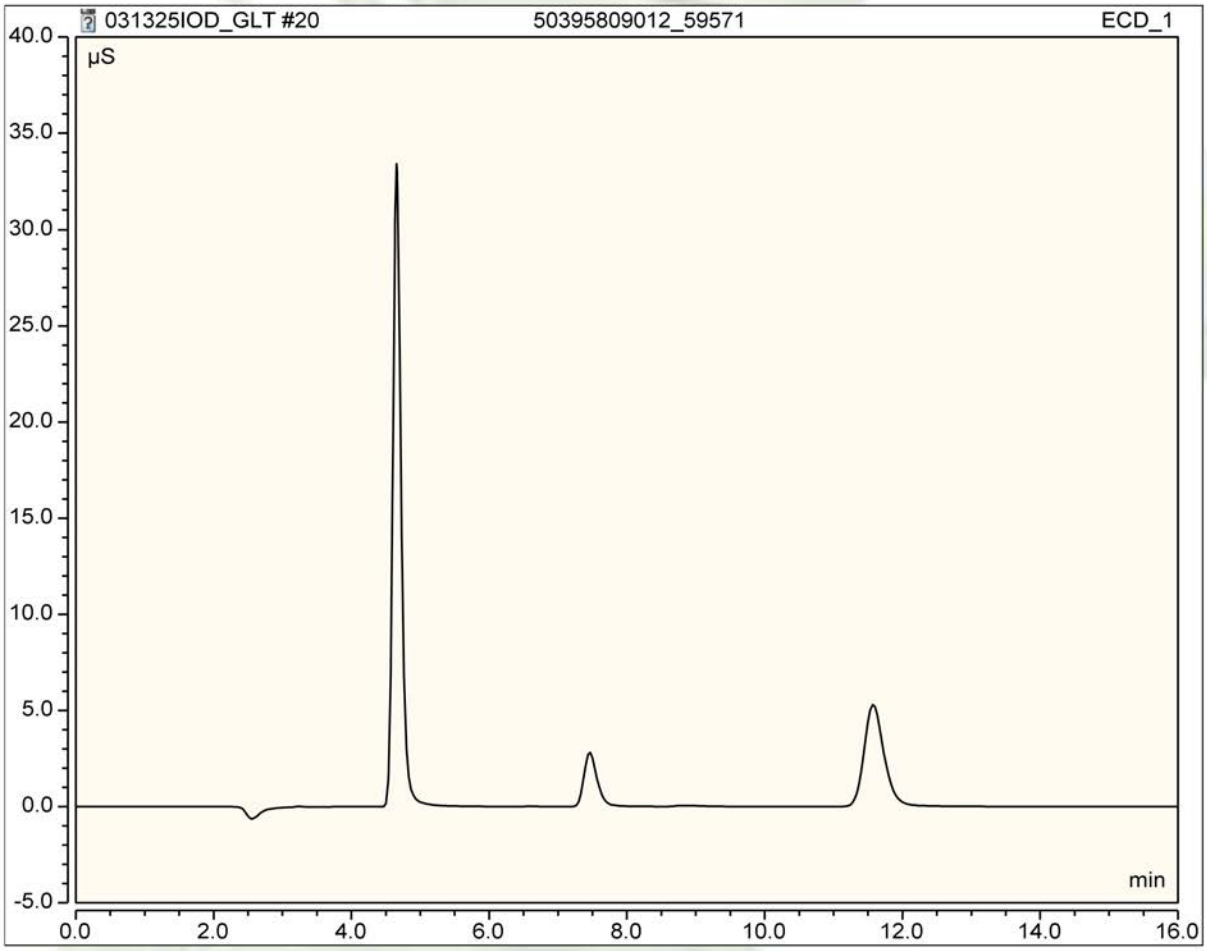
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50395809012_59571

Sample Name:	**50395809012_59571**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RB5*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**407501**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/15/2025 01:37**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

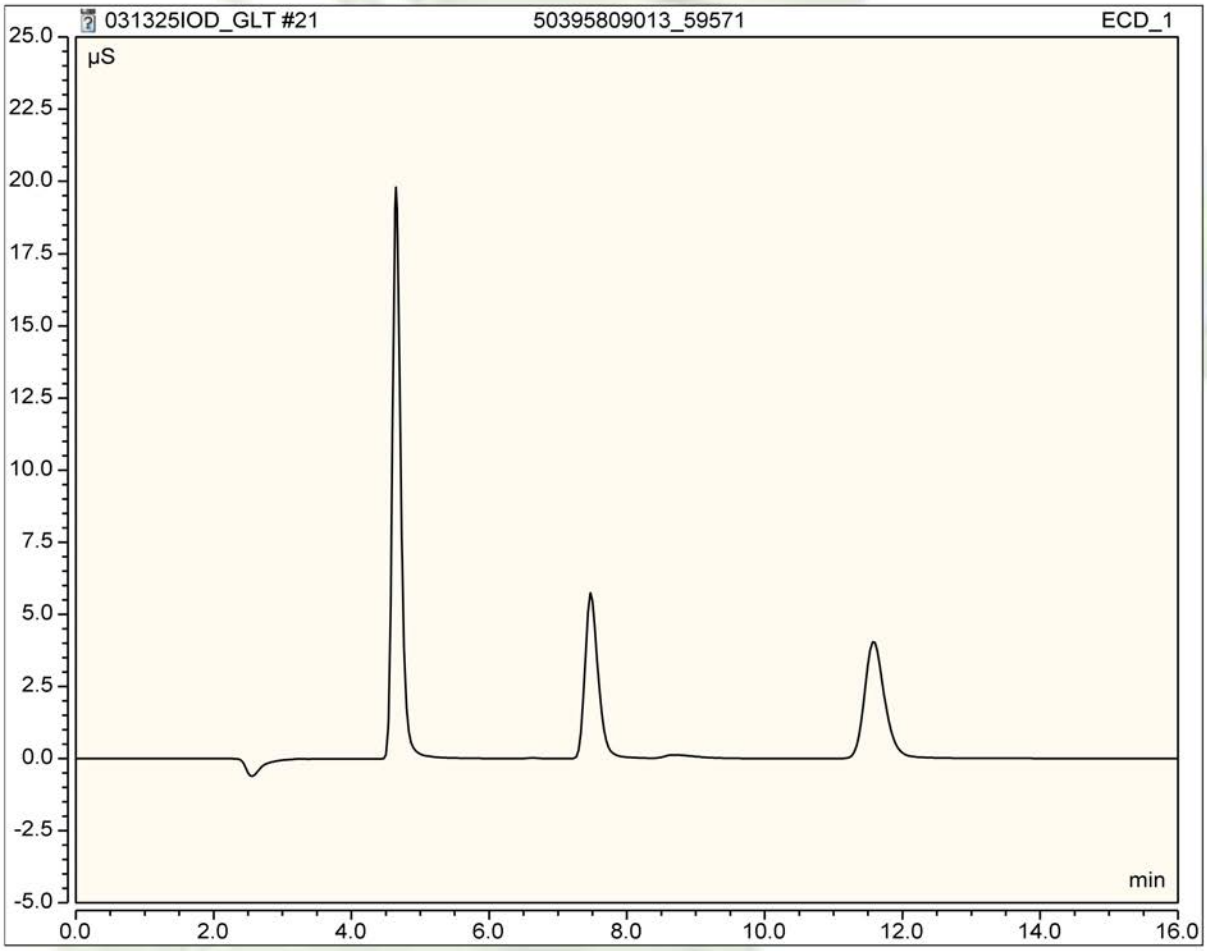
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50395809013_59571

Sample Name:	**50395809013_59571**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RB6*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**407501**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/15/2025 01:55**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

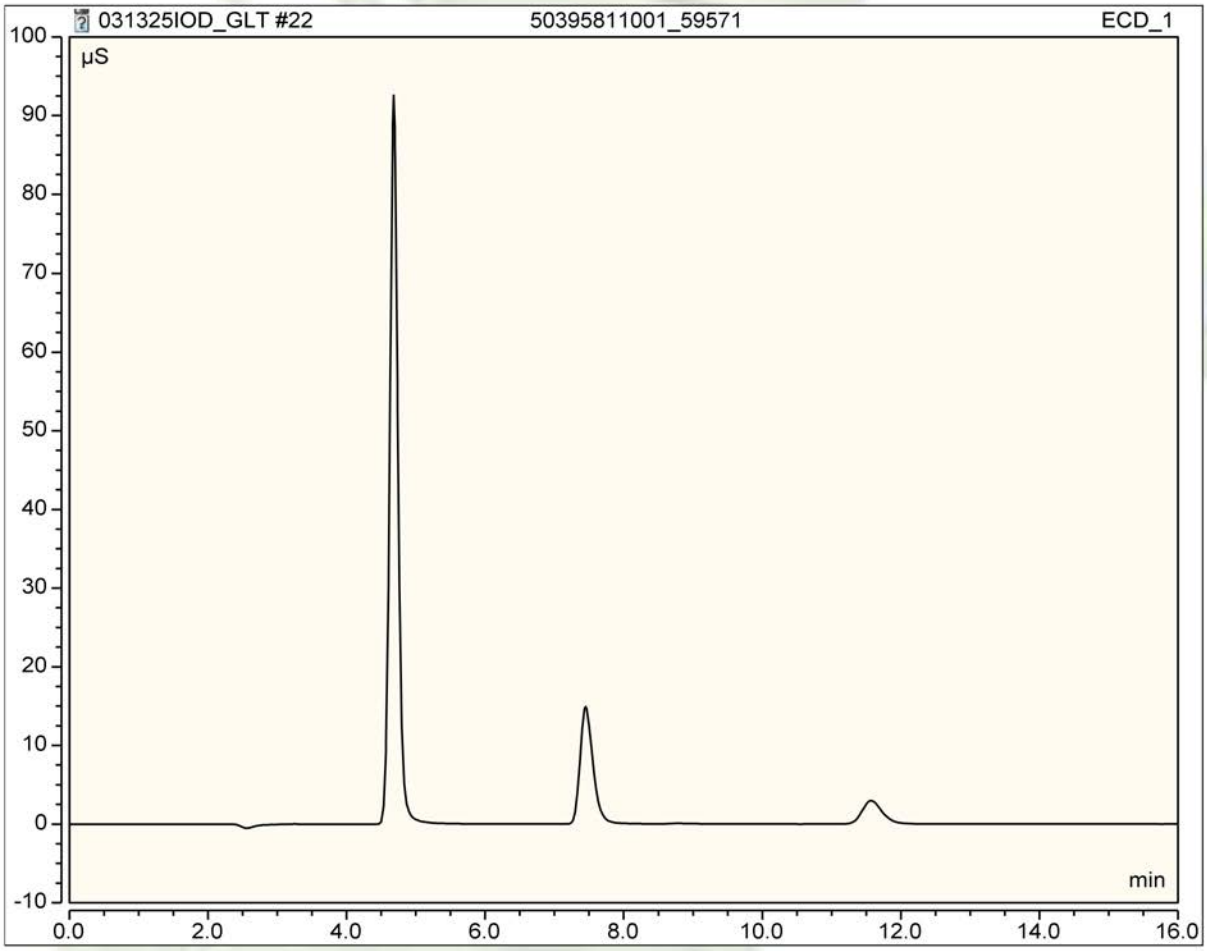
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50395811001_59571

Sample Name:	**50395811001_59571**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RB7*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**407501**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/15/2025 02:13**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

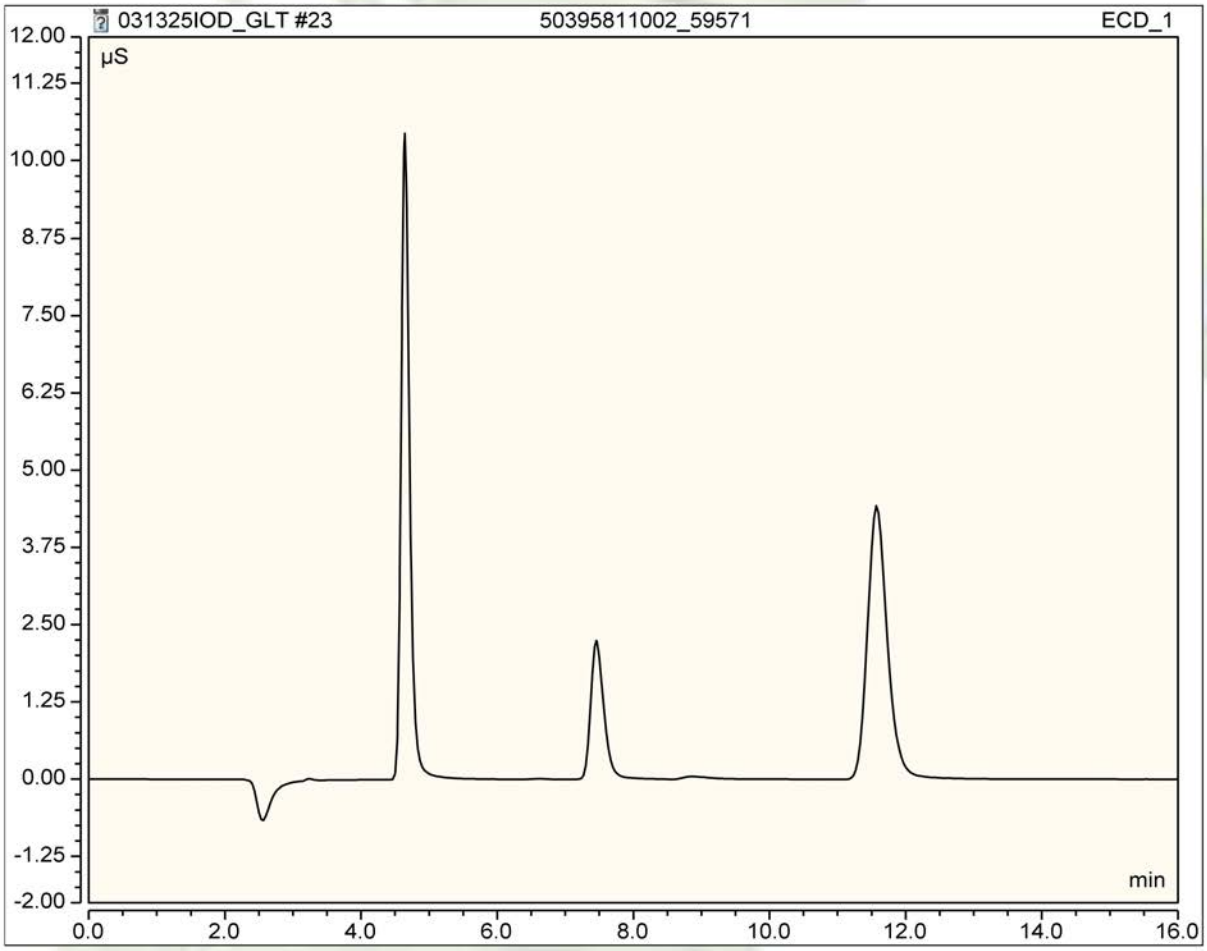
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50395811002_59571

Sample Name:	**50395811002_59571**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RB8*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**407501**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/15/2025 02:32**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

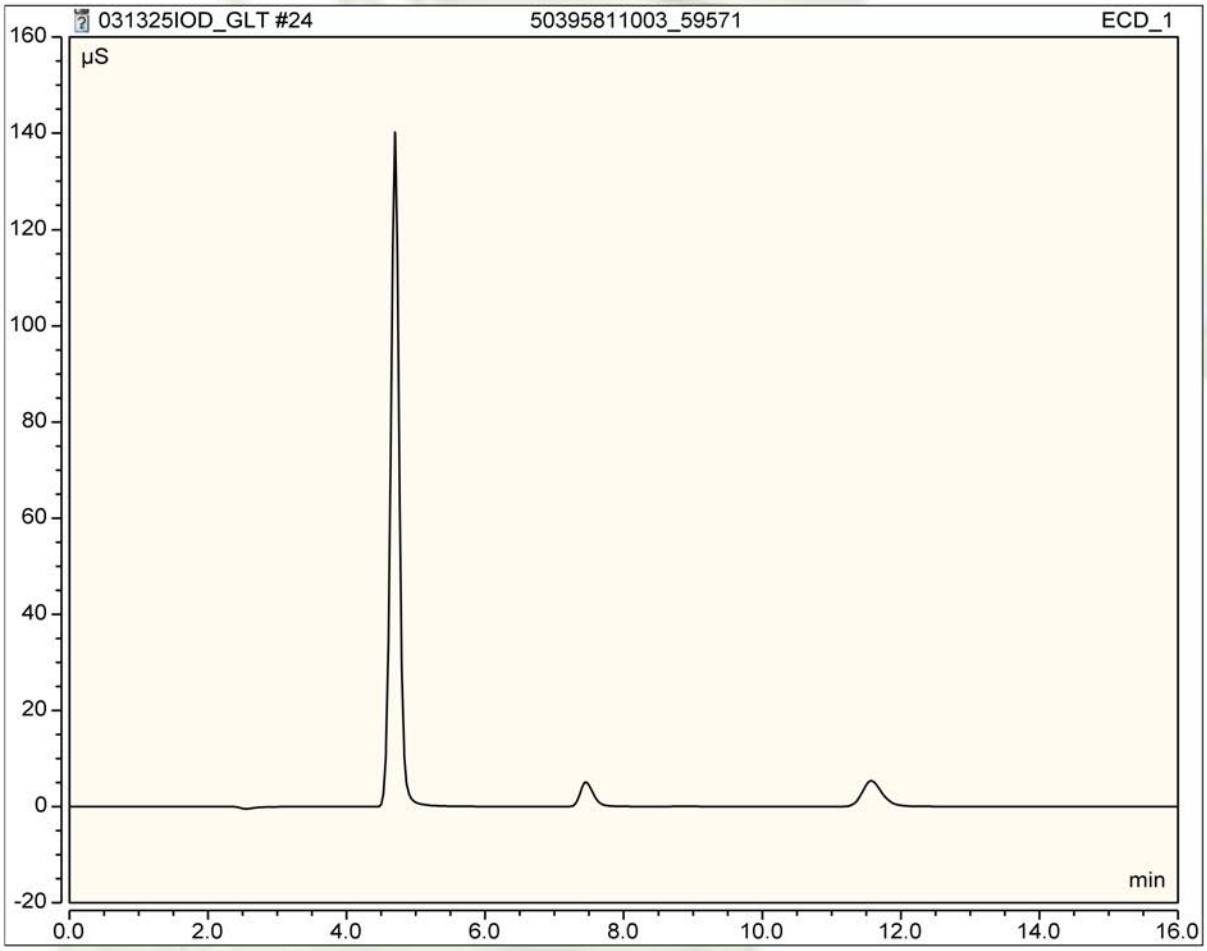
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50395811003_59571

Sample Name:	**50395811003_59571**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RC1*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**407501**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/15/2025 02:50**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

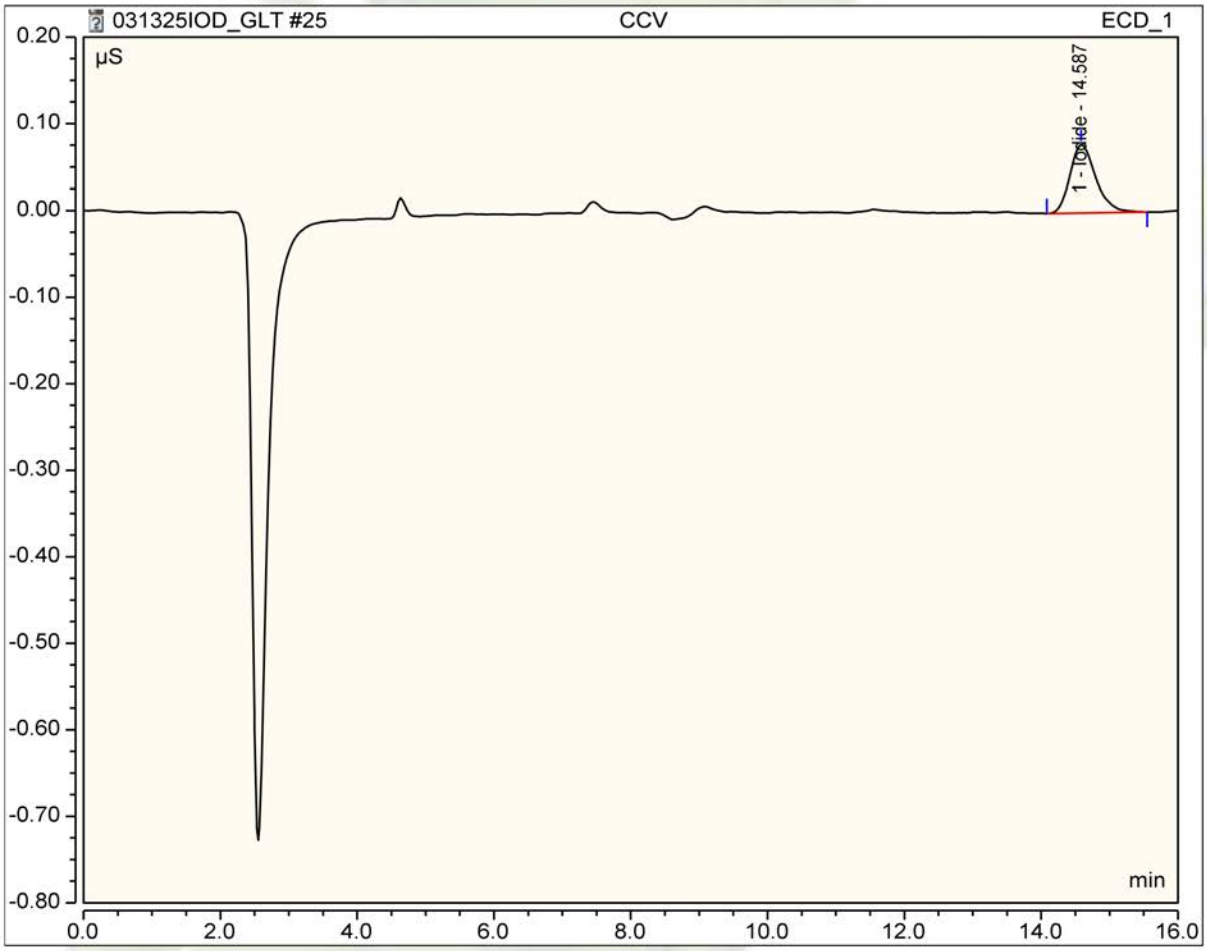
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



CCV
407366

Sample Name:	**CCV**	*Injection Volume (uL):*	**25.00**
Vial Number:	*B2*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**407501**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/15/2025 03:08**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

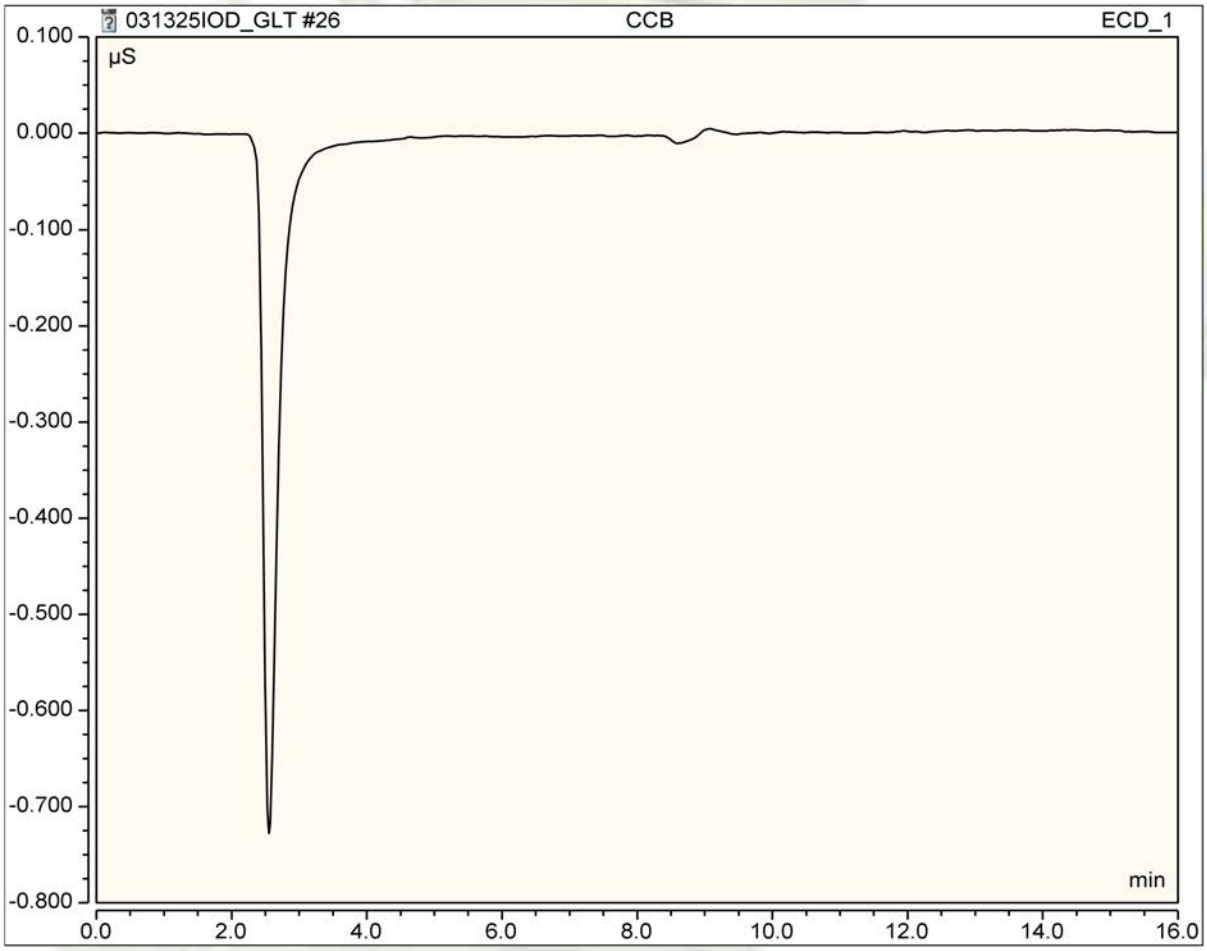
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.59	**Iodide**	0.9502	0.034	0.078	BMB



CCB
340111

Sample Name:	**CCB**	*Injection Volume (uL):*	**25.00**
Vial Number:	*B1*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**407501**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/15/2025 03:27**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

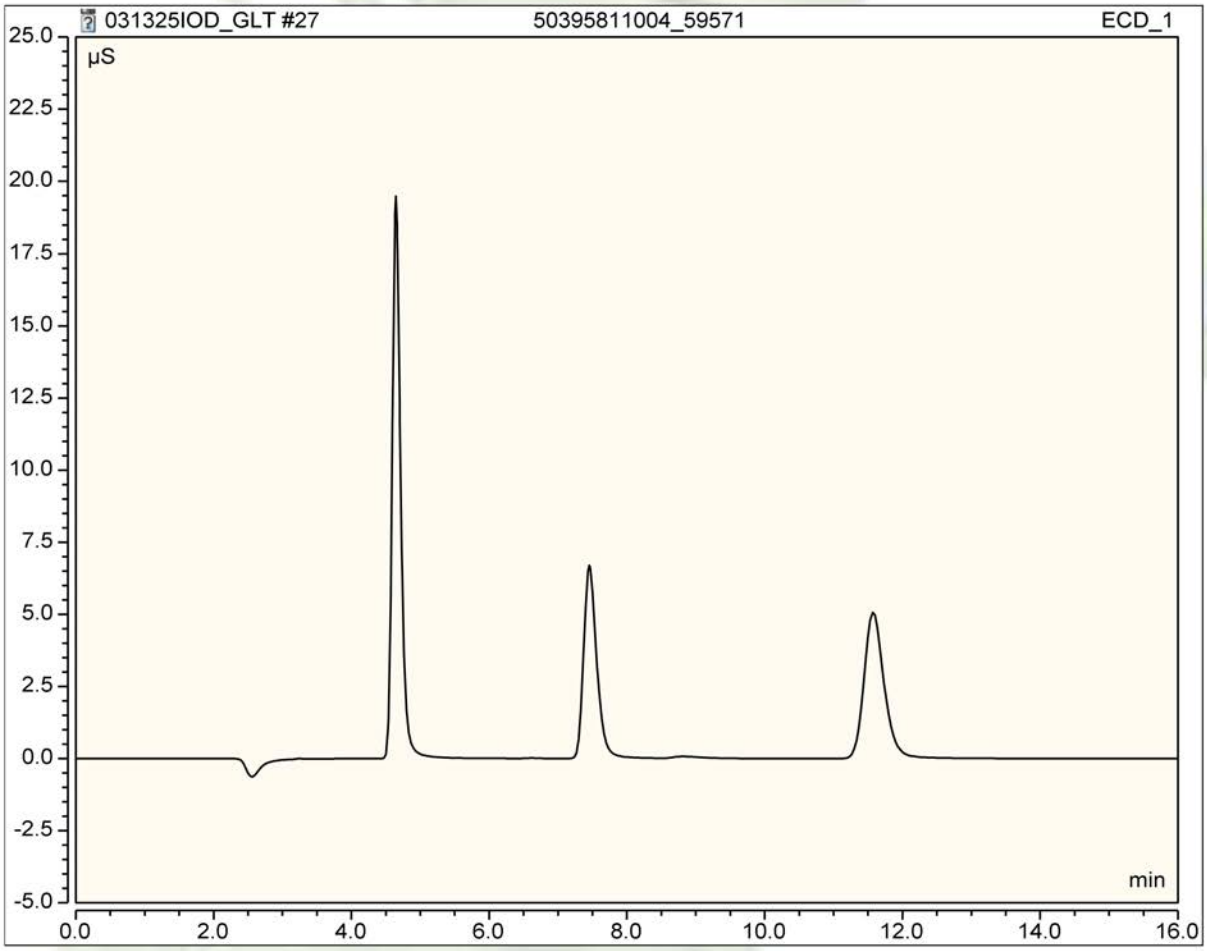
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50395811004_59571
340111

Sample Name:	**50395811004_59571**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RC2*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**407501**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/15/2025 03:45**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

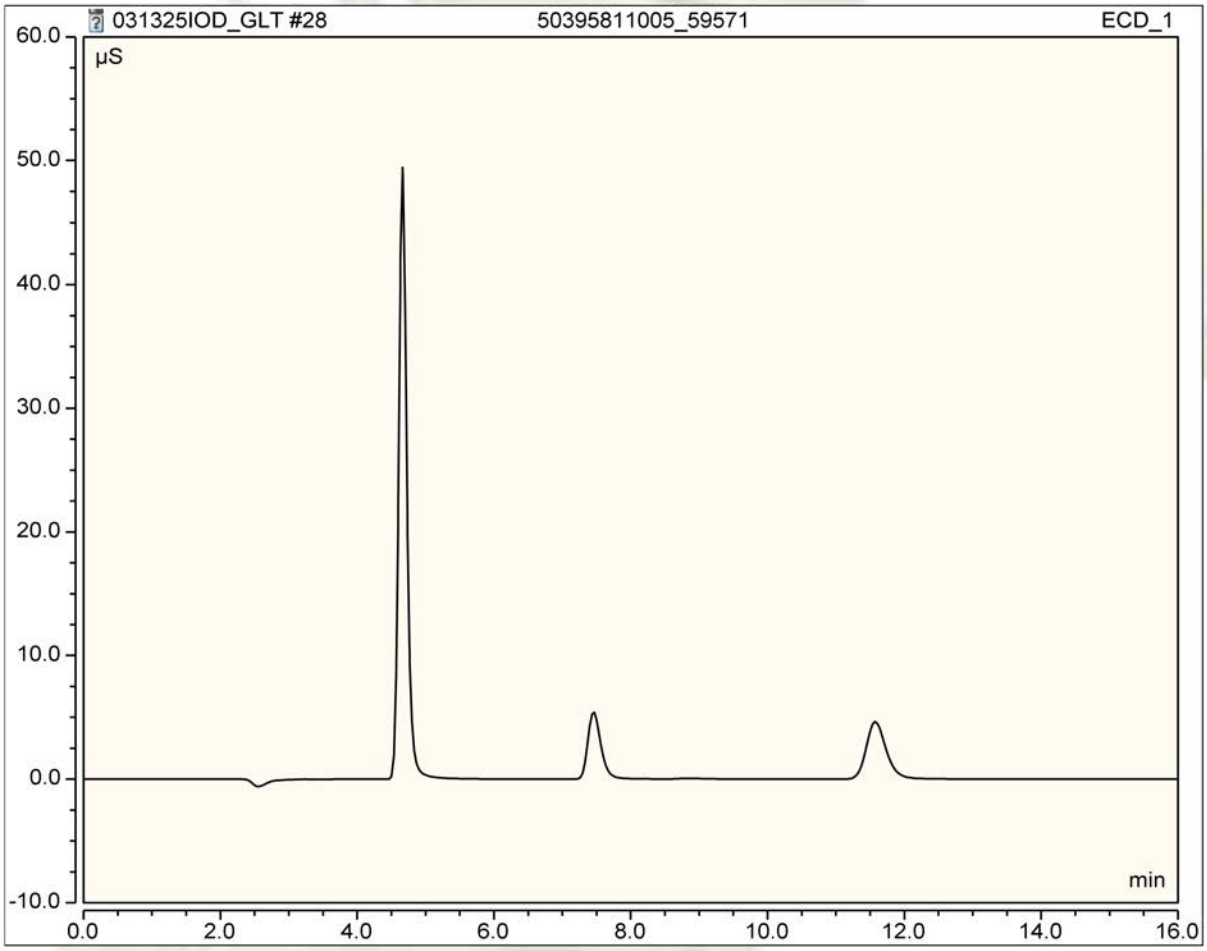
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50395811005_59571
340111

Sample Name:	**50395811005_59571**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RC3*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**407501**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/15/2025 04:03**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

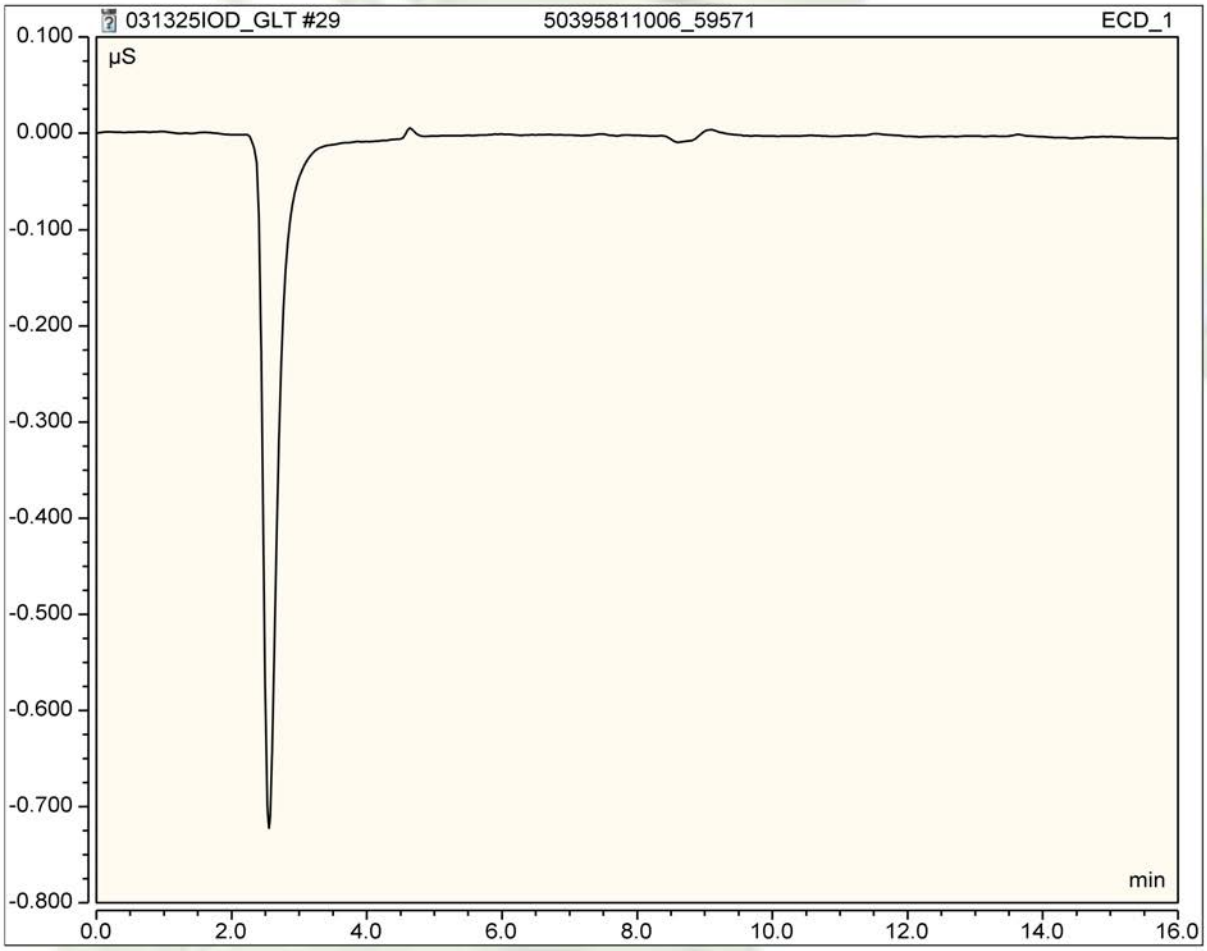
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



50395811006_59571
340111

Sample Name:	**50395811006_59571**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RC4*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**407501**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/15/2025 04:22**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

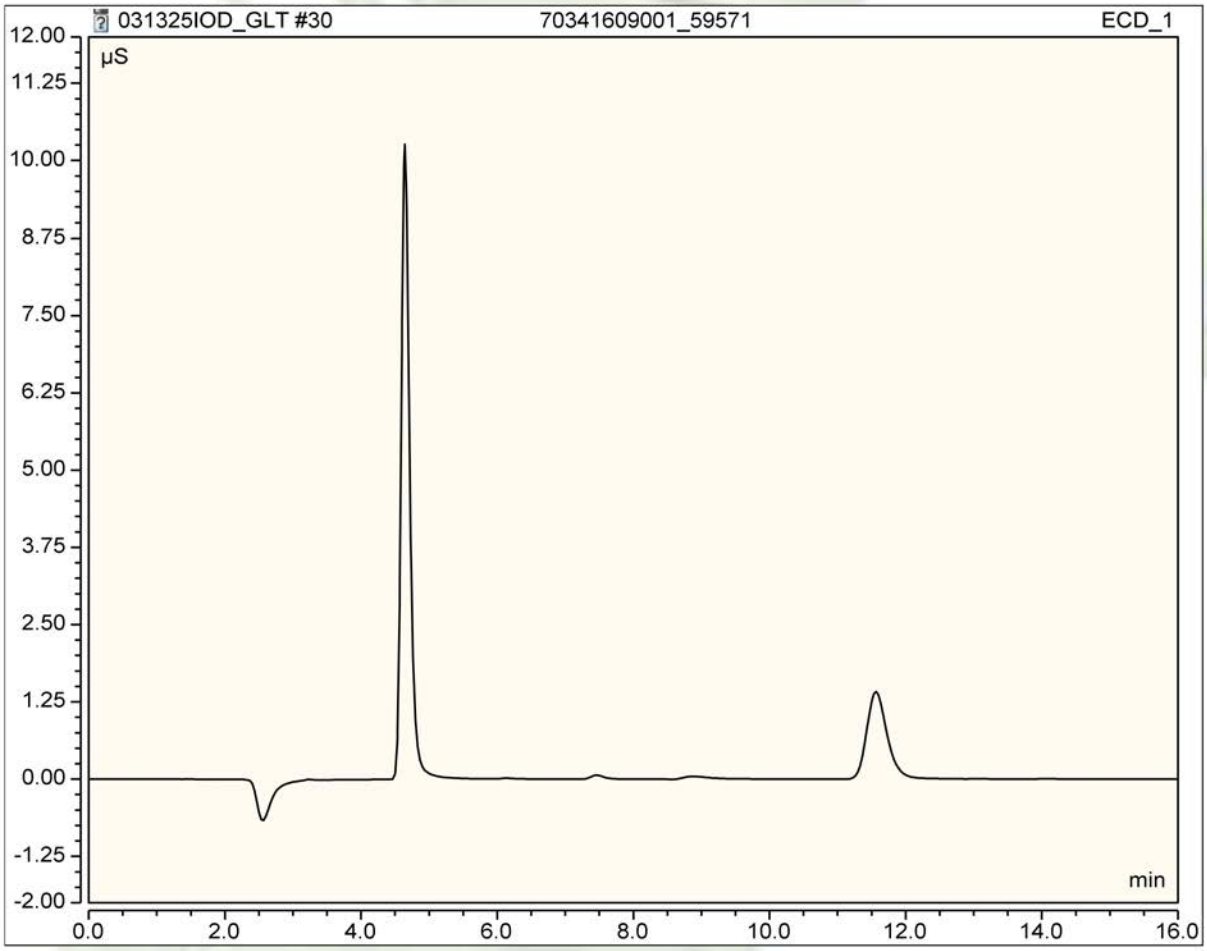
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



70341609001_59571
340111

Sample Name:	**70341609001_59571**	*Injection Volume (uL):*	**25.00**
Vial Number:	*RC5*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**407501**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/15/2025 04:40**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

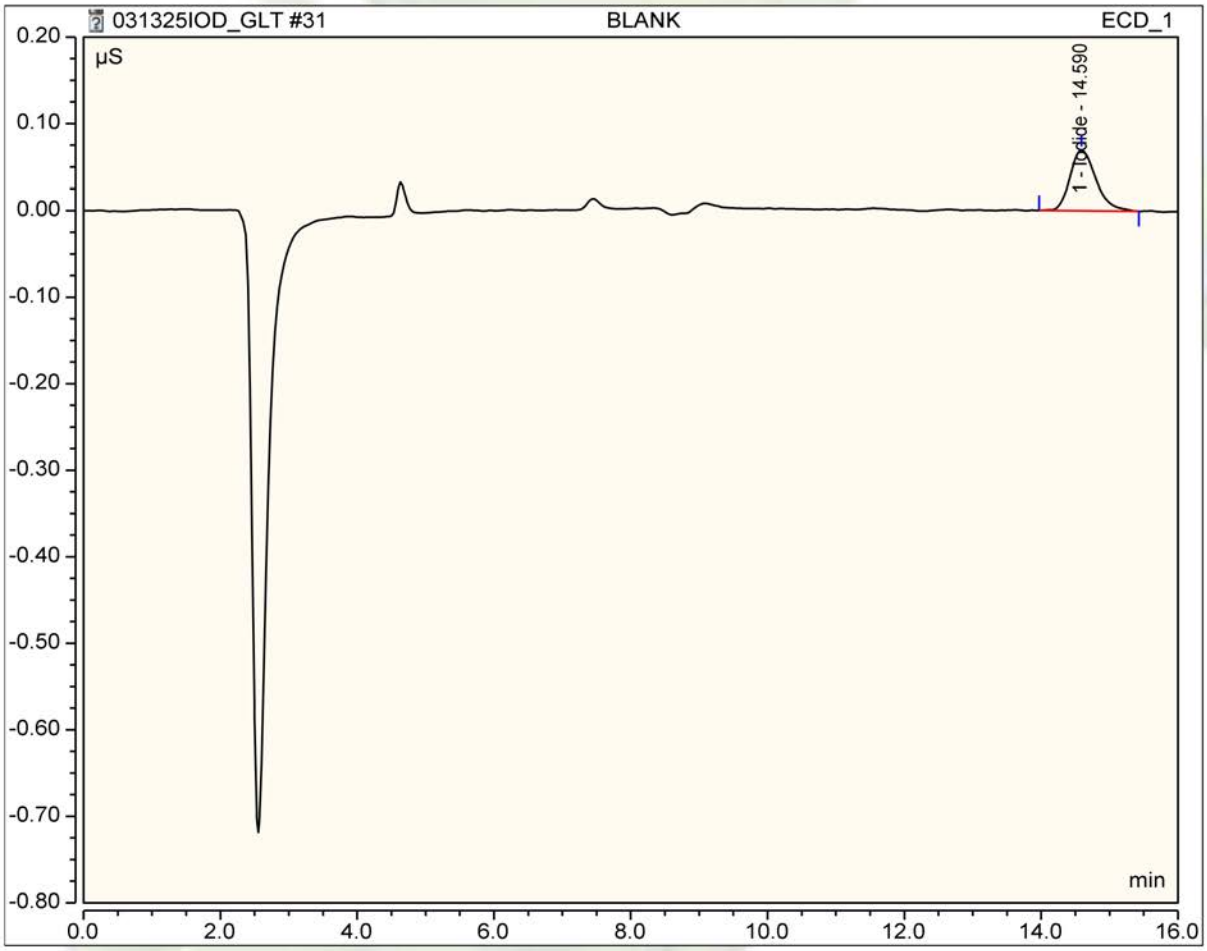
No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type



BLANK
340111

Sample Name:	**BLANK**	*Injection Volume (uL):*	**25.00**
Vial Number:	*B2*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**407501**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/15/2025 04:58**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

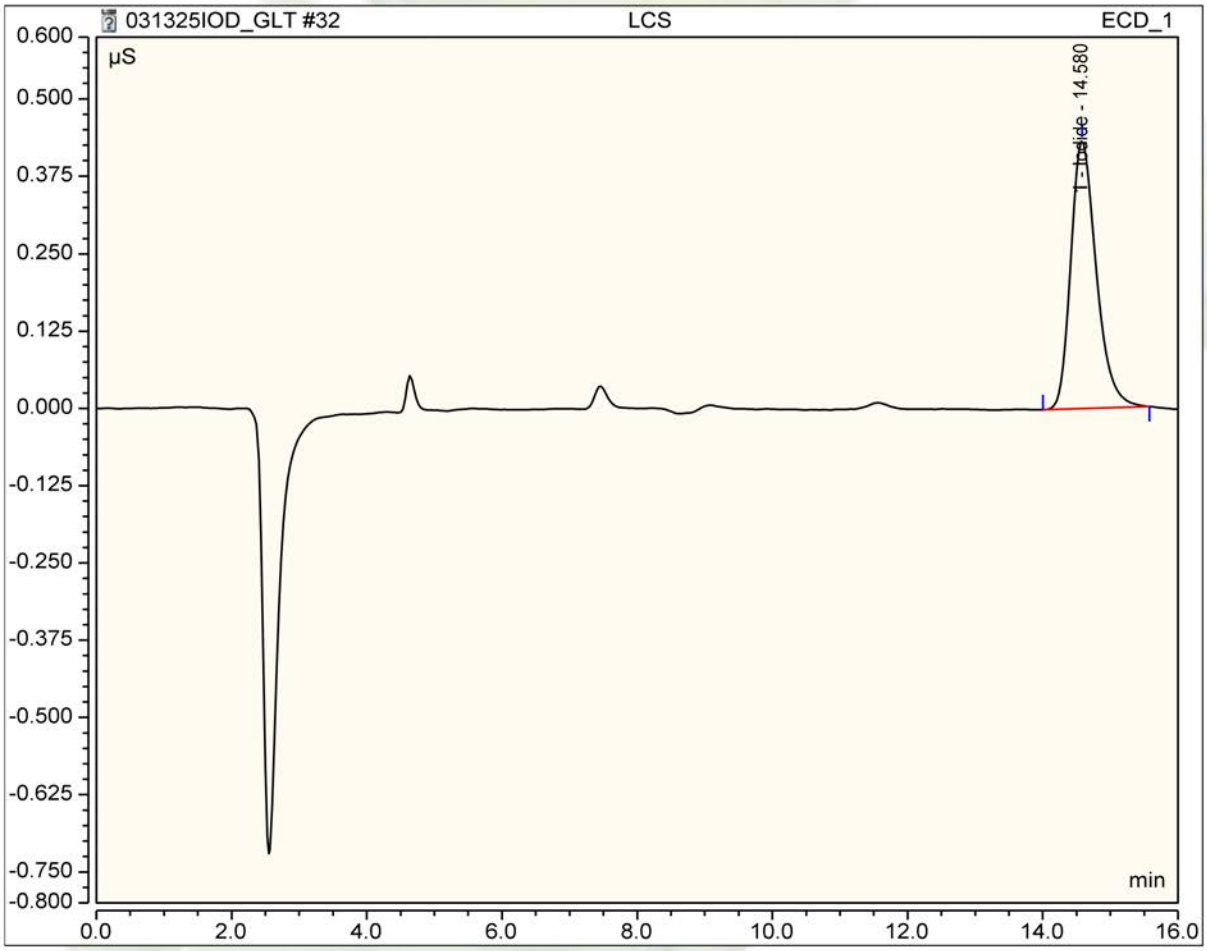
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.59	**Iodide**	0.8391	0.031	0.070	BMB



LCS
377680

Sample Name:	**LCS**	*Injection Volume (uL):*	**25.00**
Vial Number:	*B3*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**407501**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/15/2025 05:16**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

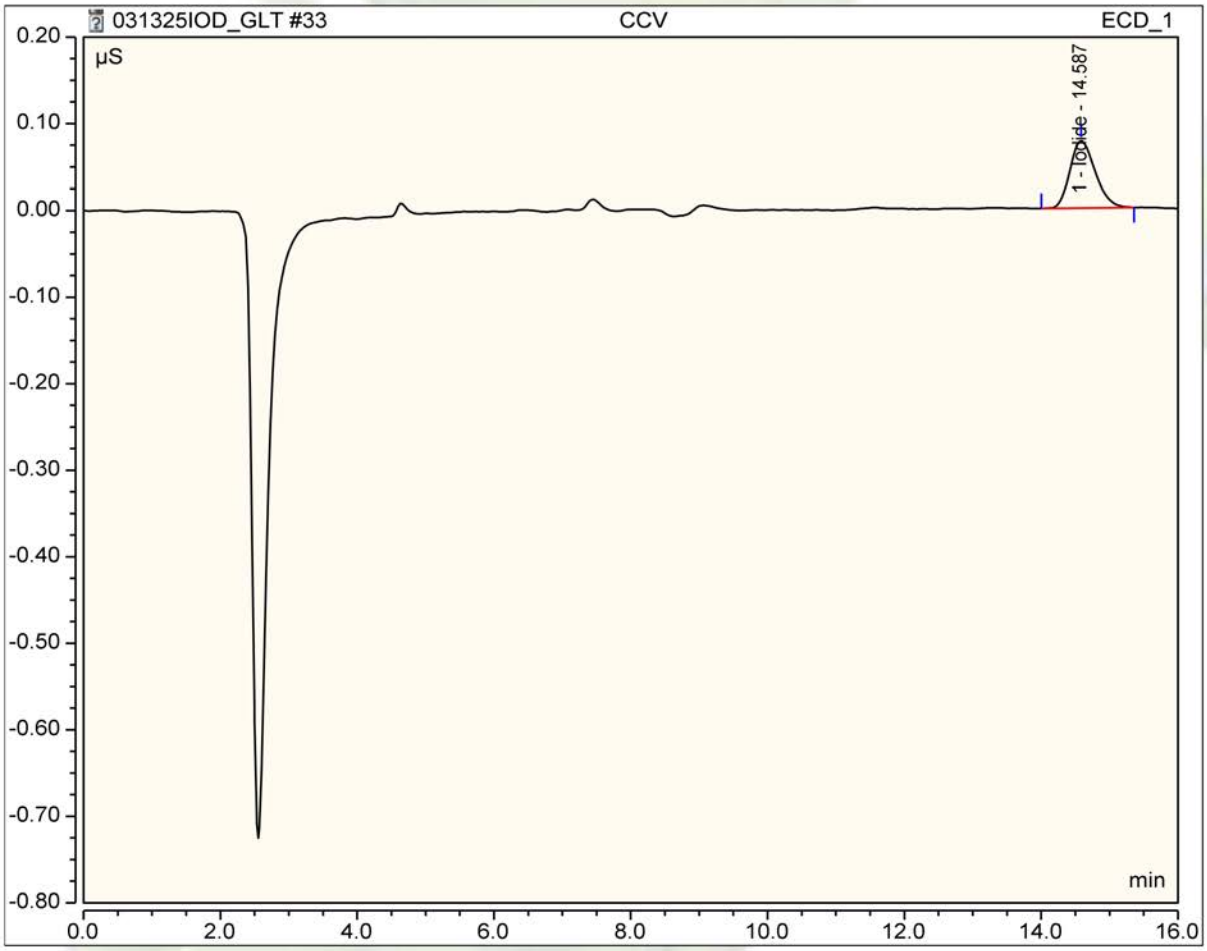
No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.58	**Iodide**	5.4422	0.190	0.432	BMB



CCV
407366

Sample Name:	**CCV**	*Injection Volume (uL):*	**25.00**
Vial Number:	*B2*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**407501**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/15/2025 05:35**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

No.	Retention Time min	Name	Amount mg/L	Area µS*min	Height µS	Type
1	14.59	**Iodide**	0.9132	0.033	0.077	BMB



CCB
340111

Sample Name:	**CCB**	*Injection Volume (uL):*	**25.00**
Vial Number:	*B1*	*Channel:*	**ECD_1**
Sample Type:	*Unknown*	*Calibration:*	**01/13/25 14:21**
Control Program:	*50IC05IOD-AS22*	*Eluent Stock:*	**407501**
Quantif. Method:	*CAL_IODIDE05*	*Dilution Factor*	**1.0000**
Recording Time:	**03/15/2025 05:53**	*Sample Weight:*	**1.0000**
Run Time (min):	*16.00*	*System Name:*	**50IC05**

No.	Retention Time min	Name	Amount n.a.	Area µS*min	Height µS	Type